

# B2B Commerce for Visualforce Developer Guide

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# **B2B COMMERCE FOR VISUALFORCE DEVELOPER GUIDE**

Each B2B Commerce for Visualforce implementation is unique, and solves use cases that are specific to each organization's requirements. If you can't fully develop your solution using default configuration options, you can extend different parts of the managed package's code architecture. Add fields to the managed package custom objects, override Apex API calls for retrieving and processing data, modify how the storefront front end renders, and more.

#### IN THIS SECTION:

## Custom Objects for B2B Commerce for Visualforce

To support B2B Commerce for Visualforce use cases and avoid interfering with standard objects, the managed package installs several custom objects in your org. For example, B2B Commerce installs a custom product object, <code>ccrz\_\_E\_Product\_\_c</code>, that exists in parallel with the standard product object. If your org already uses the standard product object, installing B2B Commerce doesn't affect how the standard product object is used. If you want, you can even synchronize your standard product object with the B2B Commerce custom product object.

## Global API Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce defines Apex API classes and methods that provide programmatic access to records of B2B Commerce custom objects. For example, the ccrz.ccApiProduct class provides methods for querying and returning data for your storefront's products.

#### **Data Service Provider Classes**

B2B Commerce for Visualforce provides several default data service providers: Apex classes that query and transform specific data for global API methods. For example, the ccrz.ccServiceCart class defines how B2B Commerce queries and transforms cart data for a ccrz.ccApiCart.fetch method call. To modify how a default class behaves, you can write subscriber code that extends or overrides the default class.

#### Logic Service Provider Classes

B2B Commerce for Visualforce provides several default *logic service providers*: Apex classes that describe the business logic for how specific global API methods behave. For example, the ccrz.ccLogicCartAddTo class defines how B2B Commerce adds products to a cart from a ccrz.ccApiCart.addTo method call. To modify the default logic for your organization, you can write subscriber code that extends or overrides the default logic.

#### REST API Endpoints for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides REST API endpoints for most of its global Apex API methods.

#### Create Subscriber APIs for B2B Commerce for Visualforce

As part of your organization's customization and extension strategy, you can develop custom APIs that build on the default Apex classes and methods that B2B Commerce for Visualforce provides.

## Global Extension Point Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides several *global extension points*: Apex classes that are called from other code in the managed package and execute specific business logic for certain storefront functionality. For example, several extension point classes define behavior for loading data during checkout.

## Utility Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides several Apex classes with static fields, which effectively behave like global objects that expose certain storefront session data. Other classes and methods in the managed package can easily reference these static fields.

## Batch Processing Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides several Apex classes that provide global, asynchronous batch jobs. Each batch processing class extends the global ccrz.ccBatchJob base class.

#### Trust Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides some default Apex classes for authoring unit tests and logging execution data.

## JavaScript Functions for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides some proprietary JavaScript libraries or heavily modified third-party libraries that help render components and behavior on storefront pages. As part of your storefront's customization strategy, you can invoke, extend, or override these functions.

# Custom Objects for B2B Commerce for Visualforce

To support B2B Commerce for Visualforce use cases and avoid interfering with standard objects, the managed package installs several custom objects in your org. For example, B2B Commerce installs a custom product object, <code>ccrz\_E\_Product\_\_c</code>, that exists in parallel with the standard product object. If your org already uses the standard product object, installing B2B Commerce doesn't affect how the standard product object is used. If you want, you can even synchronize your standard product object with the B2B Commerce custom product object.

To avoid name collisions with other custom objects, all B2B Commerce for Visualforce custom object and field names are prefixed with the ccrz namespace, as in ccrz E Order c.

# **Extend Custom Objects**

You can extend B2B Commerce for Visualforce custom objects in the following ways:

- Add subscriber fields to any B2B Commerce custom object. Avoid duplicating the non-namespaced field name. For example, the ccrz\_E\_Order\_c has the field ccrz\_Comments\_c. If you add a subscriber field to ccrz\_E\_Order\_c, name it something other than Comments c. You can add subscriber fields as part of a change set.
- Modify the default picklist values. You can only make these changes manually across all of your environments, and can't complete them as part of a change set.

## Field Data Types

When you're adding data to custom object records, each field on each object requires a specific data format. When you're returning existing data from those records with an API call, the value for each field comes back in a specific format. This guide identifies the input and output format for each field, using the following conventions:

- Input on object— The field's type for adding data to the object, such as Text or Checkbox. Some field types enforce a maximum length, such as 255 characters.
- Input or output with API—The data type for the field's value when passing data to or returning data from methods of the B2B Commerce for Visualforce API. For example, the value entered in a text-type field is stored in memory as a string primitive data type. For more details, see Primitive Data Types.

# **Available Objects**

#### IN THIS SECTION:

#### Data Model for B2B Commerce for Visualforce

The custom objects that B2B Commerce for Visualforce installs relate to each other in numerous ways. The buyer experience depends on establishing and maintaining these relationships.

## Account (B2B Commerce for Visualforce)

Represents a standard account object with custom fields that B2B Commerce for Visualforce adds.

## Contact (B2B Commerce for Visualforce)

Represents a standard contact object with custom fields that B2B Commerce for Visualforce adds.

## User (B2B Commerce for Visualforce)

Represents a standard user object with custom fields that B2B Commerce for Visualforce adds.

```
ccrz__E_AccountAddressBook__c
```

Represents an address book entry created when a buyer adds an address from the Site Register or My Account pages. Each account address book is associated with a specific account and a specific contact address record.

```
ccrz__E_AccountGroup__c
```

Represents an account group record, which associates one or more buyer accounts with entitled prices for products.

```
ccrz__E_AccountGroupPriceList__c
```

Represents the assignment of a price list to an account group.

```
ccrz E AccountSettings c
```

Contains fields that support mixed pricing when you set up contract pricing on the storefront.

```
ccrz E Attribute c
```

Represents a parent or child attribute for products when the storefront uses attribute-driven commerce.

```
ccrz__E_Cart__c
```

Represents a buyer's shopping cart, and specifies information about the cart's status.

```
ccrz__E_CartItem__c
```

Represents an item in the buyer's shopping cart, including major and minor line items or applied coupons.

```
ccrz E CartItemGroup c
```

Represents a shipping group of cart items for line-level independence (LLI) checkout.

```
ccrz__E_CartCoupon__c
```

Represents the junction of a coupon and a shopping cart record.

```
ccrz__E_Category__c
```

Represents a category record on the storefront.

```
ccrz__E_Categoryl18N___c
```

Represents an internationalized category record for a specific locale.

```
ccrz__E_CategoryMedia__c
```

Represents an image for a category that appears on the Product List page.

```
ccrz__E_CategorySpec___c
```

Represents a spec value that's assigned to all products in a category.

## ccrz\_\_E\_CompositeProduct\_\_c

Represents composite and component product relationships for bundles, kits, dynamic kits, aggregated products, and assembly products.

## ccrz\_\_E\_Configuration\_\_c

Represents a storefront or global configuration setting.

## ccrz\_\_E\_ConfigurationMeta\_\_c

Represents metadata for an available storefront or global configuration setting.

## ccrz E ConfigurationModule c

Represents the definition of a module that contains global or storefront configuration settings.

## ccrz\_\_E\_ContactAddr\_\_c

Represents address details associated with carts, orders, invoices, subscriptions, payments, and other storefront data. A contact address is associated with an account address book, which references a specific account and specifies whether the address is for shipping or billing.

## ccrz\_\_E\_Coupon\_\_c

Represents a coupon record for the storefront.

## ccrz\_\_E\_FeaturedProduct\_\_c

Represents the details for a product shown in the Featured Products or Spotlight Products widget on your storefront's Home page.

## ccrz E FeaturedProductI18N c

Represents a featured product translated for a locale that your storefront supports.

```
ccrz E Invoice c
```

Represents an invoice that B2B Commerce for Visualforce creates for a user after the user places an order.

## ccrz E Invoiceltem c

Represents a line item referenced from an invoice, such as a product or a fee.

```
ccrz__E_Menu__c
```

Represents a top-level entry in the storefront's navigation bar. Refresh the cached menu data whenever you modify menu records so that the storefront reflects the most recent menu data.

## ccrz E Menul18N c

Represents an internationalized menu record for a specific locale.

## ccrz\_\_E\_Menultem\_\_c

Represents a nested menu entry in a menu in the storefront's navigation bar. Refresh the cached menu data whenever you modify menu item records so that the storefront reflects the most recent menu data.

#### ccrz E MenultemI18N c

Represents an internationalized menu item record for a specific locale.

```
ccrz__E_Order__c
```

Represents a buyer's completed order, based on a shopping cart that the buyer checked out with.

```
ccrz__E_OrderItem__c
```

Represents an item in a buyer's completed order, including major and minor line items or applied coupons.

## ccrz E OrderltemGroup c

Represents a shipping group of order items for line-level independence (LLI) checkout.

## ccrz\_\_E\_OrderShipment\_\_c

Represents shipment details for an order.

## ccrz\_\_E\_OrderShipmentItem\_\_c

Represents shipment details for an item in a buyer's completed order.

## ccrz\_\_E\_OrderTerm\_\_c

Represents the terms and conditions that a buyer acknowledges and accepts during checkout.

```
ccrz E PageLabel c
```

Represents a page label record, which defines buyer-facing text on the storefront, such as headings, buttons, and error messages. Each page label record is specific to one storefront and one locale.

```
ccrz__E_PageLabell18N__c
```

Represents a page label translated for a locale that your storefront supports.

```
ccrz__E_PageSection__c
```

Represents a page section record, which specifies extra product content—product specifications, related products, documentation, and so on—to show on the Product Detail page.

```
ccrz__E_PriceGroup__c
```

Determines alternative pricing for accounts outside of account groups and price lists. For example, use a price group for contract pricing, special pricing for industry segments, or other context-specific pricing.

```
ccrz__E_PriceGroupAccount__c
```

Represents the assignment of a price group to an account.

```
ccrz__E_PriceGroupItem__c
```

Represents a product included in a price group.

```
ccrz E PriceGroupPricelist c
```

Represents the assignment of a price list to a price group.

```
ccrz__E_Pricelist__c
```

Represents a price list record, which assigns prices to products for a particular account group. Each price list can apply to only one currency.

```
ccrz E PricelistItem c
```

Represents a specific price for a product in a price list.

```
ccrz E Product c
```

Represents a product record for the storefront.

```
ccrz__E_ProductCategory__c
```

Represents the assignment of a product to a category.

```
ccrz E ProductGuide c
```

Represents a product guide used for a dynamic kit.

```
ccrz__E_ProductIndex__c
```

Represents a flat data structure for one product assigned to one category and one locale. A product index record includes the product's pricing information and searchable data, such as SKU, short and long description, and SEO keywords. B2B Commerce for Visualforce references product index records for quickly populating content on the Product List page version 2.0.

```
ccrz E ProductInventoryItem c
```

Represents the available inventory quantity for a product.

```
ccrz E ProductItemI18N c
```

Represents an internationalized product record for a specific locale.

```
ccrz__E_ProductMedia__c
```

Represents an image or documentation file for a product.

```
ccrz_E_ProductSpec__c
```

Represents the value of a product's specification, such as Stainless Steel for a spec named Material.

```
ccrz E ProductSpecIndex c
```

Represents an instance of a single spec value for a particular product, cached for quickly retrieving spec values on the storefront.

```
ccrz E ProductTab c
```

Represents custom rich text content to display as a page section on the Product Detail page.

```
ccrz E Promo c
```

Represents a promotion record for a storefront.

```
ccrz E Promol18n c
```

Represents a localized promotion record.

```
ccrz_E_PromotionAccountGroupFilter__c
```

Represents an account group that a promotion record includes or excludes, which targets the promotion at a specific set of users.

```
ccrz__E_PublicCache__c
```

Represents cached data for content that's publicly available and specific to a storefront, page, and locale.

```
ccrz E PublicCacheContent c
```

Represents the content of a parent public cache record.

```
ccrz E RelatedProduct c
```

Represents a relationship between two products, such as specifying that one product in your catalog complements or replaces another product.

```
ccrz E RelatedProductGroup c
```

This object is available in the managed package, but isn't used for any default functionality.

```
ccrz__E_Seller__c
```

Represents a seller hosted on your storefront whose products are available for search and purchase.

```
ccrz E SellerI18N c
```

Represents a localized seller record.

```
ccrz__E_ShippingRate__c
```

Represents a shipping cost calculation for a product, based on the product's specified shipping weight, a shipping carrier, and a shipping method.

```
ccrz E Spec c
```

Represents the definition for a specification, which identifies a type of physical, operational, or performance measurement for a product. The ccrz\_E\_ProductSpec\_\_c object defines a specification value for a particular product.

```
ccrz__E_SiteIndex__c
```

Represents the hashed definition of a single category's friendly URL and its associated breadcrumb path for a specific storefront and locale.

```
ccrz E StoredPayment c
```

Represents payment details saved in the My Wallet section of the My Account page.

```
ccrz E StorefrontAssociation c
```

Represents a link between a particular account, a particular storefront, and a particular Experience Cloud site.

```
ccrz__E_SubProdTerm__c
```

Represents subscription options that you make available for a specific product.

```
ccrz__E_SubProdTermI18N__c
```

Represents subscription options that you make available for a specific product, localized for a specific storefront locale.

```
ccrz E Subscriber Page c
```

Represents a custom page that you add to the storefront.

```
ccrz E Subscription c
```

Represents a buyer's selected subscription after they place an order.

```
ccrz E TaxRate c
```

Represents a tax percentage for a state in a particular country or territory. The Checkout page applies this tax rate to all taxable products, depending on the specified shipping address.

```
ccrz__E_Term__c
```

Represents terms and conditions shown to the buyer during checkout.

```
ccrz__E_TransactionPayment__c
```

Represents a payment made when a buyer completes checkout.

## Data Model for B2B Commerce for Visualforce

The custom objects that B2B Commerce for Visualforce installs relate to each other in numerous ways. The buyer experience depends on establishing and maintaining these relationships.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Data Model



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

## Account (B2B Commerce for Visualforce)

Represents a standard account object with custom fields that B2B Commerce for Visualforce adds.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiAccount

**Fetch sizing:** To specify which fields the ccrz.ccApiAccount.fetch method returns for each account record, request a specific data size for the ccrz.ccApiAccount.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

## Fields Added by B2B Commerce for Visualforce

## Account Group

The account group that the account belongs to.

Usage	Field Name	Data Type
Input on object	ccrzAccountGroupc	Lookup Relationship (ccrz_E_AccountGroupc)
Input or output with API (with <b>SZ_M</b> or larger)	EAccountGroupR	ID

## Custom Field 1

A custom field that you can implement in your solution.

Usage	Field Name	Data Type
Input on object	ccrzCustomField1c	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	customField1	String

#### Custom Field 2

A custom field that you can implement in your solution.

Usage	Field Name	Data Type
Input on object	ccrzCustomField2c	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	customField2	String

#### Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Prevent Address Book Saves

Whether the storefront user associated with the account can add, edit, or delete addresses in the Manage Address Book section of the My Account page. For usage, see Allow a Buyer to Manage Shipping and Billing Addresses on the My Account Page.

Usage	Field Name	Data Type
Input on object	ccrzPreventAddrBookSavec	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	preventAddrBookSave	Boolean

#### Prevent New Addresses at Checkout

Whether a storefront user associated with the account can enter a new shipping address in the User Information section of the Checkout page. For usage, see Specify Whether a Buyer Can Modify Addresses on the Checkout Page.

Usage	Field Name	Data Type
Input on object	ccrzPreventNewAddrCheckoutc	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	preventNewAddrCheckout	Boolean

## Prevent New Checkout Billing Address

Whether a storefront user associated with the account can enter a new billing address in the User Information section of the Checkout page. For usage, see Specify Whether a Buyer Can Modify Addresses on the Checkout Page.

Usage	Field Name	Data Type
Input on object	ccrzPreventNewBillAddrCOc	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	preventNewBillAddrCO	Boolean

## TaxExemptAccount

Whether the account is exempt from tax calculation during checkout. For more information, see ccrz.cc\_hk\_TaxCalculation.skipTaxCalculation.

Usage	Field Name	Data Type
Input on object	ccrzTaxExemptAccountc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_S</b> or larger)	taxExemptAccount	Boolean

## Used by CloudCraze Customer Portal

Used in account sharing rules to identify portal user accounts.

Usage	Field Name	Data Type
Input on object	ccrzUsedByCloudcrazec	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Source System	ccrzSourceSystemc	Text (100)

## SEE ALSO:

ccrz\_\_E\_AccountGroup\_\_c

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

Salesforce Help Enable Buyer Entitlements with Account Groups

Salesforce Help Show Account, Contact, and User Information on the My Account Page

## Contact (B2B Commerce for Visualforce)

Represents a standard contact object with custom fields that B2B Commerce for Visualforce adds.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiContact

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

The API doesn't return data for any of the custom fields that B2B Commerce for Visualforce adds.

## Fields Added by B2B Commerce for Visualforce

## Company Name

Included in the default Request for Quote form.

Usage	Field Name	Data Type
Input on object	ccrzCompanyNamec	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Level

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_Levelc	Picklist
Input or output with API (with any data size)	The API doesn't return data for this field.	

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Company Type	ccrzCompanyTypec	Picklist
Portal User	ccrzIsPortalUserc	Checkbox
Languages	ccrzLanguagesc	Text (100)
Self Registered	ccrzSelfRegisteredc	Checkbox

SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers Salesforce Help Show Account, Contact, and User Information on the My Account Page

# User (B2B Commerce for Visualforce)

Represents a standard user object with custom fields that B2B Commerce for Visualforce adds.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiUser

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

## Fields Added by B2B Commerce for Visualforce

## Company Type

Options for the Company Type picklist on the Site Register page.

Usage	Field Name	Data Type
Input on object	ccrzCompanyTypec	Picklist
Input or output with API (with any data size)	companyType	String

## Contact Type Role

Optional role of the user in your organization.

Usage	Field Name	Data Type
Input on object	ccrzContactTypeRolec	Picklist
Input or output with API (with any data size)	contactTypeRole	String

## Currency

User's currency. This field is used in orgs that don't have multiple currencies enabled.



Tip: This field provides the value for the user's currency shown on the My Account page. If your solution integrates storefront users from another system, or if you create storefront users manually, make sure to supply a value for this field. Leaving this field blank can result in unexpected behavior when viewing currency information on the My Account page.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyCodec	Text (30)
Input or output with API (with any data size)	ccCurrencyCode	String

## Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Tax Exempt

Whether the user is exempt from tax calculations during checkout.

Usage	Field Name	Data Type
Input on object	ccrzTax_Exemptc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with any data size)	taxExempt	Boolean

#### User Industry

Optional industry for the user.

Usage	Field Name	Data Type
Input on object	ccrzUser_Industryc	Picklist
Input or output with API (with any data size)	userIndustry	String

#### User Salutation

User's salutation, which is specified from the Title field of the Site Register page.

Usage	Field Name	Data Type
Input on object	ccrzUser_Salutationc	Picklist
Input or output with API (with any data size)	userSalutation	String

## SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers Salesforce Help Show Account, Contact, and User Information on the My Account Page

# ccrz\_\_E\_AccountAddressBook\_\_c

Represents an address book entry created when a buyer adds an address from the Site Register or My Account pages. Each account address book is associated with a specific account and a specific contact address record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiAddressBook

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

## **Fields**

#### AccountID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzAccountIdc	Text (50)
Input or output with API (with any data size)	accountId	String

## Address Book ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzAddressBookIdc	Text (80)
Input or output with API (with any data size)	addressBookId	String

## Address Type

Whether the associated contact address is for billing or shipping.

Usage	Field Name	Data Type
Input on object	ccrzAddressTypec	Picklist
Input or output with API (with any data size)	addressType	String

## CC Contact Address

The specific address details associated with this address book entry.

Usage	Field Name	Data Type
Input on object	ccrzE_ContactAddressc	Lookup Relationship (ccrzE_ContactAddrc)
Input or output with API (with any data size)	EContactAddress	ID

## Custom Object Label Name

Unique record ID for the account address book.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

## Default

Whether the address is selected by default in billing or shipping address picklists on the storefront, depending on the record's Address Type.



**Note:** B2B Commerce for Visualforce doesn't enforce a limit of only one default billing or shipping address. You can enable Default on multiple account address book records. When multiple default billing or shipping addresses exist, B2B Commerce references whichever record was most recently edited to use as the default.

Usage	Field Name	Data Type
Input on object	ccrzDefaultc	Checkbox
Input or output with API (with any data size)	default	Boolean

#### Owner

ID of the user that owns the account address book record.

Usage	Field Name	Data Type
Input on object	ccrzOwnerc	Lookup Relationship (User)
Input or output with API (with any data size)	owner	ID

## TypeReadOnly

ID of the user that owns the account address book record.

Usage	Field Name	Data Type
Input on object	ccrzTypeReadOnlyc	Checkbox
Input or output with API (with any data size)	typeReadOnly	Boolean

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Account	ccrzAccountc	Lookup Relationship (Account)

## SEE ALSO:

```
ccrz__E_ContactAddr__c
```

Salesforce Help: Account, Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers
Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz\_\_E\_AccountGroup\_\_c

Represents an account group record, which associates one or more buyer accounts with entitled prices for products.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: The API doesn't directly query records of this object.

Instead, the ccrz.ccApiAccount return data includes the EAccountGroupR related list when the ccrz.ccApiAccount.ENTITYNAME input map key requests a medium or larger data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

Field sizing: Each record returned in the related list always returns the same fields, regardless of requested data size.

## **Fields**

## Account Group Name

Name of the account group.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

## Account Group ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzAccountGroupIDc	Text (128)
Input or output with API (with any data size)	accountGroupID	String

#### Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Desc

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzDescc	Text (255)
Input or output with API (with any data size)	desc	String

## PriceList Selection Method

How B2B Commerce for Visualforce selects the price list that's used for determining the entitled products and prices for buyers in the account group. Selecting a price list is necessary only when the account group has multiple price lists assigned. For picklist values and usage, see Price List Selection Methods for an Account Group.

Usage	Field Name	Data Type
Input on object	ccrz_PriceListSelectionMethod_c	Picklist
Input or output with API (with any data size)	priceListSelectionMethod	String

#### Theme Name

The name of a unique storefront theme to show only for buyers in the account group. This functionality is implemented by the ccrz.cc\_hk\_DynamicTheme extension point class. For more information, see:

- Show a Unique Storefront Theme for an Account Group
- Style Your Storefront with a Theme

Usage	Field Name	Data Type
Input on object	ccrzThemeNamec	Text (255)
Input or output with API (with any data size)	themeName	String

#### SEE ALSO:

Account (B2B Commerce for Visualforce)

Salesforce Help Enable Buyer Entitlements with Account Groups

Salesforce Help Price List Selection Methods for an Account Group

Salesforce Help Show a Unique Storefront Theme for an Account Group

Salesforce Help Style Your Storefront with a Theme

# ccrz\_\_E\_AccountGroupPriceList\_\_c

Represents the assignment of a price list to an account group.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

**Class used with:** The API doesn't directly query records of this object.

## **Fields**

## Account Group

The account group assigned to the price list.

Usage	Field Name	Data Type
Input on object	ccrzAccountGroupc	Lookup Relationship (ccrz_E_AccountGroup_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Account Group Pricelist ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrz_AccountGroupPriceListID_c	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Acct Group Pricelist Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Enable

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnablec	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## End Date

Date when the relationship between account group and price list is no longer valid.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Pricelist

The price list that the account group's assigned to.

Usage	Field Name	Data Type
Input on object	ccrzPriceListc	Lookup Relationship (ccrz_E_PriceList_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Sequence

Priority of the price list for the account group. This field is used only when the account group's price list selection method is Sequence Order. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_price\_list\_selection\_method.htm.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Start Date

Date when the relationship between account group and price list is valid.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

## SEE ALSO:

Salesforce Help Price List Selection Methods for an Account Group

# ccrz\_\_E\_AccountSettings\_\_c

Contains fields that support mixed pricing when you set up contract pricing on the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

**Class used with:** The API doesn't directly query records of this object.

## **Fields**

## Account

The account that these settings apply to.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Master-Detail Relationship (Account)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Allow Mixed Pricing Carts

Honor Custom Prices Negotiated in a Contract

Usage	Field Name	Data Type
Input on object	ccrz_AllowMixedPricingCarts_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## CC Account Setting Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

SEE ALSO:

Salesforce Help Honor Custom Prices Negotiated in a Contract

## ccrz E Attribute c

Represents a parent or child attribute for products when the storefront uses attribute-driven commerce.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiAttribute

**Fetch sizing:** To specify which fields the ccrz.ccApiAttribute.fetch method returns for each attribute record, request a specific data size for the ccrz.ccApiAttribute.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAttribute.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

## **Fields**

## Attribute ID

A unique ID that associates the record with an external system.



Note: This field is required. B2B Commerce for Visualforce uses this ID as a key in JSON-formatted attribute pricing data.

Usage	Field Name	Data Type
Input on object	ccrzAttributeIDc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	attributeID	String

## CC Attribute Name

Attribute record name.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

## Display Name

The attribute name displayed on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text Area (Rich) (1024)
Input or output with API (with <b>SZ_M</b> or larger)	displayName	String

## Effective End

Date when this attribute is no longer available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with <b>SZ_XL</b> )	effectiveEnd	Datetime

## Effective Start

Date when this attribute is available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with <b>SZ_XL</b> )	effectiveStart	Datetime

## Parent Attribute

Date when this attribute is available.

Usage	Field Name	Data Type
Input on object	ccrzParentAttributec	Lookup Relationship ( ccrz_E_Attribute_c)
Input or output with API (with <b>SZ_S</b> or	parentAttribute	ID
larger)	parentAttributeR	Map <string, object="">that describes the parent attribute.</string,>

## Sequence

The order that a child attribute displays under a parent attribute. Lower Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with <b>SZ_L</b> or larger)	sequence	Decimal

## SKU Fragment

The unique SKU for a child attribute. The selected child attribute SKUs form the product's SKU.

Usage	Field Name	Data Type
Input on object	ccrzSKUFragmentc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	SKUFragment	String

## SEE ALSO:

Salesforce Help Set Up Attribute-Based Products

# ccrz\_\_E\_Cart\_\_c

Represents a buyer's shopping cart, and specifies information about the cart's status.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiCart

**Fetch sizing:** To specify which fields the ccrz.ccApiCart.fetch method returns for each cart record, request a specific data size for the ccrz.ccApiCart.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

## **Fields**

## Account

The account associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Lookup Relationship (Account)
Input or output with API (with SZ_XL)	account	ID

## Active Cart

Whether the cart is *active* for the buyer's storefront session. Only one cart can be active per account at one time.

Usage	Field Name	Data Type
Input on object	ccrzActiveCartc	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	activeCart	Boolean

## Adjustment Amount

Amount to adjust the order price by after the order is placed. This amount is specified on the cart, and passed to the corresponding ccrz\_E\_Order\_\_c record. You can use your own back-end processing to apply this adjustment without changing the values of other fields

Usage	Field Name	Data Type
Input on object	ccrzAdjustmentAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	adjustmentAmount	Decimal

## Adjustment Reason

Text that explains or justifies an adjustment amount. This text is specified on the cart, and passed to the corresponding ccrz E Order c record.

Usage	Field Name	Data Type
Input on object	ccrzAdjustmentReasonc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	adjustmentReason	String

## Anonymous ID

Whether the user associated with the cart is a guest or registered buyer. If a buyer creates a cart as a guest and then logs in, this field is evaluated when transferring the guest cart to the authenticated buyer.

Usage	Field Name	Data Type
Input on object	ccrzAnonymousIdc	Checkbox
Input or output with API (with SZ_XL)	anonymousID	Boolean

## Asynchronous Job ID

The ID of the asynchronous Apex job that's executing for the cart.



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrzAsynchronousJobIDc	Text (255)
Input or output with API (with <b>SZ_M</b> ) or larger	asynchronousJobID	String

#### Bill To

The billing address associated with the cart. This record is a unique copy of the billing address specified during checkout.

Usage	Field Name	Data Type
Input on object	ccrzBillToc	Lookup Relationship (ccrz_E_ContactAddrc)
Input or output with API (with <b>SZ_XL</b> )	billTo	ID

## Cart Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	ID

## Cart ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCartIdc	Text (128)
Input or output with API (with <b>SZ_XL</b> )	cartId	String

## Cart Status

Whether the cart is open:

- Open
- Closed after a corresponding order is placed
- Abandoned
- Processing, which indicates that the ccrz.ccApiCart.placeAsync method is placing the order using asynchronous Apex jobs.
- Repricing, which indicates that pricing logic is reevaluating the cart's items and prices.



Note: The Processing and Repricing statuses available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrzCartStatusc	Picklist
Input or output with API	cartStatus	String
With <b>SZ_S</b> in B2B Commerce for Visualforce Winter '21 (Winter 4.13) or later		
• With <b>SZ_M</b> in B2B Commerce for Visualforce Spring '20 (version 4.12) or earlier		

## Cart Type

Whether the cart is a standard cart or a wish list.

Usage	Field Name	Data Type
Input on object	ccrzCartTypec	Picklist

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_M</b> or larger)	cartStatus	String

## CCEmailAddress

Whitespace-separated list of email addresses for the CC line of the order confirmation email. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_checkout\_cc\_email.htm.



🁔 Tip: We recommend that you populate this field only for orders that contain a low volume of cart items.

Usage	Field Name	Data Type
Input on object	ccrzCCEmailAddressc	Text Area (Long) (32768)
Input or output with API (with SZ_XL)	CCEmailAddress	String

## Contact

The contact associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzContactc	Lookup Relationship (Contact)
Input or output with API (with <b>SZ_XL</b> )	contact	ID

## Contract ID

The contract ID when the cart's payment method is Contract. For more information about contract pricing, see https://help.salesforce.com/articleView?id=sf.b2b\_commerce\_contract.htm.

Usage	Field Name	Data Type
Input on object	ccrzContractIdc	Text (50)
Input or output with API (with <b>SZ_XL</b> )	contractId	String

## Currency ISO Code

The ISO 4217 currency code for the cart, such as USD or JPY.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyISOCodec	Text (10)
Input or output with API (with <b>SZ_L</b> or larger)	currencyISOCode	String

## Effective Account ID

The effective account associated with the cart. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_effective\_account\_cart.htm.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveAccountIDc	Text (20)
<ul> <li>With SZ_M in B2B Commerce for Visualforce Spring '20 (version 4.12) or later</li> <li>With SZ_XL in B2B Commerce for Visualforce Summer '19 (version 4.11) or earlier</li> </ul>	effectiveAccountID	String

## **Email**

Buyer's email address.

Usage	Field Name	Data Type
Input on object	ccrzBuyerEmailc	Email
Input or output with API (with <b>SZ_XL</b> )	buyerEmail	String

## Encrypted ID

Semi-random UUID to refer to the cart in page URLs.

Usage	Field Name	Data Type
Input on object	ccrzEncryptedIdc	Text (250)
Input or output with API (with <b>SZ_S</b> or larger)	encryptedId	String

## First Name

Buyer's first name.

Usage	Field Name	Data Type
Input on object	ccrzBuyerFirstNamec	Text (40)
Input or output with API (with <b>SZ_XL</b> )	buyerFirstName	String

## Last Name

Buyer's last name.

Usage	Field Name	Data Type
Input on object	ccrzBuyerLastNamec	Text (80)
Input or output with API (with <b>SZ_XL</b> )	buyerLastName	String

## Mobile Phone

Buyer's mobile phone number.

Usage	Field Name	Data Type
Input on object	ccrzBuyerMobilePhonec	Phone
Input or output with API (with <b>SZ_XL</b> )	buyerMobilePhone	String

#### Name

A name for the cart in the My Carts section of the My Account page.

Usage	Field Name	Data Type
Input on object	ccrzNamec	Text (255)
Input or output with API (with <b>SZ_XL</b> )	name	String

## Note

A shipping note entered during checkout.

Usage	Field Name	Data Type
Input on object	ccrzNotec	Text Area (Long) (1000)
Input or output with API (with <b>SZ_XL</b> )	note	String

## Number of All Cart Items

The total number of items in the cart, including both major and minor line items.



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrzNumberofAllCartItemsc	Roll-Up Summary (COUNT ccrz_E_CartItem_c)
Input or output with API (with <b>SZ_M</b> or larger)	numberofAllCartItems	Integer

## Number of Major Cart Items

The total number of major line items in the cart.



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrz_NumberofMajorCartItemsc	Roll-Up Summary (COUNT ccrz_E_CartItemc)
Input or output with API (with <b>SZ_M</b> or larger)	numberofMajorCartItems	Integer

## Payment Method

The payment method for the cart. This value corresponds to the value of the ccrz Payment Method c field on the ccrz E PaymentDetail crecord.

Usage	Field Name	Data Type
Input on object	ccrzPaymentMethodc	Text (50)
Input or output with API (with <b>SZ_L</b> or larger)	paymentMethod	String

## Phone

Buyer's phone number.

Usage	Field Name	Data Type
Input on object	ccrzBuyerPhonec	Phone
Input or output with API (with <b>SZ_XL</b> )	buyerPhone	String

## PO Number

The purchase order (PO) number entered during checkout.

Usage	Field Name	Data Type
Input on object	ccrzPONumberc	Text (50)
Input or output with API (with <b>SZ_L</b> or larger)	PONumber	String

## Repriced Date

The date and time when B2B Commerce most recently priced cart items. By default, this value is the date and time the cart was created. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_shopping\_cart\_price.htm.



Note: This field is available only in B2B Commerce for Visualforce Spring '19 (version 4.10) or later.

Usage	Field Name	Data Type
Input on object	ccrzRepricedDatec	Date/Time
<ul> <li>Input or output with API</li> <li>With SZ_M in B2B Commerce for Visualforce Winter '21 (Winter 4.13) or later</li> <li>With SZ_XL in B2B Commerce for</li> </ul>	repricedDate	String
Visualforce Spring '20 (version 4.12) or earlier		

### Request Date

The delivery date that the buyer requested during checkout.

Usage	Field Name	Data Type
Input on object	ccrzRequestDatec	Date
Input or output with API (with <b>SZ_XL</b> )	requestDate	String

# Ship Amount

Amount calculated for shipping the order during checkout. This value is calculated based on shipping rates and product quantities in the cart, and passed to the corresponding <code>ccrz\_\_E\_Order\_\_c</code> record. For more information, see <a href="https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_shipping.htm">https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_shipping.htm</a>.

Usage	Field Name	Data Type
Input on object	ccrz_ShipAmount_c	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	shipAmount	Decimal

# Ship Complete

Whether the buyer selected the Ship Complete option during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShipCompletec	Checkbox
Input or output with API (with <b>SZ_XL</b> )	shipComplete	Boolean

#### Ship Discount Amount

Amount to adjust the shipping cost by after the order is placed. This amount is specified on the cart, and passed to the corresponding  $ccrz\_E\_Order\_\_c$  record. You can use your own back-end processing to apply this adjustment without changing the values of other fields.

Usage	Field Name	Data Type
Input on object	ccrzShipDiscountAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	shipDiscountAmount	Decimal

# Ship Method

The shipping method selected during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShipMethodc	Text (50)
Input or output with API (with <b>SZ_XL</b> )	shipMethod	String

# Ship Structure

The checkout experience used for grouping the cart's items for shipment. If your storefront uses line-level independence (LLI), this value is LLI. Otherwise, this value is empty.

Usage	Field Name	Data Type
Input on object	ccrzShipStructurec	Text (128)
Input or output with API (with SZ_XL)	shipStructure	String

# Ship To

The shipping address associated with the cart. This record is a unique copy of the shipping address specified during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShipToc	Lookup Relationship (ccrzE_ContactAddrc)
Input or output with API (with SZ_XL)	shipTo	ID

### Storefront

The storefront where the cart was created.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontc	Text (255)
Input or output with API (with SZ_XL)	storefront	String

# Subtotal Amount

The total entitled price of all items in the cart.

Usage	Field Name	Data Type
Input on object	ccrzSubtotalAmountc	Roll-Up Summary (SUM ccrz_E_CartItemc)
Input or output with API (with <b>SZ_L</b> or larger)	subtotalAmount	Decimal

#### Tax Amount

Tax amount calculated during checkout.

Usage	Field Name	Data Type
Input on object	ccrzTaxAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	taxAmount	Decimal

#### Tax Subtotal Amount

The total taxable price of all items in the cart.

Usage	Field Name	Data Type
Input on object	ccrzTaxSubTotalAmountc	Roll-Up Summary (SUM ccrzE_CartItemc)
Input or output with API (with <b>SZ_L</b> or larger)	taxSubTotalAmount	Decimal

# TaxExemptFlag

Whether the cart is exempt from tax. This value is specified on the cart, and passed to the corresponding ccrz\_\_E\_Order\_\_c record.

Usage	Field Name	Data Type
Input on object	ccrzTaxExemptFlagc	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	taxExemptFlag	Boolean

# Total Amount

Total cost calculated for the cart, including:

- Ship amount
- Ship discount amount
- Subtotal amount
- Tax amount
- Adjustment amount

# • Total surcharge

Usage	Field Name	Data Type
Input on object	ccrzTotalAmountc	Formula (Currency)
Input or output with API (with <b>SZ_L</b> or larger)	totalAmount	Decimal

# Total Discount

Total amount discounted from the cart.

Usage	Field Name	Data Type
Input on object	ccrzTotalDiscountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	totalDiscount	Decimal

# Total Quantity

Total number of items in the cart.

Usage	Field Name	Data Type
Input on object	ccrzTotalQuantityc	Roll-Up Summary (SUM ccrz_E_CartItem_c)
Input or output with API (with <b>SZ_L</b> or larger)	totalQuantity	Integers

# Total Surcharge

Charges other than taxes or shipping applied to the cart.

Usage	Field Name	Data Type
Input on object	ccrzTotalSurchargec	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	totalSurcharge	Decimal

#### User

The user that created the cart.

Usage	Field Name	Data Type
Input on object	ccrzUserc	Lookup Relationship (User)
Input or output with API (with <b>SZ_XL</b> )	user	ID

#### Validation Status

The cart's validation status, used with Apex remote actions.

Usage	Field Name	Data Type
Input on object	ccrzValidationStatusc	Text (75)
Input or output with API (with <b>SZ_S</b> )	validationStatus	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Company Name	ccrzBuyerCompanyNamec	Text (80)
Session ID	ccrzSessionIdc	Text (255)

# **Related Lists**

A record of the ccrz\_E\_Cart\_\_c object can have multiple related lists that relate the cart to other types of records, such as cart items. The ccrz.ccApiCart.fetch method can return data from these related records, depending on the requested data size in the input map.

The reference for each related list indicates which data size the list is returned with by default. You can also use the ccrz.ccApi.SZ REL flag in your input map to request a particular list, regardless of requested data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XS,
        ccrz.ccApi.SZ_REL => New List<String>{'E_CartItems__r'}
}
```

#### **ECartItems**

List<Map<String, Object>> ofccrz E CartItem c.

Consideration	Value
Default data size returned with	SZ_S or larger
ccrz.ccApi.SZ_REL request value	E_CartItemsr

#### SEE ALSO:

Salesforce Help: Considerations for Supporting a Buyer's Cart Experience
Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart
Salesforce Help Scale Your Cart Capabilities for a Large Number of Items
Salesforce Help Scaled Cart Page

# ccrz\_E\_CartItem\_\_c

Represents an item in the buyer's shopping cart, including major and minor line items or applied coupons.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiCart

Fetch sizing: To specify which fields the ccrz.ccApiCart.fetchorccrz.ccApiCart.fetchCartItems method returns for each cart item record, request a specific data size for the ccrz.ccApiCart.CLI\_ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.CLI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

# **Fields**

#### Absolute Discount

A fixed discount amount for the item in the cart's currency.

Usage	Field Name	Data Type
Input on object	ccrzAbsoluteDiscountc	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	absoluteDiscount	Decimal

# Adjustment Amount

Amount to adjust the item's price in the cart by. Typically, a customer service representative (CSR) performs this adjustment on behalf of a buyer.

Usage	Field Name	Data Type
Input on object	ccrzAdjustmentAmountc	Currency (16, 2)
Input or output with API (with SZ_XL)	adjustmentAmount	Decimal

# Availability Message

Usage	Field Name	Data Type
Input on object	ccrz_AvailabilityMessage_c	Text Area (255)
Input or output with API (with <b>SZ_XL</b> )	availabilityMessage	String

# Cart

The cart that the items belong to.

Usage	Field Name	Data Type
Input on object	ccrzCartc	Master-Detail Relationship (ccrz_E_Cartc on page 25)
Input or output with API (with <b>SZ_S</b> or larger)	cart	ID
	cartR	Map <string, object="">, which contains a sfdcName field that references the cart's auto number.</string,>

# Cart Item Group

The shipping group that the item belongs to. This value is set only when your storefront uses line-level independence (LLI) for checkout.

Usage	Field Name	Data Type
Input on object	ccrzCartItemGroupc	Lookup Relationship (ccrz_E_CartItemGroup_c)
Input or output with API (with <b>SZ_XL</b> )	cartItemGroup	ID

#### Cart Item ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCartItemIdc	Text (128)
Input or output with API (with <b>SZ_XL</b> )	cartItemId	ID

# Cart Item Type

Whether the cart item is a:

- Major line item, such as a standard product or a composite product
- Minor line item, such as a component product of a composite product
- Coupon

Usage	Field Name	Data Type
Input on object	ccrzcartItemTypec	Picklist
Input or output with API (with <b>SZ_M</b> or larger)	cartItemType	String

# CartItemAutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

#### Category

The category that the cart item's corresponding product belongs to.



Mote: The managed package doesn't set this field when building a cart, but the ccrz.ccLogicCartPlace logic service. 

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Lookup Relationship (ccrz_E_Category_c)
Input or output with API (with SZ_XL)	category	ID

### Comments

Text that a buyer adds to the cart item on the Shopping Cart page.

Usage	Field Name	Data Type
Input on object	ccrzCommentsc	Text Area (255)
Input or output with API (with <b>SZ_XL</b> )	comments	String

### Coupon

The coupon record that corresponds to a coupon cart item.

Usage	Field Name	Data Type
Input on object	ccrzCouponc	Lookup Relationship (ccrz_E_Couponc)
Input or output with API (with <b>SZ_XL</b> )	coupon	ID

# Display Product

The product that displays on the Shopping Cart page and links to the Product Detail page for the cart item.

Usage	Field Name	Data Type
Input on object	ccrzDisplayProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with <b>SZ_S</b> or larger)	displayProduct	ID

#### External Name

The name for an externally priced product. This name displays for the cart item on the Shopping Cart page instead of the referenced display product's name.

Usage	Field Name	Data Type
Input on object	ccrzExtNamec	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	extName	String

# External SKU

The SKU for an externally priced product. This SKU displays for the cart item on the Shopping Cart page instead of the referenced display product's SKU.

Usage	Field Name	Data Type
Input on object	ccrzExtSKUc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	extSKU	String

# Item Label

A custom value to show for the item on the Shopping Cart page instead of the product name.

Usage	Field Name	Data Type
Input on object	ccrzItemLabelc	Text (80)
Input or output with API (with <b>SZ_L</b> or larger)	itemLabel	String

#### Item Status

The cart item's status, based on specified product inventory rules:

- Available, if inventory is enabled and sufficient inventory is available for the product
- Pre-Order, if inventory is enabled but sufficient inventory isn't available for the product
- Invalid for all other cases

# Note:

- For more information about inventory, see Manage Product Inventory Items and Availability Messages.
- In B2B Commerce for Visualforce Winter '21 (version 4.13) or later, this value is Invalid when the corresponding ccrz\_E\_Product\_crecord's ccrz\_ProductStatus\_c field is any value other than Released. A value of Invalid causes the Scaled Cart page to show the product as unavailable in the cart. For more information, see Unavailable Products on the Scaled Cart Page.

Usage	Field Name	Data Type
Input on object	ccrzItemStatusc	Picklist
Input or output with API (with <b>SZ_L</b> or larger)	itemStatus	String

#### Item Total

Total cost calculated for the cart item, including:

- Subtotal amount
- Adjustment amount

Usage	Field Name	Data Type
Input on object	ccrzItemTotalc	Formula (Currency)
Input or output with API (with <b>SZ_M</b> or larger)	itemTotal	Decimal

### Original Item Price

The buyer's entitled price for the cart item before any adjustments are applied.

Usage	Field Name	Data Type
Input on object	ccrzOriginalItemPricec	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	originalItemPrice	Decimal

### Original Quantity

The original quantity per unit for component products included in kits, bundles, or dynamic kits.

Usage	Field Name	Data Type
Input on object	ccrzOriginalQuantityc	Number (16, 2)
Input or output with API (with <b>SZ_XL</b> )	originalQuantity	Integer

#### Parent Cart Item

The cart item that represents a composite product: a kit, bundle, or dynamic kit for which the current cart item is a component product.

Usage	Field Name	Data Type
Input on object	ccrzParentCartItemc	Lookup Relationship (ccrzE_CartItemc)
Input or output with API (with <b>SZ_L</b> or larger)	parentCartItem	ID

#### Parent Product

By default, the managed package doesn't set this field.



Usage	Field Name	Data Type
Input on object	ccrzParentProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with SZ_XL)	parentProduct	ID

# Percent Discount

The percentage discount for this cart item when a coupon is applied.

Usage	Field Name	Data Type
Input on object	ccrzPercentDiscountc	Percent (3, 4)
Input or output with API (with <b>SZ_XL</b> )	percentDiscount	Decimal

### Price

The buyer's entitled price for the cart item.

Usage	Field Name	Data Type
Input on object	ccrzPricec	Currency (16, 2)
Input or output with API (with <b>SZ_M</b> or larger)	price	Decimal

# Pricing Modifier Types

Comma-delimited list of pricing modifiers applied to the cart item. The only value that the managed package supports by default is tiered. For more information about tiered pricing, see Adjust Product Prices Based on Tiered Quantities.



Tip: Avoid using the value tiered in any customizations or extensions in your subscriber code.

Usage	Field Name	Data Type
Input on object	ccrzPricingModifierTypesc	Text (255)
Input or output with API (with <b>SZ_XL</b> )	pricingModifierTypes	String

# Pricing Type

An internal value that indicates the cart item's pricing source.

- When this value is ATTRGROUP, B2B Commerce for Visualforce evaluates the cart item as part of an attribute-based product.
- When this value is <code>external</code>, B2B Commerce for Visualforce evaluates the cart item as externally priced.

Usage	Field Name	Data Type
Input on object	ccrzPricingTypec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	pricingType	String

### Primary Attribute

The primary attribute selected on the cart item's corresponding attribute-based product.

Usage	Field Name	Data Type
Input on object	ccrzPrimaryAttrc	Lookup Relationship (ccrz_E_Attributec)
Input or output with API (with SZ_S or	primaryAttr	ID
larger)	primaryAttrR	Map <string, object="">, which contains a parentAttribute field that references the primary attribute's parent attribute.</string,>

#### Product

The product that corresponds to the cart item.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or larger)	product	ID

Usage	Field Name	Data Type
	productR	Map <string, object="">, which contains the following fields:</string,>
		• endDate
		• productStatus
		• productType
		• SKU
		• startDate

# ProductType

The type of product that corresponds to the cart item. For supported values, see Types of Products for B2B Commerce for Visualforce.

Usage	Field Name	Data Type
Input on object	ccrzProductTypec	Text (20)
Input or output with API (with <b>SZ_M</b> or larger)	productType	String

# Quantity

The quantity for the item in the cart.

Usage	Field Name	Data Type
Input on object	ccrzQuantityc	Number (18, 0)
Input or output with API (with <b>SZ_S</b> or larger)	quantity	Integer

# Recurring Price

The recurring price amount for the cart item's subscription.

Usage	Field Name	Data Type
Input on object	ccrzRecurringPricec	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	recurringPrice	Decimal

# Recurring Price Sub Amount

Recurring price subtotal for the total quantity of the cart item.

Usage	Field Name	Data Type
Input on object	ccrzRecurringPriceSubAmtc	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	recurringPriceSubAmt	Decimal

#### Request Date

The date when the buyer added the product to their shopping cart.

Usage	Field Name	Data Type
Input on object	ccrzRequestDatec	Date
Input or output with API (with SZ_XL)	requestDate	Date



🕜 Note: By default, this field isn't synchronized with the ccrz RequestDate c field on the parent ccrz E Cart c object. To implement this synchronization, extend the ccrz.cclogicCartAddTo.setCartItemFields logic service provider method. In your extension, set the ccrz RequestDate c value on the ccrz E CartItem c record to null, which causes the ccrz E CartItem c record to inherit the ccrz RequestDate c value from the parent ccrz E Cart c record. This value propagates to the corresponding ccrz E OrderItem c when the buyer places an order from the cart.

```
global with sharing class customLogicCartAddTo extends ccrz.ccLogicCartAddTo {
  global override Map<String, Object> setCartItemFields(Map<String, Object>
inputData) {
     super.setCartItemFields(inputData);
     ccrz E CartItem c cartItem = (ccrz E CartItem c)
inputData.get(ccrz.ccApiCart.CURR CARTITEM);
     cartItem.RequestDate c = null;
     return inputData;
   }
```

# Secondary Attribute

The secondary attribute selected on the cart item's corresponding attribute-based product.

Usage	Field Name	Data Type
Input on object	ccrzSecondAttrc	Lookup Relationship (ccrz_E_Attribute_c)
Input or output with API (with <b>SZ_S</b> or	secondaryAttr	ID
larger)	secondaryAttrR	Map <string, object="">, which contains a parentAttribute field that references the secondary attribute's parent attribute.</string,>

#### Selected Attributes

JSON content that describes the selected attributes for the cart item's corresponding product.

Usage	Field Name	Data Type
Input on object	ccrzSelectedAttrc	Text Area (Long) (1000)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_M</b> or larger)	selectedAttr	ID

#### Seller

The seller that the buyer is purchasing the product from.

Usage	Field Name	Data Type
Input on object	ccrzSellerc	Lookup Relationship (ccrz_E_Seller_c)
Input or output with API (with <b>SZ_XL</b> )	seller	ID
	sellerR	Map <string, object="">, which contains a ID field that references the seller ID.</string,>

### Sort Name

The localized product name for sorting the cart item on the Shopping Cart page when Cart Scale is enabled. For usage, see Options for Buyers to Sort and Search Items on the Scaled Cart Page.



Usage	Field Name	Data Type
Input on object	ccrzSortNamec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	sortName	String

# Sort Price

The reference price for sorting the cart item on the Shopping Cart page when Cart Scale is enabled.



Usage	Field Name	Data Type
Input on object	ccrzSortPricec	Currency (16, 2)
Input or output with API (with <b>SZ_M</b> or larger)	sortPrice	Decimal

### Store ID

The storefront where the cart was created.

Usage	Field Name	Data Type
Input on object	ccrzStoreIDc	Text (128)
Input or output with API (with <b>SZ_M</b> or larger)	storeId	String

# Sub Amount

The entitled subtotal price for the total quantity of the cart item.

Usage	Field Name	Data Type
Input on object	ccrzSubAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	subAmount	Decimal

# SubProdTerm

The subscription that corresponds to the cart item.

Usage	Field Name	Data Type
Input on object	ccrzSubProdTermc	Lookup Relationship (ccrz_E_SubProdTerm_c)
Input or output with API (with <b>SZ_XL</b> )	subProdTerm	ID

# Tertiary Attribute

The tertiary attribute selected on the cart item's corresponding attribute-based product.

Usage	Field Name	Data Type
Input on object	ccrzTertiaryAttrc	Lookup Relationship (ccrz_E_Attribute_c)
Input or output with API (with SZ_S or	tertiaryAttr	ID
larger)	tertiaryAttrR	Map <string, object="">, which contains a parentAttribute field that references the tertiary attribute's parent attribute.</string,>

# Unit Of Measure

The unit of measure from the cart item's corresponding product.

Usage	Field Name	Data Type
Input on object	ccrzUnitOfMeasurec	Text (32)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_L</b> or larger)	unitOfMeasure	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Is Subscription Selected	ccrz_Is_Subscription_Selected_c	Checkbox
Subscription Duration (In Months)	ccrz_Subscription_Duration_c	Number (18, 0)
Subscription Frequency	ccrz_Subscription_Frequency_c	Number (4, 0)

# SEE ALSO:

Salesforce Help Types of Products for B2B Commerce for Visualforce

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

Salesforce Help Scale Your Cart Capabilities for a Large Number of Items

Salesforce Help Scaled Cart Page

Salesforce Help Set Product Prices in the Cart from an External Source

# ccrz\_\_E\_CartItemGroup\_\_c

Represents a shipping group of cart items for line-level independence (LLI) checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

# Methods used with:

- ccrz.ccApiCart.createCartItemGroup
- ccrz.ccApiCart.initItemGroups
- ccrz.ccApiCart.reviseCartItemGroup

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

# CartItemGroupId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCartItemGroupIdc	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### CC Cart

The cart where the shipping group applies.

Usage	Field Name	Data Type
Input on object	ccrzCartc	Master-Detail Relationship (ccrz_E_Cartc on page 25)
Input or output with API (with any data size)	cart	String

# Group Name

The shipping group name, used for organizing groups on the Checkout page.

Usage	Field Name	Data Type
Input on object	ccrzGroupNamec	Text (255)
Input or output with API (with any data size)	groupName	String

#### Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Note

Shipping notes for the group.

Usage	Field Name	Data Type
Input on object	ccrzNotec	Text Area (Long) (1,000)
Input or output with API (with any data size)	note	String

# Request Date

The buyer's requested delivery date for the shipping group.

Usage	Field Name	Data Type
Input on object	ccrzRequestDatec	Date
Input or output with API (with any data size)	requestDate	Date

# Ship Amount

The shipping cost calculated for the group, based on shipping rates and product quantities in the group. This value is passed to the corresponding ccrz\_E\_Cart\_\_c and ccrz\_E\_Order\_\_c records. For more information, see Specify Shipping Rates for a Product.

Usage	Field Name	Data Type
Input on object	ccrz_ShipAmount_c	Currency (16, 2)
Input or output with API (with any data size)	shipAmount	Decimal

# Ship Method

The shipping method for the group.

Usage	Field Name	Data Type
Input on object	ccrzShipMethodc	Text (50)
Input or output with API (with any data size)	shipMethod	String

# Ship To

The shipping address for the group.

Usage	Field Name	Data Type
Input on object	ccrzShipToc	Lookup Relationship (ccrz_E_ContactAddr_c)
Input or output with API (with any data size)	shipTo	ID

# ccrz\_\_E\_CartCoupon\_\_c

Represents the junction of a coupon and a shopping cart record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

**Class used with:** The API doesn't directly query records of this object.

Instead, the ccrz.ccApiCoupon return data includes the ECartCouponsS related list when at least one coupon has been applied to the cart.

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

# Cart

The cart where the coupon is applied.

Usage	Field Name	Data Type
Input on object	ccrzCartc	Master-Detail Relationship (ccrz_E_Cart_c on page 25)

Usage	Field Name	Data Type
Input or output with API (with any data size)	cart	ID

# CartCoupon ID

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	ccrzCartCouponIdc	Auto Number
Input or output with API (with any data size)	cartCouponId	String

# Coupon

The coupon that's applied to the cart.

Usage	Field Name	Data Type
Input on object	ccrzCouponc	Master-Detail Relationship (ccrz_E_Couponc on page 82)
Input or output with API (with any data size)	coupon	ID

# E\_CartCoupon Name

A unique name for this record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

# Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

```
SEE ALSO:

ccrz_E_Cart__c

ccrz_E_Coupon__c

Salesforce Help Offer Coupons for Discounts on Storefront Purchases
```

# ccrz\_\_E\_Category\_\_c

Represents a category record on the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiCategory

**Fetch sizing:** To specify which fields the ccrz.ccApiCategory.fetch method returns for each category record, request a specific data size for the ccrz.ccApiCart.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

# **Fields**

# Category ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCategoryIDc	Text (128)
Input or output with API (with <b>SZ_S</b> or larger)	categoryID	String

# Category Name

The name to show on the storefront for the category.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

# Child Category Count

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzChildCategoryCountc	Number (4, 0)
Input or output with API (with <b>SZ_L</b> or larger)	childCategoryCount	String

# Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# End Date

The last day when the category is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with <b>SZ_XL</b> )	endDate	Date

# Long Description

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_LongDescRT_c	Text Area (Rich) (5000)
Input or output with API (with <b>SZ_M</b> or larger)	longDesc	String

# Parent Category

The parent category for the current category.

Usage	Field Name	Data Type
Input on object	ccrzParentCategoryc	Lookup Relationship (ccrz_E_Category_c)
Input or output with API (with <b>SZ_L</b> or larger)	parentCategory	ID

#### Product Count

Formula that calculates the number of products assigned to the current category.

Usage	Field Name	Data Type
Input on object	ccrzProductCountc	Roll-Up Summary (COUNT ccrz_E_ProductCategory_c)
Input or output with API (with <b>SZ_L</b> or larger)	productCount	Integer

### SEO ID

A unique, URL-safe string (up to 255 characters) for the category's friendly URL path. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_seo\_product\_category.htm.



Tip: The SEO ID field doesn't support the following special characters:

!	*	1	(	)	@	&
;	:	+	=	\$	1	
/	?	%	#	[	]	

Usage	Field Name	Data Type
Input on object	ccrz_SEOId_c	Text (255)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_S</b> or larger)	SEOId	String

# Sequence

Order of the category under the parent category, relative to other categories assigned to the same parent category. Lower values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with <b>SZ_M</b> or larger)	sequence	Integer

# Short Description

The description for the category that displays on the Product List page. For usage, see <a href="https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_product\_list\_subcategory.htm">https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_product\_list\_subcategory.htm</a>.

Usage	Field Name	Data Type
Input on object	ccrzShortDescRTc	Text Area (Rich) (2000)
Input or output with API (with <b>SZ_M</b> or larger)	shortDesc	String

# Start Date

The first day when the category is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with <b>SZ_XL</b> )	startDate	Date

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Long Desc	ccrz_LongDesc_c	Text Area (Long) (1000)
Short Desc	ccrzShortDescc	Text (255)

# **Related Lists**

A record of the ccrz\_E\_Category\_c object can have multiple related lists that relate the category to other types of records, such as product assignments or category media. The ccrz.ccApiCategory.fetch method can return data from these related records, depending on the requested data size in the input map.

The reference for each related list indicates which data size the list is returned with by default. You can also use the ccrz.ccApi.SZ REL flag in your input map to request a particular list, regardless of requested data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'Category_Medias__r'}
}
```

#### categoryMediasS

Consideration	Value	
Default data size returned with	SZ_L or larger	
ccrz.ccApi.SZ_REL request value	Category_Mediasr	

#### productCategoriesS

List<Map<String, Object>> ofccrz E ProductCategory c.

Consideration	Value	
Default data size returned with	SZ_M or larger	
ccrz.ccApi.SZ_REL request value	Product_Categoriesr	

# SEE ALSO:

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce Salesforce Help Specify SEO Metadata for Products and Categories

# ccrz\_E\_Categoryl18N\_c

Represents an internationalized category record for a specific locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The API doesn't return fields on the ccrz\_E\_CategoryI18N\_\_c record directly. When the ccrz.ccApiCategory.fetch method's input map includes the ccrz.ccApiCategory.CATEGORYLOCALE key, the method:

- 1. References ccrz E CategoryI18N c records for the specified locale.
- 2. Returns ccrz E Category c records, translated with the localized data.

# **Fields**

#### Category

The category record to localize.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Master-Detail Relationship (ccrz_E_Category_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Category I18N Ext Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCategoryI18NIdc	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Category I18N Name

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	Provides the value for the sfdcName field when the API queries localized categ records.	

# Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Locale

The storefront locale that the category is localized for.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# LongDescRT

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_LongDescRT_c	Text Area (Rich) (5000)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# SEO ID

The localized unique, URL-safe string (up to 255 characters) for the category's friendly URL path. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_seo\_product\_category.htm.



Tip: The SEO ID field doesn't support the following special characters:

!	*	1	(	)	@	&
;	:	+	=	\$	ı	
/	?	%	#	[	]	

Usage	Field Name	Data Type
Input on object	ccrz_SEOId_c	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### ShortDescRT

The localized description for the category that displays on the Product List page. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_product\_list\_subcategory.htm.

Usage	Field Name	Data Type
Input on object	ccrzShortDescRTc	Text Area (Rich) (2000)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Long Desc	ccrz_LongDesc_c	Text Area (Long) (5000)
Short Desc	ccrzShortDescc	Text (2000)

SEE ALSO:

Salesforce Help Localize Categories for an Internationalized Storefront

# ccrz\_\_E\_CategoryMedia\_\_c

Represents an image for a category that appears on the Product List page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiCategory

**Fetch sizing:** The ccrz.ccApiCategory.fetch method returns the categoryMediasS related list when you request at least a large data size for the ccrz.ccApiCategory.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'Category_Medias__r'}
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

# **Fields**

#### AltMessage

The value of an image's alt attribute in the page HTML. For usage, see Guidelines for Category Images for B2B Commerce for Visualforce.

Usage	Field Name	Data Type
Input on object	ccrz_AltMessagec	Text (100)
Input or output with API (with any data size)	altMessage	String

# Category Media Ext Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCategoryMediaIdc	Text (128)
Input or output with API (with any data size)	categoryMediaId	String

# Category

The category that the image applies to.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Master-Detail Relationship (ccrzE_Categoryc)

Usage	Field Name	Data Type
Input or output with API (with any data size)	category	ID

# Category Media Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

# Category Media Source

Whether the source for the image is a static resource, content delivery network (CDN), or file attachment. For usage, see:

- Guidelines for Category Images for B2B Commerce for Visualforce
- Source Options for Storefront Media

Usage	Field Name	Data Type
Input on object	ccrzProductMediaSourcec	Picklist
Input or output with API (with any data size)	productMediaSource	String

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	enabled	Boolean

# End Date

The last day when the category media is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	endDate	Date

#### File Path

The path to the image file from the root of a static resource's ZIP file. For usage, see Add a Category Image from a Static Resource.

Usage	Field Name	Data Type
Input on object	ccrzFilePathc	Text (128)
Input or output with API (with any data size)	filePath	String

#### Locale

The storefront locale that the image is localized for. For usage, see Add a Category Image from a Static Resource.

Usage	Field Name	Data Type
Input on object	ccrz_Localec	Text (10)
Input or output with API (with any data size)	locale	String

# Media Type

Whether the media is a category image or category image thumbnail. For usage, see Guidelines for Category Images for B2B Commerce for Visualforce.

Usage	Field Name	Data Type
Input on object	ccrzMediaTypec	Picklist
Input or output with API (with any data size)	mediaType	String

# Sequence

The priority of the image for the category. Only one category image or category image thumbnail displays for each category. The Product List page shows the image with the lowest Sequence value.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	sequence	Integer

#### Start Date

The first day when the category media is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date

Usage	Field Name	Data Type
Input or output with API (with any data size)	startDate	Date

#### Static Resource Name

The name of the static resource that contains the image. For usage, see Add a Category Image from a Static Resource.

Usage	Field Name	Data Type
Input on object	ccrzStaticResourceNamec	Text (255)
Input or output with API (with any data size)	staticResourceName	String

#### URI

The fully qualified URL to the image file from a CDN. For usage, see Add a Category Image from a Content Delivery Network.

Usage	Field Name	Data Type
Input on object	ccrzURIc	Text (255)
Input or output with API (with any data size)	uri	String

# SEE ALSO:

Salesforce Help Guidelines for Category Images for B2B Commerce for Visualforce

# ccrz\_\_E\_CategorySpec\_\_c

Represents a spec value that's assigned to all products in a category.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: The API doesn't directly query records of this object.

The crrz.ccApiCategory.fetch method returns data for products that belong to the categories that the method queries. When you create a category spec, the returned product data includes the product spec value that the category spec record assigns.

# **Fields**

### Category

The category whose products the spec applies to.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Master-Detail Relationship (ccrz_E_Category_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Category Spec Ext Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCategorySpecIdc	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Category Spec Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Spec

The specification to define for all the products in the category, such as Material.

Usage	Field Name	Data Type
Input on object	ccrzSpecc	Master-Detail Relationship (ccrz_E_Specc)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### SpecValue

Value of the product's spec, such as Stainless Steel.



- The Spec Value field is case-insensitive. If the spec's filter type is Checkbox, the Feature Filtering widget considers any case variation of the same string to be the same spec value. For example, the values Commercial, commercial, and COMMERCIAL are all counted as the same value.
- If the spec's filter type is Slider:
  - Make sure that all spec values you create for that spec are numbers with consistent decimal places. For example, the range of values 1.5, 2.0, and 3 isn't valid—instead of 3, enter 3.0.
  - Avoid specifying negative numbers for any spec values, which can break the default slider functionality.

Usage	Field Name	Data Type
Input on object	ccrzSpecValuec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### SEE ALSO:

Salesforce Help Apply the Same Spec Values to All Products in a Category

# ccrz\_\_E\_CompositeProduct\_\_c

Represents composite and component product relationships for bundles, kits, dynamic kits, aggregated products, and assembly products.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiProduct

**Fetch sizing:** The ccrz.ccApiProduct.fetch method returns the compositeProductsS related list when you request at least a large data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

Each record returned in this list always includes the same fields, regardless of the requested data size.

# **Fields**

#### Component

Component of a composite product.

Usage	Field Name	Data Type
Input on object	ccrzComponentc	Lookup Relationship (ccrzE_Productc)
Input or output with API (with any data size)	component	ID
	componentR	Map <string, object="">that describes the component product.</string,>

#### Composite

The composite product.

Usage	Field Name	Data Type
Input on object	ccrzCompositec	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with any data size)	composite	ID

#### Composite Product Ext Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCompositeProductIdc	Text (128)

Usage	Field Name	Data Type
Input or output with API (with any data size)	compositeProductId	String

#### Composite Product Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

#### DescriptionRT

Optional text for internal reference. This field isn't used when displaying composite products on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzDescriptionRTc	Text Area (Rich) (4000)
Input or output with API (with any data size)	description	String

#### Parent

A composite product under which the current composite product is nested, such as when a bundle is included as a component of a dynamic kit.

Usage	Field Name	Data Type
Input on object	ccrzParentc	Lookup Relationship (ccrz_E_CompositeProduct_c)
Input or output with API (with any data size)	parent	ID

#### Product Group

Related product group referenced from a dynamic kit's product guide. This field is used only when a composite product is a dynamic kit.

Usage	Field Name	Data Type
Input on object	ccrzProductGroupc	Lookup Relationship (ccrz_E_RelatedProductGroupc)
Input or output with API (with any data size)	productGroup	ID

Usage	Field Name	Data Type
	1	Map <string, object="">that describes the product group.</string,>

#### Quantity

The quantity of a component product included in a kit or bundle.

Usage	Field Name	Data Type
Input on object	ccrzQuantityc	Number (18, 0)
Input or output with API (with any data size)	quantity	Integer

### Sequence

The order of a component product in a kit or bundle shown on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	sequence	Integer

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Category	ccrzCategoryc	Lookup Relationship (ccrz_E_Category_c)
Description	ccrzDescriptionc	Text Area (Long) (4000)
Extended Price	ccrzExtendedPricec	Currency (16, 2)

Field Label	Field Name	Data Type
Optional	ccrzOptionalc	Checkbox

#### SEE ALSO:

Salesforce Help Types of Products for B2B Commerce for Visualforce

Salesforce Help Create a Bundle

Salesforce Help Create a Kit

Salesforce Help Create a Dynamic Kit

Salesforce Help Create an Aggregated Product

Salesforce Help Create an Assembly Product

# ccrz\_\_E\_Configuration\_\_c

Represents a storefront or global configuration setting.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiConfig

**Fetch sizing:** The ccrz.ccApiConfig.fetch method returns the ccrz.ccApiConfig.CONFIGURATIONS key, which contains records of this object. The key for each configuration record returned is **moduleAPIname.configurationAPIname**, such as ct.enabled.

The API doesn't return values from this object's fields.

### **Fields**

#### CC Configuration Metadata

The metadata record for this specific configuration.

Usage	Field Name	Data Type
Input on object	ccrzConfigurationMetac	Lookup Relationship (ccrz_E_ConfigurationMeta_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Configuration ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzConfigurationIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Name

The configuration's name, in the format **storefront.page.module.configuration**.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Page Name

The page that the configuration applies to. This value is a page key defined in CC Admin global settings, such as hp for Home page and p1p for Product List page.

Usage	Field Name	Data Type
Input on object	ccrzPageNamec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Sequence Priority

Internal use only. Don't modify the value that the managed package assigns to this field.

Usage	Field Name	Data Type
Input on object	ccrzSequencePriorityc	Number (4, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Storefront

The storefront that the configuration applies to.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Text Value

The configuration's value.

Usage	Field Name	Data Type
Input on object	ccrzTextValuec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

SEE ALSO:

Salesforce Help Manage Configuration Settings

# ccrz\_\_E\_ConfigurationMeta\_\_c

Represents metadata for an available storefront or global configuration setting.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: The API doesn't directly query records of this object.

### **Fields**

#### API Name

A name for programmatically referencing the configuration setting. If a configuration module contains multiple configurations, each configuration must have a unique API name. However, the same API name can apply to configurations across multiple modules.

For example, the Enabled configuration exists in the Breadcrumb, Header, Promotion, and many other modules. Each module can contain only one configuration with the API name enabled, but a configuration with the API name enabled can exist in multiple modules.

Usage	Field Name	Data Type
Input on object	ccrzAPINamec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### CC Configuration Module

The module that the configuration belongs to, such as Header or Product List.

Usage	Field Name	Data Type
Input on object	ccrzConfigurationModulec	Lookup Relationship (ccrz_E_ConfigurationModule_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Configuration Meta ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzConfigurationMetaIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Description

Configuration description that's visible as a tooltip in CC Admin global and storefront configuration settings.

Usage	Field Name	Data Type
Input on object	ccrzDescriptionc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Externally Safe

Whether the configuration is safe to export to a system outside of the B2B Commerce managed package. For example, a configuration for showing the cart total price in the Header component is probably externally safe. But, a configuration that stores a credential for another system probably isn't externally safe.

Usage	Field Name	Data Type
Input on object	ccrzExternallySafec	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Name

The name of the configuration, such as Enabled or Display SKU.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

SEE ALSO:

Salesforce Help Manage Configuration Settings

# ccrz\_\_E\_ConfigurationModule\_\_c

Represents the definition of a module that contains global or storefront configuration settings.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

**Class used with:** The API doesn't directly query records of this object.

### **Fields**

#### API Name

A name for programmatically referencing the configuration module and its settings. For example, the Category Tree module's API name is ct.

Usage	Field Name	Data Type
Input on object	ccrzAPINamec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Configuration Module ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrz_ConfigurationModuleId_c	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Name

The name of the module, such as Category Tree or Promotion.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### SEE ALSO:

Salesforce Help Manage Configuration Settings

# ccrz\_\_E\_ContactAddr\_\_c

Represents address details associated with carts, orders, invoices, subscriptions, payments, and other storefront data. A contact address is associated with an account address book, which references a specific account and specifies whether the address is for shipping or billing.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **API Usage**

Class used with: ccrz.ccApiAddress

**Fetch sizing:** To specify which fields the ccrz.ccApiAddress.fetch method returns for each contact address record, request a specific data size for the ccrz.ccApiAddress.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

## **Fields**

#### Address Firstline

First line of the street address.

Usage	Field Name	Data Type
Input on object	ccrzAddressFirstlinec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	addressFirstline	String

#### Address Secondline

Second line of the street address.

Usage	Field Name	Data Type
Input on object	ccrzAddressSecondlinec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	addressSecondline	String

#### Address Thirdline

Third line of the street address.

Usage	Field Name	Data Type
Input on object	ccrzAddressThirdlinec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	addressThirdline	String

### AddrReadOnly

Whether a buyer can add, edit, or delete the address in the Manage Address Book section of the My Account page. For usage, see Allow a Buyer to Manage Shipping and Billing Addresses on the My Account Page.

Usage	Field Name	Data Type
Input on object	ccrzAddrReadOnlyc	Checkbox
Input or output with API (with <b>SZ_M</b> or larger)	addrReadOnly	Boolean

#### City

City for the address.

Usage	Field Name	Data Type
Input on object	ccrzCityc	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	city	String

### Company Name

Name of a company associated with this address.

Usage	Field Name	Data Type
Input on object	ccrzCompanyNamec	Text (100)
Input or output with API (with <b>SZ_M</b> or larger)	companyName	String

#### Contact Addr ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzContactAddrIdc	Text (128)
Input or output with API (with <b>SZ_M</b> or larger)	contactAddrId	String

#### Contact Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	ID

### Country

Name of the country or territory for the address.

Usage	Field Name	Data Type
Input on object	ccrzCountryc	Text (50)
Input or output with API (with <b>SZ_M</b> or larger)	country	String

### Country ISO Code

ISO 3166-1 code for the country or territory.

Usage	Field Name	Data Type
Input on object	ccrzCountryISOCodec	Text (10)
Input or output with API (with <b>SZ_M</b> or larger)	countryISOCode	String

#### Daytime Phone

Primary phone number for the address.

Usage	Field Name	Data Type
Input on object	ccrzDaytimePhonec	Phone
Input or output with API (with <b>SZ_M</b> or larger)	daytimePhone	String

#### Email

Email associated with the address.

Usage	Field Name	Data Type
Input on object	ccrz_Email_c	Email
Input or output with API (with <b>SZ_M</b> or larger)	email	String

#### First Name

First name of the person associated with the address.

Usage	Field Name	Data Type
Input on object	ccrzFirstNamec	Text (100)
Input or output with API (with <b>SZ_M</b> or larger)	firstName	String

#### Home Phone

Alternative phone number for the address.

Usage	Field Name	Data Type
Input on object	ccrzHomePhonec	Phone
Input or output with API (with <b>SZ_M</b> or larger)	homePhone	String

#### Last Name

Last name of the person associated with the address.

Usage	Field Name	Data Type
Input on object	ccrzLastNamec	Text (100)
Input or output with API (with <b>SZ_M</b> or larger)	lastName	String

### Mail Stop

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzMailStopc	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	mailStop	String

#### Middle Name

Middle name of the person associated with the address.

Usage	Field Name	Data Type
Input on object	ccrzMiddleNamec	Text (100)
Input or output with API (with <b>SZ_M</b> or larger)	middleName	String

#### Partner ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPartner_Idc	Text (100)
Input or output with API (with <b>SZ_M</b> or larger)	partnerId	String

#### Postal Code

Postal code for the address.

Usage	Field Name	Data Type
Input on object	ccrzPostalCodec	Text (10)
Input or output with API (with <b>SZ_M</b> or larger)	postalCode	String

### Shipping Comments

Optional shipping comments entered during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShippingCommentsc	Text Area (Long) (32000)
Input or output with API (with <b>SZ_M</b> or larger)	shippingComments	String

#### State

Name of the state for an address that's located *outside* of the United States or Canada.

Usage	Field Name	Data Type
Input on object	ccrzStatec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	state	String

#### State ISO Code

ISO 3166-2 code for a US state or Canadian province.

Usage	Field Name	Data Type
Input on object	ccrzStateISOCodec	Text (10)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_M</b> or larger)	stateISOCode	String

#### SEE ALSO:

ccrz\_\_E\_AccountAddressBook\_\_c

Salesforce Help: Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz\_\_E\_Coupon\_\_c

Represents a coupon record for the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiCoupon

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

### **Fields**

#### Cart Total Amount

The total price of items in the shopping cart that must exist before the coupon is valid. For usage, see Offer a Discount on Cart Total Price.

Usage	Field Name	Data Type
Input on object	ccrzCartTotalAmountc	Currency (16, 2)
Input or output with API (with any data size)	cartTotalAmount	Decimal

### Coupon Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

#### Coupon Code

The code that you want a buyer to enter on the Shopping Cart page. For usage, see Guidelines When Creating Coupons for Your Storefront

Usage	Field Name	Data Type
Input on object	ccrzCouponCodec	Text (20)
Input or output with API (with any data size)	couponCode	String

#### Coupon ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCouponIdc	Text (128)
Input or output with API (with any data size)	couponId	String

### Coupon Name

The name that appears on the Shopping Cart page after a buyer applies the coupon. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzCouponNamec	Text (128)
Input or output with API (with any data size)	couponName	String

#### Coupon Notes

The managed package only uses this field internally.

Usage	Field Name	Data Type
Input on object	ccrzCoupon_Notesc	Text (255)

Usage	Field Name	Data Type
Input or output with API (with any data size)	couponNotes	String

#### Currency ISO Code

The ISO 4217 currency code for the coupon, such as *USD* or *JPY*. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyISOCodec	Text (10)
Input or output with API (with any data size)	currencyISOCode	String

#### Discount Amount

The coupon's fixed or percentage discount to apply. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzDiscountAmountc	Currency (16, 2)
Input or output with API (with any data size)	discountAmount	Decimal

### Discount Type

Whether the coupon's discount a fixed amount, percentage amount, or an override price. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzDiscountTypec	Text (30)
Input or output with API (with any data size)	discountType	String

#### Enabled

Whether the coupon is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	enabled	Boolean

#### End Date

The last day when the coupon is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrz_EndDatec	Date
Input or output with API (with any data size)	endDate	Date

#### Max Use

The limit for the number of times that the coupon can be used considering all storefront users. For example, if you enter *300*, the coupon can be applied up to 300 times across all carts and all users on your storefront. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzMaxUsec	Number (18, 0)
Input or output with API (with any data size)	maxUse	Integer

#### Minimum Quantity

A specific number of products that must exist in the cart before the coupon is valid. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzMinQtyc	Number (18, 0)
Input or output with API (with any data size)	minQty	Integer

#### Rule

The rule record associated with the coupon.

Usage	Field Name	Data Type
Input on object	ccrzRulec	Lookup Relationship (ccrz_E_Rulec)
Input or output with API (with any data size)	rule	ID

### Rule Name

Formula that generates an escaped HTML string for the coupon code.

Usage	Field Name	Data Type
Input on object	ccrzRuleNamec	Formula (Text)
Input or output with API (with any data size)	ruleName	String

#### Rule Type

Whether the coupon's discount applies to a cart total amount, shipping amount, or certain products or products with certain spec values. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzRuleTypec	Picklist
Input or output with API (with any data size)	ruleType	String

#### Source Minimum Quantity

The number of source products that must exist in the cart before the target product discount is valid. For usage, see:

• Offer a Buy-One, Get-One Discount on Products

Usage	Field Name	Data Type
Input on object	ccrzSourceMinQtyc	Currency (16, 2)
Input or output with API (with any data size)	sourceMinQty	Decimal

#### Source Product

The product that must exist in the cart before the target product discount is valid. For usage, see:

• Offer a Buy-One, Get-One Discount on Products

Usage	Field Name	Data Type
Input on object	ccrzSourceProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with any data size)	sourceProduct	ID

#### Source Relation

Whether the coupon dependency is a product or spec. For usage, see:

• Offer a Buy-One, Get-One Discount on Products

Usage	Field Name	Data Type
Input on object	ccrzSourceRelationc	Picklist
Input or output with API (with any data size)	sourceRelation	String

### Source Spec

The required spec definition. For usage, see:

• Offer a Discount on a Product When Purchasing Any Product with a Specific Spec Value

Usage	Field Name	Data Type
Input on object	ccrzSourceSpecc	Lookup Relationship (ccrz_E_Spec_c)
Input or output with API (with any data size)	sourceSpec	ID

#### Source Spec Minimum Quantity

The number of products with the required spec value that must exist in the cart before the discount is valid. For usage, see:

• Offer a Discount on a Product When Purchasing Any Product with a Specific Spec Value

Usage	Field Name	Data Type
Input on object	ccrzSourceSpecMiniQtyc	Number (18, 0)
Input or output with API (with any data size)	sourceSpecMiniQty	Integer

### Source Spec Value

The required spec value. For usage, see:

• Offer a Discount on a Product When Purchasing Any Product with a Specific Spec Value

Usage	Field Name	Data Type
Input on object	ccrzSourceSpecValuec	Text (100)
Input or output with API (with any data size)	sourceSpecValue	String

#### Start Date

The first day when the coupon is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date

Usage	Field Name	Data Type
Input or output with API (with any data size)	startDate	Date

#### Storefront

The storefront where the coupon is available.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontc	Picklist (Multi-select)
Input or output with API (with any data size)	storefront	String

#### Target Product

The product that you want the discount to apply to. For usage, see:

- Offer a Buy-One, Get-One Discount on Products
- Offer a Discount on a Product When Purchasing Any Product with a Specific Spec Value

Usage	Field Name	Data Type
Input on object	ccrzTargetProductc	Lookup Relationship (ccrzE_Productc)
Input or output with API (with any data size)	targetProduct	ID

#### Target Quantity

The number products that can receive the discount during checkout. For usage, see:

- Offer a Buy-One, Get-One Discount on Products
- Offer a Discount on a Product When Purchasing Any Product with a Specific Spec Value

Usage	Field Name	Data Type
Input on object	ccrzTargetQtyc	Number (18, 0)
Input or output with API (with any data size)	targetQty	Integer

#### Target Relation

Whether the object of the discount is a product or product with a particular spec value.

Note: Currently, we recommend that you only select Product for this field.

For usage, see:

• Offer a Buy-One, Get-One Discount on Products

### • Offer a Discount on a Product When Purchasing Any Product with a Specific Spec Value

Usage	Field Name	Data Type
Input on object	ccrzTargetRelationc	Picklist
Input or output with API (with any data size)	targetRelation	String

### Target Spec

Currently not recommended.

Usage	Field Name	Data Type
Input on object	ccrzTargetSpecc	Lookup Relationship (ccrzE_Specc)
Input or output with API (with any data size)	targetSpec	ID

### Target Spec Quantity

Currently not recommended.

Usage	Field Name	Data Type
Input on object	ccrzTargetSpecQtyc	Number (18, 0)
Input or output with API (with any data size)	targetSpecQty	Integer

#### Target Spec Value

Currently not recommended.

Usage	Field Name	Data Type
Input on object	ccrzTargetSpecValuec	Text (100)
Input or output with API (with any data size)	targetSpecValue	String

#### Total Used

The number of times the coupon has been applied. This value is updated automatically. For usage, see Guidelines When Creating Coupons for Your Storefront.

Usage	Field Name	Data Type
Input on object	ccrzTotalUsedc	Number (18, 0)

Usage	Field Name	Data Type
Input or output with API (with any data size)	totalUsed	Integer

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Coupon Type	ccrzCouponTypec	Picklist

### **Related Lists**

A coupon record can include the following related list that describes the coupon's relationship to shopping carts where the coupon is applied. Although this related data isn't defined on the CC Coupon object, a ccrz.ccApiCoupon.fetch call can return related object records. This related list is nested under the ccrz.ccApiProduct.COUPONLIST return key.

#### **ECartCouponsS**

List<Map<String, Object>> of ccrz\_E\_CartCoupon\_\_c.

Consideration	Value
Default data size returned with	Any
ccrz.ccApi.SZ_REL request value	E_CartCouponsr

#### SEE ALSO:

```
ccrz__E_CartCoupon__c
ccrz__E_Product__c
ccrz__E_ProductSpec__c
ccrz__E_Spec__c
```

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

# ccrz\_\_E\_FeaturedProduct\_\_c

Represents the details for a product shown in the Featured Products or Spotlight Products widget on your storefront's Home page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiCategory

**Fetch sizing:** The ccrz.ccApiCategory.fetch method returns featured product data when the input data specifies ccrz.ccApiCategory.FEATURED => 'true'.

Each record returned in this list always includes the same fields, regardless of the requested data size.

### **Fields**

#### DescriptionRT

Text to show in the Featured Products or Spotlight Products widget. If specified, this text overrides the product's existing short description. To show the product's existing short description, leave this field blank.

Usage	Field Name	Data Type
Input on object	ccrzDescriptionRTc	Text Area (Rich) (32768)
Input or output with API (with any data size)	descriptionRT	String

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	enabled	Boolean

#### Featured Product ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzFeaturedProductIdc	Text (255)
Input or output with API (with any data size)	featuredProductId	String

#### Featured Product Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

#### Product Item

The product that you want to showcase.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Productc)
Input or output with API (with any data size)	product	ID

#### Sequence

The order of the product within the Featured Products or Spotlight Products widget. Lower Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	sequence	Integer

### Storefront

Storefront where the featured product appears.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Picklist (Multi-select)
Input or output with API (with any data size)	storefront	String

#### Type

Whether the product is included in the Featured Products or Spotlight Products widget.

Usage	Field Name	Data Type
Input on object	ccrzTypec	Picklist

Usage	Field Name	Data Type
Input or output with API (with any data size)	type	String

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Promotion Description	ccrzDescriptionc	Text Area (255)

SEE ALSO:

Salesforce Help Show Spotlight Products and Featured Products

# ccrz\_\_E\_FeaturedProductl18N\_\_c

Represents a featured product translated for a locale that your storefront supports.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

The API doesn't return fields on the ccrz\_E\_FeaturedProductI18N\_c record directly. When the ccrz.ccApiCategory.fetch method's input map includes the ccrz.ccApiCategory.CATEGORYLOCALE key and sets ccrz.ccApiCategory.FEATURED => 'true', the method:

- 1. References ccrz\_E\_FeaturedProductI18N\_c records for the specified locale.
- 2. Returns ccrz E FeaturedProduct c records, translated with the localized data.

## **Fields**

#### CC Featured Product

The featured product to localize.

Usage	Field Name	Data Type
Input on object	ccrzFeaturedProductc	Master-Detail Relationship (ccrz_E_FeaturedProduct_c)
Input or output with API (with any data size)	featuredProduct	ID

### DescriptionRT

The localized description for the featured product, which displays on the storefront and overrides the product's localized short description.

Usage	Field Name	Data Type
Input on object	ccrzDescriptionRTc	Text Area (Rich) (32768)
Input or output with API (with any data size)	descriptionRT	String

#### FeaturedProductI18N Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

#### Locale

The storefront locale that the featured product is localized for.

Usage	Field Name	Data Type
Input on object	ccrz_Localec	Text (25)
Input or output with API (with any data size)	locale	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Description	ccrzDescriptionc	Text Area (Long) (32768)

SEE ALSO:

Salesforce Help Localize Spotlight Products and Featured Products for a Translated Storefront

# ccrz\_E\_Invoice\_\_c

Represents an invoice that B2B Commerce for Visualforce creates for a user after the user places an order.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiInvoice

**Fetch sizing:** To specify which fields the ccrz.ccApiInvoice.fetch method returns for each invoice record, request a specific data size for the ccrz.ccApiInvoice.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

### **Fields**

#### Bill Address

The contact address record used for billing.

Usage	Field Name	Data Type
Input on object	ccrzBillAddressc	Lookup Relationship (ccrz_E_ContactAddrc)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_M</b> or larger)	billAddress	ID

#### Bill To

The account used for billing. The Bill To and Sold To account are typically the same.

Usage	Field Name	Data Type
Input on object	ccrzBillToc	Lookup Relationship (Account)
Input or output with API (with <b>SZ_L</b> or	billTo	ID
larger)	billToR	Map <string, object="">that includes the account name and account group.</string,>

#### CC Invoice Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

### CC Order

The order that the invoice was created for.

Usage	Field Name	Data Type
Input on object	ccrzCCOrderc	Lookup Relationship (ccrz_E_Orderc)
Input or output with API (with <b>SZ_M</b> or larger)	CCOrder	ID

#### Comments

Optional free text for the invoice.

Usage	Field Name	Data Type
Input on object	ccrzCommentsc	Text Area (Long) (32768)
Input or output with API (with <b>SZ_M</b> or larger)	comments	String

#### Contact

The contact record for populating the invoice record.

Usage	Field Name	Data Type
Input on object	ccrzContactc	Lookup Relationship (Contact)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Currency Code

Currency of the order.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyCodec	Text (10)
Input or output with API (with <b>SZ_M</b> or larger)	currencyCode	String

#### Date Due

The date when the invoice balance is due.

Usage	Field Name	Data Type
Input on object	ccrzDateDuec	Date
Input or output with API (with <b>SZ_M</b> or larger)	dateDue	Date

### Date Issued

The date the invoice was created.

Usage	Field Name	Data Type
Input on object	ccrzDateIssuedc	Date
Input or output with API (with <b>SZ_M</b> or larger)	dateIssued	Date

#### Invoice ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzInvoiceIdc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	invoiceId	String

### Original Amount

The original total amount billed on the invoice. This value can be positive or negative. Don't change this value after creating in the invoice.

Usage	Field Name	Data Type
Input on object	ccrzOriginalAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_M</b> or larger)	originalAmount	Decimal

#### Paid Amount

The difference between the original amount and the remaining amount.

Usage	Field Name	Data Type
Input on object	ccrzPaidAmountc	Formula (Currency)
Input or output with API (with <b>SZ_M</b> or larger)	paidAmount	Decimal

#### Parent Invoice

Reference to summary parent invoice.

Usage	Field Name	Data Type
Input on object	ccrzParentInvoicec	Lookup Relationship (ccrzE_Invoicec)
Input or output with API (with <b>SZ_M</b> or larger)	parentInvoice	ID

### Remaining Amount

The amount that hasn't been paid on the invoice.

Usage	Field Name	Data Type
Input on object	ccrzRemainingAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_M</b> or larger)	remainingAmount	Decimal

#### Sold Address

The contact address for the account for that is responsible for the invoice.

Usage	Field Name	Data Type
Input on object	ccrzSoldAddressc	Lookup Relationship (ccrz_E_ContactAddr_c)
Input or output with API (with <b>SZ_M</b> or larger)	soldAddress	ID

#### Sold To

The account that is responsible for the invoice. The Bill To and Sold To account are typically the same.

Usage	Field Name	Data Type
Input on object	ccrzSoldToc	Lookup Relationship (Account)
Input or output with API (with <b>SZ_L</b> or	soldTo	ID
larger)	soldToR	Map <string, object="">thatincludes the account name and account group.</string,>

#### Status

Whether the invoice remains open or is closed.

Usage	Field Name	Data Type
Input on object	ccrzStatusc	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	status	String

#### Storefront

The storefront where the order was placed.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	storefront	String

#### Terms

Instructions or requirements for the buyer to pay the balance on the invoice.

Usage	Field Name	Data Type
Input on object	ccrzTermsc	Text (255)
Input or output with API (with SZ_XL)	terms	String

#### Type

Whether the invoice is a credit or debit.

Usage	Field Name	Data Type
Input on object	ccrzTypec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	type	String

#### User

The user record for populating the invoice record.

Usage	Field Name	Data Type
Input on object	ccrzUserc	Lookup Relationship (User)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Related Lists

A record of the ccrz\_E\_Invoice\_c object can have multiple related lists that relate the invoice to other types of records, such as invoice items and child invoices. The ccrz.ccApiInvoice.fetch method can return data from these related records, depending on the requested data size in the input map.

The reference for each related list indicates which data size the list is returned with by default. You can also use the ccrz.ccApi.SZ REL flag in your input map to request a particular list, regardless of requested data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'InvoiceItems_r'}
}
```

#### childInvoiceS

List<Map<String, Object>> of ccrz\_E\_Invoice\_c records that are children of the current ccrz E Invoice c.

Consideration	Value
Default data size returned with	SZ_M or larger
ccrz.ccApi.SZ_REL request value	ChildInvoicesr

#### invoiceItemS

List<Map<String, Object>> of ccrz\_E\_InvoiceItem\_\_c.

Consideration	Value
Default data size returned with	SZ_M or larger
ccrz.ccApi.SZ_REL request value	InvoiceItemsr

SEE ALSO:

Salesforce Help Generate an Invoice for a Buyer's Order

## ccrz\_\_E\_InvoiceItem\_\_c

Represents a line item referenced from an invoice, such as a product or a fee.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiInvoice

**Fetch sizing:** The ccrz.ccApiInvoice.fetch method returns the invoiceItemsS related list when you request at least a medium data size for the ccrz.ccApiCategory.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'InvoiceItems__r'}
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

## **Fields**

### CC Invoice Item Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

### CC Order

The order that the invoice was created for.

Usage	Field Name	Data Type
Input on object	ccrzCCOrderc	Lookup Relationship (ccrzE_Orderc)
Input or output with API (with any data	CCOrder	ID
size)	CCOrderR	Map <string, object="">that describes the order.</string,>

#### CC Order Item

Order item that the invoice item corresponds to.

Usage	Field Name	Data Type
Input on object	ccrzCCOrderItemc	Lookup Relationship (E_OrderItemc)
Input or output with API (with any data	CCOrderItem	ID
size)	CCOrderItemR	Map <string, object="">that describes the order item.</string,>

#### Comments

Optional free text for the invoice item.

Usage	Field Name	Data Type
Input on object	ccrzCommentsc	Text Area (Long) (32768)
Input or output with API (with any data size)	comments	String

#### Invoice

The invoice that the items belong to.

Usage	Field Name	Data Type
Input on object	ccrzInvoicec	Master-Detail Relationship (ccrz_E_Invoicec)
Input or output with API (with any data	invoice	ID
size)	invoiceR	Map <string,object>thatdescribes the invoice.</string,object>

#### Invoice Item ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzInvoiceItemIdc	Text (255)
Input or output with API (with any data size)	invoiceItemId	String

#### Original Amount

The original amount of the item billed on the invoice. This value can be positive or negative.



Note: Don't change this value after creating the invoice.

Usage	Field Name	Data Type
Input on object	ccrzOriginalAmountc	Currency (16, 2)
Input or output with API ((with any data size)	originalAmount	Decimal

#### Sequence

The order of the item among other items for the invoice. Lower Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (18, 0)
Input or output with API (with any data size)	sequence	Integer

#### Status

Whether the invoice item remains open or is closed. By default, the status of invoice items changes to Closed when the invoice's balance is paid in full.

Usage	Field Name	Data Type
Input on object	ccrzStatusc	Text (255)
Input or output with API (with any data size)	status	String

#### Type

Type of item, such as detail, comment, or payment.

Usage	Field Name	Data Type
Input on object	ccrzTypec	Text (255)
Input or output with API (with any data size)	type	String

SEE ALSO:

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz\_\_E\_Menu\_\_c

Represents a top-level entry in the storefront's navigation bar. Refresh the cached menu data whenever you modify menu records so that the storefront reflects the most recent menu data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiMenu

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

# Category

A category that the menu links to when Link Type is Category.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Lookup Relationship (ccrz_E_Category_c)
Input or output with API (with any data size)	category	ID

## CC Menu Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfid	ID

## DisplayName

Text that you want to appear for the menu in the navigation bar.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text (255)
Input or output with API (with any data size)	displayName	String

## Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

### End Date

The last day that the menu is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Link Type

The destination for the menu's link. For valid values and use cases, see https://help.salesforce.com/articleView?id=b2b\_commerce\_menu.htm.

Usage	Field Name	Data Type
Input on object	ccrzLinkTypec	Picklist
Input or output with API (with any data size)	mType	String

#### MenuId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzMenuIdc	Text (128)
Input or output with API (with any data size)	menuId	String

# New Window

Whether a new window or tab opens in the buyer's browser when they click the menu. This field is evaluated only when Link Type is URL.

Usage	Field Name	Data Type
Input on object	ccrzNewWindowc	Checkbox
Input or output with API (with any data size)	openInNewWindow	Boolean

## Product

A product that the menu links to when Link Type is Product.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with any data size)	product	ID

Usage	Field Name	Data Type
	productR	Map <string, object="">, which specifies other product information, including SKU and ID.</string,>

#### Sequence

Order of the menu within the navigation bar, relative to other menus assigned to the same storefront. Lower values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (5, 0)
Input or output with API (with any data size)	sequence	Integer

## Show in My Account Menu

Whether the menu is used for linking to sections of the My Account page in the header, including the B2B Commerce Header component in an Experience Builder site. For usage, see

 $https://help.sales force.com/article View?id = b2b\_commerce\_menu\_my\_account.htm.$ 



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrz_ShowInMyAccountMenu_c	Checkbox
Input or output with API (with any data size)	showInMyAccountMenu	Boolean

#### Start Date

The first day that the menu is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Store ID

The name of the storefront where the menu appears.

Usage	Field Name	Data Type
Input on object	ccrzStoreIDc	Text (128)

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### URL

The URL that the menu links to when Link Type is URL.

Usage	Field Name	Data Type
Input on object	ccrzURLc	Text Area (Long) (32768)
Input or output with API (with any data size)	linkURL	ID

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Location Type	ccrzLocationTypec	Picklist
Page Location	ccrzPageLocationc	Picklist
New Window Property	ccrzNewWindowPropertyc	Text Area (255)

SEE ALSO:

Salesforce Help Refresh the Menu Cache

# ccrz\_\_E\_Menul18N\_\_c

Represents an internationalized menu record for a specific locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The API doesn't return fields on the ccrz\_E\_MenuI18N\_c record directly. When the ccrz.ccApiMenu.fetch method's input map includes the ccrz.ccApiMenu.LOCALE key, the method:

- 1. References ccrz\_E\_MenuI18N\_c records for the specified locale.
- 2. Returns ccrz E Menu c records, translated with the localized data.

# **Fields**

#### CC Menu

The menu record to localize.

Usage	Field Name	Data Type
Input on object	ccrzMenuc	Master-Detail Relationship (ccrz_E_Menu_c)
Input or output with API (with any data size)	Not applicable	

## Display Name

The localized text for the menu entry in the navigation bar.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text (255)
Input or output with API (with any data size)	Provides the value for the displayName records.	e field when the API queries localized menu

#### Language

Code for the locale selected from the Locale picklist on a CC Menu I18N record.

Usage	Field Name	Data Type
Input on object	ccrzLanguagec	Text (25)
Input or output with API (with any data size)	Not applicable	

### Locale

An available locale to show in the Locale picklist on a CC Menu I18N record. This field doesn't store any value on the actual record—the Language field specifies the selected value.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)

Usage	Field Name	Data Type
Input or output with API (with any data size)	Not applicable	

#### Menu I18N AutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	Not applicable	

#### Menu I18N Ext Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrz_MenuI18NId_c	Text (128)
Input or output with API (with any data size)	Not applicable	

SEE ALSO:

Salesforce Help Localize Menus for an Internationalized Storefront

# ccrz\_\_E\_MenuItem\_\_c

Represents a nested menu entry in a menu in the storefront's navigation bar. Refresh the cached menu data whenever you modify menu item records so that the storefront reflects the most recent menu data.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiMenu

The ccrz.ccApiMenu.fetch method returns ccrz\_E\_MenuItem\_c record data in the children field of the ccrz.ccApiMenu.MENULIST return data key.

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

## Category

A category that the menu item links to when Link Type is Category.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Lookup Relationship (ccrzE_Categoryc)
Input or output with API (with any data size)	category	ID

#### CC Menu Item Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfid	ID

# DisplayName

Text that you want to appear for the menu item in the menu.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text (255)
Input or output with API (with any data size)	displayName	String

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### End Date

The last day that the menu item is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Link Type

The destination for the menu item's link. For valid values and use cases, see Provide Intuitive Storefront Navigation with Menus.

Usage	Field Name	Data Type
Input on object	ccrzLinkTypec	Picklist
Input or output with API (with any data size)	mType	String

#### Menu

The menu that the menu item is nested under. Use this field if the menu item represents the second level of a menu: a parent menu and a menu item nested within the menu.

Usage	Field Name	Data Type
Input on object	ccrzMenuc	Lookup Relationship (ccrz_E_Menu_c)
Input or output with API (with any data size)	menu	ID

# Menu Item Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzMenuItemIdc	Text (128)
Input or output with API (with any data size)	menuId	String

#### New Window

Whether a new window or tab opens in the buyer's browser when they click the menu item. This field is evaluated only when Link Type is URL.

Usage	Field Name	Data Type
Input on object	ccrzNewWindowc	Checkbox
Input or output with API (with any data size)	openInNewWindow	Boolean

#### Parent Menu Item

The menu item that the current menu item is nested under. Use this field if the menu item represents the third level of a menu: a parent menu and two levels of menu items.



## Note:

- When this field has a value, leave the Menu field blank.
- The managed package doesn't limit how many levels of menu items you create in your org's data. However, by default, the storefront can show at most three levels of a menu: a parent menu and two levels of nested menu items. This limit is based on both of the following default resources included in the managed package:
  - The default Bootstrap library, which allows only two levels per menu
  - A CSS file, shimbs3.css, which extends the Bootstrap limit to show three levels per menu

If your org's data specifies more levels of nested menus, those further levels don't display by default. To show more than three levels, you can extend the default shimbs3.css and extend the ccrz.cc\_hk\_UserInterface extension point class in the API to reference your subscriber code.

Usage	Field Name	Data Type
Input on object	ccrzParentMenuItemc	Lookup Relationship (ccrzE_MenuItemc)
Input or output with API (with any data size)	parentMenuItem	ID

#### Product

A product that the menu item links to when Link Type is Product.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with any data	product	ID
size)	productR	Map <string, object="">, which specifies other product information, including SKU and ID.</string,>

## Sequence

Order of the menu item within the menu, relative to other menu items with the same parent menu. Lower values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (5, 0)
Input or output with API (with any data size)	sequence	Integer

### Start Date

The first day that the menu item is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### URL

The URL that the menu links to when Link Type is URL.

Usage	Field Name	Data Type
Input on object	ccrzURLc	Text Area (Long) (32768)
Input or output with API (with any data size)	linkURL	ID

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
New Window Property	ccrzNewWindowPropertyc	Text Area (255)

## SEE ALSO:

Salesforce Help Refresh the Menu Cache

# ccrz\_\_E\_MenuItemI18N\_\_c

Represents an internationalized menu item record for a specific locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The API doesn't return fields on the ccrz\_E\_MenuItemI18N\_\_c record directly. When the ccrz.ccApiMenu.fetch method's input map includes the ccrz.ccApiMenu.LOCALE key, the method:

- 1. References ccrz E MenuItemI18N c records for the specified locale.
- 2. Returns ccrz\_E\_MenuItem\_\_c records in the children field of the ccrz.ccApiMenu.MENULIST return data key. The menu items are translated with the localized data.

# **Fields**

# Display Name

The localized text for the menu item.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text (255)
Input or output with API (with any data size)	Provides the value for the displayName records.	e field when the API queries localized menu

### Language

Code for the locale selected from the Locale picklist on a CC Menu Item I18N record.

Usage	Field Name	Data Type
Input on object	ccrzLanguagec	Text (25)
Input or output with API (with any data size)	Not applicable	

#### Locale

An available locale to show in the Locale picklist on a CC Menu I18N record. This field doesn't store any value on the actual record—the Language field specifies the selected value.

Usage	Field Name	Data Type
Input on object	ccrz_Localec	Text (25)
Input or output with API (with any data size)	Not applicable	

## Menu Item

The menu item record to localize.

Usage	Field Name	Data Type
Input on object	ccrzMenuItemc	Master-Detail Relationship (ccrz_E_MenuItem_c)
Input or output with API (with any data size)	Not applicable	

#### Menu Item I18N AutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	Not applicable	

## Menu Item I18N Ext Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzMenuItemI18NIdc	Text (128)
Input or output with API (with any data size)	Not applicable	

# SEE ALSO:

Salesforce Help Localize Menus for an Internationalized Storefront

# ccrz\_\_E\_Order\_\_c

Represents a buyer's completed order, based on a shopping cart that the buyer checked out with.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiOrder

**Fetch sizing:** To specify which fields the ccrz.ccApiOrder.fetch method returns for each order record, request a specific data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

# **Fields**

#### Account

The account associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Lookup Relationship (Account)
Input or output with API (with <b>SZ_L</b> or larger)	account	ID

#### Adjustment Amount

Amount to adjust the order price by after the order is placed. This amount is specified on the cart, and passed to the corresponding ccrz\_\_E\_Order\_\_c record. You can use your own back-end processing to apply this adjustment without changing the values of other fields.

Usage	Field Name	Data Type
Input on object	ccrzAdjustmentAmountc	Currency (16, 2)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_L</b> or larger)	adjustmentAmount	Decimal

#### Adjustment Reason

Text that explains or justifies an adjustment amount. This text is specified on the cart, and passed to the corresponding ccrz E Order c record.

Usage	Field Name	Data Type
Input on object	ccrzAdjustmentReasonc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	adjustmentReason	String

#### Bill To

The billing address associated with the order. This record is a unique copy of the billing address specified during checkout.

Usage	Field Name	Data Type
Input on object	ccrzBillToc	Lookup Relationship (ccrz_E_ContactAddr_c)
Input or output with API (with <b>SZ_XL</b> )	billTo	ID

## Cart Restored

Whether the cart that corresponds to an order that failed to place asynchronously has been reset to Open and made active. You can restore an order only one time. For more information, see <a href="mailto:ccrz.ccLogicOrderRestore">ccrz.ccLogicOrderRestore</a>.



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrzIsCartRestoredc	Checkbox
Input or output with API (with <b>SZ_M</b> or larger)	isCartRestored	Boolean

# CCEmailAddress

Whitespace-separated list of email addresses for the CC line of the order confirmation email. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_checkout\_cc\_email.htm.



Tip: We recommend that you populate this field only for orders that contain a low volume of cart items.

Usage	Field Name	Data Type
Input on object	ccrzCCEmailAddressc	Text Area (Long) (32768)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_XL</b> )	CCEmailAddress	String

# ${\tt CCSubscription}$

A subscription associated with the order.

Usage	Field Name	Data Type
Input on object	ccrzCCSubscriptionc	Lookup Relationship (ccrz_E_Subscription_c)
Input or output with API (with <b>SZ_M</b> or larger)	CCSubscription	ID

## Contact

The contact associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzContactc	Lookup Relationship (Contact)
Input or output with API (with <b>SZ_M</b> or larger)	contact	ID

## Currency ISO Code

The ISO 4217 currency code for the order, such as USD or JPY.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyISOCodec	Text (10)
Input or output with API (with <b>SZ_L</b> or larger)	currencyISOCode	String

## Effective Account ID

The effective account associated with the order. For usage, see Manage Carts for Effective Accounts.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveAccountIDc	Text (20)
Input or output with API (with <b>SZ_S</b> or larger)	effectiveAccountID	String

## Email

Buyer's email address.

Usage	Field Name	Data Type
Input on object	ccrzBuyerEmailc	Email
Input or output with API (with <b>SZ_XL</b> )	buyerEmail	String

# Encrypted ID

Semi-random UUID to refer to the order in page URLs.



**Note:** In an encrypted ID, avoid XML characters—such as <, >, or & characters—which are escaped by the default Visualforce remoting request for fetching order history.

Usage	Field Name	Data Type
Input on object	ccrzEncryptedIdc	Text (250)
Input or output with API (with <b>SZ_S</b> or larger)	encryptedId	String

#### First Name

Buyer's first name.

Usage	Field Name	Data Type
Input on object	ccrzBuyerFirstNamec	Text (40)
Input or output with API (with <b>SZ_XL</b> )	buyerFirstName	String

# Is Anonymous

Whether a guest buyer placed the order.

Usage	Field Name	Data Type
Input on object	ccrzIsAnonymousc	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	isAnonymous	Boolean

# Last Name

Buyer's last name.

Usage	Field Name	Data Type
Input on object	ccrzBuyerLastNamec	Text (80)
Input or output with API (with <b>SZ_XL</b> )	buyerLastName	String

#### Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

#### Note

A shipping note entered during checkout.

Usage	Field Name	Data Type
Input on object	ccrzNotec	Text Area (Long) (1000)
Input or output with API (with <b>SZ_XL</b> )	note	String

#### Number of All Order Items

The total number of items in the order, including both major and minor line items.



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrz_NumberofAllOrderItems_c	Roll-Up Summary (COUNT ccrz_E_OrderItemc)
Input or output with API (with <b>SZ_M</b> or larger)	numberofAllOrderItems	Integer

## Number of Major Order Items

The total number of major line items in the order.



Note: This field is available only in B2B Commerce for Visualforce Winter '21 (version 4.13) or later.

Usage	Field Name	Data Type
Input on object	ccrz_NumberofMajorOrderItems_c	Roll-Up Summary (COUNT ccrz_E_OrderItem_c)
Input or output with API (with <b>SZ_M</b> or larger)	numberofMajorOrderItems	Integer

#### Order

A parent order that for the current order. This field is used when fulfilling subscriptions:

• The parent order describes the upfront order that placed the subscription.

• The child order describes a recurring order for fulfilling the subscription.

Usage	Field Name	Data Type
Input on object	ccrzOrderc	Lookup Relationship (ccrzE_Orderc)
Input or output with API (with <b>SZ_M</b> or larger)	order	ID

#### Order Date

The date when the buyer placed the order.

Usage	Field Name	Data Type
Input on object	ccrzOrderDatec	Date
Input or output with API (with <b>SZ_M</b> or larger)	orderDate	Date

#### Order ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzOrderIdc	Text (128)
Input or output with API (with <b>SZ_M</b> or larger)	orderId	String

#### Order Name

The ccrz\_CartName\_c value copied from the corresponding ccrz\_E\_Cart\_c record.

Usage	Field Name	Data Type
Input on object	ccrzNamec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	name	String

# Order Name (Duplicated)

A copy of the order's Name auto-number value, for use in the order confirmation email template.

Usage	Field Name	Data Type
Input on object	ccrzOrderNamec	Formula (Text)
Input or output with API (with <b>SZ_M</b> or larger)	orderName	String

#### Order Number

The digit portion of the order's Name auto-number value, plus 1,000,000. For example, for an order with an auto-numbered Name of O-000000018, the Order Number is 1,000,018.

Usage	Field Name	Data Type
Input on object	ccrzOrderNumberc	Number (18, 0)
Input or output with API (with <b>SZ_M</b> or larger)	orderNumber	Integer

#### Order Seller

A seller associated with the order.

Usage	Field Name	Data Type
Input on object	ccrzOrderSellerc	Lookup Relationship (ccrzE_Sellerc)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Order Status

Status of the order shown in the My Orders section of the My Account page. By default, B2B Commerce for Visualforce sets the following statuses:

#### Error

The order failed to place.

#### In Creation

The ccrz.ccApiCart.placeAsync method is placing the order asynchronously.

#### On Hold

The order indicates a tax exemption during checkout.

## **Order Submitted**

An order created after checkout completes.



Note: The Error and In Creation values are available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

The managed package also defines the following picklist values, but doesn't define any default behavior that sets or changes these values. To set other status values, extend the appropriate class in the B2B Commerce for Visualforce API.

Bill of Material	In Process	Returned
Cancel Submitted	Partial Shipped	Shipped
Cancelled	Open	
Completed	Return Submitted	

Usage	Field Name	Data Type
Input on object	ccrzOrderStatusc	Picklist
Input or output with API (with <b>SZ_M</b> or larger)	orderStatus	String

# Originated Cart

The cart used for placing the order.

Usage	Field Name	Data Type
Input on object	ccrzOriginatedCartc	Lookup Relationship (ccrz_E_Cart_c on page 25)
Input or output with API (with <b>SZ_M</b> or larger)	originatedCart	ID

#### Phone

Buyer's phone number.

Usage	Field Name	Data Type
Input on object	ccrz_BuyerPhone_c	Phone
Input or output with API (with SZ_XL)	buyerPhone	String

## Request Date

The delivery date that the buyer requested during checkout.

Usage	Field Name	Data Type
Input on object	ccrzRequestDatec	Date
Input or output with API (with <b>SZ_L</b> or larger)	requestDate	Date

## Ship Amount

Amount calculated for shipping the order during checkout. This value is calculated based on shipping rates and product quantities in the cart, and passed to the corresponding ccrz E Order c record. Specify Shipping Rates for a Product.

# Ship Complete

Whether the buyer selected the Ship Complete option during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShipCompletec	Checkbox

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_M</b> or larger)	shipComplete	Boolean

#### Ship Discount Amount

Amount to adjust the shipping cost by after the order is placed. This amount is specified on the cart, and passed to the corresponding ccrz\_\_E\_Order\_\_c record. You can use your own back-end processing to apply this adjustment without changing the values of other fields.

Usage	Field Name	Data Type
Input on object	ccrzShipDiscountAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	shipDiscountAmount	Decimal

# Ship Method

The shipping method selected during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShipMethodc	Text (50)
Input or output with API (with <b>SZ_L</b> or larger)	shipMethod	String

## Ship Structure

The checkout experience used for grouping the cart's items for shipment. If your storefront uses line-level independence (LLI), this value is LLI. Otherwise, this value is empty.

Usage	Field Name	Data Type
Input on object	ccrzShipStructurec	Text (128)
Input or output with API (with <b>SZ_S</b> or larger)	shipStructure	String

## Ship To

The shipping address associated with the cart. This record is a unique copy of the shipping address specified during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShipToc	Lookup Relationship (ccrzE_ContactAddrc)
Input or output with API (with <b>SZ_L</b> or larger)	shipTo	ID

# Skip Tax Calculation

Whether tax was calculated during checkout.

Usage	Field Name	Data Type
Input on object	ccrzSkipTaxc	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	skipTax	Boolean

#### Split Parent Order

The source order that the current order was split from. For more information, see:

- ccrz.ccApiOrder.getOrdersToSplit
- ccrz.ccApiOrder.splitOrder
- ccrz.ccSplitOrderJob

Usage	Field Name	Data Type
Input on object	ccrzSplitParentOrderc	Lookup Relationship (ccrzE_Orderc)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Split Processed

Whether the order has been evaluated for splitting. When this field is *TRUE*, processes that split orders ignore this order because it's already been evaluated. For more information, see:

- ccrz.ccApiOrder.getOrdersToSplit
- ccrz.ccApiOrder.splitOrder
- ccrz.ccSplitOrderJob

Usage	Field Name	Data Type
Input on object	ccrzSplitProcessedc	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Storefront

The storefront where the order was placed.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	storefront	String

#### Subtotal Amount

The total entitled price of all items in the order.

Usage	Field Name	Data Type
Input on object	ccrzSubtotalAmountc	Roll-Up Summary (SUM ccrz_E_OrderItemc)
Input or output with API (with <b>SZ_L</b> or larger)	subtotalAmount	Decimal

#### Tax Amount

Tax amount calculated during checkout.

Usage	Field Name	Data Type
Input on object	ccrzTaxAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	taxAmount	Decimal

# Tax Exempt Flag

Whether the order is exempt from tax. This value is specified on the cart, and passed to the corresponding <code>ccrz\_\_E\_Order\_\_c</code> record.

Usage	Field Name	Data Type
Input on object	ccrzTaxExemptFlagc	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	taxExemptFlag	Boolean

## Tax Subtotal Amount

The total taxable price of all items in the order.

Usage	Field Name	Data Type
Input on object	ccrzTaxSubTotalAmountc	Roll-Up Summary (SUM ccrz_E_OrderItem_c)
Input or output with API (with <b>SZ_L</b> or larger)	taxSubTotalAmount	Decimal

## Total Amount

Total cost calculated for the order, including:

- Ship amount
- Ship discount amount

- Subtotal amount
- Tax amount
- Adjustment amount
- Total surcharge

Usage	Field Name	Data Type
Input on object	ccrzTotalAmountc	Formula (Currency)
Input or output with API (with <b>SZ_L</b> or larger)	totalAmount	Decimal

#### Total Discount

Total amount discounted from the order.

Usage	Field Name	Data Type
Input on object	ccrzTotalDiscountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	totalDiscount	Decimal

# Total Surcharge

Charges other than taxes or shipping applied to the order.

Usage	Field Name	Data Type
Input on object	ccrzTotalSurchargec	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	totalSurcharge	Decimal

## User

The user that created the cart used for placing the order.

Usage	Field Name	Data Type
Input on object	ccrzUserc	Lookup Relationship (User)
Input or output with API (with <b>SZ_XL</b> )	user	ID

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Company Name	ccrzBuyerCompanyNamec	Text (80)
Contract ID	ccrzContractIdc	Text (50)
Ext Carrier	ccrzExtCarrierc	Text (50)
Ext ShipTo	ccrzExtShipToc	Lookup Relationship (ccrz_E_ContactAddrc)
Ext ShipTrack No	ccrzExtShipTrackNoc	Text (250)
Mobile Phone	ccrzBuyerMobilePhonec	Phone
Order Source	ccrzOrderSourcec	Text (255)
Payment Method	ccrzPaymentMethodc	Text (50)
PO Number	ccrzPONumberc	Text (30)
VerifyExemptionFlag	ccrzVerifyExemptionFlagc	Checkbox

# **Related Lists**

A record of the ccrz\_E\_Order\_c object can have multiple related lists that relate the order to other types of records, such as order items. The ccrz.ccApiOrder.fetch method can return data from these related records, depending on the requested data size in the input map.

The reference for each related list indicates which data size the list is returned with by default. You can also use the ccrz.ccApi.SZ REL flag in your input map to request a particular list, regardless of requested data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XS,
        ccrz.ccApi.SZ_REL => New List<String>{'E_OrderItems__r'}
}
```

#### **EOrderItemsS**

List<Map<String, Object>> ofccrz E OrderItem c.

Consideration	Value
Default data size returned with	SZ_M or larger
ccrz.ccApi.SZ_REL request value	E_OrderItemsr

#### EOrderItemsGroupsS

List<Map<String, Object>> ofccrz E OrderItemGroup c.

Consideration	Value
Default data size returned with	SZ_L or larger

Consideration	Value
ccrz.ccApi.SZ_REL request value	E_OrderItemGroupsr

### **EOrderShipmentsS**

List<Map<String, Object>> of ccrz E OrderShipment c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	E_OrderShipmentsr

#### orderTermsS

List<Map<String, Object>> ofccrz E OrderTerm c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	OrderTermsr



Note: For legacy solutions where the New Order configuration of the Checkout (co.neworder) module is FALSE, the ccrz.ccApiOrder.fetch method also returns the EPaymentDetailsS related list.

#### SEE ALSO:

Salesforce Help Fulfill a Buyer's Order

Salesforce Help Enable Asynchronous Order Placement for Checkout

Salesforce Help Set Product Prices in the Cart from an External Source

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz\_\_E\_OrderItem\_\_c

Represents an item in a buyer's completed order, including major and minor line items or applied coupons.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiOrder

Fetch sizing: To specify which fields the ccrz.ccApiOrder.fetch or ccrz.ccApiOrder.fetchOrderItems method returns for each order item record, request a specific data size for the ccrz.ccApiOrder.OI\_ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.OI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

# **Fields**

#### Absolute Discount

A fixed discount amount for the item in the order's currency.

Usage	Field Name	Data Type
Input on object	ccrzAbsoluteDiscountc	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	absoluteDiscount	Decimal

### Adjustment Amount

Amount to adjust the item's price in the order by. Typically, a customer service representative (CSR) performs this adjustment on behalf of a buyer.

Usage	Field Name	Data Type
Input on object	ccrzAdjustmentAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	adjustmentAmount	Decimal

## Availability Message

Usage	Field Name	Data Type
Input on object	ccrzAvailabilityMessagec	Text Area (255)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_XL</b> )	availabilityMessage	String

# Category

A category that the product is assigned to. This field is set when a buyer adds the product to the cart from the category's Product List page.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Lookup Relationship (ccrz_E_Category_c)
Input or output with API (with <b>SZ_XL</b> )	category	ID

#### Comments

Text that a buyer added to the order item on the Shopping Cart page.

Usage	Field Name	Data Type
Input on object	ccrzCommentsc	Text Area (255)
Input or output with API (with <b>SZ_XL</b> )	comments	String

#### Coupon

The coupon record that corresponds to a coupon order item.

Usage	Field Name	Data Type
Input on object	ccrzCouponc	Lookup Relationship (ccrz_E_Coupon_c)
Input or output with API (with <b>SZ_XL</b> )	coupon	ID

# Display Product

The product record for an aggregated product. This field is set when the order item is a component product in the aggregated product.

Usage	Field Name	Data Type
Input on object	ccrzDisplayProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or larger)	displayProduct	ID

## External Name

The name for an externally priced product. This name displays for the order item in order information on the storefront instead of the referenced product's name.

Usage	Field Name	Data Type
Input on object	ccrzExtNamec	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	extName	String

#### External SKU

The SKU for an externally priced product. This SKU displays for the order item in order information on the storefront instead of the referenced product's SKU.

Usage	Field Name	Data Type
Input on object	ccrz_ExtSKUc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	extSKU	String

# Is Subscription

Whether the order is a subscription.

Usage	Field Name	Data Type
Input on object	ccrzIs_Subscriptionc	Checkbox
Input or output with API (with <b>SZ_XL</b> )	isSubscription	Boolean

## Item Total

Total cost calculated for the order item, including:

- Subtotal amount
- Adjustment amount

Usage	Field Name	Data Type
Input on object	ccrzItemTotalc	Formula (Currency)
Input or output with API (with <b>SZ_XL</b> )	itemTotal	Decimal

## Next Subscription Date

The date for the next recurring order for a subscription.

Usage	Field Name	Data Type
Input on object	ccrz_Next_Subscription_Datec	Date

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_XL</b> )	nextSubscriptionDate	Date

#### Order

The order that the items belong to.

Usage	Field Name	Data Type
Input on object	ccrzOrderItemGroupc	Master-Detail Relationship (ccrz_E_Orderc)
Input or output with API (with <b>SZ_S</b> or larger)	order	ID
Input or output with API (with <b>SZ_XL</b> )	orderR	Map <string, object="">, which contains a sfdcName field that references the order's auto number.</string,>

#### Order Item Group

The shipping group that the item belongs to. This value is set only when your storefront uses line-level independence (LLI) for checkout.

Usage	Field Name	Data Type
Input on object	ccrzOrderItemGroupc	Lookup Relationship (ccrz_E_OrderItemGroupc)
Input or output with API (with <b>SZ_XL</b> )	orderItemGroup	ID

# Order Item ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzOrderItemIdc	Text (128)
Input or output with API (with <b>SZ_XL</b> )	orderItemId	ID

# Order Item Status

Status of the order item. By default, B2B Commerce for Visualforce sets the status for an order item to Order Submitted. The managed package also defines the following picklist values, but doesn't define any default behavior that sets or changes these values. To set other status values, extend the appropriate class in the B2B Commerce for Visualforce API.

Usage	Field Name	Data Type
Input on object	ccrzOrderItemStatusc	Picklist
Input or output with API (with <b>SZ_XL</b> )	orderItemStatus	String

# Order Line Type

Whether the order item is a:

- Major line item, such as a standard product or a composite product
- Minor line item, such as a component product of a composite product
- Coupon

Usage	Field Name	Data Type
Input on object	ccrzOrderLineTypec	Picklist
Input or output with API (with SZ_XL)	orderLineType	String

#### OrderItemAutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Original Item Price

The buyer's entitled price for the order item before any adjustments are applied.

Usage	Field Name	Data Type
Input on object	ccrzOriginalItemPricec	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	originalItemPrice	Decimal

## Original Quantity

The original quantity per unit for component products included in kits, bundles, or dynamic kits.

Usage	Field Name	Data Type
Input on object	ccrzOriginalQuantityc	Number (16, 2)
Input or output with API (with <b>SZ_XL</b> )	originalQuantity	Integer

## Parent Order Item

The composite product that represents a kit, bundle, or dynamic kit for which the current order item is a component product.

Usage	Field Name	Data Type
Input on object	ccrzParentOrderItemc	Lookup Relationship (ccrz_E_OrderItemc)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_L</b> or larger)	parentOrderItem	ID

#### Parent Product

The composite product that represents a kit, bundle, or dynamic kit for which the current order item is a component product.

Usage	Field Name	Data Type
Input on object	ccrzParentProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with <b>SZ_XL</b> )	parentProduct	ID

#### Percent Discount

The percentage discount for this order item when a coupon is applied.

Usage	Field Name	Data Type
Input on object	ccrzPercentDiscountc	Percent (3, 4)
Input or output with API (with SZ_XL)	percentDiscount	Decimal

#### Price

The buyer's entitled price for the order item.

Usage	Field Name	Data Type
Input on object	ccrzPricec	Currency (16, 2)
Input or output with API (with <b>SZ_M</b> or larger)	price	Decimal

## Pricing Modifier Types

Comma-delimited list of pricing modifiers applied to the order item. The only value that the managed package supports by default is tiered. For more information about tiered pricing, see Adjust Product Prices Based on Tiered Quantities.



Tip: Avoid using the value tiered in any customizations or extensions in your subscriber code.

Usage	Field Name	Data Type
Input on object	ccrzPricingModifierTypesc	Text (255)
Input or output with API (with <b>SZ_XL</b> )	pricingModifierTypes	String

# Pricing Type

An internal value that indicates the order item's pricing source.

- When this value is ATTRGROUP, B2B Commerce for Visualforce evaluated the order item as part of an attribute-based product.
- When this value is external, B2B Commerce for Visualforce evaluated the order item as externally priced.

Usage	Field Name	Data Type
Input on object	ccrzPricingTypec	Text (255)
Input or output with API (with SZ_XL)	pricingType	String

## Primary Attribute

The primary attribute selected on the order item's corresponding attribute-based product.

Usage	Field Name	Data Type
Input on object	ccrzPrimaryAttrc	Lookup Relationship (ccrz_E_Attribute_c)
Input or output with API (with SZ_S or	primaryAttr	ID
larger)	primaryAttrR	Map <string, object="">, which contains a parentAttribute field that references the primary attribute's parent attribute.</string,>

#### Product

The product that corresponds to the order item.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or larger)	product	ID
Input or output with API (with <b>SZ_XL</b> )	productR	Map <string, object="">, which contains the following fields:  • endDate  • productStatus  • productType  • SKU  • startDate</string,>

#### Product Name

The value of the Name field on the order item's corresponding ccrz\_E\_Product\_c.

Usage	Field Name	Data Type
Input on object	ccrzProduct_Namec	Formula (Text)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# ProductType

The type of product that corresponds to the cart item. For supported values, see Types of Products for B2B Commerce for Visualforce.

Usage	Field Name	Data Type
Input on object	ccrzProductTypec	Text (20)
Input or output with API (with <b>SZ_M</b> or larger)	productType	String

## Quantity

The quantity for the item in the order.

Usage	Field Name	Data Type
Input on object	ccrz_Quantity_c	Number (18, 0)
Input or output with API (with <b>SZ_S</b> or larger)	quantity	Integer

## Recurring Price

The recurring price amount for the order item's subscription.

Usage	Field Name	Data Type
Input on object	ccrzRecurringPricec	Currency (16, 2)
Input or output with API (with SZ_XL)	recurringPrice	Decimal

## Recurring Price Sub Amount

Recurring price subtotal for the total quantity of the order item.

Usage	Field Name	Data Type
Input on object	ccrzRecurringPriceSubAmtc	Currency (16, 2)
Input or output with API (with <b>SZ_XL</b> )	recurringPriceSubAmt	Decimal

## Request Date

The date when the buyer added the product to their shopping cart.

Usage	Field Name	Data Type
Input on object	ccrzRequestDatec	Date
Input or output with API (with <b>SZ_XL</b> )	requestDate	Date

Note: By default, this field isn't synchronized with the ccrz RequestDate c field on the parent ccrz E Order c object. To implement this synchronization, extend the ccrz.ccLogicCartAddTo.setCartItemFields logic service provider method. In your extension, set the ccrz RequestDate c value on the ccrz E CartItem c record to null, which causes the ccrz E CartItem c record to inherit the ccrz RequestDate c value from the parent ccrz E Cart c record. This value propagates to the corresponding ccrz E OrderItem c when the buyer places an order from the cart.

```
qlobal with sharing class customLogicCartAddTo extends ccrz.ccLogicCartAddTo {
  qlobal override Map<String, Object> setCartItemFields(Map<String, Object>
inputData) {
     super.setCartItemFields(inputData);
     ccrz E CartItem c cartItem = (ccrz E CartItem c)
inputData.get(ccrz.ccApiCart.CURR CARTITEM);
     cartItem.RequestDate c = null;
     return inputData;
}
```

#### Secondary Attribute

The secondary attribute selected on the order item's corresponding attribute-based product.

Usage	Field Name	Data Type
Input on object	ccrzSecondAttrc	Lookup Relationship (ccrz_E_Attributec)
Input or output with API (with <b>SZ_S</b> or larger)	secondaryAttr	ID
	secondaryAttrR	Map <string, object="">, which contains a parentAttribute field that references the secondary attribute's parent attribute.</string,>

#### Selected Attributes

JSON content that describes the selected attributes for the order item's corresponding product.

Usage	Field Name	Data Type
Input on object	ccrzSelectedAttrc	Text Area (Long) (1000)
Input or output with API (with <b>SZ_XL</b> )	selectedAttr	ID

## Seller

The seller that the buyer is purchasing the product from.

Usage	Field Name	Data Type
Input on object	ccrzSellerc	Lookup Relationship (ccrz_E_Sellerc)
Input or output with API (with <b>SZ_XL</b> )	seller	ID
	sellerR	Map <string, object="">, which contains a ID field that references the seller ID.</string,>

# Split Source

The original order item that the current order item was split from. For more information, see ccrz.ccLogicOrderSplitOrder.

Usage	Field Name	Data Type
Input on object	ccrzSplitSourcec	Lookup Relationship (ccrzE_OrderItemc)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Store ID

The storefront where the order's cart was created.

Usage	Field Name	Data Type
Input on object	ccrzStoreIdc	Text (128)
Input or output with API (with <b>SZ_M</b> or larger)	storeId	String

#### Sub Amount

The entitled subtotal price for the total quantity of the order item.

Usage	Field Name	Data Type
Input on object	ccrzSubAmountc	Currency (16, 2)
Input or output with API (with <b>SZ_L</b> or larger)	subAmount	Decimal

## SubProdTerm

The subscription that corresponds to the order item.

Usage	Field Name	Data Type
Input on object	ccrzSubProdTermc	Lookup Relationship (ccrz_E_SubProdTerm_c)
Input or output with API (with <b>SZ_XL</b> )	subProdTerm	ID

## Tertiary Attribute

The tertiary attribute selected on the order item's corresponding attribute-based product.

Usage	Field Name	Data Type
Input on object	ccrzTertiaryAttrc	Lookup Relationship (ccrz_E_Attributec)
Input or output with API (with <b>SZ_S</b> or	tertiaryAttr	ID
larger)	tertiaryAttrR	Map <string, object="">, which contains a parentAttribute field that references the tertiary attribute's parent attribute.</string,>

### Unit Of Measure

The unit of measure from the cart item's corresponding product.

Usage	Field Name	Data Type
Input on object	ccrzUnitOfMeasurec	Text (32)
Input or output with API (with <b>SZ_L</b> or larger)	unitOfMeasure	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Item Label	ccrzItemLabelc	Text (80)
Item Status	ccrzItemStatusc	Picklist
Subscription Auto Renewal	ccrz_Subscription_Auto_Renewal_c	Checkbox
Subscription Duration	ccrz_Subscription_Duration_c	Number (18, 0)
Subscription End Date	ccrz_Subscription_End_Date_c	Date
Subscription Frequency	ccrz_Subscription_Frequency_c	Number (4, 0)
Subscription Start Date	ccrz_Subscription_Start_Datec	Date

Field Label	Field Name	Data Type
Subscription Status	ccrzSubscription_Statusc	Picklist
SubscriptionId	ccrzSubscriptionIdc	Formula (Text)

#### SEE ALSO:

Salesforce Help Fulfill a Buyer's Order
Salesforce Help Enable Asynchronous Order Placement for Checkout
Salesforce Help Set Product Prices in the Cart from an External Source
Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz\_\_E\_OrderItemGroup\_\_c

Represents a shipping group of order items for line-level independence (LLI) checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiOrder

**Fetch sizing:** The ccrz.ccApiOrder.fetch method returns the EOrderItemGroupsS related list when you request at least a large data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

# **Fields**

#### CC Order

The order where the shipping group applies.

Usage	Field Name	Data Type
Input on object	ccrzOrderc	Master-Detail Relationship (ccrz_E_Orderc)
Input or output with API (with any data size)	order	ID

### Group Name

The shipping group name, used for organizing groups on the Checkout page.

Usage	Field Name	Data Type
Input on object	ccrzGroupNamec	Text (255)
Input or output with API (with any data size)	groupName	String

#### Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Note

Shipping notes for the group.

Usage	Field Name	Data Type
Input on object	ccrzNotec	Text Area (Long) (1,000)
Input or output with API (with any data size)	note	String

### OrderItemGroupId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzOrderItemGroupIdc	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Request Date

The buyer's requested delivery date for the shipping group.

Usage	Field Name	Data Type
Input on object	ccrzRequestDatec	Date
Input or output with API (with any data size)	requestDate	Date

### Ship Amount

The shipping cost calculated for the group, based on shipping rates and product quantities in the group. This value is passed to the corresponding ccrz\_E\_Cart\_\_c and ccrz\_E\_Order\_\_c records. For more information, see Specify Shipping Rates for a Product.

Usage	Field Name	Data Type
Input on object	ccrzShipAmountc	Currency (16, 2)
Input or output with API (with any data size)	shipAmount	Decimal

#### Ship Method

The shipping method for the group.

Usage	Field Name	Data Type
Input on object	ccrzShipMethodc	Text (50)
Input or output with API (with any data size)	shipMethod	String

#### Ship To

The shipping address for the group.

Usage	Field Name	Data Type
Input on object	ccrzShipToc	Lookup Relationship (ccrz_E_ContactAddr_c)
Input or output with API (with any data size)	shipTo	ID

# ccrz\_\_E\_OrderShipment\_\_c

Represents shipment details for an order.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiOrder

**Fetch sizing:** The ccrz.ccApiOrder.fetch method returns the EOrderShipmentsS and EOrderShipmentItemsS related lists when you request at least a large data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ\_REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'E_OrderShipments_r'}
    }
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

# **Fields**

#### Carrier

The shipping service provider.

Usage	Field Name	Data Type
Input on object	ccrzCarrierc	Picklist
Input or output with API (with any data size)	carrier	String

### Delivery Date

The expected date when the carrier delivers the shipment.

Usage	Field Name	Data Type
Input on object	ccrzDeliveryDatec	Date
Input or output with API (with any data size)	deliveryDate	Date

#### Order

The order that the shipment applies to.

Usage	Field Name	Data Type
Input on object	ccrzOrderc	Master-Detail Relationship (ccrz_E_Orderc)
Input or output with API (with any data size)	order	ID

## Order Shipment ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzOrderShipmentIdc	Text (128)
Input or output with API (with any data size)	orderShipmentId	String

### Order Shipment Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number

Usage	Field Name	Data Type
Input or output with API (with any data size)	sfdcName	String

#### Shipment Date

The date when the carrier sends the shipment.

Usage	Field Name	Data Type
Input on object	ccrzShipmentDatec	Date
Input or output with API (with any data size)	shipmentDate	Date

#### Shipping Method

The shipping method selected during checkout.

Usage	Field Name	Data Type
Input on object	ccrzShippingMethodc	Text (255)
Input or output with API (with any data size)	shippingMethod	String

#### Tracking Number

A unique ID for tracking the shipment. To fulfill the tracking, pass this value to the shipping service provider.

Usage	Field Name	Data Type
Input on object	ccrzTrackingNoc	Text (255)
Input or output with API (with any data size)	trackingNo	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Bill of Lading	ccrzBillOfLadingc	Text (255)

## **Related Lists**

The ccrz.ccApiOrder.fetch method returns the following related list for each ccrz E OrderShipment c record:

#### EOrderShipmentItemsS

List<Map<String, Object>> of ccrz E OrderShipmentItem c.

# ccrz\_\_E\_OrderShipmentItem\_\_c

Represents shipment details for an item in a buyer's completed order.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiOrder

**Fetch sizing:** The ccrz.ccApiOrder.fetch method returns the EOrderShipmentsS and EOrderShipmentItemsS related lists when you request at least a large data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request these related lists even with a smaller data size, add the ccrz.ccApi.SZ\_REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'E_OrderShipments__r'}
    }
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

## **Fields**

#### CC Order Shipment

The order that the shipment applies to.

Usage	Field Name	Data Type
Input on object	ccrzOrderShipmentc	Master-Detail Relationship (ccrz_E_OrderShipment_c)
Input or output with API (with any data size)	orderShipment	ID

### CC Order Shipment Item Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

## Order Shipment Item ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrz_OrderShipmentItemId_c	Text (128)
Input or output with API (with any data size)	orderShipmentItemId	String

### Quantity

The quantity for the item in the shipment.

Usage	Field Name	Data Type
Input on object	ccrz_Quantity_c	Number (18, 0)
Input or output with API (with any data size)	quantity	Integer

#### SKU

The product SKU for the item in the shipment.

Usage	Field Name	Data Type
Input on object	ccrzSKUc	Text (100)
Input or output with API (with any data size)	sku	String

# ccrz\_\_E\_OrderTerm\_\_c

Represents the terms and conditions that a buyer acknowledges and accepts during checkout.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiOrder

**Fetch sizing:** The ccrz.ccApiOrder.fetch method returns the orderTermsS related list when you request at least a large data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

Each record returned in this list always includes the same fields, regardless of the requested data size.

### **Fields**

#### CC Order Term Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number

Usage	Field Name	Data Type
Input or output with API (with any data size)	sfdcName	String

#### Description

Explanatory text for the term, which appears below the title on the Checkout page. This value is copied from the ccrz Description c field on the corresponding ccrz E Term c record.

Usage	Field Name	Data Type
Input on object	ccrzDescriptionc	Text Area (Rich) (32768)
Input or output with API (with any data size)	description	String

#### Order

The order that the terms apply to.

Usage	Field Name	Data Type
Input on object	ccrzOrderc	Master-Detail Relationship (ccrzE_Orderc)
Input or output with API (with any data size)	order	ID

### Title

The label or heading for the term, which displays on the Checkout page with a checkbox that a buyer must select before they can continue. This value is copied from the ccrz Title c field on the corresponding ccrz E Term c record.

Usage	Field Name	Data Type
Input on object	ccrzTitlec	Text (100)
Input or output with API (with any data size)	title	String

SEE ALSO:

ccrz\_\_E\_Term\_\_c

# ccrz\_\_E\_PageLabel\_\_c

Represents a page label record, which defines buyer-facing text on the storefront, such as headings, buttons, and error messages. Each page label record is specific to one storefront and one locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiI18N

**Fetch sizing:** The ccrz.ccApiI18N.fetchPageLabels method returns the ccrz.ccApiI18N.PAGE\_LABELS output, where each page label includes only the following fields:

- Page Label Name
- ValueRT

## **Fields**

#### Page Label Name

The name of the page label record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	pageLabelName	String

#### Page Name

The name of the storefront page where the page label applies. The value All specifies that the page label applies to all pages, where applicable.

Usage	Field Name	Data Type
Input on object	ccrzPageNamec	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### PageLabelId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPageLabelIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Sequence

Formula that determines the relative priority of the page label record by trying to match a specific page name, storefront, and locale.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Formula (Number)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Storefront

The storefront where the page label applies. If the value of this field is Global, the page label applies to all storefronts.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (50)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### ValueRT

The text of the page label for a specific storefront, locale, and page name.

Usage	Field Name	Data Type
Input on object	ccrzValueRTc	Text Area (Rich) (32768)
Input or output with API (with any data size)	value	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Value	ccrzValuec	Text Area (Long) (32768)

SEE ALSO:

Salesforce Help Customize Storefront Headings and Text with Page Labels

# ccrz\_\_E\_PageLabell18N\_\_c

Represents a page label translated for a locale that your storefront supports.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The API doesn't return fields on the ccrz\_E\_PageLabelI18N\_c record directly. When the ccrz.ccApiI18N.fetchPageLabels method's input map includes the ccrz.ccApiI18N.LOCALE key, the method:

- 1. References ccrz\_E\_PageLabelI18N\_c records for the specified locale.
- 2. Returns ccrz E PageLabel c records, translated with the localized data.

## **Fields**

### CC Page Label

The page label to localize.

Usage	Field Name	Data Type
Input on object	ccrzPageLabelc	Master-Detail Relationship (ccrz_E_PageLabelc)
Input or output with API (with any data size)	Not applicable	

#### CC PageLabelI18N Name

Name for the localized page label record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	Not applicable	

#### LangSequence

Formula that determines the relative priority of the localized page label.

Usage	Field Name	Data Type
Input on object	ccrzLangSequencec	Formula (Number)
Input or output with API (with any data size)	Not applicable	

#### Language

ISO code for the locale to localize for.



Note: Each locale uses the following codes for languages and regions, separated by an underscore:

- ISO 639-1 language code, such as en or ja
- ISO 3166-1 Alpha 2 country or region code, such as US or JP

Usage	Field Name	Data Type
Input on object	ccrzLanguagec	Text (5)
Input or output with API (with any data size)	Not applicable	

#### ValueRT

The localized page label text.

Usage	Field Name	Data Type
Input on object	ccrzValueRTc	Text Area (Rich) (32768)
Input or output with API (with any data size)	Provides the value for the value field w records.	hen the API queries localized page label

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Value	ccrzValuec	Text Area (Long) (32768)

#### SEE ALSO:

Salesforce Help Localize Page Labels for an Internationalized Storefront
Salesforce Help Select Which Locales and Currencies Your Storefront Supports

# ccrz\_E\_PageSection\_\_c

Represents a page section record, which specifies extra product content—product specifications, related products, documentation, and so on—to show on the Product Detail page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: The API doesn't directly query records of this object.

## **Fields**

#### CC Page Section Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Display Style

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzDisplayStylec	Picklist
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Display Type

Whether the page section displays as a tab or widget on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzDisplayTypec	Picklist
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Grouping

The tab group name for all tabs that you want to show together.



Note: The Product Detail page supports only one group of page section tabs. In the Capricorn Coffee demo storefront, the default tab group name is tabSec.

Usage	Field Name	Data Type
Input on object	ccrzGroupingc	Text (25)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Location

Whether the page section displays in the page's Main Content or Right Column.

Usage	Field Name	Data Type
Input on object	ccrz_Locationc	Picklist
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Page Name

The page, ProductDetails, where the page section displays.



Mote: Only the Product Detail page supports page sections.

Usage	Field Name	Data Type
Input on object	ccrzPageNamec	Picklist

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Page Section ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPageSectionIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Section Filter

The content to show in the page section. For usage, see:

- Show a Product's Long Description
- Show Related Products
- Make Documentation Available
- Show Custom Document Types

Usage	Field Name	Data Type
Input on object	ccrzSectionFilterc	Picklist (Multi-select)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Section Filter Other

The content to show in the page section. For usage, see:

• Show Custom Content

Usage	Field Name	Data Type
Input on object	ccrzSectionFilterOtherc	Text (50)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Section Name

The content to show in the page section. For usage, see:

- Show a Product's Long Description
- Show Related Products
- Show Product Specs on the Product Detail Page

- Make Documentation Available
- Show Custom Document Types
- Show Shipping Information
- Show Custom Content

Usage	Field Name	Data Type
Input on object	ccrzSectionNamec	Picklist
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Sequence

The order of the tab or widget among other tab or widget page sections with the same Location and Display Type values. Lower Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (5, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Storefront

The storefront where the page section applies.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (50)
Input or output with API (with any data size)	The API doesn't return data for this field.	

SEE ALSO:

Salesforce Help Guidelines for Creating Page Sections

# ccrz\_\_E\_PriceGroup\_\_c

Determines alternative pricing for accounts outside of account groups and price lists. For example, use a price group for contract pricing, special pricing for industry segments, or other context-specific pricing.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

**Class used with:** The API doesn't directly query records of this object.

## **Fields**

### CC Price Group Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Effective End

Date when the price group is no longer available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Effective Start

Date when the price group is available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Group Name

The price group's name.

Usage	Field Name	Data Type
Input on object	ccrzGroupNamec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Group Type

The type of price group: Contract, Upgrade, and so on.

Usage	Field Name	Data Type
Input on object	ccrzGroupTypec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Price Group ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupIDc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### SEE ALSO:

Salesforce Help Honor Custom Prices Negotiated in a Contract

# ccrz\_\_E\_PriceGroupAccount\_\_c

Represents the assignment of a price group to an account.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: The API doesn't directly query records of this object.

## **Fields**

#### Account

The account that the price group is assigned to.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Master-Detail Relationship (Account)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### CC Price Group

The price group assigned to the account.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupc	Master-Detail Relationship (ccrz_E_PriceGroup_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### CC Price Group Account Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Effective End

Date when this assignment is no longer available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Effective Start

Date when this assignment is available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Price Group Account ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupAccountIDc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Sequence

Order of the price group's assignment to the account among all price groups assigned to the account. Lower Sequence values take priority.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Storefront

The name of the storefront where this assignment applies.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

SEE ALSO:

Salesforce Help Honor Custom Prices Negotiated in a Contract

# ccrz\_\_E\_PriceGroupItem\_\_c

Represents a product included in a price group.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

**Class used with:** The API doesn't directly query records of this object.

## **Fields**

### CC Price Group

The price group that the product is assigned to.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupc	Master-Detail Relationship (ccrz_E_PriceGroup_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### CC Price Group Item Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Effective End

Date when this assignment is no longer available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Effective Start

Date when this assignment is available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Price Group Item ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupItemIDc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Product

The product to assign.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Quantity

The allowed quantity of a product for the price group to be valid. Depending on your implementation, this quantity can represent a maximum or minimum requirement.

Usage	Field Name	Data Type
Input on object	ccrz_Quantity_c	Number (14, 4)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### SEE ALSO:

Salesforce Help Honor Custom Prices Negotiated in a Contract

# ccrz\_\_E\_PriceGroupPricelist\_\_c

Represents the assignment of a price list to a price group.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

**Class used with:** The API doesn't directly query records of this object.

## **Fields**

#### CC Price Group

The price group that the price list is assigned to.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupc	Master-Detail Relationship (ccrz_E_PriceGroup_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## CC Price Group Pricelist Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

### CC Price List

The price list assigned to the price group.

Usage	Field Name	Data Type
Input on object	ccrzPricelistc	Lookup Relationship (ccrz_E_PriceList_c)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Effective End

Date when this assignment is no longer available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Effective Start

Date when this assignment is available.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Price Group Pricelist ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPriceGroupPricelistIDc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Sequence

Order of the price list's assignment to the price group among all price lists assigned to the price group. Lower Sequence values take priority.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Storefront

The name of the storefront where this assignment applies.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### SEE ALSO:

Salesforce Help Honor Custom Prices Negotiated in a Contract

# ccrz\_\_E\_Pricelist\_\_c

Represents a price list record, which assigns prices to products for a particular account group. Each price list can apply to only one currency.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiPriceList

**Fetch sizing:** To specify which fields the ccrz.ccApiPriceList.fetch method returns for each price list record, request a specific data size for the ccrz.ccApiPriceList.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
```

```
}
```

The reference for each field indicates which data size the field is returned with.

## **Fields**

#### Currency ISO Code

The ISO 4217 currency code for the price list, such as USD or JPY.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyISOCodec	Text (10)
Input or output with API (with <b>SZ_S</b> or larger)	currencyISOCode	String

#### Customer Type Code

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzCustomerTypeCodec	Text (10)
Input or output with API (with SZ_XL)	customerTypeCode	String

#### Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Desc

An internal-facing description for the price list.

Usage	Field Name	Data Type
Input on object	ccrzCustomerTypeCodec	Text (255)
Input or output with API (with SZ_XL)	desc	String

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with <b>SZ_M</b> or larger)	enabled	Boolean

### End Date

The last day when the price list is valid on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with <b>SZ_M</b> or larger)	endDate	Date

#### Name

A unique name for the price list record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

### Pricelist ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPricelistIdc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	pricelistId	String

#### Seller

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzSellerc	Lookup Relationship (ccrz_E_Sellerc)
Input or output with API (with <b>SZ_L</b> or larger)	seller	ID

#### Start Date

The first day when the price list is valid on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with <b>SZ_M</b> or larger)	startDate	Date

#### Storefront

The storefront where the price list applies.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Picklist (Multi-select)
Input or output with API (with <b>SZ_S</b> or larger)	storefront	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Supplier Key	ccrzSupplierKeyc	Text (255)

SEE ALSO:

Salesforce Help Manage Prices for Storefront Products with Price Lists

# ccrz\_\_E\_PricelistItem\_\_c

Represents a specific price for a product in a price list.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiPriceList

Fetch sizing: To specify which fields the ccrz.ccApiPriceList.fetch or

ccrz.ccApiPriceList.fetchPriceListItems method returns for each price list item record, request a specific data size
for the ccrz.ccApiPriceList.PLI\_ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME_PLI => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

## **Fields**

#### Attribute Pricing

JSON data for attribute pricing.

Usage	Field Name	Data Type
Input on object	ccrzAttributePricingc	Text Area (Long) (32000)
Input or output with API (with <b>SZ_XL</b> )	attributePricing	String

#### End Date

The date when the price list item is no longer valid. For example, if End Date is 12/31/2099, then December 30, 2099 is the final day that the price for this price list item is valid.

Usage	Field Name	Data Type
Input on object	ccrz_EndDate_c	Date
Input or output with API (with <b>SZ_L</b> or larger)	endDate	Date

### Item Type

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzItemTypec	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	itemType	String

### Max Qty

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzMaxQtyc	Number (18, 0)
Input or output with API (with <b>SZ_L</b> or larger)	maxQty	Integer

### Min Qty

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzMinQtyc	Number (18, 0)
Input or output with API (with <b>SZ_L</b> or larger)	minQty	Integer

#### Price

The price for the product in the price list.

Usage	Field Name	Data Type
Input on object	ccrzPricec	Currency (16, 2)
Input or output with API (with <b>SZ_S</b> or larger)	price	Decimal

### Pricelist

The price for the product in the price list.

Usage	Field Name	Data Type
Input on object	ccrzPricelistc	Master-Detail Relationship (ccrz_E_PriceList_c)
Input or output with API (with <b>SZ_S</b> or larger)	pricelist	ID
Input or output with API (with <b>SZ_M</b> or larger)	pricelistR	Map <string, object="">, which contains the following ccrz_E_PriceList_c fields:</string,>
		• currencyISOCode
		• seller
		• sfdcName

#### Pricelist Item Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzPricelistItemIdc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	pricelistItemId	String

#### PricelistItemAutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

### Pricing Tiers

JSON data for tiered pricing. For more information about tiered pricing, see https://help.salesforce.com/articleView?id=sf.b2b\_commerce\_tiered\_pricing.htm.

Usage	Field Name	Data Type
Input on object	ccrzPricingTiersc	Text Area (Long) (32766)
Input or output with API (with SZ_XL)	pricingTiers	String

#### Product

The product assigned a price in the price list.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or larger)	product	ID
Input or output with API (with <b>SZ_M</b> or larger)	productR	Map <string, object="">, which contains the following ccrz_E_Product_c fields:  • sku</string,>

#### Recurring Price

Whether the price assigned in this price list item is recurring (selected) or the upfront price (not selected) in a subscription.

Usage	Field Name	Data Type
Input on object	ccrzRecurringPricec	Checkbox
Input or output with API (with SZ_S)	pricingTiers	Boolean

#### Start Date

The date when the price list item is valid.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with <b>SZ_L</b> or larger)	startDate	Date

#### SubProdTerm

The subscription term that the price list item applies to.

Usage	Field Name	Data Type
Input on object	ccrzSubProdTermc	Lookup Relationship (ccrz_E_SubProdTerm_c)
Input or output with API (with <b>SZ_M</b> or larger)	subProdTerm	ID

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Unit Of Measure	ccrzUnitOfMeasurec	Text (255)

SEE ALSO:

Salesforce Help Manage Prices for Storefront Products with Price Lists

# ccrz\_\_E\_Product\_\_c

Represents a product record for the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiProduct

**Field sizing:** To specify which fields the API returns for each product record, request a specific data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

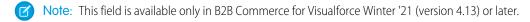
### **Fields**

### Air Flag

Whether the product allows an air-based shipping option. To implement this shipping option:

- 1. Define a shipping rate for products with air-based shipping. See Specify Shipping Rates for a Product.
- 2. Ensure that you allow air-based shipping options during checkout. By default, the Checkout page provides an air-based shipping option only when the cart contains a product that has Air Flag enabled. To customize how the Checkout page provides shipping options, override the default ccrz.cc\_api\_ShippingAndHandling.getShippingOptions extension point method.

You can also show a product's shipping information in a page section on the Product Detail page.



Usage	Field Name	Data Type
Input on object	ccrzGroundFlagc	Checkbox
Input or output with API (with SZ_XL)	groundFlag	Boolean

#### Alternate Name

An optional longer name that, if specified, takes precedence over the standard Product Name field.

Usage	Field Name	Data Type
Input on object	ccrzAlternateNamec	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	alternateName	String

### Average Rating

By default, the managed package doesn't use this field, and doesn't provide a rating system. To use product ratings, integrate an external rating service.

Usage	Field Name	Data Type
Input on object	ccrzAverageRatingc	Formula (Number)
Input or output with API (with <b>SZ_L</b> or larger)	averageRating	Decimal

### Cooler Pak Flag

A shipping option for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzCoolerpakFlagc	Checkbox
Input or output with API (with SZ_XL)	coolerpakFlag	Boolean

### Dry Ice Flag

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzDryiceFlagc	Checkbox
Input or output with API (with <b>SZ_XL</b> )	dryiceFlag	Boolean

### Dry Ice Weight

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzDryiceWeightc	Number (12, 2)
Input or output with API (with SZ_XL)	dryiceWeight	Decimal

### Employment Level

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzEmployment_Levelc	Picklist
Input or output with API (with <b>SZ_XL</b> )	employmentLevel	String

#### End Date

The last day that the product is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrz_EndDatec	Date
Input or output with API (with <b>SZ_L</b> or larger)	endDate	Date

### Exclude From Product Index

Don't build a product index record for this product. The product isn't shown in results on the Product List page, and doesn't appear in the category tree. The product still has a Product Detail page, and you can link to the product from a promotion or a Related Products page section.



Note: This field is available only in B2B Commerce for Visualforce Spring '20 (version 4.12) or later.

Usage	Field Name	Data Type
Input on object	ccrz_ExcludeFromProductIndex_c	Checkbox
Input or output with API	The API doesn't return data for this field.	

#### Filter Data

The name of a spec definition and the product's spec value, joined by a vertical bar character. This value is specified automatically when the product spec index is refreshed.

Usage	Field Name	Data Type
Input on object	ccrzFilterDatac	Text Area (Long) (32768)
Input or output with API (with <b>SZ_XL</b> )	filterData	String

### Ground Flag

Whether the product allows a ground-based shipping option. To implement this shipping option:

• Define a shipping rate for products with ground-based shipping. See Specify Shipping Rates for a Product

You can also show a product's shipping information in a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzGroundFlagc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_XL</b> )	groundFlag	Boolean

### Hazardous Flag

A shipping option for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzHazardousFlagc	Checkbox
Input or output with API (with SZ_XL)	hazardousFlag	Boolean

### Hazardous Outside48 Flag

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_HazardousOutside48Flag_c	Checkbox
Input or output with API (with <b>SZ_XL</b> )	hazardousOutside48Flag	Decimal

### Inventory Type

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzInventoryTypec	Picklist
Input or output with API (with <b>SZ_L</b> or larger)	inventoryType	String

### Lead Time

Delivery lead time for the product.

Usage	Field Name	Data Type
Input on object	ccrzLeadTimec	Number (18, 0)
Input or output with API (with <b>SZ_XL</b> )	leadTime	Integer

### LongDescRT

A longer description for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzLongDescRTc	Text Area (Rich) (5000)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_L</b> or larger)	longDesc	String

### Number of Reviews

By default, the managed package doesn't use this field, and doesn't provide a rating system. To use product ratings, integrate an external rating service.

Usage	Field Name	Data Type
Input on object	ccrzNumberOfReviewsc	Roll-Up Summary (COUNT ccrz_E_Review_c)
Input or output with API (with SZ_XL)	numberOfReviews	Integer

### Overnight Flag

A shipping option for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzOvernightFlagc	Checkbox
Input or output with API (with <b>SZ_XL</b> )	overnightFlag	Boolean

### Parent Product

Returned only when you include ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true in the input map. Used for implementations of Set Up Attribute-Based Products

### Primary Attribute

See Set Up Attribute-Based Products

Usage	Field Name	Data Type
Input on object	ccrzPrimaryAttrc	Lookup Relationship (ccrz_E_Attribute_c)
Input or output with API (with <b>SZ_M</b> or larger)	primaryAttr	ID

### Product ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzProductIdc	Text (128)
Input or output with API (with <b>SZ_XL</b> )	productId	String

### Product Index Status

The status of the product's associated product index records.

Usage	Field Name	Data Type
Input on object	ccrzProductIndexStatusc	Text (255)
Input or output with API	The API doesn't return data for this field.	

### Product Name

The name that buyers see for the product on your storefront.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

### Product Status

The product's status in your storefront catalog, which determines whether buyers can see the product and add it to a cart.

Usage	Field Name	Data Type
Input on object	ccrzProductStatusc	Picklist
Input or output with API (with <b>SZ_S</b> or larger)	productStatus	String

### Product Type

The type of product, which determines its relationship with other products and how the product appears on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzProductTypec	Picklist
Input or output with API (with <b>SZ_S</b> or larger)	productType	String

### Product Weight

A shipping option for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzProductWeightc	Number (12, 2)
Input or output with API (with <b>SZ_XL</b> )	productWeight	Decimal

### Quantity per Unit

The product's purchasable quantities.

Usage	Field Name	Data Type
Input on object	ccrzQuantityperunitc	Number (12, 6)
Input or output with API (with <b>SZ_L</b> or larger)	quantityperunit	Decimal

#### Required Item Dialog Text

Text to show in a window when a buyer adds this product to the cart, but the product requires other items to function correctly.

Usage	Field Name	Data Type
Input on object	ccrz_RequiredItemDialogText_c	Text Area (Long) (2000)
Input or output with API (with <b>SZ_XL</b> )	requiredItemDialogText	String

### Review Flag

By default, the managed package doesn't use this field, and doesn't provide a rating system. To use product ratings, integrate an external rating service.

Usage	Field Name	Data Type
Input on object	ccrzReviewFlagc	Checkbox
Input or output with API (with <b>SZ_XL</b> )	reviewFlag	Boolean

### Secondary Attribute

See Set Up Attribute-Based Products

### SEO Description

Textforthe content attribute of the <meta name="description"> and <meta property="og:description"> tags in the <head> of the bot-enabled Product Detail page. This description appears in external search engine results.

Usage	Field Name	Data Type
Input on object	ccrzSEODescriptionc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	SEODescription	String

### SEO ID

A unique, URL-safe string (up to 255 characters) for the product's friendly URL path.



Tip: The SEO ID field doesn't support the following special characters:

!	*	1	(	)	@	&	
---	---	---	---	---	---	---	--

;	:	+	=	\$	,	
/	?	%	#	[	]	

Usage	Field Name	Data Type
Input on object	ccrz_SEOId_c	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	SEOId	String

### SEO Keywords

A unique, URL-safe string (up to 255 characters) for the product's friendly URL path.

Usage	Field Name	Data Type
Input on object	ccrzSEOKeywordsc	Text (150)
Input or output with API (with <b>SZ_L</b> or larger)	SEOKeywords	String

#### SEO Title

A value (up to 255 characters) that appears in the <title> in the <head> of the bot-enabled Product Detail page.



Note: The title appears in external search engine results, the browser's tab or window title, and bookmarks.

Usage	Field Name	Data Type
Input on object	ccrzSEOTitlec	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	SEOTitle	String

### Service Flag

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzServiceFlagc	Checkbox
Input or output with API (with <b>SZ_XL</b> )	serviceFlag	Boolean

### Ship Separately

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzShipSeparatelyc	Checkbox
Input or output with API (with SZ_XL)	shipSeparately	Boolean

### Shipped Individually

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_ShippedIndividually_c	Checkbox
Input or output with API (with <b>SZ_XL</b> )	shippedIndividually	Boolean

### Shipping Weight (lbs)

A shipping option for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzShippingWeightc	Number (12, 2)
Input or output with API (with SZ_XL)	shippingWeight	Decimal

#### ShortDescRT

A short description (up to 2,000 characters) for the product.



Note: The short description appears by default throughout your storefront, including:

- On the Product Detail page
- When the product is a result on the Product List page
- When the product is shown in the Featured Products or Spotlight Products widget on the Home page

Usage	Field Name	Data Type
Input on object	ccrzShortDescRTc	Text Area (Rich) (2000)
Input or output with API (with <b>SZ_M</b> or larger)	shortDesc	String

### SKU

A unique stock unit ID for the product in your inventory system.



- Avoid 15- or 18-digit alphanumeric values for a SKU. This format matches the standard Salesforce record ID format, which can result in unexpected behavior on the storefront.
- The SKU field doesn't support the following special characters:

!	*	ı	(	)	@	&
.,	:	+	=	\$	,	
/	?	%	#	[	]	

Usage	Field Name	Data Type
Input on object	ccrzSKUc	Text (100)
Input or output with API (with <b>SZ_S</b> or larger)	SKU	String

### Start Date

The first day that the product is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with <b>SZ_S</b> or larger)	endDate	Date

### Storefront

The storefront where the product is available.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Picklist (Multi-select)
Input or output with API (with <b>SZ_S</b> or larger)	storefront	Date

### Supersede Product

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzSupersedeProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_L</b> or larger)	supersedeProduct	ID

### Tax Rate ID

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzTaxRateIdc	Text (128)
Input or output with API (with <b>SZ_L</b> or larger)	taxRateId	String

### Taxable

Whether the product is eligible for tax calculation during checkout.

Usage	Field Name	Data Type
Input on object	ccrzTaxablec	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	taxable	Boolean

### Tertiary Attribute

See Set Up Attribute-Based Products

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Availability Message	ccrzAvailabilityMessagec	Text (85)
Available Subscription Frequencies	ccrz_Available_Subscription_Frequencies_c	Picklist (Multi-select)
Industry	ccrzIndustryc	Picklist
Is Subscription Auto Renewal	ccrz_Is_Subscription_Auto_Renewalc	Checkbox
Is Subscription Available	ccrz_Is_Subscription_Available_c	Checkbox
Is Subscription Only	ccrzIs_Subscription_Onlyc	Checkbox
LongDesc	ccrz_LongDescc	Text Area (Long) (5000)
Product Index Is Current	ccrzProductIndexIsCurrentc	Checkbox
Sequence	ccrzSequencec	Number (8, 0)
ShortDesc	ccrzShortDescc	Text Area (Long) (2000)
Subscription Disclaimer	ccrz_Subscription_Disclaimer_c	Text Area (Long) (32768)
Subscription Duration	ccrz_Subscription_Duration_c	Number (18, 0)
Subscription Frequency	ccrz_Subscription_Frequency_c	Number (4, 0)

Field Label	Field Name	Data Type
Unit of Measure	ccrzUnitOfMeasurec	Picklist
View in Portal Site	ccrzPortalSiteURLc	Formula (Text)

## Fields Returned Only by an API Call

The ccrz.ccApiProduct.fetch method returns the following fields but the fields don't have a corresponding input on the ccrz E Product c object.

#### price

Decimal returned with **SZ\_S** or larger, and returned only when you include ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true in the input map. More pricing data is returned in the ccrz.ccApiProduct.PRODUCTPRICINGDATA key.

### showNewSubscriptionSelection

Boolean returned with **SZ\_S** or larger, and returned only when you include ccrz.ccApiProduct.PARAM INCLUDE\_PRICING => true in the input map.

### **Related Lists**

A record of the ccrz\_E\_Product\_\_c object can have multiple related lists that relate the product to other types of records, such as product media or composite products. The ccrz.ccApiProduct.fetch method can return data from these related records, depending on the requested data size in the input map.

The reference for each related list indicates which data size the list is returned with by default. You can also use the ccrz.ccApi.SZ\_REL flag in your input map to request a particular list, regardless of requested data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'CompositeProducts__r'}
}
```

### compositeProductsS

List<Map<String, Object>> ofccrz E CompositeProduct c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	CompositeProductsr

### EProductGuidesS

List<Map<String, Object>> of ccrz E ProductGuide c.

Consideration	Value
Default data size returned with	SZ_L or larger

Consideration	Value
ccrz.ccApi.SZ_REL request value	E_ProductGuidesr

### **EProductMedias**

List<Map<String, Object>> Ofccrz E ProductMedia c.

Consideration	Value
Default data size returned with	SZ_M or larger
ccrz.ccApi.SZ_REL request value	E_ProductMediasr

### **EProductTabs**

List<Map<String, Object>> ofccrz E ProductTab c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	E_ProductTabsr

### productInventoryItems

List<Map<String, Object>> ofccrz E ProductInventoryItem c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	Product_Inventory_Itemsr

### productSpecIndicies

List<Map<String, Object>> ofccrz\_E\_ProductSpecIndex\_c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	Product_Spec_Indiciesr

### productSpecs

List<Map<String, Object>> of ccrz E ProductSpec c.

Consideration	Value
Default data size returned with	SZ_L or larger
ccrz.ccApi.SZ_REL request value	Product_Specsr

#### subProdTerms

List<Map<String, Object>> of ccrz E SubProdTerm c.

Consideration	Value
Default data size returned with	SZ_M or larger
ccrz.ccApi.SZ_REL request value	SubProdTermsr

### SEE ALSO:

Salesforce Help Create a Product for Your Storefront
Salesforce Help Specify SEO Metadata for Products and Categories

# ccrz\_\_E\_ProductCategory\_\_c

Represents the assignment of a product to a category.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiCategory

**Fetch sizing:** The ccrz.ccApiCategory.fetch method returns the productCategoriesS related list when you request at least a large data size for the ccrz.ccApiCategory.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'Product_Categories__r'}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

## **Fields**



Note: On a storefront, a category can show at most 2,500 products. If a category has more than 2,500 products assigned to it, only the first 2,500 products are shown.

### Category

The category assigned to the product.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Master-Detail Relationship (ccrz_E_Category_c)
Input or output with API (with any data size)	category	ID

### End Date

The last day that the product's category assignment is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	endDate	Date

### Product

The product with the assigned category.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Product_c)
Input or output with API (with any data size)	product	ID

### Product Category Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzProductCategoryIdc	Text (128)

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

### ProductCatAutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

### Sequence

Order of the product within the category, relative to other products assigned to the same category. Lower values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	sequence	Integer

### Start Date

The first day that the product's category assignment is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	startDate	Date

### Canonical Path

Whether the assigned category is the authoritative category for search engine optimization. For usage, see <a href="https://help.salesforce.com/articleView?id=b2b\_commerce\_seo\_product\_category.htm">https://help.salesforce.com/articleView?id=b2b\_commerce\_seo\_product\_category.htm</a>.

Usage	Field Name	Data Type
Input on object	ccrzIsCanonicalPathc	Checkbox
Input or output with API (with any data size)	isCanonicalPath	Boolean

# ccrz\_\_E\_ProductGuide\_\_c

Represents a product guide used for a dynamic kit.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiProduct

**Fetch sizing:** The ccrz.ccApiProduct.fetch method returns the EProductGuidesS related list when you request at least a large data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'E_ProductGuides__r'}
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

### **Fields**

#### Display Type

Whether a buyer can select one or many products in the group and whether a buyer can modify quantities:

#### Single-Select

A buyer can select only one product from a group, and can't modify the quantity of the selected product before checkout.

### Single-Select Quantity

A buyer can select only one product from a group, but can modify the quantity of the selected product before checkout.

### Multi-Select

A buyer can select multiple products from a group, and can't modify quantities of selected products before checkout.

### **Multi-Select Quantity**

A buyer can select multiple products from a group, but can modify quantities of selected products before checkout.

Usage	Field Name	Data Type
Input on object	ccrzDisplayTypec	Picklist
Input or output with API (with any data size)	displayType	String

#### Product

The dynamic kit that the product guide applies to.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Productc)
Input or output with API (with any data size)	product	ID

### Product Guide Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

### Product Guide Auto Number

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzProductGuideIdc	Text (10)
Input or output with API (with any data size)	productGuideId	String

### Related Product Group

The related product group that the product guide applies to.

Usage	Field Name	Data Type
Input on object	ccrzRelatedProductGroupc	Lookup Relationship (ccrz_E_RelatedProductGroup_c)
Input or output with API (with any data size)	relatedProductGroup	ID

### Required

Whether a buyer must select a product from the product group.

Usage	Field Name	Data Type
Input on object	ccrzRequiredc	Checkbox
Input or output with API (with any data size)	required	Boolean

### Sequence

The order of the product guide among all product guides shown on a dynamic kit's Product Detail page. Lower Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (18, 0)
Input or output with API (with any data size)	sequence	Integer

SEE ALSO:

Salesforce Help Create a Dynamic Kit

# ccrz\_\_E\_ProductIndex\_\_c

Represents a flat data structure for one product assigned to one category and one locale. A product index record includes the product's pricing information and searchable data, such as SKU, short and long description, and SEO keywords. B2B Commerce for Visualforce references product index records for quickly populating content on the Product List page version 2.0.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiProductIndex

**Field sizing:** To specify which fields the API returns for each product index record, request a specific data size for the ccrz.ccApiProductIndex.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProductIndex.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

### **Fields**

### Active

Whether this product index record is up-to-date and available for the Product List page to reference. This field supports product index batch jobs. Records that the Product List page currently uses remain active while the batch job creates updated records.

Usage	Field Name	Data Type
Input on object	ccrzActivec	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	active	Boolean

#### Category

The category that the product is assigned to.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	category	ID

### Category End Date

The last day that the category is available on the storefront.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzCategoryEndDatec	Date
Input or output with API (with <b>SZ_L</b> or larger)	categoryEndDate	Date

### Category Start Date

The first day that the category is available on the storefront.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzCategoryStartDatec	Date
Input or output with API (with <b>SZ_M</b> or larger)	categoryStartDate	Date

### CC Product Index Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfid	String

### Filter Data

A spec and product spec value.

Usage	Field Name	Data Type
Input on object	ccrzFilterDatac	Text Area (Long) (32768)
Input or output with API	The API doesn't return data for this field.	

### Index Currency

The currency code for the index price. When you use a primary index for all currencies, this field's value is GLOBAL and doesn't specify a currency.

Usage	Field Name	Data Type
Input on object	ccrzIndexCurrencyc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	indexCurrency	String

#### Index Price

The lowest price for the product, based on all price lists assigned to the product. This field is used only for sorting on the Product List Page, and doesn't apply to any other pricing functionality.

Usage	Field Name	Data Type
Input on object	ccrzIndexPricec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	indexPrice	String

#### Index Type

UOVBUkNI, the Base64-encoded value for the string Search.

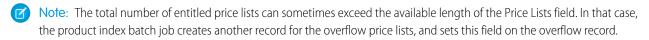


Warning: If you extend this field to support other values, make sure that you leave the default value UOVBUkNI unchanged.

Usage	Field Name	Data Type
Input on object	ccrzIndexTypec	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	indexType	String

### Last Index

Whether this product index record is the final record created for all the price lists that apply to a product.



Usage	Field Name	Data Type
Input on object	ccrzLastIndexc	Checkbox
Input or output with API (with <b>SZ_L</b> or larger)	lastIndex	Boolean

#### Locale

The locale that the product index record applies to.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with <b>SZ_L</b> or larger)	locale	String

### Long Description

A long description for the product.

Usage	Field Name	Data Type
Input on object	ccrz_LongDescription_c	Text Area (Long) (5000)
Input or output with API	The API doesn't return data for this field.	

### Price Lists

Price list IDs, separated by a space, that are assigned to the product.

Usage	Field Name	Data Type
Input on object	ccrzPriceListsc	Text Area (Long) (131072)
Input or output with API (with <b>SZ_L</b> or larger)	priceLists	String

### Product

The product that the product index record applies to.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with <b>SZ_S</b> or larger)	product	ID

### Product Category

The category assignment for the product. The Product List page uses this reference to sort products by the Sequence value of each product's CC Product Category related record.

Usage	Field Name	Data Type
Input on object	ccrzProductCategoryc	Lookup Relationship (ccrz_E_ProductCategory_c)
Input or output with API (with <b>SZ_M</b> or larger)	productCategory	ID

### Product Category End Date

The last day that the product's category assignment is active on the storefront.

Ø

Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzProductCategoryEndDatec	Date
Input or output with API (with <b>SZ_L</b> or larger)	productCategoryEndDate	Date

### Product Category Sequence

Order of the product within the category, relative to other products assigned to the same category. Lower values display first.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzProductCategorySequencec	Number (8, 0)
Input or output with API (with <b>SZ_M</b> or larger)	productCategorySequence	Integer

### Product Category Start Date

The first day that the product's category assignment is active on the storefront.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrz_ProductCategoryStartDate_c	Date
Input or output with API (with <b>SZ_L</b> or larger)	productCategoryStartDate	Date

### Product End Date

The last day that the product is available on the storefront.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzProductEndDatec	Date
Input or output with API (with <b>SZ_L</b> or larger)	productEndDate	Date

### Product Name

The product's name, localized for the product index record's locale.

Usage	Field Name	Data Type
Input on object	ccrzProductNamec	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	productName	String

### Product Start Date

The first day that the product is available on the storefront.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzProductStartDatec	Date
Input or output with API (with <b>SZ_M</b> or larger)	productStartDate	Date

### Product Status

The product's visibility on the storefront. For supported values, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_create.htm.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzProductStatusc	Text (255)
Input or output with API (with <b>SZ_L</b> or larger)	productStatus	String

### SEO Keywords

Comma-separated list of the product's search keywords. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_seo\_product\_category.htm.

Usage	Field Name	Data Type
Input on object	ccrzSEOKeywordsc	Text (255)
Input or output with API	The API doesn't return data for this field.	

### Short Description

The product's short description, localized for the product index record's locale.

Usage	Field Name	Data Type
Input on object	ccrzShortDescriptionc	Text Area (Rich) (2000)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_L</b> or larger)	shortDescription	String

#### SKU

The product's SKU, localized for the product index record's locale.

Usage	Field Name	Data Type
Input on object	ccrzSKUc	Text (100)
Input or output with API (with <b>SZ_L</b> or larger)	SKU	String

#### Storefront

The storefront where the product is available.



Note: This field is available only in B2B Commerce for Visualforce Summer '19 (version 4.11) or later.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontc	Picklist (Multi-select)
Input or output with API (with <b>SZ_L</b> or larger)	storefront	String

### SEE ALSO:

ccrz.ccProductIndexBuilder

Salesforce Help Maintain Product Index Records

# ccrz\_\_E\_ProductInventoryItem\_\_c

Represents the available inventory quantity for a product.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: The API doesn't directly query records of this object.

Instead, the ccrz.ccApiProduct.fetch return data includes the productInventoryItems related list when the ccrz.ccApiAProduct.ENTITYNAME input map key requests a large data size:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'Product_Inventory_Items__r'}
}
```

Field sizing: Each record returned in the related list always returns the same fields, regardless of requested data size.

### **Fields**

### Availability Message RT

A message that generically describes the product's availability. This message can appear on the Product Detail page instead of the product's specific quantity that's available. For usage, see

https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_inventory.htm.

Usage	Field Name	Data Type
Input on object	ccrz_AvailabilityMessageRT_c	Text Area (Rich) (256)
Input or output with API (with any data size)	availabilityMessage	String

### Inventory Location Code

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_AvailabilityMessageRT_c	Text (50)
Input or output with API (with any data size)	inventoryLocationCode	String

### Product Item

The product that the inventory information applies to.

Usage	Field Name	Data Type
Input on object	ccrzProductItemc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with any data size)	productItem	ID

### ProductInventoryItem Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

### Qty Available

The specific inventory quantity that's available for the product.

Usage	Field Name	Data Type
Input on object	ccrzQtyAvailablec	Number (18, 0)
Input or output with API (with any data size)	qtyAvailable	Integer

### Status

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_Status_c	Picklist
Input or output with API (with any data size)	status	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Availability Message	ccrz_AvailabilityMessagec	Text Area (255)

# ccrz\_\_E\_ProductItemI18N\_\_c

Represents an internationalized product record for a specific locale.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The API doesn't return fields on the ccrz\_E\_ProductI18N\_\_c record directly. When the ccrz.ccApiProduct.fetch method's input map includes the ccrz.ccApiProduct.PRODUCTLOCALE key, the method:

- 1. References ccrz E ProductI18N c records for the specified locale.
- 2. Returns ccrz E Product c records, translated with the localized data.

### **Fields**

### Alternate Name

An optional longer name that, if specified, takes precedence over the standard Product Item I18N Name field.

Usage	Field Name	Data Type
Input on object	ccrzAlternateNamec	Text (255)
Input or output with API (with any data size)	Not applicable	

### Locale

A supported storefront locale.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with any data size)	Not applicable	

### LongDescRT

A longer localized description for the product, which you can show on the storefront by using a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrz_LongDescRT_c	Text Area (Rich) (5000)
Input or output with API (with any data size)	Not applicable	

### Product Item

The product to localize.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrzE_Productc)
Input or output with API (with any data size)	Not applicable	

### Product Item I18N Name

The localized product name for the locale.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	Not applicable	

### SEO ID

A unique, URL-safe string (up to 255 characters) for the product's localized friendly URL path. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_seo\_product\_category.htm.



Tip: The SEO ID field doesn't support the following special characters:

!	*	1	(	)	@	&	
;	:	+	=	\$	,		
/	?	%	#	[	]		

Usage	Field Name	Data Type
Input on object	ccrzSEOIdc	Text (255)

Usage	Field Name	Data Type
Input or output with API (with any data size)	Not applicable	

### ShortDescRT

A short description (up to 2,000 characters) for the product.



Note: The short description appears by default throughout your storefront, including:

- On the Product Detail page
- When the product is a result on the Product List page
- When the product is shown in the Featured Products or Spotlight Products widget on the Home page

Usage	Field Name	Data Type
Input on object	ccrzShortDescRTc	Text Area (Rich) (2000)
Input or output with API (with any data size)	Not applicable	

### SKU

The value of the ccrz SKU c field from the source Product Item.

Usage	Field Name	Data Type
Input on object	ccrzSKUc	Formula (Text)
Input or output with API (with any data size)	Not applicable	

### Unit of Measure

Localized unit of measure.

Usage	Field Name	Data Type
Input on object	ccrzUnitOfMeasurec	Picklist
Input or output with API (with any data size)	Not applicable	

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
LongDesc	ccrz_LongDesc_c	Text Area (Long) (5000)
ShortDesc	ccrzShortDescc	Text Area (Long) (2000)

### SEE ALSO:

Salesforce Help Localize Products for an Internationalized Storefront
Salesforce Help Select Which Locales and Currencies Your Storefront Supports
Salesforce Help Specify SEO Metadata for Products and Categories

# ccrz\_\_E\_ProductMedia\_\_c

Represents an image or documentation file for a product.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiProduct

**Fetch sizing:** The ccrz.ccApiProduct.fetch method returns the EProductMedias related list when you request at least a medium data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'E_ProductMedias_r'}
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

### **Fields**

### AltMessage

The value of an image's alt attribute in the page HTML. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image.htm.

Usage	Field Name	Data Type
Input on object	ccrzAltMessagec	Text (100)
Input or output with API (with any data size)	altMessage	String

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with any data size)	enabled	Boolean

### End Date

The last day when the product media is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	endDate	Date

### File Path

The path to the image file from the root of a static resource's ZIP file. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image\_static\_resource.htm.

Usage	Field Name	Data Type
Input on object	ccrzFilePathc	Text (128)
Input or output with API (with any data size)	filePath	String

### Locale

The storefront locale that the image is localized for. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image\_static\_resource.htm.

Usage	Field Name	Data Type
Input on object	ccrz_Localec	Text (10)
Input or output with API (with any data size)	locale	String

#### Media Type

Whether the media is a product image, product image thumbnail, or product search image. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image.htm.



**Note:** You can also use the Media Type field when showing custom document types on the Product Detail page. For more information, see https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_product\_detail\_documents\_custom.htm.

Usage	Field Name	Data Type
Input on object	ccrzMediaTypec	Picklist
Input or output with API (with any data size)	mediaType	String

### Product

The product that the media record belongs to.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrzE_Productc)
Input or output with API (with any data size)	product	ID

#### Product Media Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

### Product Media ID

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	ccrzProductMediaIdc	Text (128)
Input or output with API (with any data size)	sfdcName	String

### Product Media Source

Whether the source for the image is a static resource, content delivery network (CDN), or file attachment. For usage, see:

- https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image.htm
- https://help.salesforce.com/articleView?id=b2b\_commerce\_media\_source.htm

Usage	Field Name	Data Type
Input on object	ccrzProductMediaSourcec	Picklist
Input or output with API (with any data size)	productMediaSource	String

### Product\_Description

A tooltip string that displays when a buyer hovers over an image.

Usage	Field Name	Data Type
Input on object	ccrzProductDescriptionc	Text Area (Long) (2000)
Input or output with API (with any data size)	productDescription	String

### Sequence

The order of the product image, when Media Type is Alternate Image Thumbnail, among the product's other alternate thumbnail images. Lower sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	sequence	Integer

### Start Date

The first day when the product media is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date

Usage	Field Name	Data Type
Input or output with API (with any data size)	startDate	Date

#### Static Resource Name

The name of the static resource that contains the image. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image\_static\_resource.htm.

Usage	Field Name	Data Type
Input on object	ccrzStaticResourceNamec	Text (255)
Input or output with API (with any data size)	staticResourceName	String

#### URI

The fully qualified URL to the image file from a CDN. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_product\_image\_uri.htm.

Usage	Field Name	Data Type
Input on object	ccrzURIc	Text (255)
Input or output with API (with any data size)	uri	String

### SEE ALSO:

Salesforce Help Guidelines for Product Images for B2B Commerce for Visualforce Salesforce Help Source Options for Storefront Media

# ccrz\_E\_ProductSpec\_\_c

Represents the value of a product's specification, such as Stainless Steel for a spec named Material.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

**Class used with:** productSpecs field of the ccrz.ccApiProduct.PRODUCTLIST key returned fromccrz.ccApiProduct.fetch

**Field sizing:** By default, productSpecs is returned when the input data for ccrz.ccApiProduct.fetch specifies a large data size for ccrz.ccApiProduct.ENTITYNAME:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ\_REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'Product_Specs__r'}
    }
}
```

Each product spec in productSpecs always includes the same fields, regardless of requested data size.

## **Fields**

#### Product Item

The product that the spec value applies to.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Productc)
Input or output with API	product	ID

### Product Spec Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API	sfdcName	String

#### ProductID

Junction of the product and spec definition that the spec value applies to. Combines the Product Item and Spec fields, separated by a hyphen character.

Usage	Field Name	Data Type
Input on object	ccrzProductIDc	Formula (Text)
Input or output with API	productID	String

#### Spec

The specification that the value applies to, such as Material.

Usage	Field Name	Data Type
Input on object	ccrzSpecc	Master-Detail Relationship (ccrz_E_Specc)
Input or output with API	spec	ID

### SpecValue

Value of the product's spec, such as Stainless Steel.



Tip:

- The Spec Value field is case-insensitive. If the spec's filter type is Checkbox, the Feature Filtering widget considers any case variation of the same string to be the same spec value. For example, the values <code>Commercial</code>, <code>commercial</code>, and <code>COMMERCIAL</code> are all counted as the same value.
- If the spec's filter type is Slider:
  - Make sure that all spec values you create for that spec are numbers with consistent decimal places. For example, the range of values 1.5, 2.0, and 3 isn't valid—instead of 3, enter 3.0.
  - Avoid specifying negative numbers for any spec values, which can break the default slider functionality.

Usage	Field Name	Data Type
Input on object	ccrzSpecValuec	Text (255)
Input or output with API	specValue	String

## SEE ALSO:

ccrz\_\_E\_Spec\_\_c

Salesforce Help Define Product Specs and Create Product List Page Filters
Salesforce Help Show Product Specs on the Product Detail Page

## ccrz\_E\_ProductSpecIndex\_c

Represents an instance of a single spec value for a particular product, cached for quickly retrieving spec values on the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiSpec

**Field sizing:** To specify which fields the API returns for each product spec index record, request a specific data size for the ccrz.ccApiSpec.PSI\_ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSpec.PSI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
    }
}
```



**Note**: The ccrz.ccApiProduct.fetch method can also return product spec index records from a subquery. For more information, see Other API Usage.

The reference for each field indicates which data size the field is returned with.

## **Fields**

### Product

The product that the indexed spec value applies to.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or larger)	product	ID

## Product Spec Index

Name of the product spec index record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_M</b> or larger)	sfdcName	String

## ProductSpecIndexId

An external ID that concatenates a product and spec IDs.

Usage	Field Name	Data Type
Input on object	ccrzProductSpecIndexIdc	Text (50)
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

## Spec

The spec that the indexed spec value applies to, such as Material.

Usage	Field Name	Data Type
Input on object	ccrzSpecc	Master-Detail Relationship (ccrz_E_Specc)
Input or output with API (with <b>SZ_S</b> or larger)	spec	ID
Other input or output with API (with <b>SZ_M</b> or larger)	specR	Map <string, object="">, which specifies other spec information, including locale and display name.</string,>

## SpecValue

The indexed value of the spec, such as Stainless Steel.

Usage	Field Name	Data Type
Input on object	ccrzSpecValuec	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	specValue	String

## Other API Usage

**Class used with:** productSpecIndiciesS field of the ccrz.ccApiProduct.PRODUCTLIST key returned fromccrz.ccApiProduct.fetch

**Field sizing:** By default, productSpecIndiciesS is returned when the input data for ccrz.ccApiProduct.fetch specifies a large data size for ccrz.ccApiProduct.ENTITYNAME:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'Product_Spec_Indicies__r'}
}
```

that

**Note**: Did you notice that productSpecIndiciesS and Product\_Spec\_Indicies\_\_r are misspelled? Let's agree that sometimes the best qualities of the things we love are the imperfections that only we can appreciate.

SEE ALSO:

ccrz\_\_E\_Spec\_\_c

Salesforce Help Define Product Specs and Create Product List Page Filters

Salesforce Help Refresh Product Spec Index Records

## ccrz\_\_E\_ProductTab\_\_c

Represents custom rich text content to display as a page section on the Product Detail page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiProduct

**Fetch sizing:** The ccrz.ccApiProduct.fetch method returns the EProductTabs related list when you request at least a large data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

To request this related list even with a smaller data size, add the ccrz.ccApi.SZ REL key to your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => New List<String>{'E_ProductTabs__r'}
    }
}
```

Each record returned in this list always includes the same fields, regardless of the requested data size.

## **Fields**

### ContentRT

Rich text-formatted custom product content to show on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzContentRTc	Text Area (Rich) (32000)
Input or output with API (with any data size)	content	String

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with any data size)	enabled	Boolean

#### End Date

The last day when the product tab is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrz_EndDatec	Date
Input or output with API (with any data size)	endDate	Date

## Locale

The storefront locale where you want the content to be available, such as en US.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with any data size)	locale	String

## Product

The product that the custom content applies to.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Productc)
Input or output with API (with any data size)	product	ID

### Product Tab Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

## ProductTab ID

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	ccrzProductTabIdc	Auto Number
Input or output with API (with any data size)	productTabId	String

#### Sequence

The order of the tab among other custom product tabs assigned to the product. Lower Sequence values appear first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)

Usage	Field Name	Data Type
Input or output with API (with any data size)	sequence	Integer

#### Start Date

The first day when the product tab is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	startDate	Date

#### Tab

A key for referencing the custom content in a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzTabc	Picklist
Input or output with API (with any data size)	tab	String

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Content	ccrzContentc	Text Area (Long) (32000)

SEE ALSO:

Salesforce Help Show Custom Content on the Product Detail Page

# ccrz\_\_E\_Promo\_c

Represents a promotion record for a storefront.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: ccrz.ccApiPromotion

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

## **Fields**

## Category

A category that the promotion links to when Link Type is Category. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_category.htm.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Lookup Relationship (ccrz_E_Category_c)
Input or output with API (with any data size)	category	ID
	categoryR	Map <string, object=""> that describes the category.</string,>

### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with any data size)	enabled	Boolean

#### End Date

The last day that the promotion is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	endDate	Date

## External Link

The URL that the promotion links to when Link Type is URL. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_url.htm.

Usage	Field Name	Data Type
Input on object	ccrzExternalLinkc	URL
Input or output with API (with any data size)	externalLink	String

#### Image Source

Whether the source for the image is a static resource, content delivery network (CDN), or file attachment. For usage, see:

- https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_detail.htm
- https://help.salesforce.com/articleView?id=b2b\_commerce\_media\_source.htm

Usage	Field Name	Data Type
Input on object	ccrzImageSourcec	Picklist
Input or output with API (with any data size)	imageSource	String

### Image URI

The path to the image file from the root of the static resource's ZIP file, or the fully qualified URL to the image file from a CDN. For usage, see:

- https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_static\_resource.htm
- https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_uri.htm

Usage	Field Name	Data Type
Input on object	ccrzImageURIc	Text (128)
Input or output with API (with any data size)	imageURI	String

### Link Type

Whether the promotion links to a category, product, or URL. For valid values and use cases, see https://help.salesforce.com/articleView?id=b2b commerce promotion detail.htm.

Usage	Field Name	Data Type
Input on object	ccrzLinkTypec	Picklist
Input or output with API (with any data size)	linkType	String

## Location Display Sequence

Display order of the promotion within a group of promotions with the same Location Type.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	sequence	Integer

## Location Type

The area of a page where the promotion displays. For valid values and use cases, see https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_detail.htm.

Usage	Field Name	Data Type
Input on object	ccrzLocationTypec	Picklist
Input or output with API (with any data size)	locationType	String

#### Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

## New Window

Whether to open a new browser window for navigating to an external link. This field is valid only when Link Type is URL.

Usage	Field Name	Data Type
Input on object	ccrzNewWindowc	Checkbox
Input or output with API (with any data size)	newWindow	Boolean

## Page Location

The storefront page where the promotion displays. For valid values and use cases, see https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_detail.htm.

Usage	Field Name	Data Type
Input on object	ccrzPageLocationc	Picklist
Input or output with API (with any data size)	pageLocation	String

#### Product

A product that the promotion links to when Link Type is Product.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Lookup Relationship (ccrz_E_Product_c)
Input or output with API (with any data	product	ID
size)	productR	Map <string, object="">, which specifies other product information, including SKU and ID.</string,>

## Product Related

Whether the promotion applies to a product.

Usage	Field Name	Data Type
Input on object	ccrzProductRelatedc	Formula (Text)
Input or output with API (with any data size)	productRelated	String

#### Start Date

The first day that the promotion is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	startDate	Date

### Static Resource

The name of the static resource that contains the promotion image. For usage, see <a href="https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_static\_resource.htm">https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_static\_resource.htm</a>.

Usage	Field Name	Data Type
Input on object	ccrzStaticResourcec	Text (80)
Input or output with API (with any data size)	staticResource	String

## Storefront

The first day that the promotion is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStorefrontMSc	Picklist (Multi-Select)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### True

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzTruec	Formula (Checkbox)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Coupon	ccrzCouponc	Lookup Relationship (ccrz_E_Coupon_c)
Graphic Type	ccrzGraphic_Typec	Picklist
Long Description	ccrz_LongDescc	Text Area (Long) (1000)
New Window Property	ccrzNewWindowPropertyc	Text Area (255)
Script	ccrz_Script_c	Text Area (Long) (32768)
Short Desc	ccrz_ShortDesc_c	Text Area (255)
Splash Rotate	ccrzSplashRotatec	Checkbox

Field Label	Field Name	Data Type
Storefront	ccrzStorefrontc	Text (255)

SEE ALSO:

Salesforce Help Best Practices When Creating Promotions for Your Storefront

# ccrz\_\_E\_Promol18n\_c

Represents a localized promotion record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

The API doesn't return fields on the  $ccrz\_E\_PromoI18N\_c$  record directly. When the ccrz.ccApiPromotion.fetch method's input map includes the ccrz.ccApiPromotion.PROMOTIONLOCALE key, the method:

- 1. References ccrz\_E\_PromoI18N\_c records for the specified locale.
- 2. Returns ccrz E Promo c records, translated with the localized data.

## **Fields**

## AttachmentId

Salesforce ID of an attached image file when Image Source is Attachment. The actual image is attached to the parent ccrz E Promo c record.

Usage	Field Name	Data Type
Input on object	ccrzAttachmentIdc	Text (50)
Input or output with API (with any data size)	Not applicable	

### CC Promotion

The promotion record to localize.

Usage	Field Name	Data Type
Input on object	ccrzPromotionc	Master-Detail Relationship (ccrz_E_Promoc)
Input or output with API (with any data size)	Not applicable	

#### External Link

The locale-specific URL that the internationalized promotion links to when the parent ccrz\_E\_Promo\_\_c record's Link Type is URL.

Usage	Field Name	Data Type
Input on object	ccrzExternalLinkc	Text (255)
Input or output with API (with any data size)	Not applicable	

### Image Source

Whether the source for the internationalized promotion image is a static resource, content delivery network (CDN), or file attachment. For usage, see:

- https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_detail.htm
- https://help.salesforce.com/articleView?id=b2b\_commerce\_media\_source.htm

Usage	Field Name	Data Type
Input on object	ccrzImageSourcec	Picklist
Input or output with API (with any data size)	Not applicable	

### Image URI

The path to the image file from the root of the static resource's ZIP file, or the fully qualified URL to the image file from a CDN. For usage, see:

- https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_static\_resource.htm
- https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_uri.htm

Usage	Field Name	Data Type
Input on object	ccrzImageURIc	Text (128)
Input or output with API (with any data size)	Not applicable	

### Locale

A supported storefront locale.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (128)
Input or output with API (with any data size)	Not applicable	

### Promotion i18n Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	Not applicable	

#### Static Resource

The name of the static resource that contains the internationalized promotion image. For usage, see https://help.salesforce.com/articleView?id=b2b\_commerce\_promotion\_image\_static\_resource.htm.

Usage	Field Name	Data Type
Input on object	ccrzStaticResourcec	Date
Input or output with API (with any data size)	Not applicable	

# Deprecated Fields

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Description	ccrzDescriptionc	Text Area (Rich) (32768)

## SEE ALSO:

Salesforce Help Localize Promotions for an Internationalized Storefront

# ccrz\_\_E\_PromotionAccountGroupFilter\_\_c

Represents an account group that a promotion record includes or excludes, which targets the promotion at a specific set of users.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

**Class used with:** The API doesn't directly query records of this object.

Instead, the ccrz.ccApiPromotion.fetch method filters returned promotion records by the account group that this object specifies when the input map specifies ccrz.ccApiPromotion.FILTERED => true.

## **Fields**

### CC Account Group

The account group that the filter applies to.

Usage	Field Name	Data Type
Input on object	ccrzAccountGroupc	Lookup Relationship (ccrzE_AccountGroupc)
Input or output with API (with any data size)	Not applicable	

### CC Promotion

The promotion that the filter applies to.

Usage	Field Name	Data Type
Input on object	ccrzPromotionc	Master-Detail Relationship (ccrz_E_Promoc)
Input or output with API (with any data size)	Not applicable	

## CC Promotion Account Group Filter Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	Not applicable	

## End Date

The date when this filter is no longer active.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	Not applicable	

## Filter Type

Whether the filter includes or excludes the buyers in the specified account group.

Usage	Field Name	Data Type
Input on object	ccrzFilterTypec	Picklist
Input or output with API (with any data size)	Not applicable	

## Start Date

The date when this filter is active.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	Not applicable	

## SEE ALSO:

Salesforce Help Target a Promotion at Specific Storefront Users

# ccrz\_\_E\_PublicCache\_\_c

Represents cached data for content that's publicly available and specific to a storefront, page, and locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

Class used with: The API doesn't directly query records of this object.

 $\label{lem:corr_capi} The \verb|ccrz.ccApiPublicCache.fetch| method returns data from \verb|ccrz_E| PublicCacheContent_crecords. \\$ 

## **Fields**

## Build Group

A value that's shared by multiple public cache records to group them together as part of the same build operation. For example, sometimes building the page label cache from a batch job requires multiple batches to fully rebuild the page label cache. Such a batch job creates multiple public cache records with the same Cache Name and Build Group. By associating multiple public cache records to a single build operation, you can more easily manage all the records related to that build.

Usage	Field Name	Data Type
Input on object	ccrzBuildGroupc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Build Timestamp

Date and time for the build group, which identifies when the cache record was built. For all cache records that belong to the same build group, use the same timestamp.

Usage	Field Name	Data Type
Input on object	ccrzBuildTimestampc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Cache Label

Usage	Field Name	Data Type
Input on object	ccrzCacheLabelc	Text (255)

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Cache Name

The type of data that the record caches, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabel for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

Usage	Field Name	Data Type
Input on object	ccrzCacheNamec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### CacheId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzCacheIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### CC Public Cache Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Effective End

Date and time when the cache becomes valid.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Effective Start

Date and time when the cache is no longer valid.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Locale

Locale for the cached data. When this field is empty, the cached data isn't specific to a locale.

Usage	Field Name	Data Type
Input on object	ccrz_Localec	Text (10)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Pagename

Page that the cached data applies to. When this field is empty or all, the cached data applies to all pages.

Usage	Field Name	Data Type
Input on object	ccrzPagenamec	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## SequencePriority

The priority of which cache to return.

Usage	Field Name	Data Type
Input on object	ccrzSequencePriorityc	Number (4, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Storefront

Storefront that the cached data applies to. When this field is empty or global, the cached data applies to all storefronts.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# ccrz\_\_E\_PublicCacheContent\_\_c

Represents the content of a parent public cache record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The ccrz.ccApiPublicCache.CONTENT return key of the ccrz.ccApiPublicCache.fetch method contains the value of this object's Content field.

The API doesn't directly query this object or return other fields on this object.

## **Fields**

## Cache Content ID

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	ccrzCacheContentIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### CC Public Cache Content Name

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Content

Content for the public cache record.

Usage	Field Name	Data Type
Input on object	ccrzContentc	Text Area (Long) (130000)
Input or output with API (with any data size)	content	String

## Data ID

The managed package only uses this field internally. Your subscriber code's unit tests developed with the ccrz.ccApiTestData class can also reference this field.

Usage	Field Name	Data Type
Input on object	ccrzDataIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Parent Cache

The public cache record that the content applies to.

Usage	Field Name	Data Type
Input on object	ccrzParentCachec	Master-Detail Relationship (ccrz_E_PublicCache_c)

Usage	Field Name	Data Type
Input or output with API (with any data size)	content	String

### Sequence

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (18, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# ccrz\_\_E\_RelatedProduct\_\_c

Represents a relationship between two products, such as specifying that one product in your catalog complements or replaces another product.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiRelatedProduct

**Fetch sizing:** To specify which fields the ccrz.ccApiRelatedProduct.fetch method returns for each account record, request a specific data size for the ccrz.ccApiRelatedProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiRelatedProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

The reference for each field indicates which data size the field is returned with.

## **Fields**

## Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	enabled	Boolean

## End Date

The day when the product relationship is no longer available.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with <b>SZ_S</b> or larger)	enabled	Boolean

#### Product

The primary product that the relationship is for.

Usage	Field Name	Data Type
Input on object	ccrzProductc	Master-Detail Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or larger)	product	ID

## Related Product

The product to relate to the primary selected product.

Usage	Field Name	Data Type
Input on object	ccrzRelatedProductc	Lookup Relationship (ccrz_E_Productc)
Input or output with API (with <b>SZ_S</b> or	relatedProduct	ID
larger)	relatedProductR	Map <string, object="">thatincludes the related product's SKU.</string,>
Input or output with API (with <b>SZ_M</b> or larger)	relatedProductR	Map <string, object="">that includes the related product's SKU, product type, unit of measure, and name.</string,>

## Related Product Group

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzRelatedProductGroupc	Lookup Relationship (ccrz_E_RelatedProductGroup_c)
Input or output with API (with <b>SZ_S</b> or larger)	relatedProductGroup	ID

## Related Product ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzRelatedProductIdc	Text (128)
Input or output with API (with <b>SZ_S</b> or larger)	relatedProductId	String

## Related Product Type

The type of relationship between products. For supported values and use cases, see Create Relationships Between Products.

Usage	Field Name	Data Type
Input on object	ccrzRelatedProductTypec	Picklist
Input or output with API (with <b>SZ_S</b> or larger)	relatedProductType	String

## RelatedAutoNumber

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

## Relationship Description

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrz_RelationshipDescription_c	Text Area (Rich) (1000)

Usage	Field Name	Data Type
Input or output with API (with <b>SZ_S</b> or larger)	relationshipDescription	String

#### Sequence

The order of the related product among all the primary product's related products with the same Related Product Type.



**Note**: In general, lower Sequence values display first. When Related Product Type is set to Accessories or CrossSell, higher Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8,0)
Input or output with API (with <b>SZ_S</b> or larger)	sequence	Integer

#### Start Date

The day when the product relationship is available.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with <b>SZ_S</b> or larger)	startDate	Boolean

## **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
ShortDesc	ccrzShortDescc	Text (255)

SEE ALSO:

Salesforce Help Create Relationships Between Products

# ccrz\_\_E\_RelatedProductGroup\_\_c

This object is available in the managed package, but isn't used for any default functionality.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **API Usage**

**Class used with:** The API doesn't directly query records of this object.

## **Fields**

## GroupId

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzGroupIdc	Text (4)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Related Product Group Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# ccrz\_\_E\_Seller\_\_c

Represents a seller hosted on your storefront whose products are available for search and purchase.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiSeller

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

## **Fields**

### Account

The account associated with the seller.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Lookup Relationship (Account)
Input or output with API (with any data size)	account	ID

## Default Representative

A standard user assigned as the seller's representative. This user owns the portion of the buyer's order that the seller is responsible for fulfilling.

Usage	Field Name	Data Type
Input on object	ccrzDefaultRepc	Lookup Relationship (User)
Input or output with API (with any data size)	defaultRep	ID

## Effective End

The final date when the seller is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	effectiveEnd	Datetime

### Effective Start

The first date when the seller is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	effectiveStart	Datetime

## Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrz_Enabled_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Location

Latitude and longitude values, which B2B Commerce for Visualforce uses to determine the seller's distance from a buyer in the Seller Locator widget on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzLocationc	Geolocation
Input or output with API (with any data size)	location	Location

## Logo

URL for the seller's logo image to show on the storefront. Use https protocol.

Usage	Field Name	Data Type
Input on object	ccrz_Logoc	URL (255)
Input or output with API (with any data size)	logo	String

## Long Description

Content for the Seller Detail page.

Usage	Field Name	Data Type
Input on object	ccrzLongDescc	Text Area (Rich) (32768)

Usage	Field Name	Data Type
Input or output with API (with any data size)	longDesc	String

### Search Tokens

Keywords that complement the Seller Name and Location fields as searchable metadata to help buyers find a seller from the Seller Locator widget on the storefront.



🁔 Tip: To support buyers who search only by distance in the Seller Locator widget and don't enter any other search criteria, always include the keyword all.

Usage	Field Name	Data Type
Input on object	ccrzSearchTokensc	Text Area (Long) (32768)
Input or output with API (with any data size)	searchTokens	String

### Seller ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzSellerIdc	Text (255)
Input or output with API (with any data size)	sellerId	String

## Seller Name

Name that appears on the Seller List and Seller Detail pages.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

## Short Description

Content for the Seller List page.

Usage	Field Name	Data Type
Input on object	ccrzShortDescc	Text Area (Rich) (32768)
Input or output with API (with any data size)	shortDesc	String

### Storefront

Storefront where the seller has products available.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with any data size)	storefront	String

## Website URL

URL for the seller's external website. Include the http or https protocol.

Usage	Field Name	Data Type
Input on object	ccrzWebsiteURLc	URL (255)
Input or output with API (with any data size)	websiteURL	String

SEE ALSO:

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz\_\_E\_SellerI18N\_\_c

Represents a localized seller record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

The API doesn't return fields on the ccrz\_E\_SellerI18N\_c record directly. When the ccrz.ccApiSeller.fetch method's input map includes the ccrz.ccApiSeller.SELLERLOCALE key, the method:

1. References ccrz E SellerI18N c records for the specified locale.

2. Returns ccrz E Seller c records, translated with the localized data.

## **Fields**

## CC Seller

The seller record to localize.

Usage	Field Name	Data Type
Input on object	ccrzSellerc	Master-Detail Relationship (ccrzE_Sellerc)
Input or output with API (with any data size)	Not applicable	

### CC Seller I18N Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	Not applicable	

## Effective End

The final date when the internalized seller record is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveEndc	Date/Time
Input or output with API (with any data size)	Not applicable	

## Effective Start

The first date when the internalized seller record is active on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveStartc	Date/Time
Input or output with API (with any data size)	Not applicable	

## Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Locale

ISO code for the locale to localize for.



Note: Each locale uses the following codes for languages and regions, separated by an underscore:

- ISO 639-1 language code, such as en or ja
- ISO 3166-1 Alpha 2 country or region code, such as US or JP

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with any data size)	Not applicable	

## Logo

URL for the internationalized seller's logo image to show on the storefront. Use https protocol.

Usage	Field Name	Data Type
Input on object	ccrz_Logoc	URL (255)
Input or output with API (with any data size)	Not applicable	

### Long Description

Content for the internationalized Seller Detail page.

Usage	Field Name	Data Type
Input on object	ccrzLongDescc	Text Area (Rich) (32768)
Input or output with API (with any data size)	Not applicable	

### Search Tokens

Internationalized keywords that complement the Seller Name and Location fields as searchable metadata to help buyers find a seller from the Seller Locator widget on the storefront.



Tip: To support buyers who search only by distance in the Seller Locator widget and don't enter any other search criteria, always include the keyword all.

Usage	Field Name	Data Type
Input on object	ccrzSearchTokensc	Text Area (Long) (32768)
Input or output with API (with any data size)	Not applicable	

## SellerI18N ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzSellerI18NIdc	Text (255)
Input or output with API (with any data size)	Not applicable	

## Short Description

Content for the internationalized Seller List page.

Usage	Field Name	Data Type
Input on object	ccrz_ShortDesc_c	Text Area (Rich) (32768)
Input or output with API (with any data size)	Not applicable	

## SEE ALSO:

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz\_\_E\_ShippingRate\_\_c

Represents a shipping cost calculation for a product, based on the product's specified shipping weight, a shipping carrier, and a shipping method.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** The CC Shipping Rate is object is designed for compatibility with standard checkout, but not line-level independence (LLI) checkout. B2B Commerce for Visualforce doesn't support solutions that use LLI checkout with the CC Shipping Rate object. To set up shipping methods for LLI checkout, extend the ccrz.cc api ShippingAndHandling extension point class.

## **API Usage**

Class used with: The API doesn't directly query records of this object.

## **Fields**

#### Air

The shipping rate applies to an Air shipping service.

Usage	Field Name	Data Type
Input on object	ccrz_Air_c	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## CC Shipping Rate Name

The name that appears in the Shipping Method picklist on the storefront's Checkout page.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Currency Code

ISO 4217 currency code, such as USD or JPY, for the shipping rate.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyISOCodec	Text (10)
Input or output with API (with any data size)	The API doesn't return data for this field.	

### Default

Whether the shipping rate is the default selection in the Shipping Method picklist on the storefront's Checkout page.

Usage	Field Name	Data Type
Input on object	ccrzDefaultc	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Ground

The shipping rate applies to a Ground shipping service.

Usage	Field Name	Data Type
Input on object	ccrzGroundc	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Max Weight

The maximum product shipping weight that this rate applies to.

Usage	Field Name	Data Type
Input on object	ccrzMaxWeightc	Number (18, 2)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Min Weight

The minimum product shipping weight that this rate applies to.

Usage	Field Name	Data Type
Input on object	ccrzMinWeightc	Number (18, 2)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Next Day Air

The shipping rate applies to a Next Day Air shipping service.

Usage	Field Name	Data Type
Input on object	ccrzNextDayAirc	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Sequence

By default, the managed package doesn't use this field.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Shipper

The name of the service that fulfills the shipment.

Usage	Field Name	Data Type
Input on object	ccrzShipperc	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Shipping Rate

Cost for the shipping rate in the specified currency.

Usage	Field Name	Data Type
Input on object	ccrzShippingRatec	Currency (18, 2)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# ShippingRateId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzShippingRateIdc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Storefront

Storefront where the shipping rate applies.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Picklist (Multi-select)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# SEE ALSO:

Salesforce Help Specify Shipping Rates for a Product
Salesforce Help Specify Shipping Options for Standard Checkout

# ccrz\_\_E\_Spec\_\_c

Represents the definition for a specification, which identifies a type of physical, operational, or performance measurement for a product.

The ccr E ProductSpec c object defines a specification value for a particular product.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiSpec

**Field sizing:** To specify which fields the API returns for each product spec index record, request a specific data size for the ccrz.ccApiSpec.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSpec.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

The reference for each field indicates which data size the field is returned with.

# **Fields**

# Can be Used for Filtering

Whether a buyer can filter results on the Product List page by the spec's values.

Usage	Field Name	Data Type
Input on object	ccrzUseForFilterc	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	useForFilter	Boolean

# Desc

The managed package only uses this field internally.

Usage	Field Name	Data Type
Input on object	ccrzDescc	Text (255)
Input or output with API (with <b>SZ_M</b> or larger)	desc	String

# Display Name

The spec name shown in a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text (80)
Input or output with API (with <b>SZ_M</b> or larger)	displayName	String

# Filter Display Name

The spec name shown in a filter on the Product List page.

Usage	Field Name	Data Type
Input on object	ccrzFilterDisplayNamec	Text (80)
Input or output with API (with <b>SZ_M</b> or larger)	filterDisplayName	String

## Filter Type

Whether the spec's filter renders as a checkbox or slider on the Product List page.

Usage	Field Name	Data Type
Input on object	ccrzFilterTypec	Picklist
Input or output with API (with <b>SZ_M</b> or larger)	descFilterType	String

## Is Comparable

Whether the spec is available for the Product Compare page.

Usage	Field Name	Data Type
Input on object	ccrzIsComparablec	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	isComparable	Boolean

## Is Visible in Catalog

Whether the spec can appear in a page section on the Product Detail page.

Usage	Field Name	Data Type
Input on object	ccrzIsVisibleInCatalogc	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	isComparable	Boolean

#### Locale

The storefront locale where the spec applies.



**Note**: You can save a spec without specifying a locale, but the spec only functions and displays correctly on the storefront when you specify a locale.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with <b>SZ_M</b> or larger)	locale	String

#### Name

Internal display name for the spec record.



**Note:** When you localize a spec record for an internationalized storefront, specify the same Name value for each locale-specific spec record. The ccrz.ccApiSpec.fetch method queries localized spec records by matching the value of the Name field. Avoid reusing the same spec Name value for more than one spec per locale.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with <b>SZ_S</b> or larger)	sfdcName	String

#### Sequence

An integer that specifies how prominently the spec displays on the storefront. Lower Sequence values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (8, 0)
Input or output with API (with <b>SZ_S</b> or larger)	sequence	Integer

### SpecGroup

The heading in the page section on the Product Detail page where the spec displays.

Usage	Field Name	Data Type
Input on object	ccrzSpecGroupc	Picklist
Input or output with API (with <b>SZ_M</b> or larger)	specGroup	String

# SpecId

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzSpecIDc	Text (128)
Input or output with API (with <b>SZ_S</b> or larger)	specID	ID

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Select Type	ccrzSelectTypec	Picklist

#### SEE ALSO:

ccrz\_\_E\_ProductSpec\_\_c

Salesforce Help Define Product Specs and Create Product List Page Filters

Salesforce Help Show Product Specs on the Product Detail Page

# ccrz\_\_E\_SiteIndex\_\_c

Represents the hashed definition of a single category's friendly URL and its associated breadcrumb path for a specific storefront and locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiSiteIndex

**Field sizing:** To specify which fields the API returns for each site index record, request a specific data size for the ccrz.ccApiSiteIndex.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSiteIndex.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

The reference for each field indicates which data size the field is returned with.

# **Fields**

#### Active

Whether this site index record is up-to-date and available for the storefront to reference. This field supports site index batch jobs. Records that the storefront currently uses remain active while the batch job creates updated records.

Usage	Field Name	Data Type
Input on object	ccrzActivec	Checkbox
Input or output with API (with <b>SZ_S</b> or larger)	active	Boolean

#### Breadcrumb

JSON data that represents the breadcrumb path for the category and any of its parent categories. For example, the following breadcrumb JSON data describes the Medium category in the Capricorn Coffee demo storefront data. The breadcrumb data includes details for the Medium category and its parent category, Coffee.

```
"friendlyUrl":"/Coffee"
}
]
```

For information about how the breadcrumbs appear on the storefront, see Show the Breadcrumb Widget.

Usage	Field Name	Data Type
Input on object	ccrzBreadcrumbc	Text Area (Long) (30000)
Input or output with API (with <b>SZ_M</b> or larger)	breadcrumb	String

#### Category

The category that the site index record describes.

Usage	Field Name	Data Type
Input on object	ccrzCategoryc	Lookup Relationship (ccrz_E_Category_c)
Input or output with API (with <b>SZ_S</b> or larger)	category	ID

#### CC Site Index Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Friendly URL

The category's friendly URL path.

Usage	Field Name	Data Type
Input on object	ccrzFriendlyURLc	Text Area (Long) (5000)
Input or output with API (with <b>SZ_S</b> or larger)	friendlyURL	String

## Friendly URL Hash

The result of passing the Friendly URL value through the Apex String.hashCode method. The hashed value allows for efficiently querying records by friendly URL values.

Usage	Field Name	Data Type
Input on object	ccrzFriendlyURLHashc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	friendlyURLHash	String

## Locale

The locale that the site index record applies to.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (25)
Input or output with API (with <b>SZ_S</b> or larger)	locale	String

#### Site Index Id

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzSiteIndexIdc	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	The API doesn't return data for this field.	

## Storefront

The storefront that the site index record applies to.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with <b>SZ_S</b> or larger)	storefront	String

# SEE ALSO:

ccrz.ccSiteIndexBuilder

Salesforce Help Refresh Storefront Site Index Records

Salesforce Help Specify SEO Metadata for Products and Categories

Salesforce Help Serve Friendly URLs for Storefront Pages

Salesforce Help Show the Breadcrumb Widget

# ccrz\_\_E\_StoredPayment\_\_c

Represents payment details saved in the My Wallet section of the My Account page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiStoredPayment

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

#### Account

The account associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Lookup Relationship (Account)
Input or output with API (with any data size)	account	ID

#### Account Accessible

Whether the stored payment is available to all users associated with the account.

Usage	Field Name	Data Type
Input on object	ccrzAccountAccessiblec	Checkbox
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Account Number

Account number for the payment.

- For a purchase order (PO), this value is the entire PO number.
- For a credit card or bank account, this value is likely the account number's last four digits.

Usage	Field Name	Data Type
Input on object	ccrzAccountNumberc	Text (255)
Input or output with API (with any data size)	accountNumber	String

# Account Type

The method of payment, such as purchase order (PO), credit card, and so on. For more specific payment method details, such as the specific type of credit card, use Payment Type.

Usage	Field Name	Data Type
Input on object	ccrzAccountTypec	Text (255)
Input or output with API (with any data size)	accountType	String

#### Address

The billing address associated with the payment.

Usage	Field Name	Data Type
Input on object	ccrzAddressc	Lookup Relationship (ccrz_E_ContactAddr_c)
Input or output with API (with any data size)	address	ID

# CC Stored Payment Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfid	String

# Display Name

The user-friendly name that a buyer enters for the stored payment.

Usage	Field Name	Data Type
Input on object	ccrzDisplayNamec	Text (255)
Input or output with API (with any data size)	displayName	String

## Effective Account ID

The effective account associated with the payment.

Usage	Field Name	Data Type
Input on object	ccrzEffectiveAccountIDc	Text (20)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox
Input or output with API (with any data size)	enabled	Boolean

#### End Date

The last day that the stored payment is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrz_EndDatec	Date
Input or output with API (with any data size)	endDate	Date

## Exp Month

The two-digit expiration month for the payment, such as for a credit card expiration date.

Usage	Field Name	Data Type
Input on object	ccrzExpMonthc	Number (2, 0)
Input or output with API (with any data size)	expMonth	Integer

#### Exp Year

The four-digit expiration year for the payment, such as for a credit card expiration date.

Usage	Field Name	Data Type
Input on object	ccrzExpYearc	Number (4, 0)
Input or output with API (with any data size)	expYear	Integer

#### Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	ccrzNamec	Auto Number
Input or output with API (with any data size)	name	String

## Payment Type

More specific payment method details for Account Type. For example, if Account Type is Credit Card, then this value can be the type of credit card.

Usage	Field Name	Data Type
Input on object	ccrzPaymentTypec	Text (255)
Input or output with API (with any data size)	paymentType	String

# Read Only

Whether a user can modify the stored payment details.

Usage	Field Name	Data Type
Input on object	ccrzReadOnlyc	Checkbox
Input or output with API (with any data size)	readOnly	Boolean

# Sequence

Order of the stored payment within the list of stored payments. Lower values display first.

Usage	Field Name	Data Type
Input on object	ccrzSequencec	Number (18, 0)
Input or output with API (with any data size)	sequence	Integer

#### Start Date

The first day that the stored payment is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Stored Payment ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzStoredPaymentIdc	Text (255)
Input or output with API (with any data size)	storedPaymentId	String

#### Storefront

The name of the storefront where the stored payment is available.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with any data size)	storefront	String

## Subaccount Number

Subaccount used with Account Number.

Usage	Field Name	Data Type
Input on object	ccrzSubaccountNumberc	Text (255)
Input or output with API (with any data size)	subaccountNumber	String

## Token

Tokenized form of the payment information.

Usage	Field Name	Data Type
Input on object	ccrzTokenc	Text (255)
Input or output with API (with any data size)	token	String

## User

The user that created the transaction payment.

Usage	Field Name	Data Type
Input on object	ccrzUserc	Lookup Relationship (User)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Default	ccrzDefaultc	Checkbox

## SEE ALSO:

**Extension Examples for Stored Payments** 

Salesforce Help Configure Payment Options Available on the Checkout Page

Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page

# ccrz\_\_E\_StorefrontAssociation\_\_c

Represents a link between a particular account, a particular storefront, and a particular Experience Cloud site.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiStorefront

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

#### Account

The account for the storefront association.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Lookup Relationship (Account)
Input or output with API (with any data size)	account	ID

#### Account Group

The account group that corresponds to the account for the storefront association.

Usage	Field Name	Data Type
Input on object	ccrzAccountGroupc	Lookup Relationship (ccrz_E_AccountGroupc)
Input or output with API (with any data size)	accountGroup	ID

## CC StorefrontAssociation Name

An internal-facing name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	sfdcName	String

# Community Name

The name of the Experience Cloud site for the storefront association. This value is the site's name, not its URL path.

Usage	Field Name	Data Type
Input on object	ccrzCommunityNamec	Text (255)
Input or output with API (with any data size)	communityName	String

### Default

Whether the storefront is the default for the Experience Cloud site.

Usage	Field Name	Data Type
Input on object	ccrzDefaultc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with any data size)	default	Boolean

#### RefId

The external ID of the object that the RefType field specifies. The RefID field is automatically populated depending on other values set for the storefront association.

Usage	Field Name	Data Type
Input on object	ccrzRefIdc	Text (255)
Input or output with API (with any data size)	refId	String

## RefType

The type of object—account, account group, or Experience Cloud site—linked to the storefront association. This field is automatically populated depending on other values set for the storefront association.

Usage	Field Name	Data Type
Input on object	ccrzRefTypec	Text (255)
Input or output with API (with any data size)	refType	String

### Storefront

The name of the storefront linked to the storefront association.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (40)
Input or output with API (with any data size)	storefront	String

# **Deprecated Fields**

The following fields exist on the object but aren't used by the managed package. Don't use these fields in any development or customization.

Field Label	Field Name	Data Type
Object ID	ccrzObject_Idc	Text (40)

Field Label	Field Name	Data Type
Object Type	ccrzObject_Typec	Text (40)

SEE ALSO:

Salesforce Help Create Associations between Multiple Storefronts and Experience Cloud Sites

# ccrz\_\_E\_SubProdTerm\_\_c

Represents subscription options that you make available for a specific product.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz E SubProdTerm c

(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz\_\_E\_SubProdTermI18N\_\_c

Represents subscription options that you make available for a specific product, localized for a specific storefront locale.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz\_\_E\_SubProdTermI18N\_\_c

(Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz\_\_E\_Subscriber\_Page\_\_c

Represents a custom page that you add to the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiSubscPage

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

## Bridge Allowed

Whether the subscriber page is used with CC Bridge. For Create a Subscriber Page

### CC Subscriber Page Name

An internal-only name for the record.

Usage	Field Name	Data Type
Input on object	Name	Text (80)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### End Date

The last day when the subscriber page is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzEndDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Layout Template

The template to use for the subscriber page's body content:

- When this field is blank, the subscriber page uses the default one-column layout (cc tmpl OneColRD).
- To use a subscriber template, enter  $cc\_tmpl\_SubscriberTemplate$  for Layout Template, and then specify the subscriber template Visualforce page name in the Subscriber Layout Template field.

For usage, see Create a Subscriber Page.

Usage	Field Name	Data Type
Input on object	ccrzLayoutTemplatec	Text (255)
Input or output with API (with any data size)	layoutTemplate	String

## Page Include

The name of the Visualforce page to use for the subscriber page.



👔 Tip: Because this page is subscriber code that you've created and is outside of the managed package, prefix the page name with c , such as c cc example subscriberPage.

For usage, see Create a Subscriber Page.

Usage	Field Name	Data Type
Input on object	ccrzPageIncludec	Text (255)
Input or output with API (with any data size)	pageInclude	String

#### Page Key

A short value (three characters or fewer) for the URL query parameter that B2B Commerce references for showing your subscriber page on the storefront. For example, for a page named cc example subscriberPage, enter xsp.



Note: This value is also referenced in storefront configuration settings that apply to your subscriber page. The full programmatic path of a configuration setting—module, configuration, storefront, and page key—is limited to 40 characters. Make sure that the page key value is unique, but keep it as short as possible.

For usage, see Create a Subscriber Page.

Usage	Field Name	Data Type
Input on object	ccrzPageKeyc	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Start Date

The first day when the subscriber page is available on the storefront.

Usage	Field Name	Data Type
Input on object	ccrzStartDatec	Date
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Storefront

The name of the storefront where the subscriber page applies.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Subscriber Layout Template

The subscriber Visualforce page name for the page's subscriber template when the value of Layout Template is cc tmpl SubscriberTemplate.



**Note:** Because the page is subscriber code that you've created and is outside of the managed package, prefix the page name with  $c_{\_}$ , such as  $c_{\_}cc_{\_}example\_customTemplateName$ . For more information about subscriber templates, see Create a Subscriber Template.

Usage	Field Name	Data Type
Input on object	ccrz_SubscriberLayoutTemplate_c	Text (255)
Input or output with API (with any data size)	subscriberLayoutTemplate	String

#### Title Label

The text that you want to show for the page title.

Usage	Field Name	Data Type
Input on object	ccrzTitleLabelc	Text (255)
Input or output with API (with any data size)	titleLabel	String

#### SEE ALSO:

Salesforce Help Create a Subscriber Page

Salesforce Help Modify the Column Layout of a Storefront Page

# ccrz\_\_E\_Subscription\_\_c

Represents a buyer's selected subscription after they place an order.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz\_\_E\_Subscription\_\_c



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz E TaxRate c

Represents a tax percentage for a state in a particular country or territory. The Checkout page applies this tax rate to all taxable products, depending on the specified shipping address.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

Important: The default CC Tax Rate object and ccrz.cc hk TaxCalculation extension point class in the B2B Commerce API are intended for demonstration purposes only. This object and API aren't meant to be used as-is in a production org. Instead, they provide a starting point that you can extend for implementing the tax calculations that are specific to your solution. Or, integrate an external tax calculation service, such as Avalara, and install the service's add-on, if available.

# **API Usage**

Class used with: ccrz.cc hk TaxCalculation

Fetch sizing: Doesn't apply to records of this object.

# **Fields**

#### Country Code

ISO 3166-1 Alpha 2 country or region code.

Usage	Field Name	Data Type
Input on object	ccrzCountryCodec	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### State Code

ISO 3166-2 code for a US state or Canadian province.

Usage	Field Name	Data Type
Input on object	ccrzStateCodec	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Tax Rate

The tax rate percentage for the specific US state or Canadian province.

Usage	Field Name	Data Type
Input on object	ccrzTaxRatec	Percent (12, 3)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# Tax Rate Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Tax Rate ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzTaxRateIdc	Text (128)
Input or output with API (with any data size)	The API doesn't return data for this field.	

# SEE ALSO:

Salesforce Help Show Fees and Charges in the Order Review Section of the Checkout Page

# ccrz\_\_E\_Term\_\_c

Represents terms and conditions shown to the buyer during checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiTerms

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

## CC Term Auto Number

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	The API doesn't return data for this field.	

## Description

Explanatory text for the term, which appears below the title on the Checkout page.

Usage	Field Name	Data Type
Input on object	ccrzDescriptionc	Text Area (Rich) (32768)
Input or output with API (with any data size)	description	String

### Enabled

Whether the record is active in your org's data.

Usage	Field Name	Data Type
Input on object	ccrzEnabledc	Checkbox

Usage	Field Name	Data Type
Input or output with API (with any data size)	The API doesn't return data for this field.	

#### Locale

The locale code for the term.

Usage	Field Name	Data Type
Input on object	ccrzLocalec	Text (5)
Input or output with API (with any data size)	locale	String

#### Storefront

The storefronts where the term applies.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Picklist (Multi-select)
Input or output with API (with any data size)	storefront	String

## Title

The label or heading for the term, which displays on the Checkout page with a checkbox that a buyer must select before they can continue.

Usage	Field Name	Data Type
Input on object	ccrzTitlec	Text (100)
Input or output with API (with any data size)	title	String

#### Type

The term type, such as Billing, Shipping, Digital, or All.

Usage	Field Name	Data Type
Input on object	ccrzTypec	Picklist

Usage	Field Name	Data Type
Input or output with API (with any data size)	type	String

SEE ALSO:

Salesforce Help Set Up Terms and Conditions on the Checkout Page

# ccrz\_\_E\_TransactionPayment\_\_c

Represents a payment made when a buyer completes checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **API Usage**

Class used with: ccrz.ccApiTransactionPayment

**Fetch sizing:** An API fetch query always evaluates the same fields for records of this object, regardless of any specific data size request in your input map.

# **Fields**

#### Account

The account associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzAccountc	Lookup Relationship (Account)
Input or output with API (with any data size)	account	ID

#### Account Number

Account number for the payment.

- For a purchase order (PO), this value is the entire PO number.
- For a credit card or bank account, this value is likely the account number's last four digits.

Usage	Field Name	Data Type
Input on object	ccrzAccountNumberc	Text (255)
Input or output with API (with any data size)	accountNumber	String

# Account Type

The method of payment, such as purchase order (PO), credit card, and so on. For more specific payment method details, such as the specific type of credit card, use Payment Type.

Usage	Field Name	Data Type
Input on object	ccrzAccountTypec	Text (255)
Input or output with API (with any data size)	accountType	String

#### Address

The billing address associated with the payment.

Usage	Field Name	Data Type
Input on object	ccrzAddressc	Lookup Relationship (ccrz_E_ContactAddr_c)
Input or output with API (with any data size)	address	ID

## Amount

The transaction's actual payment amount. This value can differ from Request Amount.

Usage	Field Name	Data Type
Input on object	ccrzAmountc	Currency (18, 2)
Input or output with API (with any data size)	amount	Decimal

# Bill To

The account that is responsible for fulfilling the payment.

Usage	Field Name	Data Type
Input on object	ccrzBillToc	Lookup Relationship (Account)

Usage	Field Name	Data Type
Input or output with API (with any data size)	billTo	ID

## CC Order

The order record that this payment applies to.

Usage	Field Name	Data Type
Input on object	ccrzCCOrderc	Lookup Relationship (ccrz_E_Orderc)
Input or output with API (with any data size)	CCOrder	ID

# CC Subscription

The subscription that this payment applies to.

Usage	Field Name	Data Type
Input on object	ccrzCCSubscriptionc	Lookup Relationship (ccrz_E_Subscriptionc)
Input or output with API (with any data size)	CCSubscription	ID

# CC Transaction Payment Name

A unique, automatically assigned ID for the record.

Usage	Field Name	Data Type
Input on object	Name	Auto Number
Input or output with API (with any data size)	sfdcName	String

## Comments

Free text associated with the payment. Typically, comments are added when the transaction is created.

Usage	Field Name	Data Type
Input on object	ccrzCommentsc	Text Area (Long) (32768)
Input or output with API (with any data size)	comments	String

#### Contact

The contact associated with the user assigned in the User field.

Usage	Field Name	Data Type
Input on object	ccrzContactc	Lookup Relationship (Contact)
Input or output with API (with any data size)	contact	ID

#### Currency ISO Code

The ISO 4217 currency code for the payment, such as USD or JPY.

Usage	Field Name	Data Type
Input on object	ccrzCurrencyISOCodec	Text (10)
Input or output with API (with any data size)	currencyISOCode	String

## Expiration Month

The two-digit expiration month for the payment, such as for a credit card expiration date.

Usage	Field Name	Data Type
Input on object	ccrzExpirationMonthc	Number (2, 0)
Input or output with API (with any data size)	expirationMonth	Integer

#### Expiration Year

The four-digit expiration year for the payment, such as for a credit card expiration date.

Usage	Field Name	Data Type
Input on object	ccrzExpirationYearc	Number (4, 0)
Input or output with API (with any data size)	expirationYear	Integer

# Invoice Applied For

The invoice that this payment fulfills.

- For a summary invoice, this invoice is the summary invoice.
- For a standard invoice, this invoice is the same record as the invoice referenced by Invoice Applied To.

Usage	Field Name	Data Type
Input on object	ccrzInvoiceAppliedForc	Lookup Relationship (ccrzE_Invoicec)
Input or output with API (with any data size)	invoiceAppliedFor	ID

# Invoice Applied To

The invoice that this payment applies to.

- For a summary invoice, this invoice is the child invoice that a subpayment applies to.
- For a standard invoice, this invoice is the same record as the invoice referenced by Invoice Applied For.

Usage	Field Name	Data Type
Input on object	ccrzInvoiceAppliedToc	Lookup Relationship (ccrzE_Invoicec)
Input or output with API (with any data size)	invoiceAppliedTo	ID

# Parent Transaction Payment

The transaction payment information that applies to multiple payments. When a transaction payment fulfills multiple invoices:

- A parent transaction payment can contain the information shared by all payments.
- Child transaction payments can define specific payment amounts for each individual invoice.

Usage	Field Name	Data Type
Input on object	ccrz_ParentTransactionPayment_c	Lookup Relationship (ccrz_E_TransactionPayment_c)
Input or output with API (with any data	parentTransactionPayment	ID
size)	parentTransactionPaymentR	Map <string, object="">, which contains the following fields:</string,>
		• sfdcName
		• sfid
		• transactionPaymentId

## Payment Type

More specific payment method details for Account Type. For example, if Account Type is Credit Card, then this value can be the type of credit card.

Usage	Field Name	Data Type
Input on object	ccrzPaymentTypec	Text (255)

Usage	Field Name	Data Type
Input or output with API (with any data size)	paymentType	String

#### Request Amount

A requested payment amount. This value can differ from Amount.

Usage	Field Name	Data Type
Input on object	ccrzRequestAmountc	Currency (18, 2)
Input or output with API (with any data size)	requestAmount	Decimal

#### Sold To

The account that placed the order. This value probably matches the Sold To account on an invoice, or the Ship To account on an order.

Usage	Field Name	Data Type
Input on object	ccrzSoldToc	Lookup Relationship (Account)
Input or output with API (with any data size)	soldTo	ID

# Source Transaction Payment

The transaction payment information that was the source for this payment. For example, in an authorization and capture chain, the authorization is the source transaction payment and the capture is the current transaction payment.

Usage	Field Name	Data Type
Input on object	ccrz_SourceTransactionPayment_c	Lookup Relationship (ccrz_E_TransactionPayment_c)
Input or output with API (with any data	sourceTransactionPayment	ID
size)	sourceTransactionPaymentR	Map <string, object="">, which contains the following fields:</string,>
		• sfdcName
		• sfid
		• transactionPaymentId

## Stored Payment

The original  $ccrz\_E\_StoredPayment\_c$  for the payment, if applicable.

Usage	Field Name	Data Type
Input on object	ccrzStoredPaymentc	Lookup Relationship (ccrz_E_StoredPaymentc)
Input or output with API (with any data size)	storedPayment	ID

## Storefront

The storefront for the payment.

Usage	Field Name	Data Type
Input on object	ccrz_Storefront_c	Text (255)
Input or output with API (with any data size)	storefront	String

#### Sub Account Number

Subaccount used with Account Number.

Usage	Field Name	Data Type
Input on object	ccrzSubAccountNumberc	Text (255)
Input or output with API (with any data size)	accountNumber	String

## Token

Tokenized form of the payment information.

Usage	Field Name	Data Type
Input on object	ccrzTokenc	Text (255)
Input or output with API (with any data size)	token	String

## Transaction Code

Code associated with the transaction. For example, for a credit card payment, this value is the specific transaction ID.

Usage	Field Name	Data Type
Input on object	ccrzTransactionCodec	Text (255)
Input or output with API (with any data size)	transactionCode	String

# Transaction Payment ID

A unique ID that associates the record with an external system.

Usage	Field Name	Data Type
Input on object	ccrzTransactionPaymentIdc	Text (255)
Input or output with API (with any data size)	transactionPaymentId	String

## Transaction Subcode

A secondary code associated with the transaction. For example, if the transaction failed, this value can be failure's error code.

Usage	Field Name	Data Type
Input on object	ccrzTransactionSubcodec	Text (255)
Input or output with API (with any data size)	transactionSubcode	String

# Transaction Timestamp

The date and time when the transaction occurred.

Usage	Field Name	Data Type
Input on object	ccrzTransactionTSc	Date/Time
Input or output with API (with any data size)	transactionTS	Datetime

## Transaction Type

Provider-specific type of transaction, such as AUTH or CAPTURE for a credit card payment.

Usage	Field Name	Data Type
Input on object	ccrzTransactionTypec	Text (255)
Input or output with API (with any data size)	transactionType	String

#### User

The user that created the transaction payment.

Usage	Field Name	Data Type
Input on object	ccrzUserc	Lookup Relationship (User)
Input or output with API (with any data size)	user	ID

#### Verification Code

An alternative to Transaction Code.

Usage	Field Name	Data Type
Input on object	ccrzVerificationCodec	Text (255)
Input or output with API (with any data size)	verificationCode	String

#### SEE ALSO:

Salesforce Help Configure Payment Options Available on the Checkout Page Salesforce Help Generate an Invoice for a Buyer's Order

# Global API Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce defines Apex API classes and methods that provide programmatic access to records of B2B Commerce custom objects. For example, the ccrz.ccApiProduct class provides methods for querying and returning data for your storefront's products.

The API classes are included in the managed package's namespace, ccrz. The class and method definitions use the global access modifier, which means they are accessible from all Apex code in your org. For example, you can write a custom Visualforce page that invokes a particular B2B Commerce for Visualforce API method call.



- Warning: The revise method available for some classes doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

#### IN THIS SECTION:

#### Get Started with the B2B Commerce for Visualforce API

This step-by-step tutorial shows how to construct a typical API call for B2B Commerce for Visualforce. First, define the scope of data that you want to request, and submit the request to the appropriate method. Then, parse the data that's returned.

#### ccrz.ccApi

Defines the base constants and exceptions that all methods of the B2B Commerce for Visualforce global API reference or return. The methods of this class check for data size flags on method calls and handle registration for custom logic and service implementations.

# ccrz.ccApiAccount

Query, create, or modify account records that have B2B Commerce for Visualforce custom fields.

#### ccrz.ccApiAddress

Query, create, or update bill-to or ship-to address details for your storefront's contact addresses, such as those on cart and order records.

## ccrz.ccApiAddressBook

Query, create, update, or delete account address book records.

#### ccrz.ccApiAttribute

Query attribute records defined for products when the storefront uses attribute-driven commerce.

#### ccrz.ccApiCart

Query, create, update, or remove cart records.

#### ccrz.ccApiCategory

Query category assignments for products and data for the storefront's category taxonomy.

#### ccrz.ccApiConfig

Query storefront configuration data, or load new JSON-formatted configuration data.

#### ccrz.ccApiContact

Query contact records associated with your B2B Commerce for Visualforce storefront users.

#### ccrz.ccApiCoupon

Query or clone coupon records, and programmatically apply or remove coupons from a shopping cart.

#### ccrz.ccApil18N

Query locales and locale-specific resources for internationalizing a storefront.

#### ccrz.ccApilnvoice

Query invoice records.

#### ccrz.ccApiMenu

Query menus and menu items.

#### ccrz.ccApiOrder

Query, search, split, reorder, or cancel order records.

## ccrz.ccApiPriceList

Query price lists and price list items, which specify an account group's entitled prices for particular products.

#### ccrz.ccApiPrivateCache

Query, write, or update cache records for data that must stay private to your org, such as configuration data. For data that's safe for any storefront user to see—such as page labels or the category tree—use methods of the ccrz.ccApiPublicCache class.

# ccrz.ccApiProduct

Query product records, price entitled products, and return other entitled product details, including records related to each product, such as composite products and product media.

#### ccrz.ccApiProductIndex

Query, create, update, or remove product index records, which B2B Commerce for Visualforce uses for quickly populating content on the Product List page version 2.0.

### ccrz.ccApiPromotion

Query promotion records.

#### ccrz.ccApiPublicCache

Query, write, or update cache records for data that's safe for any storefront user to see, such as page labels or the category tree. To query, write, or update cache records for data that must stay private to your org—such as configuration data—use methods of the ccrz.ccApiPrivateCache class.

#### ccrz.ccApiRelatedProduct

Query related product records, which define relationships between products, such as accessories or competitive or alternative SKUs.

## ccrz.ccApiRichContent

Query rich content records used for custom storefront content.

#### ccrz.ccApiSeller

Query seller records by IDs or by geographic location.

#### ccrz.ccApiSpec

Query specification definitions and product spec index records.

#### ccrz.ccApiSiteIndex

Query, create, update, or remove site index records.

#### ccrz.ccApiStoredPayment

Query, create, update, and delete payments saved in the My Wallet section of the My Account page.

## ccrz.ccApiStorefront

Query storefront association records, which link between a particular account, a particular storefront, and a particular Experience Cloud site.

#### ccrz.ccApiSubProdTerm

Query subscription options that are available for a specific product.

#### ccrz.ccApiSubscPage

Query subscriber page records, and handle the case where a specified subscriber page isn't found.

### ccrz.ccApiSubscription

Query subscription records associated with placed orders.

#### ccrz.ccApiTerms

Query definitions of terms and conditions shown to the buyer during checkout.

#### ccrz.ccApiTransactionPayment

Query details of payments made when buyers complete checkout.

#### ccrz.ccApiUser

Query, create, or modify user records that have B2B Commerce for Visualforce custom fields.

#### ccrz.ccApiWishList

Query ccrz E Cart c records where the ccrz Cart Type c field is WishList.

#### SEE ALSO:

**Apex Class Definition** 

# Get Started with the B2B Commerce for Visualforce API

This step-by-step tutorial shows how to construct a typical API call for B2B Commerce for Visualforce. First, define the scope of data that you want to request, and submit the request to the appropriate method. Then, parse the data that's returned.

Say that you wanted to programmatically return data for two of your products whose IDs you know. The ccrz.ccApiProduct class provides a fetch method, which you can call from your code to get product data for a set of IDs, names, SKUs, or other criteria.

#### IN THIS SECTION:

1. Request Data from the B2B Commerce for Visualforce API

In this step, you construct a Map<String, Object> that specifies the scope of the data that you're querying.

2. Process the Data Returned from the B2B Commerce for Visualforce API

In this step, pass the input map you previously created to the ccrz.ccApiProduct.fetch method, and handle the data that the method returns.

3. Versions in B2B Commerce for Visualforce API Calls

Each B2B Commerce for Visualforce API call requires a ccrz.ccAPI.API\_VERSION key in the input map. The version defines the scope of input data that the method can accept, and the specific output data that the method returns.

4. Sizing and Scoping Options for a B2B Commerce for Visualforce API Method Call

Depending on the complexity of your storefront data, some B2B Commerce for Visualforce API calls can return a huge volume of data. For example, the <code>ccrz.ccApiProduct</code> class returns product records, but by default executes subqueries that return product media, product specs, and other related records. Sometimes, the solution you're building requires all of that data. Other times, the solution requires only the product records, and some or none of the related records. Maybe the solution requires only a fraction of all the possible product data the API can return.

# Request Data from the B2B Commerce for Visualforce API

In this step, you construct a Map<String, Object> that specifies the scope of the data that you're querying.

- Tip: Most methods in the B2B Commerce for Visualforce API accepts a Map<String, Object> of input data, and returns a Map<String, Object> of output data.
- 1. Set up a Map<String, Object> for the data you're requesting from the API.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{ };
```

2. Specify the IDs of the product records whose data you want to query.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'}
};
```

The ccrz.ccApiProduct.PRODUCTIDLIST key is defined as an acceptable input for the ccrz.ccApiProduct.fetch method. Although we haven't invoked the fetch method yet, we are setting up data that the method accepts. The ccrz.ccApiProduct.PRODUCTIDLIST key requires a set of product IDs.

3. Specify the version of the API call by adding the ccrz.ccApi.API VERSION key to the productFetchQuery map.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION
};
```

The ccrz.ccApi.API\_VERSION key is defined on the ccrz.ccApi base class. This key is required for every B2B Commerce for Visualforce API call, but the specific version you provide can affect how your call requests and returns data on page 288.

- Tip: We recommend that new implementations always use ccrz.ccApi.CURRENT\_VERSION whenever possible. This pointer ensures that your subscriber code always references the most recent version of the API, even when you upgrade to a new major release.
- **4.** Add a ccrz.ccApi.SIZING key to the productFetchQuery map.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},
```

The ccrz.ccApi.SIZING key is defined on the ccrz.ccApi base class. This key specifies how much data the API call returns. Because this key is also a Map<String, Object>, you can add multiple parameters to return the exact scope of data that you want. Some methods automatically trigger subqueries to other API calls for querying records from multiple objects. You can use one ccrz.ccApi.SIZING key to control how much data is returned for both the primary query—such as product data—and any subqueries.

**5.** To restrict how much product data the call returns, add a ccrz.ccApiProduct.ENTITYNAME key to the ccrz.ccApi.SIZING map.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},

    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
     }
};
```

**6.** To specify how many fields you want to return for each product record, add the ccrz.ccApi.SZ\_DATA key to ccrz.ccApiProduct.ENTITYNAME.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},

    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
        }
    }
}
```

The ccrz.ccApi.SZ\_DATA => ccrz.ccApi.SZ\_S flag tells the API to return only the small set of data on each product record. To return more fields, specify a higher size value. For some methods, certain data size values also determine which related data your query returns.

Note: When you call the B2B Commerce for Visualforce API from a Visualforce page or Apex remote action, B2B Commerce has already constructed the context for the call: the storefront and its configuration, the current user, which effective account is selected, and so on. This information lives in the ccrz.cc\_CallContext utility class. But outside of a Visualforce page or Apex remote action, B2B Commerce can't construct this context automatically. If your subscriber code is calling the API from outside of a Visualforce page or Apex remote action, your code must set this context. For more information about call context, see the ccrz.cc\_CallContext object.

Next, add code that invokes ccrz.ccApiProduct.fetch and handles the data that the method returns.

### Process the Data Returned from the B2B Commerce for Visualforce API

In this step, pass the input map you previously created to the ccrz.ccApiProduct.fetch method, and handle the data that the method returns.

1. Add try and catch statements.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},

    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
        }
    }
};

try {
    // Pass the input data
} catch (Exception e) {
    // Error handling...
}
```

2. In the try statement, pass the input map to the ccrz.ccApiProduct.fetch method and capture it in a new map, productFetchData.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApI.CURRENT_VERSION,
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},

    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
        }
    }
};

try {
    Map<String, Object> productFetchData = ccApiProduct.fetch(productFetchQuery);
} catch (Exception e) {
    // Error handling...
}
```

The ccrz.ccApiProduct.fetch method returns a list of product records, hashed under theccrz.ccApiProduct.PRODUCTLIST key of the productFetchData output map. The ccrz.ccApiProduct.PRODUCTLIST key is a List<Map<String, Object>> collection, where each product record is a Map<String, Object>.

3. To process the returned list, create a List<Map<String, Object>> collection to capture the content of the ccrz.ccApiProduct.PRODUCTLIST key. Cast the hashed product data returned in the ccrz.ccApiProduct.PRODUCTLIST key of the productFetchData map to the list.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product_ID_1', 'Product_ID_2'},

    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
```

```
}
}

try {
    Map<String, Object> productFetchData = ccApiProduct.fetch(productFetchQuery);
    if (productFetchData.get(ccApiProduct.PRODUCTLIST) != null) {
        List<Map<String, Object>> myProductDataList = (List<Map<String, Object>>)
productFetchData.get(ccApiProduct.PRODUCTLIST);
    }
} catch (Exception e) {
    // Error handling...
}
```

**4.** With the product data in a list, you can use Apex list parsing to extract data. For example, to get a product's name, create a string and cast the value of product's sfdcName field to the string.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccAPI.CURRENT VERSION,
   ccrz.ccApiProduct.PRODUCTIDLIST => new Set<String>{'Product ID 1', 'Product ID 2'},
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
           ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ S
   }
};
try {
   Map<String, Object> productFetchData = ccrz.ccApiProduct.fetch(productFetchQuery);
   if (productFetchData.get(ccrz.ccApiProduct.PRODUCTLIST) != null) {
       List<Map<String, Object>> myProductDataList = (List<Map<String, Object>>)
productFetchData.get(ccrz.ccApiProduct.PRODUCTLIST);
       String productName = (String) myProductDataList[0].get('sfdcName');
   }
} catch (Exception e) {
   // Error handling...
}
```

### Versions in B2B Commerce for Visualforce API Calls

Each B2B Commerce for Visualforce API call requires a ccrz.ccAPI.API\_VERSION key in the input map. The version defines the scope of input data that the method can accept, and the specific output data that the method returns.

Usually, you can simplify your implementation by pointing to whichever version is most recent in your version of the managed package:

```
ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
```

? Tip: We recommend that new implementations always use ccrz.ccApi.CURRENT\_VERSION whenever possible. This pointer ensures that your subscriber code always references the most recent version of the API, even when you upgrade to a new major release.

If necessary, reference a specific API version if you depend on a certain scope of data or functionality.

```
ccrz.ccApi.API_VERSION => 9
```

For example, if your subscriber code depends on functionality in an older version, pointing to the latest version can potentially break your subscriber code.

Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21 (version 4.13)	12
B2B Commerce for Visualforce Spring '20 (version 4.12)	11
B2B Commerce for Visualforce Summer '19 (version 4.11)	10
B2B Commerce for Visualforce Spring '19 (version 4.10)	9
B2B Commerce for Visualforce Summer '18 (version 4.9)	8
CloudCraze 4.8	7
CloudCraze 4.7	6
CloudCraze 4.6	5
CloudCraze 4.5	4
CloudCraze 4.4	3
CloudCraze 4.3	2
CloudCraze 4.2 and earlier	1

When you reference a specific API version and upgrade the managed package, you can continue to reference the older API version. But, as a best practice, we recommend that you update all your calls to reference the latest available version when possible.

If you try to call a version that doesn't exist, the method returns an exception:

- ccrz.BelowMinAPIVersionException if you try to call a version less than 1
- ccrz.ExceedsMaxAPIVersionException if you try to call a version greater than the latest available version

Even though you can still call an older version, don't mix versions when you call more than one method within the same operation. For example, if your code calls both ccrz.ccApiCart.addTo and ccrz.ccApiCart.price, specify the same version in both calls.

```
ccrz.ccApiCart.addTo(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => 9
});

ccrz.ccApiCart.price(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => 9
});
```

# Sizing and Scoping Options for a B2B Commerce for Visualforce API Method Call

Depending on the complexity of your storefront data, some B2B Commerce for Visualforce API calls can return a huge volume of data. For example, the <code>ccrz.ccApiProduct</code> class returns product records, but by default executes subqueries that return product media, product specs, and other related records. Sometimes, the solution you're building requires all of that data. Other times, the solution requires only the product records, and some or none of the related records. Maybe the solution requires only a fraction of all the possible product data the API can return.



Warning: If you extend any default data service provider classes, such as ccrz.ccServiceProduct, avoid modifying any size or scope options already specified. Otherwise, you risk breaking default functionality that calls the data service provider classes that you've extended. We recommend that you use these size and scope options only in subscriber code that calls the B2B Commerce for Visualforce global APIs.

To scope the size of a method's query, first include a ccrz.ccApi.SIZING key in your input map.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApI.CURRENT_VERSION,
    ccrz.ccApi.SIZING => new Map<String, Object> { }
};
```

Inside the ccrz.ccApi.SIZING key, include one or more ENTITYNAME keys for the class whose data you're querying.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
    }
}
```

Inside ENTITYNAME, include one or more of the available sizing flags.



Note: Some classes have methods that query different types of records, and require differentiated ENTITYNAME keys for the different record types. For example, the ccrz.ccApiPriceList class has methods that fetch price list records and a method that fetches price list item records. A key named ccrz.ccApiPriceList.ENTITYNAME defines the size of price list records, but doesn't apply to price list item records. For sizing price list items, use

ccrz.ccApiPriceList.ENTITYNAME\_PLI. To make sure you're using the correct key for your data, check the reference for the method you're calling.

### ccrz.ccApi.SZ DATA

Scope the number of fields returned for the primary object that the method queries. For example, restrict the number of fields on a product record that a ccrz.ccApiProduct method returns. This key accepts t-shirt sizes for values:

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
        }
    }
}
```

The specific fields returned for each size vary depending on the method. In general, the following conventions apply:

Value	Fields Returned
ccrz.ccApi.SZ_XS	Only sfdcName and sfid.  For child-level objects, this size also includes the ID of the parent object. For example, calling this size on a price list item also includes the ID of the parent price list.
ccrz.ccApi.SZ_S	All fields from ccrz.ccApi.SZ_XS, plus information such as storefront or SKU.
ccrz.ccApi.SZ_M	All fields from ccrz.ccApi.SZ_S, plus information such as status, type, and sequence.
ccrz.ccApi.SZ_L (default size if none is specified)	All fields from ccrz.ccApi.SZ_M, plus information such as long description, price totals, and adjustments.
ccrz.ccApi.SZ_XL	All possible fields.

For some methods, certain data size values also trigger a *subquery* for data from objects that are related to the object of the primary query. For example, specifying *SZ\_M* for ccrz.ccApiProduct.fetch results in an EProductMediasS field in the return data. This field isn't specified on the product object, but provides data from the product media records related to each product returned in the primary query. For better control of subquery data, use the ccrz.ccApi.SZ REL key on page 291.

### ccrz.ccApi.SZ\_REL

Specify the exact types of related records you want to return as a subquery, regardless of which subqueries your specified ccrz.ccApi.SZ DATA value triggers by default

For example, passing SZ\_M to ccrz.ccApiProduct.fetch returns product media and subscriptions records related to the product. What if you want all the product fields that SZ\_M returns, but none of the subscriptions data? And what if you want to also return product specs records, which by default is available only for SZ\_L?

Use the ccrz.ccApi.SZ REL flag and pass a List<String> with the names of specific subqueries you want to return:

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M,
            ccrz.ccApi.SZ_REL => new List<String>{'E_ProductMedias_r', 'Product_Specs_r'}
    }
};
```

Tip: For information about specific subqueries available for a particular primary object, see the reference for that object.

The content of ccrz.ccApi.SZ\_REL takes precedence over any subqueries returned by default for your ccrz.ccApi.SZ\_DATA value.

If you want to exclude subqueries entirely, pass an empty list:

```
ccrz.ccApi.SZ_REL => List<String>{ }
```

### ccrz.ccApi.SZ\_ASSC

In addition to subqueries, many B2B Commerce for Visualforce methods chain calls to methods of other classes for querying other relevant object data. For example, the ccrz.ccApiCart.fetch method returns cart data, which references addresses and products for a cart. To return address and product data, the ccrz.ccApiCart.fetch method also calls ccrz.ccApiAddress.fetch and ccrz.ccApiProduct.fetch, respectively. You can optionally disable calls to other APIs for the current call.

You can exclude both subqueries and other object data queries:

### ccrz.ccApi.SZ\_SKIPTRZ

Most B2B Commerce for Visualforce API methods return data as a List<Map<String, Object>>, where each Map<String, Object> in the list contains hashed object data. If you don't want to work with hashed object data, you can return a list of sObjects instead.

```
Map<String, Object> cartFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_SKIPTRZ => true
        }
    }
};
```



**Note**: The B2B Commerce for Visualforce API serializes the sObject data into separate strings instead of a consolidated sObject. Use this flag when you prefer to avoid the extra processing time required to serialize the data.

### ccrz.ccApi.SZ\_REFETCH

Some methods in the B2B Commerce for Visualforce API—such as create or revise methods—support an implicit refetch operation for fetching updated records after the method's logic executes. For example, several ccrz.ccApiCart methods implicitly refetch cart records after modifying their content so that the updated returns are returned immediately within the same transaction.

You can flag the API call to perform this refetch operation, which can help you optimize your subscriber code by avoiding redundant queries.

For information about whether a specific method supports the refetch flag, see the reference for that method.

### ccrz.ccApi.SZ\_SKIPFLTCK

Optionally, you can bypass any keys that scope the size of a method call.

```
ccrz.ccApi.SZ_SKIPFLTCK => true
```

(1) Important: In general, avoid open-ended queries and specify the scope and size of your method call. Setting this flag can create an unconstrained WHERE clause, which can significantly affect your org's resources. Use this flag sparingly.

### Combine Multiple Flags

You can include more than one class's ENTITYNAME in your input map's ccrz.ccApi.SIZING key, and you can include more than one sizing flag on each ENTITYNAME.

The sizing request applies to all subsequent calls by any API class in the same thread. For example, maybe you limit the size of product data on a ccrz.ccApiCart call but then also query that product data with maximum sizing. In this case, only the first sizing specification is respected.

# ccrz.ccApi

Defines the base constants and exceptions that all methods of the B2B Commerce for Visualforce global API reference or return. The methods of this class check for data size flags on method calls and handle registration for custom logic and service implementations.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Globally Available Keys

This class defines the following global keys. In the input map for a specific method call, specify values for these keys to establish the scope and size of your query. A method's output map also uses these keys for return data.

#### ccrz.ccApi.API VERSION

String that defines the version of a method call.

#### ccrz.ccApi.CACHE DATA

Map<String, Object> that specifies cached data for a particular object, such as the category tree or page labels.

#### ccrz.ccApi.CACHE KEYMAP

Map<String, Object> that uniquely identifies the requested cache data and ensures that repeated calls always return the same set of data. The ccrz.ccLogic.prepareCacheKey method returns the value for this key.

#### ccrz.ccApi.CACHE INP

Map<String, Object> that contains input data for the cache query.

#### ccrz.ccApi.CACHE KEY

String that specifies a key for the cached data. The ccrz.ccLogic.prepareCacheKey method returns the value for this key.

#### ccrz.ccApi.CACHE TTL

Integer that specifies the number of seconds for the time to live (TTL) for a particular type of cached data, or how long that data remains in the cache. For example, a TTL value of 300 is 300 seconds, or five minutes. When the TTL expires, the data is no longer available in the cache.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

The ccrz.ccApi class also defines the following constants that can be used as subkeys for the SIZING map.

- SZ DATA
- SZ REL
- SZ ASSC

### Methods

#### IN THIS SECTION:

#### checkSizing

Checks for any specified ccrz.ccApi.SIZING key and sets the ccrz.ccApi.SZ\_DIR variable for sizing subsequent API calls within the same API transaction.

#### checkVersion

Checks whether the input map includes the ccrz.ccApi.API VERSION key.

#### flushCache

Clears the B2B Commerce for Visualforce partition of your org's Platform Cache, which invalidates any existing org-level cache data. Use this method when the B2B Commerce data in Platform Cache is updated from some external source, such as a batch job. It's always safe to flush the cache.

#### registerService

Registers a new data service class in the B2B Commerce for Visualforce API, such as for add-on packages or custom APIs that reference existing B2B Commerce data services. This method is rarely used in B2B Commerce solutions.

#### registerLogic

Registers a new logic service class in the B2B Commerce for Visualforce API, such as for add-on packages or custom APIs that reference existing B2B Commerce logic services. This method is rarely used in B2B Commerce solutions.

#### unregisterService

Removes a data service registration from the B2B Commerce for Visualforce API. This method is typically used only during development, and is rarely used in production.

#### unregisterLogic

Removes a logic service registration from the B2B Commerce for Visualforce API. This method is typically used only during development, and is rarely used in production.

# ccrz.ccApi.checkSizing

Checks for any specified ccrz.ccApi.SIZING key and sets the ccrz.ccApi.SZ\_DIR variable for sizing subsequent API calls within the same API transaction.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global static Map<String, Object> checkSizing(Map<String, Object>)

# ccrz.ccApi.checkVersion

Checks whether the input map includes the ccrz.ccApi.API VERSION key.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global static Integer checkSizing(Map<String, Object>)

## Inputs (Required)

Integer that specifies the version of the B2B Commerce for Visualforce API.

### Outputs

Map<String, Object> that can include the following exceptions for an API call:

#### BelowMinAPIVersionException

Returned when the ccrz.ccApi.API VERSION key specifies a version that is less than 1.

#### ExceedsMaxAPIVersionException

Returned when the ccrz.ccApi.API VERSION key specifies a version that exceeds the latest version of the API that's available.

#### NoApiVersionException

Returned when the input map doesn't include the ccrz.ccApi.API VERSION key.

# ccrz.ccApi.flushCache

Clears the B2B Commerce for Visualforce partition of your org's Platform Cache, which invalidates any existing org-level cache data. Use this method when the B2B Commerce data in Platform Cache is updated from some external source, such as a batch job. It's always safe to flush the cache.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global static Map<String, Object> flushCache(Map<String, Object>)

### Inputs (Required)

Map<String, Object>, which isn't used for any operations.

#### Outputs

Map<String, Object> that's always empty.

SEE ALSO:

Salesforce Help Improve Storefront Performance with Platform Cache

# ccrz.ccApi.registerService

Registers a new data service class in the B2B Commerce for Visualforce API, such as for add-on packages or custom APIs that reference existing B2B Commerce data services. This method is rarely used in B2B Commerce solutions.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global static Map<String, Object> registerService(Map<String, Object>)
```

### Inputs (Required)

Map<String, Object>, where each key is the key that the B2B Commerce for Visualforce API references for managing the data service. The value for each key is the namespaced default class of the data service.

For example, to register myDataService and anotherDataService, set up your input map with the following keys:

```
ccrz.ccApi.registerService(new Map<String,Object>{
    'myDataService' => 'namespace.myDataService'
    'anotherDataService' => 'namespace.anotherDataService'
});
```



#### Tip:

- The combination of the key name and default class name can't exceed 40 characters.
- Don't use S or L as the first character of the key name. Those characters are reserved for internal use.

### Outputs

Map<String, Object> that includes all registered data service and logic service providers.

# ccrz.ccApi.registerLogic

Registers a new logic service class in the B2B Commerce for Visualforce API, such as for add-on packages or custom APIs that reference existing B2B Commerce logic services. This method is rarely used in B2B Commerce solutions.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

```
global static Map<String, Object> registerLogic(Map<String, Object>)
```

### Inputs (Required)

Map<String, Object>, where each key is the key that the B2B Commerce for Visualforce API references for managing the logic service. The value for each key is the namespaced default class of the logic service.

For example, to register myLogicService and anotherLogicService, set up your input map with the following keys:

```
ccrz.ccApi.registerLogic(new Map<String,Object>{
    'myLogicService' => 'namespace.myLogicService'
    'anotherLogicService' => 'namespace.anotherLogicService'
});
```



- The combination of the key name and default class name can't exceed 40 characters.
- Don't use S or L as the first character of the key name. Those characters are reserved for internal use.

### Outputs

Map<String, Object> that includes all registered data service and logic service providers.

# ccrz.ccApi.unregisterService

Removes a data service registration from the B2B Commerce for Visualforce API. This method is typically used only during development, and is rarely used in production.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global static Map<String, Object> unregisterService(Map<String, Object>)

### Inputs (Required)

Map<String, Object>, where each key is the key used to register the data service. The value for each key is a Boolean:

Value	Usage
true	The method first checks for an override of the data service. If an override exists, the method returns ccrz.ccApi.UnregisterServiceException.
false	The method first checks for an override of the data service. If an override exists, the override is removed. If an override doesn't exist, the data service is unregistered.

## Outputs

Map<String, Object> that includes all registered data service and logic service providers.

# ccrz.ccApi.unregisterLogic

Removes a logic service registration from the B2B Commerce for Visualforce API. This method is typically used only during development, and is rarely used in production.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global static Map<String, Object> unregisterLogic(Map<String, Object>)

## Inputs (Required)

Map<String, Object>, where each key is the key used to register the logic service. The value for each key is a Boolean.

Value	Usage
true	The method first checks for an override of the logic service. If an override exists, the method returns ccrz.ccApi.UnregisterServiceException.
false	The method first checks for an override of the logic service. If an override exists, the override is removed. If an override doesn't exist, the logic service is unregistered.

### Outputs

Map<String, Object> that includes all registered data service and logic service providers.

# ccrz.ccApiAccount

Query, create, or modify account records that have B2B Commerce for Visualforce custom fields.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

#### IN THIS SECTION:

#### createAccount

Creates an account record from the fields and values that you specify.

#### fetch

Executes a SOQL query of account records and returns a list of accounts that match your query.

#### getAnonymous

Returns the account associated with the storefront guest user.

### getCurrent

Returns the account associated with the user currently logged in to the storefront.

revise

Updates fields on existing account records.

validateNew

Checks new account records for missing fields and returns a list of errors.

SEE ALSO:

Account (B2B Commerce for Visualforce)

# ccrz.ccApiAccount.createAccount

Creates an account record from the fields and values that you specify.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> createAccount(Map<String, Object>)

### **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicAccountCreateAccount

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiAccount.ACCOUNT\_NEW

List<String> that specifies fields and values for creating the account record. Only certain account fields are writable when creating the record:

Field	Required?	Туре
billingAddress	Required	Map <string, object=""> (see the following table)</string,>
companyName	Optional	String
customField1	Optional	String
customField2	Optional	String
firstName	Required	String
lastName	Required	String
primaryPhone	Required	String
shippingAddress	Required	<pre>Map<string, object=""> (see the following table)</string,></pre>
taxExemptFlag	Required	Boolean
userName	Required	String

The billingAddress and shippingAddress maps can contain the following writable fields:

Field	Required?	Туре
address1	Required	String
address2	Optional	String
city	Required	String
country	Required	String
countryCode	Optional	String
postalCode	Required	String
state	Required	String
stateCode	Optional	String



🁔 Tip: For more information about how these fields map to account object fields, see the reference for ccrz.ccLogicAccountCreateAccount.processAccount.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiAccount.fetch for returning the created accounts.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
}
```

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiAccount.ACCOUNTS

List<Map<String, Object>> that contains only one Map<String, Object>, which represents the created account record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

# Example: Example

Create an account by passing in a JSON-formatted definition of a new account record (newAccountJSON, not shown). Set the ccrz.ccApi.SZ REFETCH => true flag on the input map and return the created account in the list of accounts.

```
Map<String,Object> newAccountMap =
(Map<String,Object>) JSON.deserializeUntyped(newAccountJSON);
Map<String,Object> inputData = new Map<String,Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiAccount.ACCOUNT NEW => newAccountMap,
    ccrz.ccApi.SIZING => new Map<String, Object>{
        ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object>{
```

```
ccrz.ccApi.SZ_REFETCH => TRUE
}

}

try {
    Map<String,Object> outputData = ccrz.ccApiAccount.createAccount(inputData);
    if(outputData.get(ccrz.ccApiAccount.ACCOUNTS) != null) {
        // THIS IS THE REFETCHED ACCOUNT
        // The cast to List<Map<String, Object>> is necessary...
        List<Map<String,Object>> accounts = (List<Map<String,Object>>)
outputData.get(ccrz.ccApiAccount.ACCOUNTS);
        // DO SOMETHING WITH THE DATA.
}

} catch (Exception e) {
        // Error handling...
}
```

SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz.ccApiAccount.fetch

Executes a SOQL guery of account records and returns a list of accounts that match your guery.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> fetch(Map<String, Object>)
```

### Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceAddress

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiAccount.ID

String of a specific account ID to query.

#### ccrz.ccApiAccount.IDS

List<String> of specific account IDs to query:

```
new List<String>{'Account ID 1', 'Account ID 2'}
```

#### ccrz.ccApiAccount.NAME

String that specifies the name of an account to query.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiAccount.ACCOUNTS

List<Map<String, Object>>, where each Map<String, Object> represents an account record.



🚺 Tip: To specify which fields the API returns for each account record, request a specific data size for the ccrz.ccApiAccount.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ M
}
```

For information about which fields are available with different data sizes, see the account reference.

SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

## ccrz.ccApiAccount.getAnonymous

Returns the account associated with the storefront guest user.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> getAnonymous(Map<String, Object>)
```

## Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicAccountGetAnonymous

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAccount.ACCOUNTS

List<Map<String, Object>> that contains only one Map<String, Object>, which represents the account associated with the storefront guest user.



Note: This method chains a call to ccrz.ccApiAccount.fetch for returning this key.

### Example: Example

Parse the ccrz.ccApiAccount.ACCOUNTS return key and get the only included Map<String, Object>, which describes the storefront guest user account. Capture the account name in a string variable.

```
Map<String,Object> inputData = new Map<String,Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION
 try {
   Map<String, Object> outputData = ccrz.ccApiAccount.getAnonymous(inputData);
    if(outputData.get(ccrz.ccApiAccount.ACCOUNTS) != null) {
        // The cast to List<Map<String, Object>> is necessary...
```

```
List<Map<String,Object>> accounts = (List<Map<String,Object>>)
outputData.get(ccrz.ccApiAccount.ACCOUNTS);
        // Get the Current Account Account
        Map<String, Object> anonymousAccount = accounts.get(0);
        // The cast, again, is necessary...
        String anonymousAccountName = (String)anonymousAccount.get('sfdcName');
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

Salesforce Help: Allow a B2B Commerce for Visualforce Guest Buyer to Browse Your Storefront

# ccrz.ccApiAccount.getCurrent

Returns the account associated with the user currently logged in to the storefront.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
qlobal static Map<String, Object> getCurrent(Map<String, Object>)
```

### **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicAccountGetCurrent

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAccount.ACCOUNTS

List<Map<String, Object>> that contains only one Map<String, Object>, which represents the account associated with the current storefront user.



Note: This method chains a call to ccrz.ccApiAccount.fetch for returning this key.



### Example: Example

Parse the ccrz.ccApiAccount.ACCOUNTS return key and get the only included Map<String, Object>, which describes the current storefront user's account. Capture the account name in a string variable.

```
Map<String,Object> inputData = new Map<String,Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION
 try {
   Map<String, Object> outputData = ccrz.ccApiAccount.getCurrent(inputData);
    if(outputData.get(ccrz.ccApiAccount.ACCOUNTS) != null) {
        // The cast to List<Map<String, Object>> is necessary...
```

```
List<Map<String,Object>> accounts = (List<Map<String,Object>>)
outputData.get(ccrz.ccApiAccount.ACCOUNTS);

// Get the Current Account Account
Map<String, Object> currentAccount = accounts.get(0);

// The cast, again, is necessary...
String currentAccountName = (String)currentAccount.get('sfdcName');
}
catch (Exception e) {
    // Error handling...
}
```

SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz.ccApiAccount.revise

Updates fields on existing account records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.
- Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

### Signature

```
global static Map<String, Object> revise(Map<String, Object>)
```

## Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceAccount

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiAccount.ACCOUNTS

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to update for an account record.

(1) Important: You can update the following fields on an account record, but you must include the sfid for each record you're updating.

Field	Туре	Corresponding Account Field
billingCity	String	BillingAddress
billingCountry	String	
billingPostalCode	String	
billingState	String	
billingStreet	String	
EAAccountGroup	ID	ccrzAccountGroupc
parentId	String	Parentld
phone	Boolean	Phone
preventAddrBookSave	Boolean	ccrzPreventAddrBookSavec
preventNewAddrCheckout	Boolean	ccrzPreventNewAddrCheckoutc
preventNewBillAddrCO	String	ccrz_PreventNewBillAddrCO_c
sfdcName	String	Name
sfId	String	Salesforceld
shippingCity	String	ShippingAddress
shippingCountry	String	
shippingPostalCode	String	
shippingState	String	

Field	Туре	Corresponding Account Field
shippingStreet	String	
sourceSystem	String	ccrzSourceSystemc
taxExemptAccount	Boolean	ccrzTaxExemptAccountc

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiAccount.fetch for returning the updated accounts.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAccount.ACCOUNTS

List<Map<String, Object>>, where each Map<String, Object> represents an updated account record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.

SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz.ccApiAccount.validateNew

Checks new account records for missing fields and returns a list of errors.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> validateNew(Map<String, Object>)

### **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicAccountValidateNew

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiAccount.ACCOUNT NEW

Map<String, Object> of fields and values to validate for a new account record. The following fields are required in the map:

- firstName
- lastName
- primaryPhone
- language
- currencyCode
- username
- companyName
- companyType
- billingAddress
  - address1
  - city
  - postalCode
- shippingAddress
  - address1
  - city
  - postalCode

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.



### Example: Example

Validate the fields in JSON-formatted definition of a new account record (newAccountJSON, not shown). Capture the error messages and process them.

```
Map<String,Object> newAccountMap =
(Map<String, Object>) JSON.deserializeUntyped (newCustomerJSON);
 Map<String,Object> inputData = new Map<String,Object>{
     ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
     ccrz.ccApiAccount.ACCOUNT NEW => newAccountMap
try {
     List<ccrz.cc bean Message> errorMessages =
(List<ccrz.cc bean Message>)ccrz.ccApiAccount.validateNew(inputData).get(ccrz.ccApiAccount.MESSAGES)
     // Assume there are errors.
    for (ccrz.cc bean Message msg : errorMessages) {
        // Get the error message...
    castMsg.labelId;
} catch (Exception e) {
     // Exception handling...
```

SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz.ccApiAddress

Query, create, or update bill-to or ship-to address details for your storefront's contact addresses, such as those on cart and order records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

#### IN THIS SECTION:

#### createAddress

Creates a contact address record from the fields and values that you specify. On the storefront, this method is invoked by default when a buyer enters new address information during line-level independence (LLI) checkout flow.

#### fetch

Executes a SOQL query of contact address records and returns a list of contact addresses that match your query.

#### revise

Updates fields on existing contact address records.

SEE ALSO:

ccrz\_\_E\_ContactAddr\_\_c

# ccrz.ccApiAddress.createAddress

Creates a contact address record from the fields and values that you specify. On the storefront, this method is invoked by default when a buyer enters new address information during line-level independence (LLI) checkout flow.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> createAddress(Map<String, Object>)

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicAddressCreateAddress

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to use for creating a contact address record.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiAddress.fetch for returning the created addresses.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
   }
}
```

#### ccrz.ccApi.SKIP OWNERID

Boolean

Value	Usage
true	Set the Owner field on the new sObject to a default value.
false (default)	Set the Owner field on the new sObject to the value of ccrz.cc_CallContext.currUserId.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a created contact address record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

### ccrz.ccApiAddress.ADDRESSIDLIST

List<String> of Salesforce IDs of the created contact address records.

#### SEE ALSO:

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers
Salesforce Help Standard Checkout versus Line-Level Independence (LLI) Checkout
Salesforce Help Specify Whether a Buyer Can Modify Addresses on the Checkout Page

# ccrz.ccApiAddress.fetch

Executes a SOQL query of contact address records and returns a list of contact addresses that match your query.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> fetch(Map<String, Object>)

### Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceAddress

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiAddress.ADDRESSIDLIST

Set<String> of specific contact address IDs to query:

```
new Set<String>{'Contact_Address_ID_1', 'Contact_Address_ID_2'}
```

### **Outputs**

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz E ContactAddr c.



Tip: To specify which fields the API returns for each contact address record, request a specific data size for the ccrz.ccApiAddress.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E ContactAddr c reference.

# Example: Example

Query a pair of contact address IDs, and capture the first contact's first name in a string variable.

```
Set<String> addressIdList = new Set<String>{'ADDRESS_ID_1', 'ADDRESS_ID_2'};

Map<String, Object> addressFetchQuery = new Map<String, Object>{
    ccrz.ccApiAddress.ADDRESSIDLIST => addressIdList,
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> addressFetchData = ccrz.ccApiAddress.fetch(addressFetchQuery);

    if (addressFetchData.get(ccrz.ccApiAddress.ADDRESSLIST) != null) {
        List<Map<String, Object>> outputAddressList = (List<Map<String, Object>>)
    addressFetchData.get(ccrz.ccApiAddress.ADDRESSLIST);
        String firstName = (String) outputAddressList[0].get('firstName');
    }
} catch (Exception e) {
    // Error handling...
}
```

# ccrz.ccApiAddress.revise

Updates fields on existing contact address records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.
- - Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
    - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
    - Execute the DML operation in your custom Apex class using the without sharing accessor.

### Signature

```
global static Map<String, Object> revise(Map<String, Object>)
```

### Service Layer Classes

### **Data Service Provider**

ccrz.ccServiceAddress

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiAddress.fetch for returning the updated addresses.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ REFETCH => TRUE
    }
}
```

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to update for a contact address record.

Important: You can update any fields on a contact address record, but you must include the sfid for each record you're updating.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated contact address record.



Mote: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.

# ccrz.ccApiAddressBook

Query, create, update, or delete account address book records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

🁔 Tip: The methods of this class work with the corz 🛮 E AccountAddressBook 💍 cobject, and not ccrz E AddressBook c, which is deprecated.

# Methods

#### IN THIS SECTION:

### createAddressBook

Creates an account address book record from the fields and value that you specify.

Executes a SOQL query of account address book records and returns a list of account address books that match your query.

#### removeAddressBook

Deletes account address book records whose IDs you specify.

Updates fields on existing account address book records.

SEE ALSO:

ccrz\_\_E\_AccountAddressBook\_\_c

# ccrz.ccApiAddressBook.createAddressBook

Creates an account address book record from the fields and value that you specify.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> createAddressBook(Map<String, Object>)

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicAddressBookCreateAddressBook

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to use for creating an account address book record.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that can include a flag to include the created address book records with the return data. This flag ensures that the ccrz.ccApiAddressBook.fetch method also executes within this method's logic chain.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiAddressBook.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
}
```

For more information, see Sizing and Scoping Options for a B2B Commerce for Visualforce API Method Call.

### **Outputs**

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> represents a created account address book record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

### Example: Example

Create a default billing address.

```
Map<String,Object> addressBookToInsert = new Map<String,Object>{
    'addressType' => 'Billing',
    'default' => 'true',
    'typeReadOnly' => 'false',
    'EContactAddress' => 'some Contact Address ID',
    'accountId' => 'some Account ID'
 };
Map<String,Object> createAddressBookInput = (new Map<String,Object>{
     ccrz.ccApiAddressBook.ADDRESSBOOKS => new
List<Map<String,Object>>{addressBookToInsert},
     ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
     ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiAddressBook.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ REFETCH => true
    }
});
   Map<String, Object> createdAddressBookData =
ccrz.ccApiAddressBook.createAddressBook(createAddressBookInput);
   if (createdAddressBookData.get(ccrz.ccApiAddressBook.ADDRESSBOOKS) != null) {
        List<Map<String, Object>> addressBookList = (List<Map<String,</pre>
Object>>) createdAddressBookData.get(ccrz.ccApiAddressBook.ADDRESSBOOKS);
        Map<String, Object> addressBook = addressBookList.get(0);
        String addressType = (String)addressBook.get('addressType');
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers

# ccrz.ccApiAddressBook.fetch

Executes a SOQL query of account address book records and returns a list of account address books that match your query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

### **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceAddressBook

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



Note: Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

### ccrz.ccApiAddressBook.ACCOUNTID

String that specifies an account ID whose associated address books you want to query.

### ccrz.ccApiAddressBook.ADDRESSID

String that specifies a contact address ID whose associated account address books you want to query.

### ccrz.ccApiAddressBook.ISDEFAULT

Boolean

Value	Usage
true	Return only the account address books where the Default field is checked.
false (default)	Ignore the Default field when querying account address books.

#### ccrz.ccApiAddressBook.OWNERID

String that specifies a user ID. Return only the account address books where the Owner field matches the specified user ID.

### ccrz.ccApiAddressBook.TYPE

String that specifies the type of account address books to query, either Shipping or Billing.

#### ccrz.ccApiAddressBook.ID

String that specifies an account address book ID to guery.

### ccrz.ccApiAddressBook.IDS

List<String> of specific account address book IDs to query:

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> represents an account address book record.



**Note**: Each address book record in the return data includes the same set of fields, regardless of any specific ccrz.ccApi.SIZING input data size request.

### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a contact address record that's related to an account address book.



### Example: Example

Query the account address books related to a specific account, and capture the account address book type in a string variable.

```
Map<String,Object> addressBookFetchQuery = new Map<String,Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiAddressBook.ACCOUNTID => 'Some Account ID'
};
try {
   Map<String, Object> addressBookFetchData =
ccrz.ccApiAddressBook.fetch(addressBookFetchQuery);
   if (addressBookFetchData.get(ccrz.ccApiAddressBook.ADDRESSBOOKS) != null) {
        List<Map<String, Object>> addressBookList = (List<Map<String,</pre>
Object>>) addressBookFetchData.get(ccrz.ccApiAddressBook.ADDRESSBOOKS);
        Map<String, Object> addressBook = addressBookList.get(0);
        String addressType = (String)addressBook.get('addressType');
    }
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiAddressBook.removeAddressBook

Deletes account address book records whose IDs you specify.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
qlobal static Map<String, Object> removeAddressBook(Map<String, Object>)
```

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicAddressBookRemoveAddressBook

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiAddressBook.IDS

List<String> of Salesforce IDs of the account address book records to delete.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### **Outputs**

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# Example: Example

Delete a specific account address book.

```
Map<String,Object> removeAddressBookInput = (new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiAddressBook.IDS => new List<String>{'some_Account_Address_Book_ID'}
});

try {
    Map<String, Object> removeAddressBookResult =
    ccrz.ccApiAddressBook.removeAddressBook(removeAddressBookInput);
} catch (Exception e) {
```

```
// Error handling...
}
```

# ccrz.ccApiAddressBook.revise

Updates fields on existing account address book records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.
- Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

## Signature

```
global static Map<String, Object> revise(Map<String, Object>)
```

### Service Layer Classes

### **Data Service Provider**

ccrz.ccServiceAddressBook

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that can include a flag to include the updated address book records with the return data. This flag ensures that the ccrz.ccApiAddressBook.fetch method also executes within this method's logic chain.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiAddressBook.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
    }
}
```

For more information, see Sizing and Scoping Options for a B2B Commerce for Visualforce API Method Call.

### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to update for an account address book record.



[] Important: You can pass any fields on an account address book record, but you must include the sfid for each record you're updating.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> represents an updated account address book record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.



### Example: Example

Change the typeReadOnly field value to TRUE for a specific account address book record.

```
Map<String,Object> addressBookToUpdate = new Map<String,Object>{
    'sfid' => 'some Account Address Book ID',
    'typeReadOnly' => TRUE
};
Map<String,Object> reviseAddressBookInput = (new Map<String,Object>{
    ccrz.ccApiAddressBook.ADDRESSBOOKS => new
List<Map<String,Object>>{addressBookToUpdate},
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiAddressBook.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ REFETCH => true
    }
});
try {
   Map<String, Object> reviseAddressBookResult =
ccrz.ccApiAddressBook.revise(reviseAddressBookInput);
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiAttribute

Query attribute records defined for products when the storefront uses attribute-driven commerce.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

fetch

Executes a SOQL query of attribute records.

SEE ALSO:

Salesforce Help Set Up Attribute-Based Products

# ccrz.ccApiAttribute.fetch

Executes a SOQL query of attribute records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> fetch(Map<String, Object>)

### Service Layer Classes

**Data Service Provider** 

ccrz.ccServiceAttribute

**Logic Service Provider** 

ccrz.ccLogicAttrFetch

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

### ccrz.ccApiAttribute.ATTRIBUTEIDS

Map<String, Object> where each key is a parent attribute ID and each value is a List<String> of child attribute IDs:

```
new Map<String, Object>{
    'ParentAttributeID1' => new List<String>{'ChildAttributeID1', 'ChildAttributeID2',
 'ChildAttribute3'},
    'ParentAttributeID2' => new List<String>{'ChildAttributeID4', 'ChildAttributeID6',
 'ChildAttribute5'}
```

### ccrz.ccApiAttribute.BYAID

Boolean

Value	Usage
true	Key returned attribute records by the E_Attributec field instead of ID:
	Map <string, object="">{</string,>
	'ParentAttributeID1'+ccrz.ccApiPriceList.DELIMITER+'ChildAttributeID1' => {E_Attributec},
	<pre>'ParentAttributeID1'+ccrz.ccApiPriceList.DELIMITER+'ChildAttributeID2' =&gt; {E_Attributec},</pre>
false (default)	Key returned attribute records by ID.

#### ccrz.ccApiAttribute.IDS

Set<String> of specific attribute IDs to query:

```
new Set<String>{'Attribute_ID_1', 'Attribute_ID_2'}
```

### ccrz.ccApiAttribute.LOCALE

String that specifies one of your storefront's supported locales.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### ccrz.ccApiAttribute.PARENTIDS

Set<String> of parent attribute ID Platform IDs whose child attributes you want to query.



(1) Important: When you include this key in your input map, the parent attribute records aren't included in the returned attributes. To include parent IDs, specify their IDs in the ccrz.ccApiAttribute.IDS input key.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiPriceList.ATTRIBUTES

A Map<String, Map<String, Object>> where each Map<String, Object> represents a return attribute, keyed by its ID. To key by E Attribute c field instead, include ccrz.ccApiAttribute.BYAID in the input map.

# ccrz.ccApiCart

Query, create, update, or remove cart records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Methods

#### IN THIS SECTION:

#### addTo

Adds products to an existing cart, or creates a cart from blank input data.

### cartAdjustment

Calls the ccrz.cc\_api\_PriceAdjustment extension point class and updates the cart and cart item prices. This method doesn't invoke any other pricing calls.

#### cloneCart

Creates a copy of an existing cart or wish list. For a cart, this method updates the ccrz\_\_ActiveCart\_\_c field on both the original cart record and its clone.

#### create

Creates a cart record. You can specify field values for the cart, or set up an empty cart with default field values.

### createCartItemGroup

Creates a shipping group of cart items for line-level independence (LLI) checkout.

#### createWishList

Creates a wish list and wish list items based on a specific cart ID and its cart items.

#### fetch

Executes a SOQL query of cart records, and returns a list of carts that match your query.

#### fetchCartItems

Executes a SOQL query of cart item records, and returns a list of cart items that match your query.

### getActive

Calls the ccrz.ccApiCart.fetch method and returns the active cart for the current account from the set of queried carts. This method sets other carts that the account can access to inactive.

#### getDeliveryDates

Calls the ccrz.cc\_api\_DeliveryDate extension point class and returns the available delivery dates for one or more shipping addresses.

### getShippingOptions

Calls the ccrz.cc\_api\_ShippingAndHandling extension point class and returns the available shipping options for one or more shipping addresses.

#### initltemGroups

Initializes shipping groups on a specific cart for line-level independence (LLI) checkout. This method creates a single default shipping group with all cart items and the account's default shipping address. If the cart already contains at least one group, this method assigns any cart items that aren't assigned to a group to that group.

#### piace

Converts a cart to a corresponding order synchronously.

### placeAsync

Converts a cart to a corresponding order using asynchronous Apex jobs. This method is called recursively for processing multiple, small batches of cart items. When this method is first called, it first executes synchronous logic, and then enqueues recursive calls that execute asynchronous logic. Only the synchronous logic provides return data.

#### price

Reprices all the items in a cart.

### priceAsync

Reprices all the items in a cart using asynchronous Apex jobs. This method supports pricing a cart with a much larger number of items than the ccrz.ccApiCart.price method. This method also includes both a synchronous portion that updates the cart's status and instantiates the asynchronous reprice jobs. However, the asynchronous behavior means that there's no guarantee for how long it takes for the jobs to complete.

### processItemGroups

Moves cart items between shipping groups for line-level independence (LLI) checkout.

#### removeCart

Deletes cart records, including wish lists. If a deleted cart or wish list was active for the current account, this method also determines which cart or wish list becomes active next.

### removeCartItemGroup

Deletes shipping groups of cart items for line-level independence (LLI) checkout.

#### removeFrom

Removes items from a cart. This method doesn't invoke pricing logic for repricing the cart after the items have been removed.

#### repair

Returns a cart where the status remains Repricing even after a repricing job completes, updates the status to Open, and resets the Repriced Date timestamp. A cart can remain in this status when a repricing job is unsuccessful or no longer available in the org. This method calls the ccrz.ccApiCart.fetch method for returning the affected cart.

### revise

Updates certain fields on a cart.

### revise Cart Item Group

Updates certain fields on a cart item group record for line-level independence (LLI) checkout.

#### saveCart

Calls the ccrz.ccApiCart.validate method for setting the cart's ccrz\_\_ValidationStatus\_\_c field. If you're using effective accounts, this method also invokes the ccrz.cc\_hk\_EffectiveAccount.saveCart method for updating cart address information.

#### setActive

Sets a single cart as the active cart for a particular owner, and updates all the owner's other open carts to inactive. Finally, this method fetches the new active cart.

#### transferCart

Transfers ownership of a cart to another user. By default, B2B Commerce for Visualforce calls this method when a guest user begins adding items to a cart and then registers for a storefront account. This method transfers ownership of the cart from the default owner to the newly registered user.

#### validate

Provides an extension point for implementing business rules that ensure that a buyer is allowed to check out from the Shopping Cart page. By default, this method calls ccrz.ccApiCart.fetch and returns both the fetched cart data and a Boolean flag that indicates whether the buyer can check out.

# ccrz.ccApiCart.addTo

Adds products to an existing cart, or creates a cart from blank input data.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

The current version of this method supports adding the following product types and pricing configurations to a cart:

- All standard product types
- Subscription products, kits, bundles, and dynamic kits based on the ccrz E SubProdTerm c object
- Products based on attribute-driven commerce
- Externally priced products

## Signature

global static Map<String, Object> addTo(Map<String, Object>)

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartAddTo

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

- Ø
- **Note**: This method creates a cart—instead of adding products to an existing cart—when any of the following conditions are true:
- The current user isn't entitled to access the cart that the ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART ENCID key specifies.
- The method's input map doesn't specify ccrz.ccApiCart.CART ID or ccrz.ccApiCart.CART ENCID.
- Note: In version 9 or later of the API, if the specified cart is inactive when this method executes, the cart becomes active when this method completes. In version 8 or earlier of the API, the cart remains inactive when this method completes.

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

### ccrz.ccApiCart.CART ID

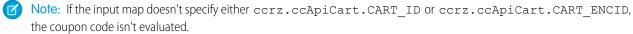
String that specifies the Salesforce ID of an existing cart record to add products to.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of an existing cart record to add products to.

### ccrz.ccApiCart.COUPON CODE

String that specifies a coupon code to apply to the cart.



### ccrz.ccApiCart.ISREPRICE

Boolean

Value	Usage
true	Call the ccrz.ccApiCart.price method to reprice the cart after the items are added.
	Note: This operation can be expensive, depending on the complexity of your cart data, but ensures that prices are current and entitlement is correct.
false (default)	Don't reprice cart items.

### ccrz.ccApiCart.ISSKIPPRICING

Boolean

Value	Usage
true	Call the ccrz.ccLogicProductPricing class for pricing the products you're adding to the cart.
false (default)	Ignore pricing information for the products you're adding to the cart.

### ccrz.ccApiCart.LINE DATA

List<Map<String, Object>>, where each Map<String, Object> describes a ccrz E CartItem crecord to create. For information about this list's keys and requirements, see the Inputs for Cart Line Data section.



🊺 Tip: This key also accepts a List<ccrz.ccApiCart.LineData> representation, which was required in version 5 or earlier of this method. We recommend that new solutions always use the List<Map<String, Object>> representation, which provides better compatibility with other classes of the API.

### Inputs for Cart Line Data

The input map key, ccrz.ccApiCart.LINE DATA, accepts a List<Map<String, Object>>, where each <Map<String, Object>> describes a ccrz E CartItem c to create. Each map can contain the following fields:

### ccrz.ccApiCart.LINE DATA ATTRIBUTE LIST

List<ID> for an attribute-based product to add to the cart. The first ID in the list is a primary attribute, the second ID is a secondary attribute, and third ID is a tertiary attribute.

#### ccrz.ccApiCart.LINE DATA EXT NAME

String that specifies a value for the ccrz ExtName c field on the created ccrz E CartItem c record. Use this key when you also specify ccrz.ccApiCart.LINE DATA PRICE.

### ccrz.ccApiCart.LINE DATA EXT SKU

String that specifies a value for the ccrz ExtSKU c field on the created ccrz E CartItem c record. Use this key when you also specify ccrz.ccApiCart.LINE DATA PRICE.

### ccrz.ccApiCart.LINE DATA LABEL

String that specifies a value to set for the Item Label field on the created ccrz E CartItem c record.



Note: If you're adding multiple dynamic kits to the cart at one time, we recommend that you always provide a value for this label. Otherwise, errors can occur when attempting to add dynamic kits to the cart.

### ccrz.ccApiCart.LINE DATA MINOR LINE DATAS

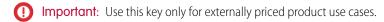
List<Map<String, Object>>, where each <Map<String, Object>> contains these same fields for a component product of a composite product.

### ccrz.ccApiCart.LINE DATA PARENT PRODUCT SFID

String that specifies the ID of a composite product. Specify this key when you're adding an aggregated product. Use ccrz.ccApiCart.LINE DATA PRODUCT SFID for the component product (the individual style) and ccrz.ccApiCart.LINE DATA PARENT PRODUCT SFID for the aggregated product (parent). For more information, see Create an Aggregated Product.

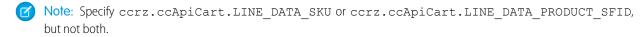
#### ccrz.ccApiCart.LINE DATA PRICE

Decimal that specifies the product's externally defined price. The added product inherits the properties of an externally priced product.



### ccrz.ccApiCart.LINE DATA PRODUCT SFID

Salesforce ID for the product to add to the cart.



### ccrz.ccApiCart.LINE DATA QUANTITY

Integer that specifies the quantity for the product to add to the cart.

### ccrz.ccApiCart.LINE DATA SELLER SFID

Salesforce ID of a seller, which can determine pricing and entitlement when creating the ccrz E CartItem c record.

### ccrz.ccApiCart.LINE DATA SKU

String that specifies the SKU for the product to add to the cart.



🕜 Note: Specify ccrz.ccapiCart.LINE DATA SKU or ccrz.ccapiCart.LINE DATA PRODUCT SFID, but not both.

### ccrz.ccApiCart.LINE DATA SUBPRODTERM SFID

Salesforce ID of the ccrz E SubProdTerm c to add with the product.

### ccrz.ccApiCart.LINE DATA SUBTOTAL

Decimal that specifies a unique subtotal price for the quantity of externally priced products. This value overrides the default subtotal calculation (price multipled by quantity). For example, if you specify ccrz.ccApiCart.LINE DATA PRICE of 20.00 and a ccrz.ccApiCart.LINE DATA QUANTITY of 10, the default subtotal calculation is 200.00. With this key, you manually specify that the subtotal is some other value, such as 150.00.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that	
	can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to which items were added.



Tip: If this key is empty or missing from the return data, an error likely occurred. Consider rolling back your operation.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz E Cart c record that the ccrz.ccApiCart.fetch method returned.



This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.

• The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

#### ccrz.ccApiCart.INCRERROR

Map<String, Decimal> of SKUs and their respective quantities that the method doesn't add to the cart because the ccrz.ccApiCart.LINE DATA QUANTITY input key specified quantities that violate product quantity rules.



### ccrz.ccApiCart.INCRWARN

Map<String, Decimal> of SKUs and their respective quantities that the method changes, based on product quantity rules, from what the ccrz.ccApiCart.LINE\_DATA\_QUANTITY input key specified. The method changes the specified quantity to the next valid quantity increment, and returns a ccrz.ccApiCart.InvalidQuantityException.



#### ccrz.ccApiCart.INELIGIBLEPRODUCTS

List<String> of SKUs or product IDs that the method couldn't add to the cart, such as:

- Composite products without the appropriate component products
- Products for which the method couldn't determine a price

### ccrz.ccApiCart.NONSTDPRODUCTS

List<String> of SKUs or product IDs that the method evaluates as non-standard, such as:

- The composite product record for an aggregated product, but no selected component product
- Products for which the method couldn't determine a price
- Products not enabled for a particular seller

### ccrz.ccApiCart.PRODSADDEDTOCART

List<String> of SKUs or product IDs that the method added to the cart.

### Associated API Calls

This method triggers calls to the following methods of other classes:

- ccrz.ccApiAddress.fetch for returning the cart's address information.
- ccrz.ccApiAttribute.fetch, if this method adds attribute-based products
- ccrz.ccApiProduct.fetch for returning the product records that correspond to the cart's items.

# Example: Example: Create a Cart from Empty Input Data

```
Boolean wasSuccessful = false;
String newCartID = null;

Map<String, Object> cartToCreate = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> createdCart = ccrz.ccApiCart.addTo(cartToCreate);
```

```
wasSuccessful = (Boolean)createdCart.get(ccrz.ccApi.SUCCESS);
newCartID = (String)createdCart.get(ccrz.ccApiCart.CART_ENCID);
if(String.isBlank(newCartID)){
    wasSuccessful = false;
    // Consider adding more error checking for the new cart
} catch (Exception e) {
    // Error handling...
}
```

## Example: Example: Add a SKU to an Existing Cart

```
Boolean wasSuccessful = false;
Map<String, Object> newSKUToAdd = new Map<String, Object> {
    ccrz.ccApiCart.LINE_DATA_SKU => 'productSKU',
    ccrz.ccApiCart.LINE_DATA_QUANTITY => 5
};

Map<String, Object> cartItemsToAdd = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApi.CART_ID => 'validCartID',
    ccrz.ccApiCart.LINE_DATA => new List<Map<String, Object>> {newSKUToAdd}
};

try {
    Map<String, Object> addToCartResults = ccrz.ccApiCart.addTo(cartItemsToAdd);
    wasSuccessful = (Boolean)addToCartResults.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
    // Error handling...
}
```

# Example: Example: Add a SKU and Apply a Coupon Code

To reprice the cart after applying the coupon code, set ccrz.ccApiCart.ISREPRICE => true.

```
Boolean wasSuccessful = false;
Map<String, Object> newSKUToAdd = new Map<String, Object> {
   ccrz.ccApiCart.LINE DATA SKU => 'productSKU',
    ccrz.ccApiCart.LINE DATA QUANTITY => 5
};
Map<String, Object> cartItemsToAdd = new Map<String, Object> {
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApi.CART ID => 'validCartID',
   ccrz.ccApiCart.LINE DATA => new List<Map<String, Object>> {newSKUToAdd},
   ccrz.ccApiCart.COUPON CODE => 'couponCode',
   ccrz.ccApiCart.ISREPRICE => true
};
   Map<String, Object> addToCartResults = ccrz.ccApiCart.addTo(cartItemsToAdd);
    wasSuccessful = (Boolean)addToCartResults.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
   // Error handling...
```

## Example: Example: Add a Dynamic Kit

```
Boolean wasSuccessful = false;
// Dynamic kit component products
Map<String, Object> dynamicKitComponentProduct1 = new Map<String, Object> {
    ccrz.ccApiCart.LINE DATA SKU => 'componentSKU1',
    ccrz.ccApiCart.LINE DATA QUANTITY => 5
};
Map<String, Object> dynamicKitComponentProduct2 = new Map<String, Object> {
    ccrz.ccApiCart.LINE DATA SKU => 'componentSKU2',
    ccrz.ccApiCart.LINE DATA QUANTITY => 3
};
Map<String, Object> dynamicKitComponentProduct3 = new Map<String, Object> {
   ccrz.ccApiCart.LINE DATA SKU => 'componentSKU3',
    ccrz.ccApiCart.LINE DATA QUANTITY => 10
};
// Dynamic kit composite product
Map<String, Object> dynamicKitCompositeProduct = new Map<String, Object> {
   ccrz.ccApiCart.LINE DATA SKU => 'dynamicKitSKU',
    ccrz.ccApiCart.LINE DATA QUANTITY => 1,
   ccrz.ccApiCart.LINE DATA LABEL => 'Label for the dynamic kit',
    ccrz.ccApiCart.LINE DATA MINOR LINE DATAS => new List<Map<String, Object>> {
        dynamicKitComponentProduct1, dynamicKitComponentProduct2,
dynamicKitComponentProduct3
   }
};
Map<String, Object> cartItemsToAdd = new Map<String, Object> {
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApi.CART ID => 'validCartID',
    ccrz.ccApiCart.LINE DATA => new List<Map<String, Object>>
{dynamicKitCompositeProduct}
};
   Map<String, Object> addToCartResults = ccrz.ccApiCart.addTo(cartItemsToAdd);
   wasSuccessful = (Boolean)addToCartResults.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
   // Error handling...
```

# Example: Example: Add a Subscription

```
Boolean wasSuccessful = false;
Map<String, Object> newSubscriptionToAdd = new Map<String, Object> {
    ccrz.ccApiCart.LINE_DATA_PRODUCT_SFID => 'productID',
    ccrz.ccApiCart.LINE_DATA_QUANTITY => 1,
    ccrz.ccApiCart.LINE_DATA_SUBPRODTERM_SFID => 'subprodtermID'
};
```

```
Map<String, Object> cartItemsToAdd = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApi.CART_ID => 'validCartID',
    ccrz.ccApiCart.LINE_DATA => new List<Map<String, Object>> {newSubscriptionToAdd}
};

try {
    Map<String, Object> addToCartResults = ccrz.ccApiCart.addTo(cartItemsToAdd);
    wasSuccessful = (Boolean)addToCartResults.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
    // Error handling...
}
```

## Example: Example: Add a SKU with External Pricing

```
Boolean wasSuccessful = false;
Map<String, Object> newExternalSKUToAdd = new Map<String, Object> {
   ccrz.ccApiCart.LINE_DATA_PRODUCT_SFID => 'productID',
   ccrz.ccApiCart.LINE DATA EXT NAME => 'Externally Defined Product Name'
   ccrz.ccApiCart.LINE DATA EXT SKU => 'externallyDefinedProductSKU',
    ccrz.ccApiCart.LINE DATA PRICE => 10.00,
    ccrz.ccApiCart.LINE DATA QUANTITY => 5
};
Map<String, Object> cartItemsToAdd = new Map<String, Object> {
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApi.CART ID => 'validCartID',
    ccrz.ccApiCart.LINE DATA => new List<Map<String, Object>> {newExternalSKUToAdd}
};
try {
   Map<String, Object> addToCartResults = ccrz.ccApiCart.addTo(cartItemsToAdd);
   wasSuccessful = (Boolean)addToCartResults.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
   // Error handling...
```

```
SEE ALSO:
```

```
ccrz_E_CartItem__c

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

Salesforce Help Types of Products for B2B Commerce for Visualforce

Salesforce Help Set Up Attribute-Based Products

Salesforce Help Set Product Prices in the Cart from an External Source
```

# ccrz.ccApiCart.cartAdjustment

Calls the ccrz.cc\_api\_PriceAdjustment extension point class and updates the cart and cart item prices. This method doesn't invoke any other pricing calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



This class is compatible only with the following storefront page versions:

- Shopping Cart page version 1.0. Version 2.0 was introduced in B2B Commerce for Visualforce Spring '19 (version 4.10), but version 1.0 remains available for compatibility.
- Version 1.0 of the Order Review section of the Checkout page. Version 2.0 was introduced in B2B Commerce for Visualforce Summer '19 (version 4.11), but version 1.0 remains available for compatibility.

When you use version 2.0 of the Shopping Cart page or Order Review section of the Checkout page, extend the ccrz.ccLogicCartPrice logic service provider class instead.

### Signature

global static Map<String, Object> cartAdjustment(Map<String, Object>)

### **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicCartAdjustment, which invokes ccrz.cc api PriceAdjustment

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart record to evaluate.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

## Example: Example

Return error messages from ccrz.cc api PriceAdjustment and show the messages on the storefront.

SEE ALSO:

ccrz.cc\_api\_PriceAdjustment

# ccrz.ccApiCart.cloneCart

Creates a copy of an existing cart or wish list. For a cart, this method updates the ccrz\_\_ActiveCart\_\_c field on both the original cart record and its clone.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global static Map<String, Object> cloneCart(Map<String, Object>)

### Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicCartClone

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the original cart to clone.

### ccrz.ccApiCart.CART IDLIST

Set<String> that can include the Salesforce ID of only one original cart to clone.

Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the original cart to clone.

### ccrz.ccApiCart.CART\_ENCIDLIST

Set<String> that can include the encrypted ID of only one original cart to clone.

 $oxdot{O}$  Note: Even though this key specifies a set, the method evaluates only the first ID in the set.



Note: This method checks for these keys in the following order of precedence:

- 1. ccrz.ccApiCart.CART ID
- 2. ccrz.ccApiCart.CART ENCID
- 3. ccrz.ccApiCart.CART IDLIST
- 4. ccrz.ccApiCart.CART ENCIDLIST

### Inputs (Optional)

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the cloned cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
   }
}
```

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cloned cart that this method creates.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cloned cart that this method creates.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, which contains one Map<String, Object> that represents the clone ccrz E Cart crecord, which the ccrz.ccApiCart.fetch method returned.



- By default, this method clones only one cart record at one time. Even though this key specifies a list, the list contains only one cart
- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

## Mote:

- If the original cart was active, the clone becomes the new active cart, and the original becomes inactive.
- This method doesn't change the active field on a wish list. The Wish List Selector widget on the storefront sets the active field on a wish list.

# Example: Example

Clone a specified cart, and fetch the clone and include it in the return data.

```
Boolean wasSuccessful = false;
Map<String, Object> cartToClone = new Map<String, Object>{
  ccrz.ccApiCart.CART ID => 'CART ID',
  ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
  ccrz.ccApi.SIZING => new Map<String, Object> {
       ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
           ccrz.ccApi.SZ REFETCH => true
    }
};
   Map<String, Object> cloneCartResult = ccrz.ccApiCart.cloneCart(cartToClone);
   wasSuccessful = (Boolean)cloneCartResult.get(ccrz.ccApi.SUCCESS);
   if (cloneCartResult.get(ccrz.ccApiCart.CART_OBJLIST) != null) {
       List<Map<String, Object>>)
cloneCartResult.get(ccrz.ccApiCart.CART OBJLIST);
       // Parse and evaluate the fetched clone
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

# ccrz.ccApiCart.create

Creates a cart record. You can specify field values for the cart, or set up an empty cart with default field values.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> create(Map<String, Object>)
```

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartCreate

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the created cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
```

```
}
```

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Cart\_c record to create. This map can specify subkeys for field values to set on the cart record. For a list of fields, see the ccrz\_E\_Cart\_c reference.

- Note: By default, this method creates only one cart record at one time. Even though this key specifies a list, the method evaluates only the first item in the list.
- Note: If you don't specify ccrz.ccApiCart.CART OBJLIST, this method creates a cart with default or empty values.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the guery.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the created cart.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the created cart.

1 Tip: If this key is empty or missing from the return data, an error likely occurred. Consider rolling back your operation.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the created ccrz\_E\_Cart\_\_c record.

Note: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.

### Example: Example

Create a cart from values specified in ccrz.ccApiCart.CART OBJLIST, and include the created cart in the return data.

```
Boolean wasSuccessful = false;
Map<String, Object> cartToCreate = new Map<String, Object> {
    'cartType' => 'Cart'
    'activeCart' => true,
    'name' => 'descriptiveCartName',
    'storefront' => 'storefrontName',
};
Map<String, Object> cartCreateInputData = new Map<String, Object> {
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiCart.CART OBJLIST => new List<Map<String, Object>> {cartToCreate},
   ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ REFETCH => true
    }
};
try {
   Map<String, Object> createCartResults = ccrz.ccApiCart.create(cartCreateInputData);
   wasSuccessful = (Boolean)createCartResults.get(ccrz.ccApi.SUCCESS);
   List<Object> createdCartList = (List<Object>)
createCartResults.get(ccrz.ccApiCart.CART OBJLIST);
   Map<String, Object> createdCart = (Map<String, Object>) createdCartList[0];
    // Do something with the created cart
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiCart.createCartItemGroup

Creates a shipping group of cart items for line-level independence (LLI) checkout.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> createCartItemGroup(Map<String, Object>)
```

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartCreateCartItemGroup

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### 'ECartItemGroupsS'

List<Map<String, Object>>,where each Map<String, Object> represents the ccrz\_E\_CartItemGroup\_c record to create. This map can specify subkeys for field values to set on the cart item group record. For a list of fields, see the ccrz\_E\_CartItemGroup\_c reference.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the updated ccrz\_E\_Cart\_\_c record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

### ccrz.ccApiCart.ITEMGROUPID

String that specifies the Salesforce ID of the created cart item group.

# Example: Example

Create a cart item group from input values.

```
Boolean wasSuccessful = false;
Date requestedDate = date.today();
Map<String, Object> cartItemGroupToCreate = new Map<String, Object> {
    'cart' => 'cartID'
    'note' => 'Text for the shipping note',
   'requestedDate' => requestedDate,
   'shipTo' => 'contactAddressID',
    'shipAmount' => '20.00',
    'shipMethod' => 'Ground'
};
Map<String, Object> cartItemGroupCreateInputData = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT VERSION,
    'ECartItemGroupsS' => new List<Map<String, Object>> {cartItemGroupToCreate}
};
try {
   Map<String, Object> createCartItemGroupResults =
ccrz.ccApiCart.createCartItemGroup(cartItemGroupCreateInputData);
   wasSuccessful = (Boolean)createCartItemGroupResults.get(ccrz.ccApi.SUCCESS);
   String newItemGroupId = (String)
createCartItemGroupResults.get(ccrz.ccApiCart.ITEMGROUPID);
   // Do something with the created cart item group
} catch (Exception e) {
```

```
// Error handling...
```

SEE ALSO:

Salesforce Help Specify Shipping Group Options for LLI Checkout

# ccrz.ccApiCart.createWishList

Creates a wish list and wish list items based on a specific cart ID and its cart items.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> createWishList(Map<String, Object>)
```

# **Service Layer Classes**

## **Logic Service Provider**

ccrz.ccLogicCartCreateWL

# Inputs (Required)

Map<String, Object> that must include the following required keys:

# ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCart.CART ID

The Salesforce ID of the cart to create a wish list from.

#### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart to create a wish list from.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiWishList.fetch for returning the created wish list.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiWishList.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiWishList.ID

String that specifies the Salesforce ID of the created wish list.

#### SEE ALSO:

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

# ccrz.ccApiCart.fetch

Executes a SOQL guery of cart records, and returns a list of carts that match your guery.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetch(Map<String, Object>)

# **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceCart

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

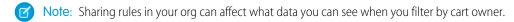
#### ccrz.ccApiCart.ACTIVECART

Boolean

Value	Usage
true	Return the active cart for a specific owner. Use this key with when you also specify ccrz.ccApiCart.BYOWNER.
false (default)	Return all carts that match the other query criteria.

#### ccrz.ccApiCart.BYOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.



#### ccrz.ccApiCart.BYUSER

String that specifies the ID of a specific user. Return only cart records where the User field matches this user ID.

Note: Sharing rules in your org can affect what data you can see when you filter by user.

#### ccrz.ccApiCart.BYSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to guery.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted cart IDs to guery.

#### ccrz.ccApiCart.CART IDLIST

Set<String> of cart IDs to query.

Note: This key takes precedence over ccrz.ccApiCart.CART\_ENCID or ccrz.ccApiCart.CART\_ENCIDLIST.

If you specify both ccrz.ccApiCart.CART\_IDLIST and ccrz.ccApiCart.CART\_ENCIDLIST, this method ignores ccrz.ccApiCart.CART\_ENCIDLIST.

#### ccrz.ccApiCart.CARTNAME

String that specifies a cart name to query. This value corresponds to the Cart Auto Number (Name) field on the cart record.

#### ccrz.ccApiCart.CARTSTATUS

String that specifies a cart status for filtering records in the return data. This value corresponds to the ccrz\_\_CartStatus\_\_c field on the cart record.

#### ccrz.ccApiCart.CARTTYPE

Deprecated. The managed package no longer references this key.

#### ccrz.ccService.SEARCHSTRING

String that specifies filter criteria to pass to the ccrz.ccApiCart.fetchCartItems method.

Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the guery.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  The Pap Commerce for Visualforce descript always return an exception for any errors that
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz E ContactAddr c associated with the cart's shipping or billing addresses. For more information about fetching address data, see ccrz.ccApiAddress.fetch.

Tip: To specify which fields the API returns for each contact address, request a specific data size for the ccrz.ccApiAddress.ENTITYNAME key in your input data. You can request unique sizes for cart data and contact address data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
   },
   ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ L
   }
```

You can also exclude the address records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ M,
       ccrz.ccApi.SZ ASSC => false
   }
```

## ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz E Cart crecord that matches the query. By default, this list sorts by each cart's last modified date in descending order.



🚺 Tip: To specify which fields the API returns for each cart record, request a specific data size for the ccrz.ccApiCart.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
```

```
ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
}
```

For information about which fields are available with different data sizes, see the ccrz E Cart c reference.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Product\_c associated with the cart's items. For more information about fetching product data, see ccrz.ccApiProduct.fetch.

Tip: To specify which fields the API returns for each product record, request a specific data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data. You can request unique sizes for cart data and product data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    },
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

You can also exclude the product records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

# Example: Examples

Query a pair of cart IDs, and capture the first cart's status in a variable.

```
Set<String> cartIdList = new Set<String>{'CART_ID_1', 'CART_ID_2'};

Map<String, Object> cartFetchQuery = new Map<String, Object>{
    ccrz.ccApiCart.CART_IDLIST => cartIdList,
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> cartFetchData = ccrz.ccApiCart.fetch(cartFetchQuery);
    if (cartFetchData.get(ccrz.ccApiCart.CART_OBJLIST) != null) {
        List<Map<String, Object>> outputCartList = (List<Map<String, Object>>)
    cartFetchData.get(ccrz.ccApiCart.CART_OBJLIST);
        String firstCartStatus = (String) outputCartList[0].get('cartStatus');
    }
} catch (Exception e) {
    // Error handling...
}
```

Query all carts with a status of Abandoned.

```
Map<String, Object> cartFetchQuery = new Map<String, Object>{
    ccrz.ccApiCart.CARTSTATUS => 'Abandoned',
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> cartFetchData = ccrz.ccApiCart.fetch(cartFetchQuery);
    if (cartFetchData.get(ccrz.ccApiCart.CART_OBJLIST) != null) {
        List<Map<String, Object>> outputCartList = (List<Map<String, Object>>)
    cartFetchData.get(ccrz.ccApiCart.CART_OBJLIST);
    }
} catch (Exception e) {
    // Error handling...
}
```

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

# ccrz.ccApiCart.fetchCartItems

Executes a SOQL query of cart item records, and returns a list of cart items that match your query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> fetchCartItems(Map<String, Object>)
```

# **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceCartItem

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted cart IDs to query.

#### ccrz.ccApiCart.CART IDLIST

Set<String> of cart IDs to query.



Note: Include ccrz.ccApiCart.CART ENCIDLIST or ccrz.ccApiCart.CART IDLIST, but not both.

# Inputs (Optional)

The input map can also include the following keys:

# ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiCart.CARTITEM IDS



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

#### ccrz.ccApiCart.CARTITEM INCLUDE CHILDREN

Boolean



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true (default)	Return child ccrz_E_CartItem_c records (minor line items) associated with parent ccrz_E_CartItem_c records (major line items) requested in ccrz.ccApiCart.CARTITEM_IDS.
false	Return only the ccrz_E_CartItemc records requested in ccrz.ccApiCart.CARTITEM_IDS. Exclude any child ccrz_E_CartItemc records that exist from the return data.

#### ccrz.ccApiCart.CISERVSPLIT

Integer that specifies a buffer size of cart items to process at one time. The default value is 200.

#### ccrz.ccService.SEARCHSTRING

String for filtering cart items using the SOQL LIKE operator. You can specify wildcard characters that the LIKE operator supports. By default, the ccrz.ccServiceCartItem data service provider class specifies that the search guery applies to the following ccrz E CartItem cobject fields:

- ccrz Comments c
- ccrz ExtName c
- ccrz ExtSKU c
- ccrz SortName c
- ccrz Product r.Name
- ccrz Product r.SKU c

Assume a logical OR operator between fields.



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

# **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CARTITEMATTRIDS

Set<String> of attribute IDs that correspond to the returned cart items.

# ccrz.ccApiCart.CARTITEMPRODUCTIDS

Set<String> of product IDs that correspond to the returned cart items.

### ccrz.ccApiCart.CARTITEMSBYID

Data from the ccrz E CartItem c records that match the fetch query. This return data can take the following types, depending on values specified in the input map:

Туре	Input Map Criteria
Map <string, list<map<string,="" object="">&gt;&gt;, keyed by parent ccrz_E_Cartc, where each Map<string, object=""> represents a ccrz_E_CartItemc</string,></string,>	Default return format
Map <string, list<map<string,="" object="">&gt;&gt;, keyed by parent ccrz_E_Cartc, where each Map<string, object=""> is determined by ccrz.ccServiceCartItem.getGroupByMap (Map<string, object="">). This data service provider method can request querying against an aggregate function.</string,></string,></string,>	<pre>ccrz.ccApi.SIZING =&gt; new Map<string, object=""> {     ccrz.ccApiCart.CLI_ENTITYNAME =&gt; new Map<string, object=""> {         ccrz.ccApi.SZ_DATA =&gt;     ccrz.ccApi.SZ_GROUPBY     } }</string,></string,></pre>
<pre>Map<string, list<ccrz_e_cartitemc="">&gt;</string,></pre>	<pre>ccrz.ccApi.SIZING =&gt; new Map<string, object=""> {     ccrz.ccApiCart.CLI_ENTITYNAME =&gt; new Map<string, object=""> {         ccrz.ccApi.SZ_SKIPTRZ =&gt; true     } }</string,></string,></pre>

Tip: To specify which fields the API returns for each cart record, request a specific data size for the ccrz.ccApiCart.CLI ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.CLI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

### SEE ALSO:

ccrz\_E\_CartItem\_\_c Comparison Operators Logical Operators

# ccrz.ccApi Cart.get Active

Calls the ccrz.ccApiCart.fetch method and returns the active cart for the current account from the set of queried carts. This method sets other carts that the account can access to inactive.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# **Signature**

global static Map<String, Object> getActive(Map<String, Object>)

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicCartGetActive

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiCart.BYEFFECTIVEACCOUNT

Boolean

Value	Usage
true	Filter the cart query by the selected effective account. This method evaluates this key only when your storefront uses the Cart per Account mode for effective accounts.
false (default)	Ignore effective accounts.

#### ccrz.ccApiCart.BYOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.



- Sharing rules in your org can affect what data you can see when you filter by cart owner.
- If you don't include this key, this method falls back to ccrz.cc CallContext.currUserId.

#### ccrz.ccApiCart.BYSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart to query.

### ccrz.ccApiCart.CART\_IDLIST

Set<String> of Salesforce IDs of carts to query.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to query.

### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted cart IDs to query.

Note: If you don't specify ccrz.ccApiCart.CART\_ID, ccrz.ccApiCart.CART\_IDLIST, ccrz.ccApiCart.CART\_ENCIDLIST, this method falls back to ccrz.cc\_CallContext.currCartId.

#### ccrz.ccApiCart.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userCurrency.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

# ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART\_OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



- Note:
- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

#### SEE ALSO:

ccrz.ccApiCart.fetch

Salesforce Help Manage Carts for Effective Accounts

# ccrz.ccApiCart.getDeliveryDates

Calls the ccrz.cc\_api\_DeliveryDate extension point class and returns the available delivery dates for one or more shipping addresses.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# **Signature**

global static Map<String, Object> getDeliveryDates(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicCartGetDeliveryDates

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Mote: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# ccrz.cc\_api\_DeliveryDate.CART\_ID

String that specifies the ID of the cart record used for checkout.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCart.SHIPPING ADDRLIST

List<Map<String, Object>> where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record with shipping address details.

 $\square$  Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

In each Map<String, Object>, you can specify values for the following ccrz E ContactAddr c fields:

Field	Data Type
addressFirstline	String
addressSecondline	String
addressThirdline	String
addrReadOnly	Boolean
city	String
companyName	String
country	String
countryISOCode	String
daytimePhone	String
email	String
firstName	String
homePhone	String
lastName	String
middleName	String
postalCode	String
sfid	String
state	String

Field	Data Type
stateISOCode	String

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.SHIPPING ADDRLIST

Map<String, Object> where:

- The key is the contact address sfid.
- The object is a Map<String, Object> that the ccrz.cc api DeliveryDate.getDeliveryDates method returns.



Note: This method also directly returns the Map<String, Object> output from the ccrz.cc\_api\_DeliveryDate.getDeliveryDates method.

### SEE ALSO:

ccrz\_\_E\_ContactAddr\_\_c

ccrz.cc\_api\_DeliveryDate.getDeliveryDates

Salesforce Help Specify Shipping Options for Standard Checkout

# ccrz.ccApiCart.getShippingOptions

Calls the ccrz.cc\_api\_ShippingAndHandling extension point class and returns the available shipping options for one or more shipping addresses.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> getShippingOptions(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicCartGetShippingOptions

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

## ccrz.ccApiCart.SHIPPING ADDR

Map<String, Object> that represents a ccrz E ContactAddr c record with shipping address details.

# ccrz.ccApiCart.SHIPPING ADDRLIST

record with shipping address details.

Whether you specify ccrz.ccApiCart.SHIPPING ADDR or ccrz.ccApiCart.SHIPPING ADDRLIST, include the following ccrz E ContactAddr c fields and values in each Map<String, Object>:

Field	Data Type
countryISOCode	String
postalCode	String

Field	Data Type
sfid	String
stateISOCode	String

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCart.CART ID

String that specifies the ID of the cart used for checkout.

# Outputs

Map<String, Object> that can include the following keys:

# ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

# ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# ccrz.ccApiCart.SHIPPING OPTIONS

The shipping options for the specified contact address or addresses. This return data can take the following types, depending on values specified in the input map:

Туре	Input Map Criteria	
Map <string, object=""></string,>	ccrz.ccApiCart.SHIPPING_ADDR	
List <map<string, object="">&gt;</map<string,>	ccrz.ccApiCart.SHIPPING_ADDRLIST	

For each Map<String, Object> returned:

• The key is the contact address sfid.

• The object is a serialized instance of ccrz.cc\_ctrl\_hlpr\_ShippingOption, which the ccrz.cc api ShippingAndHandling.getShippingOptions method returned.

#### SEE ALSO:

```
ccrz_E_ContactAddr__c
ccrz.cc_api_ShippingAndHandling.getShippingOptions
Salesforce Help Specify Shipping Options for Standard Checkout
```

# ccrz.ccApiCart.initItemGroups

Initializes shipping groups on a specific cart for line-level independence (LLI) checkout. This method creates a single default shipping group with all cart items and the account's default shipping address. If the cart already contains at least one group, this method assigns any cart items that aren't assigned to a group to that group.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> initItemGroups(Map<String, Object>)
```

# **Service Layer Classes**

## **Logic Service Provider**

ccrz.ccLogicCartInitItemGroups

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCart.CART ID

The Salesforce ID of the cart to initialize shipping groups for.

### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart to initialize shipping groups for.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
   }
}
```

### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART ENCID

The encrypted ID of the updated cart.

### ccrz.ccApiCart.CART\_OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the updated ccrz E Cart c record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.



# Example: Example

Initialize shipping groups for a specific cart.

```
Map<String, Object> cartItemGroupInputData = new Map<String, Object> {
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiCart.CART ENCID => 'encrypted cart ID',
   ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_REFETCH => true
    }
};
try {
   Map<String, Object> initItemGroupsResults =
ccrz.ccApiCart.initItemGroups(cartItemGroupInputData);
} catch (Exception e) {
    // Error handling...
```

SEE ALSO:

Salesforce Help Specify Shipping Group Options for LLI Checkout

# ccrz.ccApiCart.place

Converts a cart to a corresponding order synchronously.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global static Map<String, Object> place(Map<String, Object>)
```

# **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartPlace

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the ordered cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
```

### ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true	Evaluate whether to reprice the cart before starting the order placement process. If the cart's price data isn't current, this method doesn't create an order from the cart and returns a ccrz.cc_api_Cart.CartValidationException.  Note: When you enable Cart Scale, this input is true by default.
false (default)	Don't evaluate the cart's price data before starting order placement.

#### ccrz.ccApiCart.FORCE PLACE SYNC

Boolean



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true	Place the order synchronously, regardless of the value of the ccrz.ccApiCart.PLACE_ASYNC input.
false (default)	Default logic determines whether to place the order synchronously or asynchronously.

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA input.

### ccrz.ccApiCart.PAYMENTRESULT

Map<String, Object> that represents the output from the ccrz.cc\_hk\_Payment.processPayment extension point method.

### ccrz.ccApiCart.PLACE ASYNC

Boolean



**Note:** This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true	Place the order asynchronously by calling the ccrz.ccApiCart.placeAsync method.
false (default)	Place the order synchronously.

# Mote:

- By default, this flag is ignored for a guest buyer checkout or when the ccrz.ccApiCart.FORCE\_PLACE\_SYNC input is true.
- For storefronts that haven't enabled cart scale, order placement is always synchronous.
- For more information about whether order placement executes synchronously or asynchronously, see ccrz.ccLogicCartPlace.checkCartForAsyncPlace.

### ccrz.ccApiCart.SKIP\_VALID\_CHECK

Boolean

Value	Usage
true	During this method's execution, ignore the cart's ccrzValidationStatusc field and attempt to create an order from the cart.
	Important: When you pass ccrz.ccApiCart.SKIP_VALID_CHECK => true, call the ccrz.ccApiCart.price and ccrz.ccApiCart.validate methods to ensure that the cart items and prices are valid.
false (default)	During this method's execution, verify that the cart's ccrzValidationStatusc field is set before creating an order for this cart. When this field is set, all items are valid and have a price, and the buyer is allowed to check out from the Shopping Cart page.

#### ccrz.ccApiOrder.PARAM ORDER STATUS

String that specifies the status of the corresponding order when it's created. By default, this method sets the value Order Submitted.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc hk Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.



#### Note:

- Create the payment information on the cart before you call this method, and then associate the payment information with the order after this method completes.
- If you specify both ccrz.ccApiCart.PAYMENTDATA and ccrz.ccApiCart.TRANSPAYMENTDATA and these keys describe a stored payment, this method creates a corresponding ccrz E StoredPayment c record.
- If you specify ccrz.ccApiCart.PAYMENTDATA, ccrz.ccApiCart.TRANSPAYMENTDATA, and record.

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>,which contains one Map<String, Object> that represents the ccrz\_E\_Cart\_c record, which the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

#### ccrz.ccApiCart.ORDER ID

String that specifies the Salesforce ID of the created ccrz E Order c.

- (nanaged package version 4.13 and API version 12):
  - The ccrz.ccLogicCartPlace logic service provider class includes methods that replace the ccrz.cc\_api\_Cart.placeEOrder public method, which is deprecated in this version.
  - As a result, the ccrz.ccLogicCartPlace logic service provider executes differently compared to B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or older. The ccrz.cc api Cart.placeEOrder public method remains available for those older versions.
  - To continue using ccrz.cc\_api\_Cart.placeEOrder logic for placing an order, set the Checkout storefront configuration module's Use Order Hook setting (co.usehkorder) to TRUE. This configuration specifies that methods of the ccrz.cc\_hk\_Order extension point class execute and call ccrz.cc\_api\_Cart.placeEOrder. When this configuration is FALSE, the ccrz.ccLogicCartPlace logic service provider executes instead.

#### SEE ALSO:

```
ccrz.ccApiCart.price
ccrz.ccApiCart.validate
ccrz.cc_hk_Payment.processPayment
ccrz__E_StoredPayment__c
ccrz__E_TransactionPayment__c
```

# ccrz.ccApiCart.placeAsync

Converts a cart to a corresponding order using asynchronous Apex jobs. This method is called recursively for processing multiple, small batches of cart items. When this method is first called, it first executes synchronous logic, and then enqueues recursive calls that execute asynchronous logic. Only the synchronous logic provides return data.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global static Map<String, Object> placeAsync(Map<String, Object>)

# **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartPlaceAsync

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

# ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.

# Inputs (Optional)

The input map can also include the following keys:

# ccrz.ccApiCart.ALLOW\_PRICING\_ON\_ASYNC\_ORDER

Boolean

Value	Usage	
true	If the ccrz.ccApiCart.ENFORCE_PRICE_VALIDATION_ON_PLACE input is treat and the cart's price data isn't current, call the ccrz.ccApiCart.priceAsync method reprice the cart.	
	Note: This behavior can cause issues with the cart's shipping and taxes, which are calculated based on the cart's previous price data, not the repriced cart. The	

Value	Usage
	ccrz.ccApiCart.priceAsync method doesn't update shipping or taxes. Consider creating an extension that updates shipping and tax calculations for asynchronous pricing.
false (default)	If the cart's price data isn't current, the cart isn't repriced, and the order placement process fails.

#### ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the previous recursive job. This ID is used only during recursive jobs that process cart items.



### ccrz.ccApiCart.CART PLACE BATCH SIZE

Integer that specifies the number of major cart items to process during each recursive job.

# Note:

- If you don't specify a value for this input, the method defaults to 200 major cart items.
- The job also queries any minor cart items that are associated with the major cart items. As a result, the total number of processed ccrz\_\_E\_CartItem\_\_c records is higher than the specified batch size when the cart contains complex products.

#### ccrz.ccApiCart.ENFORCE PRICE VALIDATION ON PLACE

Boolean

Value	Usage
true	Evaluate whether to reprice the cart before starting the order placement process. If the cart's price data isn't current, this method doesn't create an order from the cart and returns a ccrz.cc_api_Cart.CartValidationException.  Note: When you enable Cart Scale, this input is true by default.
false (default)	Don't evaluate the cart's price data before starting order placement.

### ccrz.ccApiOrder.PARAM ORDER STATUS

String that specifies the status of the corresponding order when it's created. By default, this method sets the value Order Submitted.

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment
extension point method's ccrz.cc
hk Payment.PARAM TRANSACTION DATA input.

### ccrz.ccApiCart.PAYMENTRESULT

 $\label{lem:mapsimp} \begin{tabular}{ll} Map < String, Object > that represents the output from the $\tt ccrz.cc_hk_Payment.processPayment$ extension point method. \end{tabular}$ 

## ccrz.ccApiCart.PLACE ASYNC FINISH

Boolean

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the order placement process after the initial call.
false (default)	The current method execution is the synchronous portion of the initial call that begins the order placement process.

### ccrz.ccApiCart.PRICING FOR ORDER FAILED

#### Boolean

Value	Usage
true	An error occurred when pricing the cart during the previous iteration of the recursive, asynchronous call. The ccrz.ccLogicCartPlaceAsync.updateOrderOnError method executes.  Note: This input is used only when the ccrz.ccApiCart.ALLOW_PRICING_ON_ASYNC_ORDER input is true and the cart was repriced because its price data wasn't current.
false (default)	No error occurred.

# ccrz.ccApiCart.SKIP\_VALID\_CHECK

Boolean

Value	Usage
true	During this method's execution, ignore the cart's <code>ccrzValidationStatusc</code> field and attempt to create an order from the cart.
	Important: When you pass ccrz.ccApiCart.SKIP_VALID_CHECK => true, call the ccrz.ccApiCart.price and ccrz.ccApiCart.validate methods to ensure that the cart items and prices are valid.
false (default)	During this method's execution, verify that the cart's ccrzValidationStatusc field is set before creating an order for this cart. When this field is set, all items are valid and have a price, and the buyer is allowed to check out from the Shopping Cart page.

### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.



#### Note:

- Create the payment information on the cart *before* you call this method, and then associate the payment information with the order *after* this method completes.

 If you specify ccrz.ccApiCart.PAYMENTDATA, ccrz.ccApiCart.TRANSPAYMENTDATA, and record.

# Outputs

Map<String, Object> that can include the following keys:



Note: Only the initial synchronous ccrz.ccApiCart.placeAsync method call includes return data. The return data for subsequent asynchronous Apex jobs isn't accessible.

# ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.ORDER ID

String that specifies the Salesforce ID of the created ccrz E Order c.

#### SEE ALSO:

```
ccrz.ccApiCart.priceAsync
ccrz.ccApiCart.validate
ccrz.cc_hk_Payment.processPayment
ccrz__E_StoredPayment__c
ccrz__E_TransactionPayment__c
```

# ccrz.ccApiCart.price

Reprices all the items in a cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> price(Map<String, Object>)
```

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicCartPrice

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to price.

#### ccrz.ccApiCart.CART ID

String that specifies the cart ID to price.



Note: Include ccrz.ccApiCart.CART ENCID or ccrz.ccApiCart.CART ID, but not both.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the repriced cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
```

```
ccrz.ccApi.SZ_REFETCH => TRUE
}
```

#### ccrz.ccApiCart.CILIST

Map<String, Map<String, Object>> of the cart items to reprice. For example, when a buyer updates quantities of items in the cart, this list specifies the cart items that have changed. This map is keyed by cart item ID, and each nested Map<String, Object> defines the following subkeys:

# ccrz.ccApiCart.CIQTY

Integer that specifies the item's quantity.

### ccrz.ccApiCart.CICMTS

String that specifies the item's comments.

### ccrz.ccApiCart.CIPREPROC

Boolean

Value	Usage
true	Call the ccrz.cc_api_CartExtension.preprocess extension point method for processing the cart items.
false (default)	Skip the ccrz.cc_api_CartExtension.preprocess extension point method.

### ccrz.ccApiCart.FORCE PRICE SYNC

Boolean



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true	Execute pricing synchronously, regardless of the value of the ccrz.ccApiCart.PRICE_ASYNC input.
false (default)	Default logic determines whether to price the cart synchronously or asynchronously.

## ccrz.ccApiCart.PARTIAL CART UPDATE

Boolean



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true	Apply pricing, entitlements, and quantity updates only to a certain subset of cart items. The ccrz.ccLogicCartPrice.retrieveCartData method defines the business logic for the partial update.
false (default)	Execute default pricing logic.

# ccrz.ccApiCart.PRICE\_ASYNC

Boolean



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

Value	Usage
true	Execute pricing asynchronously by calling the ccrz.ccApiCart.priceAsync method.  Note: By default, this flag is ignored for a guest buyer's cart, for partial cart updates, or when the ccrz.ccApiCart.FORCE_PRICE_SYNC input is true.
false (default)	Execute pricing synchronously.

# ccrz.ccApiCart.SKIP\_CART\_PRICING

Boolean

Value	Usage
true	Skip the pricing logic defined in the ccrz.ccLogicCartPrice logic service provider.
false (default)	Execute the pricing logic defined in ccrz.ccLogicCartPrice.

### ccrz.ccApiCart.SYNC MAX CART SIZE

Integer that specifies the maximum number of items that must be in a cart for synchronous processing. This value overrides the value of the Asynchronous Processing Threshold storefront configuration setting in the Cart Scale module (cs.asyncthreshold).



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

# Outputs

Map<String, Object> that can include the following keys:

# ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart that was priced.



Tip: If this key is empty or missing from the return data, an error likely occurred. Consider rolling back your operation.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



#### Note:

- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

#### SEE ALSO:

```
ccrz__E_CartItem__c
ccrz.cc_api_CartExtension
```

# ccrz.ccApiCart.priceAsync

Reprices all the items in a cart using asynchronous Apex jobs. This method supports pricing a cart with a much larger number of items than the ccrz.ccApiCart.price method. This method also includes both a synchronous portion that updates the cart's status and instantiates the asynchronous reprice jobs. However, the asynchronous behavior means that there's no guarantee for how long it takes for the jobs to complete.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

```
global static Map<String, Object> priceAsync(Map<String, Object>)
```

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicCartPriceAsync

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to price.

#### ccrz.ccApiCart.CART ID

String that specifies the cart ID to price.



Note: Include ccrz.ccApiCart.CART ENCID or ccrz.ccApiCart.CART ID, but not both.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCart.CART PRICE BATCH SIZE

Integer that specifies the number of major cart items to price during each asynchronous Apex job.



- Note: • If you don't specify a value for this input, the method defaults to 200 major cart items.
- The job prices any minor cart items that are associated with the major cart items. As a result, the total number of priced ccrz E CartItem c records is higher when the cart contains complex products. When a pricing scenario includes a large number of complex products, consider specifying a lower batch size to help fine-tune performance.

#### ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was priced during the previous asynchronous Apex job.



Note: To determine the set of cart items in the next asynchronous job and return a consisently ordered list, the ccrz.ccLogicCartPriceAsync.retrieveCartItems method queries major cartitems with a SOQL ORDER BY Id clause.

# ccrz.ccApiCart.CONTINUE ASYNC PLACE\_AFTER\_PRICING

Boolean

Value	Usage
true	This method is executing as part of the ccrz.ccApiCart.placeAsync method. When this method completes, it calls ccrz.ccApiCart.placeAsync recursively to continue the order placement process.
false (default)	This method is executing outside of the ccrz.ccApiCart.placeAsync method.

## ccrz.ccApiCart.PRICE\_ASYNC\_FINISH

Boolean

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.
false (default)	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

# Outputs

Map<String, Object> that can include the following keys:



Note: Only the synchronous portion of the ccrz.ccApiCart.priceAsync method call includes return data. The return data for the asynchronous Apex jobs isn't accessible.

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart that was priced.



🁔 Tip: If this key is empty or missing from the return data, an error likely occurred. Consider rolling back your operation.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

# ccrz.ccApiCart.processItemGroups

Moves cart items between shipping groups for line-level independence (LLI) checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> processItemGroups(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

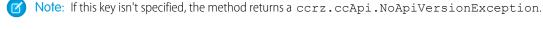
ccrz.ccLogicCartProcessItemGroups

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



#### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart.



#### ccrz.ccApiCart.MOVEDATA

List<Map<String, Object>> where each Map<String, Object> contains the following keys that describe the cart items to move.



## ccrz.ccApiCart.ITEMID

String that specifies the Salesforce ID of the ccrz E CartItem c to move.

# ccrz.ccApiCart.TARGETQTY

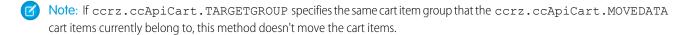
Decimal that specifies the quantity of the ccrz E CartItem c to move.

Note: If you don't specify a quantity, this method moves the full quantity.

#### ccrz.ccApiCart.TARGETGROUP

String that specifies the Salesforce ID of the ccrz\_E\_CartItemGroup\_c to move ccrz\_E\_CartItem\_c records to.





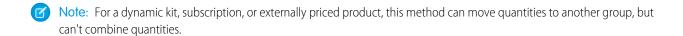
# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCart.MERGELINES

Boolean

Value	Usage
true	Combine quantities of the same SKU are combined into a single line item in the target cart item group. For usage, see Specify Shipping Group Options for LLI Checkout.
false (default)	Leave quantities of the same SKU on separate line items in the target cart item group.



# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# Example: Example

Move two cart items to a specified shipping group, and don't combine quantities of the same SKU in the target group.

```
Map<String, Object> cartItemsToMove = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
```

```
ccrz.ccApiCart.CART ENCID => 'encrypted cart ID',
    ccrz.ccApiCart.TARGETGROUP => 'cart item group ID',
   ccrz.ccApiCart.MERGELINES => false,
    ccrz.ccApiCart.MOVEDATA => new List<Map<String, Object>> {
        new Map<String, Object> {
            ccrz.ccApiCart.ITEMID => 'cart item 1 ID',
           ccrz.ccApiCart.TARGETQTY => 1
        },
        new Map<String, Object> {
           ccrz.ccApiCart.ITEMID => 'cart item 2 ID',
           ccrz.ccApiCart.TARGETQTY => 1
        }
    }
};
try {
   Map<String, Object> processItemGroupsResults =
ccrz.ccApiCart.processItemGroups(cartItemsToMove);
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

Salesforce Help Specify Shipping Group Options for LLI Checkout

## ccrz.ccApiCart.removeCart

Deletes cart records, including wish lists. If a deleted cart or wish list was active for the current account, this method also determines which cart or wish list becomes active next.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

**7** 

**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartRemoveCart

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to delete.

### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted IDs of the carts to delete.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to delete.

### ccrz.ccApiCart.CART IDLIST

Set<String> of IDs of carts to delete.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccApiCart.removeCartItemGroup

Deletes shipping groups of cart items for line-level independence (LLI) checkout.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicCartRemoveItemGroups

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiCart.ITEMGROUPLIST

List<ccrz E CartItemGroup c> of the cart item groups to delete.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

Salesforce Help Specify Shipping Group Options for LLI Checkout

## ccrz.ccApiCart.removeFrom

Removes items from a cart. This method doesn't invoke pricing logic for repricing the cart after the items have been removed.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> removeFrom(Map<String, Object>)

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicCartRemove

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to remove items from.

### ccrz.ccApiCart.CART ID

String that specifies the ID of the cart to remove items from.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiCart.COUPON CODE

String that specifies a coupon code to remove from the cart.



 $\bigcirc$  Tip: If you're not removing a coupon, specify some other string for this key, such as true.

### ccrz.ccApiCart.LINE DATA

each item, add a new ccrz.ccApiCart.LineData object to the list and set the LineData.sfid field cart item's Salesforce ID. For information about this list's keys and requirements, see Inputs for Cart Line Data.



🌓 Tip: This key accepts only the List<ccrz.ccApiCart.LineData> representation of line data, and doesn't accept the List<Map<String, Object>> representation that we recommend for the ccrz.ccApiCart.addTo method.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart that items were removed from.



Tip: If this key is empty or missing from the return data, an error likely occurred. Consider rolling back your operation.

## ccrz.ccApiCart.repair

Returns a cart where the status remains Repricing even after a repricing job completes, updates the status to Open, and resets the Repriced Date timestamp. A cart can remain in this status when a repricing job is unsuccessful or no longer available in the org. This method calls the ccrz.ccApiCart.fetch method for returning the affected cart.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global static Map<String, Object> repair(Map<String, Object>)

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicCartRepair

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to repair.

### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted IDs of the carts to repair.

### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to repair.

#### ccrz.ccApiCart.CART IDLIST

Set<String> of IDs of carts to repair.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.



Note: By default, this method sets the following data size information:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ S,
        ccrz.ccApi.SZ ASSC => false,
        ccrz.ccApi.SZ REL => new List<String>
    }
```

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the guery.

### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART\_OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_\_E\_Cart\_\_crecord that the ccrz.ccApiCart.fetch method returned.

## Example: Example

Pass the encrypted ID of a cart to repair.

```
Map<String, Object> cartToRepair = new Map<String, Object>{
    ccrz.ccApiCart.CART_ENCID => 'CART_ENCID',
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> cartRepairResult = ccrz.ccApiCart.repair(cartToRepair);
    List<ccrz.cc_bean_Message> cartMessages =
(List<ccrz.cc_bean_Message>) ccrz.ccUtil.defv(cartRepairResult, ccrz.ccApi.MESSAGES,
new List<ccrz.cc_bean_Message>);
} catch (Exception e) {
    // Error handling...
}
```

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccApiCart.revise

Updates certain fields on a cart.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

- Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.
- Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

## Signature

global static Map<String, Object> revise(Map<String, Object>)

## Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceCart

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiCart.CART\_OBJLIST

List<Map<String, Object>>, which contains one Map<String, Object> that represents the ccrz\_E\_Cart\_c record to update. You can update the values of only the following fields:

- activeCart
- billTo
- buyerEmail
- buyerFirstName
- buyerLastName
- buyerPhone
- cartType
- name
- note
- sfid

- shipAmount
- shipTo
- storefront
- Note: The ccrz.ccServiceCart data service provider determines which fields are editable.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that
	can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>> of the updated ccrz E Cart c records.



## Example: Example

Fetch a cart, and then update its name.

```
Boolean wasSuccessful = false;
Map<String, Object> cartFetchQuery = new Map<String, Object>{
```

```
ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiCart.CART IDLIST => new Set<String>{'CART ID 1'},
   ccrz.ccApi.SIZING => new Map<String, Object> {
       ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
           ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ XL,
           ccrz.ccApi.SZ_REL => new List<String>(),
           ccrz.ccApi.SZ ASSC => false
       }
   }
};
   Map<String, Object> cartFetchResult = ccrz.ccApiCart.fetch(cartFetchQuery);
   List<Object> fetchedCarts = (List<Object>)
cartFetchResult.get(ccrz.ccApiCart.CART OBJLIST);
   Map<String, Object> fetchedCartMap = (Map<String, Object>) fetchedCarts[0];
   // Specify a new name
   fetchedCartMap.put('name', 'A perfectly cromulent cart');
   // Set the updated cart into a list for the revise method
   List<Map<String, Object>> cartToRevise = new List<Map<String, Object>>();
   cartToRevise.add(fetchedCartMap);
   // Call the revise method
   Map<String, Object> cartReviseResult = ccrz.ccApiCart.revise(new Map<String, Object>
       ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
       ccrz.ccApiCart.CART OBJLIST => cartToRevise
   });
   wasSuccessful = (Boolean)cartReviseResult.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccApiCart.reviseCartItemGroup

Updates certain fields on a cart item group record for line-level independence (LLI) checkout.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> reviseCartItemGroup(Map<String, Object>)
```

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceCartItemGroup

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### 'ECartItemGroupsS'

List<Map<String, Object>>,where each Map<String, Object> represents the ccrz E CartItemGroup c record to create. This map can specify subkeys for field values to set on the cart item group record. For a list of fields, see the ccrz E CartItemGroup c reference.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
    }
```

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the updated ccrz\_E\_Cart\_c record.



## Example: Example

Update values on an existing cart item group.

```
Boolean wasSuccessful = false;
Date requestedDate = date.today();
Map<String, Object> cartItemGroupToUpdate = new Map<String, Object> {
   'sfid' => 'Salesforce ID of a cart item group'
    'note' => 'Updated text for the shipping note',
   'requestedDate' => requestedDate,
    'shipTo' => 'contactAddressID',
    'shipAmount' => '40.00',
    'shipMethod' => 'Air'
};
Map<String, Object> cartItemGroupUpdateInputData = new Map<String, Object> {
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    'ECartItemGroupsS' => new List<Map<String, Object>> {cartItemGroupToUpdate},
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ XL,
            ccrz.ccApi.SZ REFETCH => true
        }
    }
};
try {
```

```
Map<String, Object> reviseCartItemGroupResults =
ccrz.ccApiCart.reviseCartItemGroup(cartItemGroupUpdateInputData);
  wasSuccessful = (Boolean)reviseCartItemGroupResults.get(ccrz.ccApi.SUCCESS);
  List<Map<String, Object>> refetchedCart = (List<Map<String, Object>)
reviseCartItemGroupResults.get(ccrz.ccApiCart.OBJLIST);
  // Do something with the fetched cart item group
} catch (Exception e) {
  // Error handling...
}
```

SEE ALSO:

Salesforce Help Specify Shipping Group Options for LLI Checkout

## ccrz.ccApiCart.saveCart

Calls the ccrz.ccApiCart.validate method for setting the cart's ccrz\_\_ValidationStatus\_\_c field. If you're using effective accounts, this method also invokes the ccrz.cc\_hk\_EffectiveAccount.saveCart method for updating cart address information.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

## **Signature**

```
global static Map<String, Object> saveCart(Map<String, Object>)
```

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicCartSave

### Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to save.

### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to save.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ REFETCH => TRUE
    }
}
```

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz E Cart c record that the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

## Example: Example

Save a specified cart.

```
Map<String, Object> cartToSave = new Map<String, Object>{
    ccrz.ccApiCart.CART_ID => 'CART_ID',
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> cartSaveResult = ccrz.ccApiCart.saveCart(cartToSave);
    Boolean wasSuccessful = cartSaveResult.get(ccrz.ccApi.SUCCESS);
    if (wasSuccessful) {
        // Execute your business logic when the save call succeeds
    }
} catch (Exception e) {
        // Error handling...
}
```

### SEE ALSO:

ccrz.ccApiCart.fetch ccrz.ccApiCart.validate ccrz.cc\_hk\_EffectiveAccount.saveCart

## ccrz.ccApiCart.setActive

Sets a single cart as the active cart for a particular owner, and updates all the owner's other open carts to inactive. Finally, this method fetches the new active cart.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> setActive(Map<String, Object>)

## **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartSetActive

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

### ccrz.ccApiCart.BYEFFECTIVEACCOUNT

Boolean

Value	Usage
true	Filter the cart query by the selected effective account. This method evaluates this key only when your storefront uses the Cart per Account mode for effective accounts.
false (default)	Ignore effective accounts.

#### ccrz.ccApiCart.BYOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.



- Sharing rules in your org can affect what data you can see when you filter by cart owner.
- If you don't include this key, this method falls back to ccrz.cc CallContext.currUserId.

### ccrz.ccApiCart.BYSTOREFRONT

String that specifies the name of a storefront for filtering the guery.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to make active.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to make active.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ\_REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

## Example: Example

Set a specified cart to active, and parse the return data for the active cart record.

```
Map<String, Object> cartToMakeActive = new Map<String, Object>{
    ccrz.ccApiCart.CART_ID => 'CART_ID',
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> setActiveResults = ccrz.ccApiCart.setActive(cartToMakeActive);
```

```
if (setActiveResults.get(ccrz.ccApiCart.CART_OBJLIST) != null) {
    List<Map<String, Object>> activeCartList = (List<Map<String, Object>>)
setActiveResults.get(ccrz.ccApiCart.CART_OBJLIST);
    String cartId = (String) activeCartList[0].get('sfid');
}
catch (Exception e) {
    // Error handling...
}
```

SEE ALSO:

ccrz.ccApiCart.fetch

Salesforce Help Specify Shipping Group Options for LLI Checkout

## ccrz.ccApiCart.transferCart

Transfers ownership of a cart to another user. By default, B2B Commerce for Visualforce calls this method when a guest user begins adding items to a cart and then registers for a storefront account. This method transfers ownership of the cart from the default owner to the newly registered user.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global static Map<String, Object> transferCart(Map<String, Object>)
```

## **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCartTransfer

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to transfer.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiUser.USER ID

String that specifies the Salesforce ID of the user to transfer ownership to.

#### ccrz.ccApiUser.USER NAME

String that specifies the username of the user to transfer ownership to.

## (1) Important:

- By default, this method is invoked in a context where the current user is the cart's current Owner. If the cart was originally used by a guest user, the current Owner is the default owner for all records created by guest users.
- To successfully transfer ownership to another user, specify the ID or username of a user that has row-level access to the cart. Otherwise, this method doesn't return any error when ownership doesn't successfully transfer.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

# ccrz.ccApiCart.validate

Provides an extension point for implementing business rules that ensure that a buyer is allowed to check out from the Shopping Cart page. By default, this method calls ccrz.ccApiCart.fetch and returns both the fetched cart data and a Boolean flag that indicates whether the buyer can check out.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

Note: This method doesn't execute when ccrz.cc CallContext specifies a guest user.

## Signature

```
global static Map<String, Object> validate(Map<String, Object>)
```

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicCartValidate



Tip: If you've previously extended the ccrz.cc api CartExtension class to override its allowCheckout or getCartMessages methods, migrate your customizations to an override of the ccrz.ccLogicCartValidate.processValidate method.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to validate.

### ccrz.ccApiCart.CART ID

String that specifies the cart ID to validate.



Note: Include ccrz.ccApiCart.CART ENCID or ccrz.ccApiCart.CART ID, but not both.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.



Note: By default, this method sets the following data size information:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ S,
        ccrz.ccApi.SZ ASSC => false,
        ccrz.ccApi.SZ REL => new List<String>
    }
}
```

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_ContactAddr\_c associated with the cart's shipping or billing addresses. For more information about fetching address data with cart data, see ccrz.ccApiCart.fetch.

### ccrz.ccApiCart.ALLOW CHECKOUT

Boolean

Value	Usage
true	The buyer is allowed to check out from the Shopping Cart page.
false	The buyer isn't allowed to check out from the Shopping Cart page.

### ccrz.ccApiCart.CART\_OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Cart\_\_crecord that the ccrz.ccApiCart.fetch method returned.

### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Product\_c associated with the cart's items. For more information about fetching product data with cart data, see ccrz.ccApiCart.fetch.

## Example: **Example**

Query a pair of cart IDs, and capture the first cart's status in a variable.

```
Map<String, Object> cartValidateQuery = new Map<String, Object>{
    ccrz.ccApiCart.CART_ID => 'CART_ID',
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION
};

try {
    Map<String, Object> cartValidateData = ccrz.ccApiCart.validate(cartValidateQuery);
```

```
Boolean allowCheckout = (Boolean).ccrz.ccUtil.defv(cartValidateData,
ccrz.ccApiCart.ALLOW_CHECKOUT, FALSE);
   List<ccrz.cc_bean_Message> cartMessages =
(List<ccrz.cc_bean_Message>)ccrz.ccUtil.defv(cartValidateData, ccrz.ccApi.MESSAGES,
new List<ccrz.cc_bean_Message>);
} catch (Exception e) {
   // Error handling...
}
```

SEE ALSO:

ccrz.ccApiCart.fetch
ccrz.cc\_api\_CartExtension

## ccrz.ccApiCategory

Query category assignments for products and data for the storefront's category taxonomy.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

IN THIS SECTION:

fetch

Executes a SOQL query of category records and returns a list of categories that match your query.

fetchCategoryTree

Generates a category tree during a batch processing job, and stores the tree in a public cache.

getTree

Returns a generated category tree from a public cache. This method populates category results on the Product List page.

### getUrlFor

Returns a map where each entry associates a category's ID with its friendly URL.

#### SEE ALSO:

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce

## ccrz.ccApiCategory.fetch

Executes a SOQL query of category records and returns a list of categories that match your query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

### **Data Service Providers**

- ccrz.ccServiceCategory (default)
- ccrz.ccServiceFeatured when ccrz.ccApiCategory.FEATURED => 'true' is set in the input map

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

### ccrz.ccApiCategory.CATEGORYIDLIST

Set<String> of specific category IDs to query.

```
new Set<String>{'Category_ID_1', 'Category_ID_2'}
```

### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies a locale that you want to return localized category values for in the ccrz.ccApiCategory.CATEGORYLIST return key. The service layer translates the values from ccrz E CategoryI18N c records and handles fallback languages, if necessary.

String that specifies one of your storefront's supported locales.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

#### ccrz.ccApiCategory.CATEGORYNAME

String of a specific category name to guery.

#### ccrz.ccApiCategory.FEATURED

Boolean

Value	Usage
true	Instead of category data, return the storefront's featured products in ccrz.ccApiCategory.CATEGORYLIST. The method chains a call to the ccrz.ccApiProduct.fetch method to query product data for the featured products.
false (default)	Return category data in ccrz.ccApiCategory.CATEGORYLIST.

### ccrz.ccApiCategory.PARENTCATEGORY

String of a specific category's ID whose subcategories you want to guery.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCategory.CATEGORYLIST

List<Map<String, Object>>, where each Map<String, Object> represents a category record.

Tip: To specify which fields the API returns for each category record, request a specific data size for the ccrz.ccApiCategory.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E Category c reference.

When you set ccrz.ccApiCategory.FEATURED => true in the input map, each Map<String, Object>represents a featured product record instead of a category.

Note: Each featured product record in the return data includes the same set of fields, regardless of any specific ccrz.ccApi.SIZING input data size request.

#### ccrz.ccApiCategory.PRODUCTIDTOSKU

Map<String, Object> that maps product IDs to product SKUs. This key is returned only when you request a small data size and specifically request the Product Categories related list:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_REL => new List<String>{'Product_Categories__r'}
}
```

### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a product record associated with a returned category or featured product. For more information about fetching product data, see ccrz.ccApiProduct.fetch.

Tip: To specify which fields the API returns for each product, request a specific data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data. You can request unique sizes for category data and product data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.EntITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    },
    ccrz.ccApiProduct.EntITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
```

```
}
```

You can also exclude the product records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

For a featured product query, set this flag under the 'featuredProducts' key, which serves as a hard-coded entity name for featured products data.

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   'featuredProducts' => new Map<String, Object> {
      ccrz.ccApi.SZ_ASSC => false
   }
}
```

## Example: Examples

Fetch category details for a pair of category IDs, and parse the returned list for the first category's name.

```
Map<String, Object> categoryQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiCategory.CATEGORYIDLIST => new Set<String>{'Category_ID_1',
    'Category_ID_2'}
};

try {
    Map<String, Object> categoryReturnData = ccrz.ccApiCategory.fetch(categoryQuery);

    if (categoryReturnData.get(ccrz.ccApiCategory.CATEGORYLIST) != null) {
        List<Map<String, Object>> outputCategoryList = (List<Map<String, Object>>)
    categoryReturnData.get(ccrz.ccApiCategory.CATEGORYLIST);
        String categoryName = (String) outputCategoryList[0].get('sfdcName');
    }
} catch (Exception e) {
    // Error handling...
}
```

Return your storefront's featured product records, and exclude all product data and related data associated with those featured products. Find the type of the first featured product that's returned.

```
Map<String, Object> featuredProductQuery = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiCategory.STOREFRONT => 'storefrontName',
    ccrz.ccApiCategory.FEATURED => true,
    ccrz.ccApi.SIZING => new Map<String, Object> {
        'featuredProducts' => new Map<String, Object> {
            ccrz.ccApi.SZ_ASSC => false
        }
    }
};
```

```
try {
    Map<String, Object> featuredProductReturnData =
ccrz.ccApiCategory.fetch(featuredProductQuery);
    if (featuredProductReturnData.get(ccrz.ccApiCategory.CATEGORYLIST) != null) {
        List<Map<String, Object>> featuredProductList = (List<Map<String, Object>>)
featuredProductReturnData.get(ccrz.ccApiCategory.CATEGORYLIST);
        String featuredProductType = (String) featuredProductList[0].get('type');
    }
} catch (Exception e) {
    // Error handling...
}
```

### Platform Cache

When ccrz.ccApi.SZ\_ASSC => false is set in the input map, this method checks for category data previously queried and stored in Platform Cache. This design helps improve performance on your storefront when displaying your category data.

The underlying ccrz.ccServiceCategory.fetch method that supports the ccrz.ccApiCategory.fetch method checks the Platform Cache for category data.

- 1. Before the ccrz.ccApiCategory.fetch method executes the query for category data, the underlying ccrz.ccServiceCategory.fetch dataservicemethod calls the ccrz.ccService.prepareCacheKey method.
- 2. If ccrz.ccService.prepareCacheKey finds a match in Platform Cache for the queried data, it passes the matching data to the ccrz.ccService.prepReturn method, which sends the data to the ccrz.ccApiCategory.fetch query.

If no matching data is found in the Platform Cache, the ccrz.ccApiCategory.fetch query executes and returns data from your org's database. In this case, the ccrz.ccService.prepareCacheData method is called to store the category data in Platform Cache.

To specify how long B2B Commerce for Visualforce keeps category data cached, change the category data time to live (TTL) values in your storefront configuration settings.

## ccrz.ccApiCategory.fetchCategoryTree

Generates a category tree during a batch processing job, and stores the tree in a public cache.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> fetchCategoryTree(Map<String, Object>)
```

## **Service Layer Classes**

### **Data Service Provider**

ccrz.ccServiceCategory

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApi.SIZING

Map<String, Object> that specifies how much data to return from the method call. For this method, this key is required, and you must include ccrz.ccApi.SZ REL for specifically requesting category and localized category records:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ L,
       ccrz.ccApi.SZ REL => new List<String>{'Categories r', 'CategoryI18Ns r'}
    }
}
```

## ccrz.ccApiCategory.ROOTCATEGORYID

String that specifies the ID of the storefront root category. This value corresponds to the ccrz CategoryID c field on the CC Category object.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies a locale that you want to generate a localized category tree for. The service layer translates the values from ccrz E CategoryI18N c records and handles fallback languages, if necessary.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### ccrz.ccApiCategory.STOREFRONT

String that specifies the name of the storefront to generate a category tree for. The method tries to use friendly URL values for the categories included in the tree.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCategory.CATEGORYTREE

List<Map<String, Object>> of the generated category tree.



## Example: Example

Return a category tree for a specified root category ID

```
Map<String, Object> inputData = new Map<String, Object>{
   ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
   ccrz.ccApiCategory.ROOTCATEGORYID => 'root category ID',
   ccrz.ccApiCategory.CATEGORYLOCALE => 'en US',
   ccrz.ccApiCategory.STOREFRONT => 'DefaultStore',
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiCategory.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L,
           ccrz.ccApi.SZ REL => new List<String>{'Categories r', 'CategoryI18Ns r'}
    }
} ;
try {
   Map<String, Object> outputData = ccrz.ccApiCategory.fetchCategoryTree(inputData);
    if (outputData.get(ccrz.ccApiCategory.CATEGORYTREE) != null) {
        // The cast to List<Map<String, Object>> is necessary...
        List<Map<String, Object>> categoryTree = (List<Map<String, Object>>)
outputData.get(ccrz.ccApiCategory.CATEGORYTREE);
} catch (Exception e) {
   // Error handling...
```

## ccrz.ccApiCategory.getTree

Returns a generated category tree from a public cache. This method populates category results on the Product List page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> getTree(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicCategoryGetTree

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies a supported locale to return the category tree for.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### ccrz.ccApiCategory.STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCategory.CATEGORYTREE

List<Object> of the returned category tree.



## Example: Example

Return the category tree for the storefront and locale specified by ccrz.cc\_CallContext.

```
Map<String, Object> categoryTreeToReturn = ccrz.ccApiCategory.getTree(new Map<String,
Object>{
        ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   });
   // Get the category tree object from the return data
   List<Object> treeData = categoryTreeToReturn.get(ccrz.ccApiCategory.CATEGORYTREE);
}catch(Exception e) {
   // Error handling
```

#### SEE ALSO:

Salesforce Help Show Subcategory Details on the Product List Page

## ccrz.ccApiCategory.getUrlFor

Returns a map where each entry associates a category's ID with its friendly URL.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> getUrlFor(Map<String, Object>)

## **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCategoryUrlFor

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiCategory.CATEGORYIDLIST

List<String> of Salesforce IDs for categories whose URLs you want to return.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies one of your storefront's supported locales.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### ccrz.ccApiCategory.CATEGORYLOCALES

Set<String> of your storefront's supported locales.

### ccrz.ccApiCategory.STOREFRONT

String that specifies the name of a storefront.



oxdot Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCategory.CATEGORYURLMAP

Map<String, Object> for a single locale, where each key is a category ID and each value is the category's friendly URL.

### ccrz.ccApiCategory.LOCALECATEGORYURLMAP

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by category ID.
- Each inner map is keyed by locale.
- Each inner map's value is the category's friendly URL for the locale.

## ccrz.ccApiCategory.LOCALESITEINDICES

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by category ID.
- Each inner map is keyed by locale.
- Each inner map's value is the category's corresponding ccrz E SiteIndex c record for the locale.

### ccrz.ccApiCategory.SITEINDICES

Map<String, Object> for a single locale, where each key is a category ID and each value is the corresponding ccrz E SiteIndex crecord.



### Example: Example

Return the site indexes for a pair of category IDs.

```
try{
    // Pass category IDs to the ccrz.ccApiCategory.getUrlFor method
   Map<String, Object> categoryURLsToReturn = ccrz.ccApiCategory.getUrlFor(new
Map<String, Object>{
        ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
        ccrz.ccApiCategory.CATEGORYIDLIST => new List<String>{'Category ID 1',
'Category ID 2'}
    });
    // Get the map of site indexes from the return data
    Map<String, Object> categorySiteIndices =
categoryURLsToReturn.get(ccrz.ccApiCategory.SITEINDICES);
}catch(Exception e){
   // Error handling
```

## ccrz.ccApiConfig

Query storefront configuration data, or load new JSON-formatted configuration data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

#### IN THIS SECTION:

Executes a SOQL query of storefront configuration data and returns the matching content as Apex or JSON strings.

#### setBulk

Loan storefront configuration data by passing in serialized JSON data or loading JSON-formatted data from a static resource. This method only adds new configuration data, and doesn't update existing configurations.

# ccrz.ccApiConfig.fetch

Executes a SOQL query of storefront configuration data and returns the matching content as Apex or JSON strings.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

## Service Layer Classes

This method doesn't support service layer extensions or overrides.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiConfig.CONFIG MODULE

String that specifies the name of a specific module whose configuration data you want to return. Use the module's API name, such as ct for the Category Tree module or p1 for the Product List module.

ccrz.ccApiConfig.CONFIG\_MODULE => 'ct'

## ccrz.ccApiConfig.EXTERNALLY\_SAFE

Boolean

Value	Usage
true	Return configuration data that have the Externally Safe metadata field enabled.
false (default)	Return all configuration data that match your query.

### ccrz.ccApiConfig.PAGE NAME

String that specifies the name of a page. The method returns only the configuration data that exist for that page. Use the page keys defined in CC Admin global settings, such as hp for Home page and p1p for Product List page.

ccrz.ccApiConfig.PAGE\_NAME => 'hp'



Note: If you don't include this key, the method returns configuration data for all pages.

### ccrz.ccApiConfig.RETURN SERIAL

Boolean

Value	Usage	
true	Return configuration data as a serialized JSON string.	
false (default)	Return configuration data as an Apex List <map<string, string="">&gt;.</map<string,>	

### ccrz.ccApiConfig.STORE\_NAME

String that specifies the name of a storefront.



Note: If you don't include this key, the method returns configuration data that are global and apply to all storefronts.

### ccrz.ccApiConfig.USE CACHE

Boolean

Value	Usage
true (default)	Return configuration data cached in records of the ccrzE_PublicCachec and ccrz_E_PrivateCachec objects.
false	Return configuration data directly from records of the ccrz_E_Configuration_c object.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiConfig.CONFIGURATIONS

List<Map<String, String>>, where each Map<String, String> represents a configuration record. The key value for each configuration record returned is **moduleAPIname.configurationAPIname**, such as ct.enabled.

Tip: To return serialized JSON instead of Map<String, String>, include ccrz.ccApiConfig.RETURN\_SERIAL
=> true in the input map.

# Example: Example

Query configurations cached for the Home page in the DefaultStore and that have the Externally Safe metadata field enabled.

```
Map<String,Object> homePageConfigQuery = new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiConfig.EXTERNALLY_SAFE => true,
    ccrz.ccApiConfig.USE_CACHE => true,
    ccrz.ccApiConfig.STORE_NAME => 'DefaultStore',
    ccrz.ccApiConfig.PAGE_NAME => 'hp'
};

try {
    Map<String,Object> homePageConfigs = ccrz.ccApiConfig.fetch(homePageConfigQuery);
    Map<String,String> homePageConfigValues =
    (Map<String,String>) homePageConfigs.get(ccrz.ccApiConfig.CONFIGURATIONS);
} catch (Exception e) {
    // Error handling...
}
```

# ccrz.ccApiConfig.setBulk

Loan storefront configuration data by passing in serialized JSON data or loading JSON-formatted data from a static resource. This method only adds new configuration data, and doesn't update existing configurations.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiConfig.CONFIG JSON

String of the serialized JSON configuration data to load.

### ccrz.ccApiConfig.FILE NAME LIST

List<String> of filenames within the static resource that contain the JSON-formatted configuration data to load.

### ccrz.ccApiConfig.STATIC RESOURCE

String that specifies the name of a static resource that contains the JSON data to load. Don't include the .resource extension. For example, if your static resource name is configDataToLoad.resource, specify only configDataToLoad for this key value.

```
ccrz.ccApiConfig.STATIC RESOURCE => 'configDataToLoad'
```

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

## Example: Example for a Static Resource

Load configuration data from a static resource named configDataToLoad.resource, which includes two files with JSON-formatted configuration data, configDataFile.json and configDataFile2.json.

```
Map<String, Object> configDataFromStaticResource = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiConfig.STATIC_RESOURCE => 'configDataToLoad',
    ccrz.ccApiConfig.FILE_NAME_LIST => new List<String>{'configDataFile.json',
    'configDataFile2.json'};
};

try {
    ccrz.ccApiConfig.setBulk(configDataFromStaticResource);
} catch (Exception e) {
    // Error handling...
}
```

In each JSON file in the static resource, use the following format.

## Example: Example for Serialized JSON

Load configuration data from a serialized JSON string.

Note: Enclose the JSON in a set of square brackets, [ ].

```
Map<String, Object> configDataFromString = new Map<String, Object>{
    ccrz.ccApi.API VERSION => ccrz.ccAPI.CURRENT VERSION,
    ccrz.ccApiConfig.CONFIG JSON => '[
            "ConfigurationMetas":[
                     "Name": "piname",
                     "APIName": "piname",
                     "Description": "Header Include End Page Include",
                     "ExternallySafe": false,
                     "Configurations":[
                             "TextValue": "cc EmptyPage",
                             "Storefront": "Global",
                             "PageName": "all",
                             "Name": "a0M36000015nqH"
                     ]
                 },
                     "Name": "enabled",
                     "APIName": "enabled",
                     "Description": "Header Include End Enablement flag",
                     "ExternallySafe": false,
                     "Configurations":[
                             "TextValue": "FALSE",
                             "Storefront": "Global",
                             "PageName": "all",
                             "Name": "a0M360000015ngT"
                         }
```

# ccrz.ccApiContact

Query contact records associated with your B2B Commerce for Visualforce storefront users.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

IN THIS SECTION:

fetch

Executes a SOQL query of contact records and returns a list of contacts that match your query.

# ccrz.ccApiContact.fetch

Executes a SOQL query of contact records and returns a list of contacts that match your query.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

## Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceContact

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiContact.ACCOUNTID

String that specifies the ID of an account whose associated contact record you want to query.

#### ccrz.ccApiContact.ID

String that specifies the ID of a contact to query.

#### ccrz.ccApiContact.IDS

Set<String> of specific contact IDs to query:

```
new Set<String>('Contact_ID_1', 'Contact_ID_2')
```

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiContact.CONTACTS

List<Map<String, Object>>, where each Map<String, Object> represents a contact record.

For each contact record included ccrz.ccApiContact.CONTACTS, the method returns the following standard contact fields:

API Return Name	API Return Data Type
accountId	String
email	String
firstName	String
lastName	String
phone	String
salutation	String

# Example: Example

Query a set of contact record IDs, and capture each contact's email address in a string variable.

```
Map<String,Object> contactFetchQuery = new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiContact.IDS => new
Set<String>{'Contact_ID_1','Contact_ID_2','Contact_ID_3'}
}
try {
    Map<String, Object> contactFetchData = ccrz.ccApiContact.fetch(contactFetchQuery);
    if (contactFetchData.get(ccrz.ccApiContact.CONTACTS) != null) {
```

# ccrz.ccApiCoupon

Query or clone coupon records, and programmatically apply or remove coupons from a shopping cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

#### IN THIS SECTION:

### cloneCoupon

Clones an existing coupon, and sets default values for some of the cloned coupon's fields.

#### fetch

Executes a SOQL guery of coupon records and returns a list of coupons that match your guery.

#### apply

Verifies that a specific coupon code is valid for a specific shopping cart, and calculates the coupon's specified discount. The method executes in two steps. First, the method adds a coupon code to a cart that doesn't already have a coupon applied, and creates the ccrz\_\_E\_CartCoupon\_\_c junction object. Then, the method applies the added coupon by calculating discounts and verifying that the coupon criteria remains satisfied, even as cart items, quantities, and prices change.

#### remove

Tries to remove coupons that are already applied to a specified shopping cart.

### updateOnUse

Updates coupons that have been applied to a cart.

#### SEE ALSO:

Offer Coupons for Discounts on Storefront Purchases

# ccrz.ccApiCoupon.cloneCoupon

Clones an existing coupon, and sets default values for some of the cloned coupon's fields.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> cloneCoupon(Map<String, Object>)

## **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCouponClone

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCoupon.fetch for returning the updated coupon.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCoupon.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

## ccrz.ccApiCoupon.CARTID

String of a specific cart ID whose applied coupon you want to clone.

#### ccrz.ccApiCoupon.CODES

Set<String> of specific coupon codes. This method uses only the first code in the set for creating the clone.

### ccrz.ccApiCoupon.ID

String of a specific coupon ID to clone.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCoupon.COUPONLIST

List<Map<String, Object>>, where the Map<String, Object> represents the new coupon record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

#### ccrz.ccApiCoupon.ID

ID of the clone record. This method sets the following default values for the clone's fields:

Field	Default Value
Coupon Name	originalCouponName-copy, such as 150FF-copy

Field	Default Value
Coupon Code	coupon-randomInteger, such as coupon-12345
Total Used	0

# Example: Example

Clone a coupon using its ID, and refetch the clone's record details.

```
Map<String, Object> couponToClone = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiCoupon.ID => 'Coupon ID',
   ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiCoupon.ENTITYNAME => new Map<String, Object> {
           ccrz.ccApi.SZ REFETCH => true
    }
};
try {
   Map<String, Object> clonedCoupons = ccrz.ccApiCoupon.cloneCoupon(couponToClone);
   if (clonedCoupons.get(ccrz.ccApiCoupon.ID) != null) {
       List<Object> clonedCoupons = (List<Object>
clonedCoupons.get(ccrz.ccApiCoupon.COUPONLIST);
      Map<String, Object> clonedCouponDetails = (Map<String, Object>) clonedCoupons[0];
} catch (Exception e) {
    // Error handling...
```

# ccrz.ccApiCoupon.fetch

Executes a SOQL query of coupon records and returns a list of coupons that match your query.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> fetch(Map<String, Object>)
```

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceCoupon

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiCoupon.CARTIDS

Set<String> of specific cart IDs whose applied coupons you want to query. The method evaluates records of the cart coupon junction object to return the coupon data for the specified carts.

```
new Set<String>{'Cart ID 1', 'Cart ID 2'}
```

#### ccrz.ccApiCoupon.CODES

Set<String> of specific coupon codes to query.

```
new Set<String>{'Coupon Code 1', 'Coupon Code 2'}
```

### ccrz.ccApiCoupon.ID

String of a specific coupon ID to query.

### ccrz.ccApiCoupon.IDS

Set<String> of specific coupon IDs to query.

```
new Set<String>{'Coupon ID 1', 'Coupon ID 2'}
```

#### ccrz.ccApiCoupon.ISDATEFILTER

Boolean

Value	Usage
true (default)	Return only coupon records where the Start Date and End Date range include the current date.
false	Ignore the Start Date and End Date range when querying coupon records.

#### ccrz.ccApiCoupon.ISENABLED

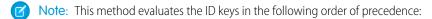
Boolean

Value	Usage
true (default)	Return only coupon records where the Enabled field is selected.
false	Ignore the value of the Enabled field when querying coupon records.

### ccrz.ccApiCoupon.STOREFRONT

String that specifies the name of a storefront for filtering the query.





- 1. ccrz.ccApiCoupon.ID
- 2. ccrz.ccApiCoupon.IDS
- 3. ccrz.ccApiCoupon.CODES

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCoupon.COUPONLIST

List<Map<String, Object>>, where each Map<String, Object> represents a coupon record. By default, this list sorts by each record's last modified date, in descending order.



#### Note:

- Each coupon record in the return data includes the same set of fields, regardless of any specific ccrz.ccApi.SIZING input data size request.
- If any of the returned coupons have been applied to a cart, this list also includes the ECartCouponsS field, which includes cart coupon junction object data.

# ccrz.ccApiCoupon.apply

Verifies that a specific coupon code is valid for a specific shopping cart, and calculates the coupon's specified discount. The method executes in two steps. First, the method *adds* a coupon code to a cart that doesn't already have a coupon applied, and creates the ccrz\_\_E\_CartCoupon\_\_c junction object. Then, the method *applies* the added coupon by calculating discounts and verifying that the coupon criteria remains satisfied, even as cart items, quantities, and prices change.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

## Signature

global static Map<String, Object> apply(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicCouponApply

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart that you want to add or apply a coupon to.

### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart that you want to add or apply a coupon to.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCoupon.CART HEADER

ccrz E Cart c record that you want to add or apply a coupon to.

#### ccrz.ccApiCoupon.CART ITEMS

List<ccrz E CartItem c> of the cart items for the ccrz.ccApiCoupon.CART HEADER, if specified.

### ccrz.ccApiCoupon.CODE

String that specifies a coupon code to add to the cart.

#### ccrz.ccApiCoupon.SKIP APPLY CALC

Boolean

Value	Usage
true	Skip the ccrz.ccLogicCouponApply.applyCoupons method in the logic service provider. This method adds the coupon to the cart, but doesn't apply the coupon's specified discount.
false (default)	Execute the ccrz.ccLogicCouponApply.applyCoupons method to apply the coupon's discount after adding the coupon to the cart.



## Outputs

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### Example: Examples

Add and apply a coupon to a cart whose encrypted ID you specify.

```
Boolean wasSuccessful = false;
Map<String, Object> couponToApplyToCart = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiCart.CART ENCID => 'Cart Encrypted ID',
    ccrz.ccApiCoupon.CODE => 'someCouponCode'
};
try {
   Map<String, Object> applyCouponResult = ccrz.ccApiCoupon.apply(couponToApplyToCart);
   wasSuccessful = (Boolean)applyCouponResult.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
    // Error handling...
```

Add a coupon to a cart whose encrypted ID you specify, but skip the logic that determines whether an added coupon can apply to the cart.

```
Boolean wasSuccessful = false;
Map<String, Object> couponToAddToCart = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiCart.CART_ENCID => 'Cart_Encrypted_ID',
   ccrz.ccApiCoupon.CODE => 'someCouponCode',
    ccrz.ccApiCoupon.SKIP APPLY CALC => true
};
try {
   Map<String, Object> addCouponResult = ccrz.ccApiCoupon.apply(couponToAddToCart);
   wasSuccessful = (Boolean)addCouponResult.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccApiCoupon.remove

Tries to remove coupons that are already applied to a specified shopping cart.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

## Signature

global static Map<String, Object> remove(Map<String, Object>)

## **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicCouponRemove

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

## ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart to remove coupons from.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to remove coupons from.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiCoupon.REPRICE CART

Boolean

Value	Usage
true	Chain a call to the ccrz.ccApiCart.price method to reprice the cart after removing the coupons.  Warning: This chained call isn't safe for Apex callouts.
false (default)	Don't chain a call to the ccrz.ccApiCart.price method.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

## Example: Example

Remove coupons from a specific cart.

```
Boolean wasSuccessful = false;

Map<String, Object> cartToRemoveCouponsFrom = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiCart.CART_ID => 'Cart_ID'
};

try {
    Map<String, Object> removeCouponResult =
    ccrz.ccApiCoupon.remove(cartToRemoveCouponsFrom);
    wasSuccessful = (Boolean)removeCouponResult.get(ccrz.ccApi.SUCCESS);
} catch (Exception e) {
    // Error handling...
}
```

SEE ALSO:

ccrz.ccApiCart.price

# ccrz.ccApiCoupon.updateOnUse

Updates coupons that have been applied to a cart.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## **Signature**

global static Map<String, Object> updateOnUse(Map<String, Object>)

## Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicCouponUpdateUse

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

 $\overline{\mathcal{O}}$  Note: If this key isn't specified, the method returns a  $\mathtt{ccrz.ccApi.NoApiVersionException}$ .

#### ccrz.ccApiCoupon.INCREMENT AMOUNT

A positive or negative integer to add to the ccrz TotalUsed c field of the specified coupons.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCoupon.CODE

String that specifies the value of the ccrz CouponCode c field of the coupon to update.

### ccrz.ccApiCoupon.CODES

List<String> that specifies ccrz CouponCode c field values of the coupons to update.

#### ccrz.ccApiCoupon.ID

String that specifies the Salesforce ID of the coupon to update.

### ccrz.ccApiCoupon.IDS

List<String> that specifies the Salesforce IDs of coupons to update.

- Note: This method checks for these keys in the following order of precedence:
  - 1. ccrz.ccApiCoupon.ID
  - 2. ccrz.ccApiCoupon.IDS
  - 3. ccrz.ccApiCoupon.CODE
  - 4. ccrz.ccApiCoupon.CODES

# Inputs (Optional)

The input map can also include the following keys:

## ccrz.ccApi.API\_SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

## ccrz.ccApiCoupon.LOCK\_COUPON

Boolean

Value	Usage
true (default)	Query the specified coupons using the SOQL FOR UPDATE keyword, which locks the coupons from other changes until the update completes.
false	Don't lock coupons during this method's execution.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCoupon.COUPONS UPDATED

List<ccrz E Coupon c> of the updated coupon records.

SEE ALSO:

ccrz\_\_E\_Coupon\_\_c FOR UPDATE

# ccrz.ccApil18N

Query locales and locale-specific resources for internationalizing a storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

### IN THIS SECTION:

### fetchPageLabels

Executes a SOQL query of page label records and returns page label data for a specific locale. This method doesn't perform any DML operations.

#### getAvailableLocales

References the storefront settings and returns the list of the storefront's enabled locales.

### getBrowserLocales

Checks the Accept-Language request HTTP header to determine which locales the buyer's browser supports.

#### getLocale

Returns the current buyer's locale.

### setLocale

Sets a new locale for the current authenticated buyer. Before setting the new locale, this method verifies that the specified locale is valid and included in the list of supported storefront locales.

# ccrz.ccApil18N.fetchPageLabels

Executes a SOQL query of page label records and returns page label data for a specific locale. This method doesn't perform any DML operations.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> fetchPageLabels(Map<String, Object>)

## **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiI18N.LOCALE

String that specifies one of your storefront's supported locales.

- Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.
- Note: If a page label isn't available for a specified locale, the method falls back to a more generic locale or the storefront's default locale.

#### ccrz.ccApiI18N.PAGE LABEL NAMES

Set<String> of the names of specific page label records to guery. Match the value of the Page Label Name field on a page label

```
new Set<String>{'Page Label_Name_1', 'Page_Label_Name_2'}
```

#### ccrz.ccApiI18N.PAGE NAME

String that specifies the page key for a particular storefront page whose labels you want to query, such as HP or PLP.

### ccrz.ccApiI18N.RETURN SERIAL

Boolean

Value	Usage
true	Return page label data as serialized JSON.
false (default)	Return page label data as a Map <string, string="">.</string,>

### ccrz.ccApiI18N.STORE NAME

String that specifies the name of a storefront.





### ccrz.ccApiI18N.USE CACHE

Boolean

Value	Usage
true	Query page label data from the B2B Commerce for Visualforce public cache. If the specific page label data isn't available in the cache, the method queries ccrz_E_PageLabelc object data.
false (default)	Query page label data directly from ccrz_E_PageLabelc records.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

## ccrz.ccApiI18N.PAGE\_LABELS

Map<String, String> keyed by page label names, where each value is the localized page label text.

Note: If you include ccrz.ccApill8N.RETURN\_SERIAL => true in the input map, this data is formatted as serialized JSON.



### Example: Example

Query all page labels localized into Japanese for the Home page from the public cache. From the returned page label data, capture the value of the Header MyAccount page label.

```
Map<String, Object> pageLabelsToFetch = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiI18N.LOCALE => 'ja JP',
   ccrz.ccApiI18N.STORE NAME => 'DefaultStore',
   ccrz.ccApiI18N.PAGE NAME => 'HP',
    ccrz.ccApiI18N.USE CACHE => true
};
Map<String, Object> pageLabelsFetched =
ccrz.ccApiI18N.fetchPageLabels(pageLabelsToFetch);
System.debug('pageLabelsFetched KEYS=' +
JSON.serializePretty(pageLabelsFetched.keySet()));
Boolean success = (Boolean)pageLabelsFetched.get(ccrz.ccApi.SUCCESS);
if(success) {
   Map<String, Object> pageLabels = (Map<String,
Object>)pageLabelsFetched.get(ccrz.ccApiI18N.PAGE LABELS);
    System.debug('pageLabels=' + JSON.serializePretty(pageLabels));
   String headerMyAccountLabel = (String)pageLabels.get('Header MyAccount');
   System.debug('headerMyAccountLabel=' + JSON.serializePretty(headerMyAccountLabel));
} else {
    List<ccrz.cc bean Message> messages =
(List<ccrz.cc bean Message>)pageLabelsFetched.get(ccrz.ccApi.MESSAGES);
   System.debug('messages=' + messages);
```

```
SEE ALSO:
```

```
ccrz__E_PageLabel__c
ccrz__E_PageLabell18N__c
Salesforce Help Translate Storefront Text for Buyers in Different Locales
Salesforce Help Customize Storefront Headings and Text with Page Labels
```

# ccrz.ccApil18N.getAvailableLocales

References the storefront settings and returns the list of the storefront's enabled locales.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> getAvailableLocales(Map<String, Object>)

## Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicI18NGetAvailableLocales

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiI18N.PARAM STOREFRONT

String that specifies the name of a storefront.



 $\textbf{Note:} \ \ \textbf{If the input data doesn't include this key, the method falls back to \verb|ccrz.cc_CallContext.storefront|.}$ 

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiI18N.PARAM AVAILABLE LOCALES

Set<String> of the storefront's enabled locales.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

# ccrz.ccApil18N.getBrowserLocales

Checks the Accept-Language request HTTP header to determine which locales the buyer's browser supports.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> getBrowserLocales(Map<String, Object>)

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicI18NGetBrowserLocales

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApiI18N.PARAM BROWSER LOCALES

Set<String> of the browser's supported locales.

SEE ALSO:

Mozilla Developers Accept-Language

# ccrz.ccApil18N.getLocale

Returns the current buyer's locale.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> getLocale(Map<String, Object>)

## Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicI18NGetLocale

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiI18N.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApiI18N.PARAM LOCALE

String that specifies the current buyer's locale.

# ccrz.ccApil18N.setLocale

Sets a new locale for the current authenticated buyer. Before setting the new locale, this method verifies that the specified locale is valid and included in the list of supported storefront locales.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> setLocale(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicI18NSetLocale

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiI18N.PARAM LOCALE

String that specifies one of your storefront's supported locales—such as ja JP— or generic locale—such as ja—to set for the user.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiI18N.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### **Outputs**

Map<String, Object> that can include the following keys:

### ccrz.ccApiI18N.PARAM LOCALE

String that specifies the set locale for the current buyer.



Note: If the method couldn't set the locale successfully, this key's value is null.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

# ccrz.ccApilnvoice

Query invoice records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

fetch

Executes a SOQL query of invoice records and returns a list of records that match your query.

SEE ALSO:

Generate an Invoice for a Buyer's Order

# ccrz.ccApilnvoice.fetch

Executes a SOQL query of invoice records and returns a list of records that match your query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

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**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

## **Data Service Provider**

ccrz.ccServiceInvoice



Note: To extend the default invoice functionality, use ccrz.cc\_hk\_Invoice instead of extending this API.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

### ccrz.ccApiInvoice.BYASC

Boolean

Value	Usage
true	Sort returned invoices ID, Date Due value, or Date Issued value—whichever you specify—in ascending order.
false (default)	Sort returned invoices by specified criteria in descending order.

#### ccrz.ccApiInvoice.BYDUEDATE

Boolean

Value	Usage
true	Sort returned invoices by the value of the Date Due field.
false (default)	Sort returned invoices by other criteria.

### ccrz.ccApiInvoice.BYID

Boolean

Value	Usage
true	Sort returned invoices by ID.
false (default)	Sort returned invoices by other criteria.

#### ccrz.ccApiInvoice.BYISSUEDATE

Boolean

Value	Usage
true	Sort returned invoices by the value of the Date Issued field.
false (default)	Sort returned invoices by other criteria.

### ccrz.ccApiInvoice.DUEDATE

Date that specifies a balance due date to query invoice records for.

```
ccrz.ccApiInvoice.DUEDATE => Date.newInstance(YYYY, MM, DD);
```

#### ccrz.ccApiInvoice.ID

String that specifies the ID of an invoice to query.

### ccrz.ccApiInvoice.IDS

Set<String> of specific invoice IDs you want to query:

```
new Set<String>{'Invoice_ID_1', 'Invoice_ID_2'}
```

### ccrz.ccApiInvoice.ISSUEDATE

Date that specifies an issued date to query invoice records for.

```
ccrz.ccApiInvoice.ISSUEDATE => Date.newInstance(YYYY, MM, DD);
```

### ccrz.ccApiInvoice.ORDERIDS

Set<String> of specific order IDs whose invoices you want to query:

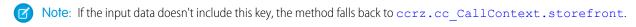
```
new Set<String>{'Order_ID_1', 'Order_ID_2'}
```

#### ccrz.ccApiInvoice.OWNERID

String that specifies the ID of a user whose invoice records you want to query.

#### ccrz.ccApiInvoice.STOREFRONT

String that specifies the name of a storefront for filtering the query.



## Outputs

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiInvoice.INVOICES

List<Map<String, Object>>, where each Map<String, Object> represents an invoice record.

Tip: To specify which fields the API returns for each invoice record, request a specific data size for the ccrz.ccApiInvoice.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E Invoice c reference.

#### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where each Map<String, Object> represents an order record related to an invoice in ccrz.ccApiInvoice.INVOICES.

Tip: To specify which fields the API returns for each order record, request a specific data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data. You can request unique sizes for cart data and product data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    },
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
    }
}
```

You can also exclude the order records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a contact address record related to an invoice in ccrz.ccApiInvoice.INVOICES.



Tip: To specify which fields are returned for each address, add a ccrz.ccApiAddress.ENTITYNAME block to your input sizing:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    },
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
    },
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
    }
}
```

You can also exclude the address records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
  ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object> {
    ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L,
    ccrz.ccApi.SZ_ASSC => false
  }
}
```

## Example: Example

Query for a specific invoice ID, and capture the value of the invoice's Type field in a string variable.

```
Map<String,Object> inputData = (new Map<String,Object>{
   ccrz.ccApi.API VERSION => ccrz.ccAPI.CURRENT VERSION,
   ccrz.ccApiInvoice.STOREFRONT => 'DefaultStore',
    ccrz.ccApiInvoice.ID => 'Invoice ID',
    ccrz.ccApi.SIZING => new Map<String, Object>{
        ccrz.ccApiInvoice.ENTITYNAME => new Map<String, Object>{
            ccrz.ccApi.SZ_DATA => ccrz.ccAPI.SZ_XL
    }
});
try {
    Map<String, Object> outputData = ccrz.ccApiInvoice.fetch(inputData);
    if (outputData.get(ccrz.ccAPIInvoice.INVOICES) != null) {
        // The cast to List<Map<String, Object>> is necessary...
        List<Map<String, Object>> invoiceList = (List<Map<String, Object>>)
outputData.get(ccrz.ccApiInvoice.INVOICES);
        for (Map<String, Object> invoice : invoiceList) {
            // The cast, again, is necessary...
            String invoiceType = (String)invoice.get('type');
} catch (Exception e) {
```

```
// Error handling...
}
```

SEE ALSO:

Generate an Invoice for a Buyer's Order

# ccrz.ccApiMenu

Query menus and menu items.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

fetch

Executes a SOQL query of menu records and their nested menu items, and returns a list of menus that match you query.

# ccrz.ccApiMenu.fetch

Executes a SOQL guery of menu records and their nested menu items, and returns a list of menus that match you guery.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceMenu

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



**Note:** Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

#### ccrz.ccApiMenu.LOCALE

String that specifies a locale whose internationalized menu and menu item values you want to return.

#### ccrz.ccApiMenu.STOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiMenu.MENULIST

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz E Menu crecord. Any nested ccrz E MenuItem c records are included in the children field.



Note: Each menu or menu item record in the return data includes the same set of fields, regardless of any specific ccrz.ccApi.SIZING input data size request.

# Example: Example

Fetch menu records for the DefaultStore and en US locale. Parse the return data for a menu entry's URL.

```
Map<String, Object> menuFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiMenu.STOREFRONT => 'DefaultStore',
    ccrz.ccApiMenu.LOCALE => 'en US'
};
try {
   Map<String, Object> menuFetchData = ccrz.ccApiMenu.fetch(menuFetchQuery);
   if (menuFetchData.get(ccrz.ccApiMenu.MENULIST) != null) {
       List<Map<String, Object>> outputMenuList = (List<Map<String, Object>>)
menuFetchData.get(ccrz.ccApiMenu.MENULIST);
        String menuLinkValue = (String) outputMenuList[0].get('linkURL');
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiOrder

Query, search, split, reorder, or cancel order records.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

#### IN THIS SECTION:

#### authCancel

Calls the ccrz.cc\_api\_OutboundOrderCancel extension point class for determining whether a buyer can cancel an order.

#### cancel

Changes the status of an order to Cancelled after the ccrz.ccApiOrder.authCancel method determines that the order is eligible for cancellation.

#### fetch

Executes a SOQL guery of order records, and returns a list of records that match you guery.

#### fetchOrderHistory

Calls the ccrz.ccApiOrder.search method for searching order history for specific search terms. Then, this method calls the ccrz.ccApiOrder.fetch method with the order IDs that match the search results, and populates the results with more order details.

#### fetchOrderItems

Executes a SOQL query of order item records, and returns a list of order items that match you query.

#### getOrdersToSplit

Determines which orders to include in the ccrz.ccSplitOrderJob batch processing class. By default, this method includes all orders where the ccrz SplitProcessed c field is FALSE.

#### reorder

Copies the data for a completed order and its order items to a new cart and cart items.

#### restore

Reopens a cart after the corresponding order fails when attempting to place the order asynchronously. This method resets the status of the cart back to Open and makes that cart active. You can restore an order only one time.

#### search

Executes a SOSL query of order records, and returns the IDs of orders that match the search query.

#### splitOrde<sub>1</sub>

Splits orders by seller. This method creates a separate child order for each seller referenced in the parent order. For example, let's say that a parent contains three line items—two items associated with one seller and another item associated with a different seller. This method creates two child orders, where each child order corresponds to each seller.

# ccrz.ccApiOrder.canCancel

Calls the ccrz.cc api OutboundOrderCancel extension point class for determining whether a buyer can cancel an order.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> canCancel(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicOrderAuthCancel

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiOrder.PARAM ORDER STATUS

String that specifies the status of the order to pass to the

ccrz.cc api OutboundOrderCancel.eligibleForCancellation extension point method.

# Outputs

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiOrder.AUTHCANCEL

Boolean

Value	Usage
true	The buyer can cancel the order. By default, the ccrz.cc_api_OutboundOrderCancel.eligibleForCancellation method returns true when this method's ccrz.ccApiOrder.PARAM_ORDER_STATUS input specifies one of the following values:  Cancelled Pending Cancel Shipped
false	The buyer can't cancel the order.

SEE ALSO:

 $ccrz.cc\_api\_OutboundOrderCancel.eligibleForCancellation$ 

# ccrz.ccApiOrder.cancel

Changes the status of an order to Cancelled after the ccrz.ccApiOrder.authCancel method determines that the order is eligible for cancellation.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> cancel(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicOrderCancel

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiOrder.PARAM ORDER ENCID

Encrypted ID of the order to cancel.

#### ccrz.ccApiOrder.PARAM ORDER ENCID LIST

Set<String> that includes the encrypted ID of only one order to cancel.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

#### ccrz.ccApiOrder.PARAM ORDER ID

Salesforce ID of the order to cancel.

#### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> that includes the Salesforce ID of only one order to cancel.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiOrder.fetch for returning the canceled order.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>,where the Map<String, Object> represents the canceled ccrz\_\_E\_Order\_\_c record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

# Example: Example

Cancel an order by Salesforce ID.

```
Map<String, Object> orderCancelData = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiOrder.PARAM_ORDER_ID => 'order_ID'
};

try {
    Map<String, Object> orderCancelResults = ccrz.ccApiOrder.cancel(orderCancelData);
    System.debug((Boolean) orderCancelResults.get(ccrz.ccApi.SUCCESS));
} catch (Exception e) {
    // Error handling...
}
```

# ccrz.ccApiOrder.fetch

Executes a SOQL guery of order records, and returns a list of records that match you guery.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

# **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceOrder

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

## ccrz.ccApiOrder.PARAM\_BY\_AMOUNT

Boolean

Value	Usage	
true	Sort returned orders by ccrzTotalAmountc value in descending order.	
false (default)	Sort orders by other criteria.	

## ccrz.ccApiOrder.PARAM\_BY\_ASC

Boolean

Value	Usage
true	Sort returned orders by specified criteria (ccrz.ccApiOrder.PARAM_BY_AMOUNT, ccrz.ccApiOrder.PARAM_BY_DATE, ccrz.ccApiOrder.PARAM_BY_ORDERNUMBER, or ccrz.ccApiOrder.PARAM_BY_STATUS) in ascending order.
false (default)	Sort orders in descending order.

# ccrz.ccApiOrder.PARAM\_BY\_DATE

Boolean

Value	Usage	
true	Sort returned orders by ccrzOrderDatec value in descending order.	
false (default)	Sort orders by other criteria.	

# ccrz.ccApiOrder.PARAM\_BY\_ORDERNUMBER

Boolean

Value	Usage	
true	Sort returned orders by ccrzOrderNumberc value in descending order.	
false (default)	Sort orders by other criteria.	

## ccrz.ccApiOrder.PARAM\_BY\_STATUS

Boolean

Value	Usage	
true	Sort returned orders by ccrzOrderStatusc value in descending order.	
false (default)	Sort orders by other criteria.	

#### ccrz.ccApiOrder.PARAM FROM DATE

String that specifies a locale-specific date format, such as mm/dd/yyyy for the en\_US locale. This method returns order records where the ccrz OrderDate c value occurs after this specified date.

#### ccrz.ccApiOrder.PARAM ORDER EFFACCT ID

String that specifies the ID of an effective account for filtering orders.

#### ccrz.ccApiOrder.PARAM ORDER ENCID LIST

Set<String> of encrypted IDs for the orders to query.

#### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> of Salesforce IDs for the orders to guery.

#### ccrz.ccApiOrder.PARAM ORDER STATUS

String that specifies a ccrz OrderStatus c value for filtering orders.

#### ccrz.ccApiOrder.PARAM OWNERID

String that specifies the Salesforce ID of the user that owns the orders to query.

#### ccrz.ccApiOrder.PARAM TO DATE

String that specifies a locale-specific date format, such as mm/dd/yyyy for the en\_US locale. This method returns order records where the ccrz OrderDate c value occurs before this specified date.

#### ccrz.ccApiOrder.SUBSCORDER

String that specifies the Salesforce ID of a ccrz\_E\_Subscription\_c record associated with the orders to the query. To return orders where the ccrz\_CCSubscription\_c field is blank, pass an empty string this key's value.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_ContactAddr\_c associated with the order's shipping or billing addresses. For more information about fetching address data, see ccrz.ccApiAddress.fetch.

Tip: To specify which fields the API returns for each contact address, request a specific data size for the ccrz.ccApiAddress.ENTITYNAME key in your input data. You can request unique sizes for order data and contact address data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    },
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

You can also exclude the address records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

#### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz E Order c record.

Tip: To specify which fields the API returns for each order record, request a specific data size for the ccrz.ccApiOrder.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields and related lists (such as order items and order item groups) are available with different data sizes, see the ccrz E Order c reference.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Product\_c associated with the order's items. For more information about fetching product data, see ccrz.ccApiProduct.fetch.

Tip: To specify which fields the API returns for each product record, request a specific data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data. You can request unique sizes for order data and product data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    },
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

You can also exclude the product records from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

Note: The ccrz.ccApiProduct.PRODUCTLIST output can include products that were ordered but are no longer current on your storefront.

# Example: Example

Fetch order records for a pair of specified order IDs, and capture the first result's order status. Evaluate the list of products included in the order return data.

```
Map<String, Object> orderFetchQuery = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiOrder.PARAM ORDER ID LIST => new Set<String>{'order ID 1', 'order ID 2'}
};
try {
   Map<String, Object> orderFetchResults = ccrz.ccApiOrder.fetch(orderFetchQuery);
    if (orderFetchResults.get(ccrz.ccApiOrder.ORDERLIST) != null) {
       List<Map<String, Object>> outputOrdersList = (List<Map<String, Object>>)
orderFetchResults.get(ccrz.ccApiOrder.ORDERLIST);
        String orderName = (String) outputOrdersList[0].get('orderStatus');
    }
    if (orderFetchResults.get(ccrz.ccApiProduct.PRODUCTLIST) != null) {
       List<Map<String, Object>> outputProductsList = (List<Map<String, Object>>)
orderFetchResults.get(ccrz.ccApiProduct.PRODUCTLIST);
        // Evaluate the products included in the order
    }
} catch (Exception e) {
   // Error handling...
```

SEE ALSO:

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.ccApiOrder.fetchOrderHistory

Calls the ccrz.ccApiOrder.search method for searching order history for specific search terms. Then, this method calls the ccrz.ccApiOrder.fetch method with the order IDs that match the search results, and populates the results with more order details.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetchOrderHistory(Map<String, Object>)

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicOrderHistory

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST

Set<String> of Salesforce IDs for the orders to query.

## ccrz.ccService.SEARCHSTRING

String to use for searching order records.

For information about how this method evaluates these parameters, see the reference for the ccrz.ccLogicOrderHistory.fetchHistory logic service provider method.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

## ccrz.ccApiOrder.PARAM\_ORDERLIMIT

Integer that specifies the maximum number of order records to guery at one time.

### ccrz.ccApiOrder.PARAM\_ORDER\_ITEM\_LIMIT

Integer that specifies the maximum number of order item records to query at one time.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

This method's output also includes the output of ccrz.ccApiOrder.search, ccrz.ccApiOrder.fetch, and ccrz.ccApiOrder.fetchOrderItems, if applicable.

SEE ALSO:

ccrz.ccApiOrder.fetch ccrz.ccApiOrder.search

# ccrz.ccApiOrder.fetchOrderItems

Executes a SOQL query of order item records, and returns a list of order items that match you query.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetchOrderItems(Map<String, Object>)

# **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceOrderItem

# Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> of Salesforce IDs for the orders whose items you want to query.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

#### ccrz.ccApiOrder.OISERVSPLIT

Integer that specifies the buffer size of order items to process at one time. The default value is 200.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage	
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiOrder.ORDERITEMATTRIDS

Set<String> of Salesforce IDs for attributes that correspond to the returned order items.

#### ccrz.ccApiOrder.ORDERITEMPRODUCTIDS

Set<String> of Salesforce IDs for products that correspond to the returned order items.

#### ccrz.ccApiOrder.ORDERITEMSBYID

Map<String, List<Map<String, Object>>>, keyed by parent ccrz\_E\_Order\_c, where each Map<String, Object> represents a ccrz E OrderItem c record that matches the query.



Tip: To specify which fields the API returns for each cart record, request a specific data size for the ccrz.ccApiOrder.OI ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.OI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

To instead return a Map<String, List<ccrz\_E\_OrderItem\_\_c>>, set ccrz.ccApi.SZ\_SKIPTRZ => true in your input map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.OI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_SKIPTRZ => true
    }
}
```

# ccrz.ccApiOrder.getOrdersToSplit

Determines which orders to include in the ccrz.ccSplitOrderJob batch processing class. By default, this method includes all orders where the ccrz SplitProcessed c field is FALSE.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> getOrdersToSplit(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicOrderGetOrdersToSplit

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## ccrz.ccApiOrder.PARAM STOREFRONT

String that specifies the name of the storefront to split orders for.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiOrder.SPLITSELECTOR

QueryLocator for the ccrz.ccSplitOrderJob batch processing class to execute against.

SEE ALSO:

ccrz\_E\_Order\_\_c
ccrz.ccSplitOrderJob

# ccrz.ccApiOrder.reorder

Copies the data for a completed order and its order items to a new cart and cart items.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> reorder(Map<String, Object>)

# **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicOrderReOrder

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiOrder.PARAM\_ORDER\_ENCID

Encrypted ID of the order to copy.

#### ccrz.ccApiOrder.PARAM ORDER ENCID LIST

Set<String> that includes the encrypted ID of only one order to copy.

Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

#### ccrz.ccApiOrder.PARAM ORDER ID

Salesforce ID of the order to copy.

#### ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST

Set<String> that includes the Salesforce ID of only one order to copy.

Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the created cart

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

#### Outputs

Map<String, Object> that can include the following keys:

## ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID

String that specifies the encrypted ID of the created ccrz E Cart c record.

Note: The output data includes this key only when you extend the default ccrz.ccLogicOrderReOrder class to reference the legacy ccrz.cc\_hk\_Order.reorder method. The managed package provides an example extension, ccrz.ccLogicOrderReOrder7HK, that you can use as a starting point for extending ccrz.ccLogicOrderReOrder.

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_ContactAddr\_c associated with the cart's shipping or billing addresses. For more information about fetching address data with cart data, see ccrz.ccApiCart.fetch.

#### ccrz.ccApiCart.CART ID

Salesforce ID of the created ccrz E Cart c record.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the created ccrz E Cart c record.

Note: This output is a duplicate of ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the created ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.

oxdot Note: This key is returned only when the input map includes  $ccrz.ccApi.SZ_REFETCH => true.$ 

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Product\_c associated with the cart's items. For more information about fetching product data with cart data, see ccrz.ccApiCart.fetch.

Note: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c ccrz.ccApiCart.fetch

# ccrz.ccApiOrder.restore

Reopens a cart after the corresponding order fails when attempting to place the order asynchronously. This method resets the status of the cart back to Open and makes that cart active. You can restore an order only one time.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

global static Map<String, Object> restore(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicOrderRestore

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiOrder.PARAM ORDER ENCID

String that specifies the encrypted ID of the order to restore.

#### ccrz.ccApiOrder.PARAM ORDER ID

String that specifies the Salesforce ID of the order to restore.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### 'originatedCart'

String that specifies the encrypted ID of the reopened cart that corresponds to the order that failed to place.



# Example: Example

Pass the encrypted ID of an order to restore.

```
Map<String, Object> orderToRestore = new Map<String, Object>{
   ccrz.ccApiOrder.PARAM ORDER ENCID => 'ORDER ENCID',
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION
};
    Map<String, Object> orderRestoreResult = ccrz.ccApiOrder.restore(orderToRestore);
    List<ccrz.cc bean Message> orderMessages =
(List<ccrz.cc bean Message>)ccrz.ccUtil.defv(orderRestoreResult, ccrz.ccApi.MESSAGES,
new List<ccrz.cc bean Message>);
} catch (Exception e) {
    // Error handling...
```

# ccrz.ccApiOrder.search

Executes a SOSL query of order records, and returns the IDs of orders that match the search query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> search(Map<String, Object>)
```

# **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceOrder

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccService.SEARCHSTRING

String to use for searching order records.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccService.SEARCHRESULTS

Set<String> of order IDs that match the search string.

# ccrz.ccApiOrder.splitOrder

Splits orders by seller. This method creates a separate child order for each seller referenced in the parent order. For example, let's say that a parent contains three line items—two items associated with one seller and another item associated with a different seller. This method creates two child orders, where each child order corresponds to each seller.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> splitOrder(Map<String, Object>)

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicOrderSplitOrder



**Note**: By default, the ccrz.ccSplitOrderJob batch processing class calls this method, but you can also call this method directly from subscriber code. To split orders by criteria other than sellers, extend the ccrz.ccLogicOrderSplitOrder logic service provider class.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> that includes the Salesforce IDs of the orders to split.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiOrder.PARAM\_STOREFRONT

String that specifies the name of the storefront to split orders for.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	? Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

ccrz.ccSplitOrderJob

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccApiPriceList

Query price lists and price list items, which specify an account group's entitled prices for particular products.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

## IN THIS SECTION:

#### fetch

Executes a SOQL query of price list records, and returns a list of price lists that match your query.

## fetchEntitled

Executes a SOQL or SOSL query of price list records, and returns a list of price list IDs that the current account is entitled to. You can filter by account group or price group entitlements.

#### fetchPriceListItems

Executes a SOQL guery of price list item records, and returns a list of price list item IDs.

#### SEE ALSO:

Salesforce Help Manage Prices for Storefront Products with Price Lists

# ccrz.ccApiPriceList.fetch

Executes a SOQL guery of price list records, and returns a list of price lists that match your guery.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

# Service Layer Classes

### **Data Service Provider**

ccrz.ccServicePL

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiPriceList.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userCurrency.

#### ccrz.ccApiPriceList.EFFACCTID

String that specifies the ID of an account record to filter price lists by. The method returns only the price list records that are assigned to the specified account's account group.

Mote: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.currAccountId.

#### ccrz.ccApiPriceList.EFFDATE

Date to filter price lists by. The method returns only the price list records where the date is included in the Start Date and End Date range.

Note: If the input data doesn't include this key, the method falls back to the current date.

#### ccrz.ccApiPriceList.IDS

Set<String> of specific price list IDs to guery:

new Set<String>{'Price\_List\_ID\_1', 'Price\_List\_ID\_2'}

#### ccrz.ccApiPriceList.INCLSELLERS

Boolean

Value	Usage
true (default)	Include price lists with sellers assigned in the returned price list data.
false	Exclude price lists with sellers assigned from the returned price list data.

#### ccrz.ccApiPriceList.NAME

String that specifies the name of a particular price list to guery.

#### ccrz.ccApiPriceList.PLISERVSPLIT

Integer that specifies the maximum number of price list items that can pass through ccrz.ccService.transform at once.

? Tip: The default value is 200. You can fine-tune performance of your price data queries by modifying this value.

#### ccrz.ccApiPriceList.PRGRID

String that specifies the ID of a price group record to filter price lists by.

 $oxdot{O}$  Note: If you don't include this key, the method falls back to ccrz.cc\_CallContext.priceGroupId.

#### ccrz.ccApiPriceList.PRODUCTIDS

Set<String> of specific product IDs. The ccrz.ccApiPriceList.PRICELISTITEMS return data key includes price list items assigned to these products.

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

#### ccrz.ccApiPriceList.PRODUCTSKUS

Set<String> of specific product SKU values. The ccrz.ccApiPriceList.PRICELISTITEMS return data key includes price list items assigned to these products.

```
new Set<String>{'Product_SKU_1', 'Product_SKU_2'}
```

#### ccrz.ccApiPriceList.SELLERS

Set<String> of specific seller IDs whose assigned price lists you want to return:

```
new Set<String>{'Seller_ID_1', 'Seller_ID_2'}
```

#### ccrz.ccApiPriceList.STOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.ccApiPriceList.SUBPRODTERMS

Set<String> of specific subscription term IDs. The ccrz.ccApiPriceList.PRICELISTITEMS return data key includes price list items associated with these subscription terms.

```
new Set<String>{ 'SubProdTerm_ID_1', 'SubProdTerm_ID_2'}
```



Important: Specify only one key from among ccrz.ccApiPriceList.IDS, ccrz.ccApiPriceList.EFFACCTID, or ccrz.ccApiPriceList.PRGRID.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPriceList.PRICELISTS

Map<String, Map<String, Object>> keyed by the IDs of the returned price lists.

Tip: To specify which fields the API returns for each price list record, request a specific data size for the ccrz.ccApiPriceList.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E PriceList c reference.

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, Object>> keyed by the IDs of the price list items that belong to the price lists in ccrz.ccApiPriceList.PRICELISTS. This key is returned only when you include ccrz.ccApiPriceList.PRODUCTSKUS, ccrz.ccApiPriceList.PRODUCTIDS, or ccrz.ccApiPriceList.SUBPRODTERMS in the input map. This method chains a call to the ccrz.ccApiPriceList.fetchPriceListItems method to return the price list items data.

Tip: To specify which fields the API returns for each price list item, request a specific data size for the ccrz.ccApiPriceList.ENTITYNAME\_PLI key in your input data. You can request unique sizes for price list data and price list item data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
    },
    ccrz.ccApiPriceList.ENTITYNAME_PLI => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

You can also exclude the price list items from the return data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

# Example: Example

For a specified price list ID and a set of specific product SKUs, fetch the price list data and its price list items.

```
Map<String, Object> priceListsToFetch = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiPriceList.IDS => new Set<String>{'Price_List_ID'},
    ccrz.ccApiPriceList.PRODUCTSKUS => new Set<String>{'Product_SKU_1',
    'Product_SKU_2'},
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApi.SIZING => new Map<String, Object> {
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
        },
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S
```

```
}
};
Map<String, Object> priceListsFetched = ccrz.ccApiPriceList.fetch(priceListsToFetch);
System.debug('priceListsFetched KEYS=' +
JSON.serializePretty(priceListsFetched.keySet()));
Boolean success = (Boolean)priceListsFetched.get(ccrz.ccApi.SUCCESS);
if(success) {
   Map<String, Map<String, Object>> priceLists = (Map<String, Map<String,
Object>>)priceListsFetched.get(ccrz.ccApiPriceList.PRICELISTS);
    System.debug('pricelists=' + JSON.serializePretty(priceLists));
   Map<String, Map<String, Object>> priceListItems = (Map<String, Map<String,
Object>>)priceListsFetched.get(ccrz.ccApiPriceList.PRICELISTITEMS);
    System.debug('pricelistitems=' + JSON.serializePretty(priceListItems));
} else {
    List<ccrz.cc bean Message> messages =
(List<ccrz.cc bean Message>)priceListsFetched.get(ccrz.ccApi.MESSAGES);
   System.debug('messages=' + messages);
```

SEE ALSO:

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccApiPriceList.fetchEntitled

Executes a SOQL or SOSL query of price list records, and returns a list of price list IDs that the current account is entitled to. You can filter by account group or price group entitlements.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

Ø

**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> fetchEntitled(Map<String, Object>)
```

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicPLEntLists

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies the scope of data that this method returns. To return the price list and price list item records that correspond to the entitled price list IDs, include ccrz.ccApi.SZ REFETCH => true in this key's map.

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiPriceList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ REFETCH => true
    }
}
```

## ccrz.ccApiPriceList.ALLWMIX

Boolean

Value	Usage
true	Allow mixed pricing queries when you filter by price group. The method tries to match the specified price group when returning price list records. If a price group match isn't available, the method falls back to the specified account's account group.
false (default)	Don't allow mixed pricing queries when you filter by price group. The method only tries to match the specified price group when returning price list records.

If this key isn't specified in the input data, the method falls back to the value of the

```
ccrz E AccountSettings c.ccrz AllowMixedPricingCarts c field.
```

#### ccrz.ccApiPriceList.CURRCODE

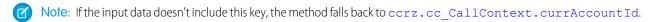
String that specifies an ISO 4217 currency code, such as USD or JPY.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userCurrency.

#### ccrz.ccApiPriceList.EFFACCTID

String that specifies an account ID record to filter entitled price lists by. The method returns only the price list records that are assigned to the specified account's account group.



#### ccrz.ccApiPriceList.EFFDATE

Date to filter price lists by. The method returns only the price list records where the date is included in the Start Date and End Date range.

Note: If the input data doesn't include this key, the method falls back to the current date.

### ccrz.ccApiPriceList.PRGRID

String that specifies a price group ID record to filter price lists by.

Note: If you don't include this key, the method falls back to ccrz.cc\_CallContext.priceGroupId.

#### ccrz.ccApiPriceList.STOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	? Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPriceList.PLIDS

Map<String, Set<String>> keyed by:

- ccrz.ccApiPriceList.PGPLIDS for price lists entitled by price group
- ccrz.ccApiPriceList.ACCTGRPPLIDS for price lists entitled by account group

#### ccrz.ccApiPriceList.PRICELISTS

Map<String, Map<String, Object>> keyed by the IDs of the entitled price lists.

Note: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, Object>> keyed by the IDs of the price list items that belong to the price lists in ccrz.ccApiPriceList.PRICELISTS.

- Note: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.
- Note: For more information about the ccrz.ccApiPriceList.PRICELISTS and ccrz.ccApiPriceList.PRICELISTITEMS keys, see ccrz.ccApiPriceList.fetch.
- Example: Example

Fetch price list IDs for a specified account ID.

```
Map<String, Object> entitledPriceListsToFetch = new Map<String, Object> {
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiPriceList.EFFACCTID => 'Account ID'
};
Map<String, Object> entitledPriceListsFetched =
ccrz.ccApiPriceList.fetchEntitled(entitledPriceListsToFetch);
System.debug('entitledPriceListsFetched KEYS=' +
JSON.serializePretty(entitledPriceListsFetched.keySet()));
Boolean success = (Boolean)entitledPriceListsFetched.get(ccrz.ccApi.SUCCESS);
if(success) {
    Map<String, Object> priceListIDs = (Map<String,
Object>) entitledPriceListsFetched.get(ccrz.ccApiPriceList.PLIDS);
    System.debug('plids=' + JSON.serializePretty(priceLists));
   List<ccrz.cc bean Message> messages =
(List<ccrz.cc bean Message>)entitledPriceListsFetched.get(ccrz.ccApi.MESSAGES);
   System.debug('messages=' + messages);
```

# ccrz.ccApiPriceList.fetchPriceListItems

Executes a SOQL query of price list item records, and returns a list of price list item IDs.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetchPriceListItems(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccServicePL

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPriceList.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userCurrency.

#### ccrz.ccApiPriceList.EFFACCTID

String that specifies the ID of an account record to filter price list items by. The method returns only the price list items for the price lists that are assigned to the specified account's account group.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.currAccountId.

#### ccrz.ccApiPriceList.EFFDATEPLI

Date to filter price list items by. The method returns only the price list item records where the date is included in the Start Date and End Date range.



Note: If the input data doesn't include this key, the method falls back to the current date.

#### ccrz.ccApiPriceList.IDS

Set<String> of specific price list IDs whose items you want to return:

```
new Set<String>{'Price_List_ID_1', 'Price_List_ID_2'}
```

# ccrz.ccApiPriceList.PLI\_IDS

Set<String> of specific price list item IDs to query:

```
new Set<String>{'Price_List_Item_ID_1', 'Price_List_Item_ID_2'}
```

#### ccrz.ccApiPriceList.PLISERVSPLIT

Integer that specifies the maximum number of price list items that can pass through ccrz.ccService.transform at once.



Tip: The default value is 200. You can fine-tune performance of your price data queries by modifying this value.

#### ccrz.ccApiPriceList.PRODUCTIDS

Set<String> of specific IDs for the product records whose price list items you want to query.

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

#### ccrz.ccApiPriceList.PRODUCTSKUS

Set<String> of specific SKU values for the product records whose price list items you want to query.

```
new Set<String>{'Product_SKU_1', 'Product_SKU_2'}
```

#### ccrz.ccApiPriceList.NAME

String that specifies the name of a price list whose items you want to return.

#### ccrz.ccApiPriceList.STOREFRONT

String that specifies the name of a storefront for filtering the query.



#### ccrz.ccApiPriceList.SUBPRODTERMS

Set<String> of specific subscription term IDs whose price list items you want to query.

```
new Set<String>{'SubProdTerm_ID_1', 'SubProdTerm_ID_2'}
```

(1) Important: Specify only one key from among ccrz.ccApiPriceList.IDS or ccrz.ccApiPriceList.EFFACCTID.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, Object>> keyed by the IDs of the returned price list items.



Tip: To specify which fields the API returns for each price list item, request a specific data size for the ccrz.ccApiPriceList.ENTITYNAME\_PLI key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME_PLI => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E PriceListItem c reference.

# Example: Example

For a set of specific product SKUs, fetch the price list items assigned to those products.

```
Map<String, Object> priceListItemsToFetch = new Map<String, Object> {
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiPriceList.PRODUCTSKUS => new Set<String>{'Product SKU 1',
'Product SKU 2'},
    ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiPriceList.ENTITYNAME PLI => new Map<String, Object> {
            ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ_S
    }
};
Map<String, Object> priceListItemsFetched =
ccrz.ccApiPriceList.fetchPriceListItems(priceListItemsFetched);
System.debug('priceListItemsFetched KEYS=' +
JSON.serializePretty(priceListItemsFetched.keySet()));
Boolean success = (Boolean)priceListItemsFetched.get(ccrz.ccApi.SUCCESS);
if(success) {
    Map<String, Map<String, Object>> priceListItems = (Map<String, Map<String,
Object>>) priceListItemsFetched.get(ccrz.ccApiPriceList.PRICELISTITEMS);
    System.debug('pricelistitems=' + JSON.serializePretty(priceListItems));
   List<ccrz.cc bean Message> messages =
(List<ccrz.cc bean Message>)priceListItemsFetched.get(ccrz.ccApi.MESSAGES);
   System.debug('messages=' + messages);
```

# ccrz.ccApiPrivateCache

Query, write, or update cache records for data that must stay private to your org, such as configuration data. For data that's safe for any storefront user to see—such as page labels or the category tree—use methods of the ccrz.ccApiPublicCache class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Cache Implementation

Methods of the ccrz.ccApiPrivateCache class use the following information from records of the ccrz E PrivateCache c object:

#### **Cache Name**

Specifies the type of data that the record caches, such as ccConfig. A Cache Name is required for all method calls. Because multiple private cache records can cache the same type of data, multiple private cache records can have the same Cache Name value.

#### **Build Group**

Groups multiple private cache records together as part of the same build operation. For example, sometimes building the configuration cache from a batch job requires multiple batches to fully rebuild the configuration cache. Such a batch job creates multiple private cache records with the same Cache Name and Build Group. By associating multiple private cache records to a single build operation, you can more easily manage all the records related to that build.

#### Storefront

Specifies a storefront that the cached data applies to. Sometimes, cached data can belong to all storefronts.

#### Page

Specifies a page that the cached data applies to. Sometimes, cached data can belong to all pages.

#### Locale

Specifies a locale that the cached data applies to. Cached data can apply to:

- A specific language and region, such as en US
- Any locale with the same language component, such as en, where both en US and en GB locales apply
- Any locale

To write new private cache records, chain the ccrz.ccApiPrivateCache.startWrite, ccrz.ccApiPrivateCache.appendTo, and ccrz.ccApiPrivateCache.close methods.



**Note**: The following example is simplified to demonstrate the general flow of operations. An actual implementation is more complex and evaluates all storefronts, pages, and locales.

```
Map<String,Object> cacheContext = ccrz.ccApiPrivateCache.startWrite(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiPrivateCache.CACHE_NAME => 'ccConfig',
    ccrz.ccApiPrivateCache.LOCALE => 'en_US',
    ccrz.ccApiPrivateCache.STORE_NAME => 'Global',
    ccrz.ccApiPrivateCache.PAGENAME => 'All'
});
```

```
ccrz.ccApiPrivateCache.appendTo(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiPrivateCache.CONTEXT => cacheContext,
    ccrz.ccApiPrivateCache.CONTENT => 'Some content that is constructed elsewhere but is
just a string here'
});

ccrz.ccApiPrivateCache.close(new Map<String,Object>{
    ccrz.ccApiPrivateCache.close(new Map<String,Object>{
        ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
        ccrz.ccApiPrivateCache.CONTEXT => cacheContext
});
```



Warning: When writing or fetching cached data, limit the size of cached data to less than 2 MB.

### Methods

#### IN THIS SECTION:

#### fetch

Executes a SOQL query of cached data by storefront, page, or locale, and returns the matching cache content as a String.

#### startWrite

Creates and inserts a new cache record, which is initially disabled. This method doesn't create any actual content for the cache, but returns a *cache context*, which is required for subsequent ccrz.ccApiPrivateCache.appendTo andcrz.ccApiPrivateCache.close method calls.

### appendTo

Adds content to a private cache record created with the ccrz.ccApiPrivateCache.startWrite method. Call this method as often as necessary to populate the cache. This method returns a *cache context*, which you pass to subsequent ccrz.ccApiPrivateCache.appendTo andccrz.ccApiPrivateCache.close method calls.

#### close

Stops writing any more content to the private cache record created with the ccrz.ccApiPrivateCache.startWrite and ccrz.ccApiPrivateCache.appendTo methods. If you passed ccrz.ccApiPrivateCache.ENABLE\_ON\_CLOSE => true in the input key for ccrz.ccApiPrivateCache.startWrite, the cache is enabled after ccrz.ccApiPrivateCache.close completes.

#### disableOld

Disables cache records that have the same cache name, storefront, page, and locale as another cache record with a more recent Effective Start date and time. This method changes the value of the Enabled field on the affected private cache records. Make sure that you specify a cache name, storefront, page name, and locale in the method's input map.

#### toggleGroup

Changes the value of the Enabled field for all private cache records that belong to the same build group.

#### SEE ALSO:

ccrz.ccApiPublicCache

# ccrz.ccApiPrivateCache.fetch

Executes a SOQL query of cached data by storefront, page, or locale, and returns the matching cache content as a String.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> fetch(Map<String, Object>)

### Service Layer Classes

This method doesn't support service layer extensions or overrides.

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPrivateCache.CACHE\_NAME

String that specifies a Cache Name for the private cache records to query, such as ccConfig.

ccrz.ccApiPrivateCache.CACHE NAME => 'ccConfig'



Note: If this key isn't specified, the method returns a ccrz.ccApiPrivateCache.NoCacheNameException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPrivateCache.LOCALE

String that specifies a locale to filter the queried cached data by.



**Note:** If cached data isn't available for the specified locale, the method falls back to query other locales with the same language component. For example, maybe you specify en\_US but cached data isn't available for that locale. The method then queries for cached data from any locale that starts with en, such as en GB or en AU.

#### ccrz.ccApiPrivateCache.PAGENAME

String that specifies the name of a page whose cached data you want to query. Use the page keys defined in CC Admin global settings, such as hp for Home page and p1p for Product List page.

```
ccrz.ccApiPrivateCache.PAGENAME => 'hp'
```

To query cached data from all pages, specify A11. If you don't include this key in your input map, the method uses A11 by default.

```
ccrz.ccApiPrivateCache.PAGENAME => 'All'
```

#### ccrz.ccApiPrivateCache.STORE NAME

String that specifies a storefront whose cached data you want to query.

```
ccrz.ccApiPrivateCache.STORE_NAME => 'DefaultStore'
```

To query cached data from all storefronts, specify Global. If you don't include this key in your input map, the method uses Global by default.

```
ccrz.ccApiPrivateCache.STORE_NAME => 'Global'
```

### **Fallback Behavior**

Depending on which values you include in the input map, this method incrementally falls back to a less specific query, in the following order of priority.



Note: The Sequence Priority field on a private cache record specifies the relative priority of that record in query results.

Priority	ccrz.cc4piPrivateCache.SICRE_NAME Value	ccrz.ccApiPrivate.PAGENAME  Value	ccrz.ccApiPrivateCache.IOCALE  Value
1	The exact value specified	The exact value specified	The exact value specified
2	The exact value specified	The exact value specified	Any locale with the same language component
3	The exact value specified	The exact value specified	None
4	The exact value specified	All	The exact value specified
5	The exact value specified	All	Any locale with the same language component
6	The exact value specified	All	None
7	Global	The exact value specified	The exact value specified
8	Global	The exact value specified	Any locale with the same language component

Priority	ccrz.cc4piPrivateCache.SICRE_NAME Value	ccrz.ccApiPrivate.PAGENAME  Value	ccrz.ccApiPrivateCache.LOCALE  Value
9	Global	The exact value specified	None
10	Global	All	The exact value specified
11	Global	All	Any locale with the same language component
12	Global	All	None

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPrivateCache.CONTENT

String of the cached data that matches the query.

# ccrz.cc Api Private Cache. start Write

Creates and inserts a new cache record, which is initially disabled. This method doesn't create any actual content for the cache, but returns a *cache context*, which is required for subsequent ccrz.ccApiPrivateCache.appendTo andcrz.ccApiPrivateCache.close method calls.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> startWrite(Map<String, Object>)

### **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPrivateCache.CACHE NAME

String that specifies the name of cached data to insert a new cache record for, such as ccConfig.

ccrz.ccApiPrivateCache.CACHE NAME => 'ccConfig'



Note: If this key isn't specified, the method returns a ccrz.ccApiPrivateCache.NoCacheNameException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiPrivateCache.BUILD GROUP

String that specifies the build group for the cache, which groups all cache records built at approximately the same time for simpler maintenance.

### ccrz.ccApiPrivateCache.BUILD TIMESTAMP

Datetime for the build group, which identifies when the cache record was built. For all cache records that belong to the same build group, use the same timestamp.

#### ccrz.ccApiPrivateCache.EFFECTIVE END

Datetime when the cache is no longer valid. If you don't include this key in your input map, the method assigns a datetime 50 years from the current date and time.

### ccrz.ccApiPrivateCache.EFFECTIVE START

Datetime when the cache record becomes valid. If you don't include this key in your input map, the method uses the constant *NOW*, which specifies the current date and time.

### ccrz.ccApiPrivateCache.ENABLE ON CLOSE

Boolean

Value	Usage
true	Enable the cache record after the ccrz.ccApiPrivateCache.close method is complete.
false (default)	The cache record remains disabled after it's created.

#### ccrz.ccApiPrivateCache.LOCALE

String that specifies a locale to insert a new private cache record for. If you don't include this key in your input map, the new cache record applies to all locales.

#### ccrz.ccApiPrivateCache.PAGENAME

String that specifies the name of a page to insert a new private cache record for. If you don't include this key in your input map, the new cache record applies to all pages.

#### ccrz.ccApiPrivateCache.STORE NAME

String that specifies a storefront to insert a new private cache record for. If you don't include this key in your input map, the new cache record applies to all storefronts.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPrivateCache.CONTEXT

ccrz.ccApiPrivateCache.CacheContext object that you pass to ccrz.ccApiPrivateCache.appendTo and ccrz.ccApiPrivateCache.close method calls for this cache record.

# ccrz.ccApiPrivateCache.appendTo

Adds content to a private cache record created with the ccrz.ccApiPrivateCache.startWrite method. Call this method as often as necessary to populate the cache. This method returns a *cache context*, which you pass to subsequent ccrz.ccApiPrivateCache.appendTo andccrz.ccApiPrivateCache.close method calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> appendTo(Map<String, Object>)

### **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPrivateCache.CACHE NAME

String that specifies the name of cached data to add, such as ccConfig.

ccrz.ccApiPrivateCache.CACHE\_NAME => 'ccConfig'



Note: If this key isn't specified, the method returns a ccrz.ccApiPrivateCache.NoCacheNameException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPrivateCache.CONTEXT

ccrz.ccApiPrivateCache.CacheContext Object returned from ccrz.ccApiPrivateCache.startWrite or previous ccrz.ccApiPrivateCache.appendTo method calls.

### ccrz.ccApiPrivateCache.CONTENT

String that specifies the content to add to the cache record.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPrivateCache.CONTEXT

ccrz.ccApiPrivateCache.CacheContext Object that you pass to ccrz.ccApiPrivateCache.appendTo and ccrz.ccApiPrivateCache.close method calls for this cache record.

# ccrz.ccApiPrivateCache.close

Stops writing any more content to the private cache record created with the ccrz.ccApiPrivateCache.startWrite and ccrz.ccApiPrivateCache.appendTo methods. If you passed ccrz.ccApiPrivateCache.ENABLE\_ON\_CLOSE => true in the input key for ccrz.ccApiPrivateCache.startWrite, the cache is enabled after ccrz.ccApiPrivateCache.close completes.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> close(Map<String, Object>)

### **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPrivateCache.CACHE NAME

String that specifies the name of cached data to close, such as ccConfig.

ccrz.ccApiPrivateCache.CACHE NAME => 'ccConfig'



Note: If this key isn't specified, the method returns a ccrz.ccApiPrivateCache.NoCacheNameException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPrivateCache.CONTEXT

ccrz.ccApiPrivateCache.CacheContext object returned from ccrz.ccApiPrivateCache.appendTo method calls.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# ccrz.ccApiPrivateCache.disableOld

Disables cache records that have the same cache name, storefront, page, and locale as another cache record with a more recent Effective Start date and time. This method changes the value of the Enabled field on the affected private cache records. Make sure that you specify a cache name, storefront, page name, and locale in the method's input map.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> disableOld(Map<String, Object>)

# **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPrivateCache.CACHE NAME

String that specifies the name of cached data to disable, such as ccConfig.

ccrz.ccApiPrivateCache.CACHE NAME => 'ccConfig'



Note: If this key isn't specified, the method returns a ccrz.ccApiPrivateCache.NoCacheNameException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPrivateCache.LOCALE

String that specifies a locale to disable old cache entries for. If locale doesn't apply to the cache entries you want to disable, pass an empty string:

ccrz.ccApiPrivateCache.LOCALE => ''

#### ccrz.ccApiPrivateCache.PAGENAME

String that specifies a page to disable old cache entries for.

#### ccrz.ccApiPrivateCache.STORE NAME

String that specifies a storefront to disable old cache entries for.

### Outputs

None

# ccrz.ccApiPrivateCache.toggleGroup

Changes the value of the Enabled field for all private cache records that belong to the same build group.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> toggleGroup(Map<String, Object>)

### **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiPrivateCache.CACHE NAME

String that specifies a Cache Name value for the private cache records you want to update, such as ccConfig.

ccrz.ccApiPrivateCache.CACHE NAME => 'ccConfig'



Note: If this key isn't specified, the method returns a ccrz.ccApiPrivateCache.NoCacheNameException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPrivateCache.BUILD GROUP

String that specifies a Build Group value for the private cache records you want to update. This method updates all private cache records with the same ccrz.ccApiPrivateCache.CACHE\_NAME and ccrz.ccApiPrivateCache.BUILD\_GROUP values.

### ${\tt ccrz.ccApiPrivateCache.SET\_ENABLED}$

Boolean

Value	Usage
true	Enable the Enabled field on each affected private cache record.
false	Disable the Enabled field on each affected private cache record.



**Note:** If you don't include this key, by default this method changes the current value of the Enabled field to the opposite value. For example, if Enabled is true, this method changes Enabled to false.

### Outputs

None

# ccrz.ccApiProduct

Query product records, price entitled products, and return other entitled product details, including records related to each product, such as composite products and product media.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Methods

#### IN THIS SECTION:

#### fetch

Executes a SOQL query of product records, and returns a list of products that match your query. This method can also return multiple lists of related object records, such as composite products and product media.

#### find

Returns and prices entitled products that match a search string or that belong to a set of specified category IDs.

#### findFilters

Returns filters and spec values for entitled products that match a search string or that belong to a set of specified category IDs.

#### **getUrlFor**

Returns a map where each entry associates a product's ID with its friendly URL.

#### revise

Updates the value of only the Product Index Status field on existing product records. This method doesn't support updating other fields on product records.

#### search

Executes a SOSL query of product records, and returns the IDs of products that match the search query.

# ccrz.ccApiProduct.fetch

Executes a SOQL query of product records, and returns a list of products that match your query. This method can also return multiple lists of related object records, such as composite products and product media.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> fetch(Map<String, Object>)
```

### **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceProduct

#### **Logic Service Provider**

ccrz.ccLogicProductPricing

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiProduct.PRODUCTIDLIST

Set<String> of specific product IDs to query:

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

#### ccrz.ccApiProduct.PRODUCTSKULIST

Set<String> of specific product SKUs to query:

```
new Set<String>{'Product SKU 1', 'Product SKU 2'}
```



Note: If you specify both keys, ccrz.ccApiProduct.PRODUCTIDLIST takes precedence.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

### ccrz.ccApiProduct.DATEFILTER

Boolean

Value	Usage
true (default)	Evaluate Start Date and End Date values when returning product data.
false	Ignore Start Date and End Date values when returning product data.

### ccrz.ccApiProduct.INCLUDE ATTRIBUTE PRICING

Boolean

Value	Usage
true	Evaluate attribute data when ccrz.ccApiProduct.PARAM_INCLUDE_PRICING is also true. B2B Commerce for Visualforce calls the ccrz.ccLogicProductPricing logic service class, which:
	<ul> <li>Queries for ccrz_E_Attributec records that are related to each product</li> <li>Returns the attribute pricing JSON applied to the product's entitled price list item</li> </ul>
false (default)	Don't return any attribute pricing.

### ccrz.ccApiProduct.MEDIAFILTER

Set<String> of specific product media types that you want to return in the related ccrz E ProductMedia c records.

### ccrz.ccApiProduct.PARAM\_BY\_ASC

Boolean

Value	Usage
true	Sort returned products by ID in ascending order. For example, sort from 100 to 900. If you pass ccrz.ccApiProduct.PARAM_BY_SEQ => true, products sort by Sequence value in ascending order.
false (default)	Sort returned products by ID in descending order.

#### ccrz.ccApiProduct.PARAM BY NULLS LAST

Boolean

Value	Usage
true	Place all products with a null Sequence value at the end of the returned product data.
false (default)	Place all products with a null Sequence value at the beginning of the returned product data.

### ccrz.ccApiProduct.PARAM\_BY\_SEQ

Boolean

Value	Usage
true	Sort returned products by Sequence value in descending order. For example, sort from 900 to 100.
false (default)	Sort returned products by ID in descending order.

### ccrz.ccApiProduct.PARAM\_INCLUDE\_BLOCKED

Boolean

Value	Usage
true	Return products with any status.
false (default)	Return products with a status of only Released or Not Orderable.

### ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING

Boolean

Value	Usage
true (default)	Include ccrz.ccApiProduct.PRODUCTPRICINGDATA in the product return data. B2B Commerce for Visualforce calls the ccrz.ccLogicProductPricing logic service class to evaluate each product's entitlements when determining pricing.
false	Don't return any pricing data.

### ccrz.ccApiProduct.PARAM\_INCLUDE\_SELLERS

Boolean

Value	Usage
true (default)	Return a list of all sellers for each product. Make sure that ccrz.ccApiProduct.PARAM_INCLUDE_PRICING is also true.
false	Don't return any seller information.

### ccrz.ccApiProduct.PARSE\_ATTRIBUTE\_PRICING

Boolean

Value	Usage
true (default)	Parse the attribute pricing JSON returned when ccrz.ccApiProduct.INCLUDE_ATTRIBUTE_PRICING is true.
false	Skip querying attribute records and return only an unparsed attribute pricing field from each product's entitled price list item.

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The method returns internationalized product values in the ccrz.ccApiProduct.PRODUCTLIST return key. The service layer translates the values from ccrz E ProductItemI18N c records and handles fallback languages, if necessary.



#### ccrz.ccApiProduct.PRODUCTSTOREFRONT

String that specifies the name of a storefront for filtering the query.



#### ccrz.ccApiProduct.TYPES

Set<String> of specific product types to query for.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiAttribute.IDS

List<String> of entitled attribute records to pass to the ccrz.ccApiAttribute.fetch method for returning attributes related to the returned products. This data is available only when you include ccrz.ccApiProduct.PARAM INCLUDE PRICING => true in the input map.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_\_E\_Product\_\_c that matches the query.



Tip: To specify which fields the API returns for each product record, request a specific data size for the ccrz.ccApiProduct.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields and related lists (such as product media) are available with different data sizes, see the ccrz E Product c reference.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of the pricing data returned when you include ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true in the input map. This map contains seller, subscription term, attribute, and standard pricing information for the returned products.

#### ccrz.ccApiSpec.SPECLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Spec\_c record associated with product spec values, which are included in the productSpecs field of ccrz.ccApiProduct.PRODUCTLIST. For more information about fetching spec data, see ccrz.ccApiSpec.fetch.

Tip: To specify which fields the API returns for each spec record, request a specific data size for the ccrz.ccApiSpec.ENTITYNAME key in your input data. You can request unique sizes for product data and spec data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    },
    ccrz.ccApiSpec.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

By default, the ccrz.ccApiSpec.SPECLIST is returned when the input map requests a large data size for ccrz.ccApiProduct.ENTITYNAME. You can optionally exclude the spec records from the return data.

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L,
        ccrz.ccApi.SZ_ASSC => false
    }
}
```

#### ccrz.ccApiSubProdTerm.SPTLIST

List<Map<String, Object>> of subscription product terms related to the returned products.

#### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> of subscription product terms per product.



#### Example: Example

Query a pair of product IDs, and capture the first product's name in a variable.

```
Map<String, Object> productFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
```

### Platform Cache

By default, this method checks for product data previously queried and stored in Platform Cache. This design helps improve performance on your storefront when displaying your product data.

The underlying ccrz.ccServiceProduct.fetch method that supports the ccrz.ccApiProduct.fetch method checks the Platform Cache for product data.

- 1. Before the ccrz.ccApiProduct.fetch method executes the query for product data, the underlying ccrz.ccServiceProduct.fetch data service method calls the ccrz.ccService.prepareCacheKey method.
- 2. If ccrz.ccService.prepareCacheKey finds a match in Platform Cache for the queried data, it passes the matching data to the ccrz.ccService.prepReturn method, which sends the data to the ccrz.ccApiProduct.fetch query.

If no matching data is found in the Platform Cache, the ccrz.ccApiProduct.fetch query executes and returns data from your org's database. In this case, the ccrz.ccService.prepareCacheData method is called to store the product data in Platform Cache.



**Note:** Storing product data in Platform Cache also stores related data, such as product media and product specs, all of which consume space allocated in the cache.

To specify how long B2B Commerce for Visualforce keeps product data cached, change the product data time to live (TTL) values in your storefront configuration settings.

### SEE ALSO:

ccrz.ccLogicProductPricing

Salesforce Help Set Up Attribute-Based Products

Salesforce Help Set Up Product Data for B2B Commerce for Visualforce

Salesforce Help Host a Seller Marketplace on Your Storefront

Salesforce Help Offer Subscriptions for Products on Your Storefront

Improve Storefront Performance with Platform Cache

# ccrz.ccApiProduct.find

Returns and prices entitled products that match a search string or that belong to a set of specified category IDs.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### **Signature**

global static Map<String, Object> find(Map<String, Object>)

### Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicProductFind

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiProduct.CATEGORY IDS

Set<String> of specific category IDs whose assigned products you want to return and price.

### ccrz.ccService.SEARCHSTRING

String to use for searching product records, and whose results you want to return and price.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiProduct.CURRENT INDEX

Map<String, Object> that specifies the product index information for the product to use as a starting point in the ccrz.ccApiProduct.find call.

```
Map<String, Object> findProductsStartingFrom = new Map<String, Object> {
  primary => 'String of product's sfdcName',
  secondary => CC Product Index record ID
}
```

You can use the ccrz.ccApiProduct.CURRENT\_INDEX, ccrz.ccApiProduct.PRODUCT\_LIMIT, and ccrz.ccService.ORDERBY keys to chain ccrz.ccApiProduct.find calls together. For details, see this method's example on page 524.

#### ccrz.ccApiProduct.INCLUDE COUNT

Boolean

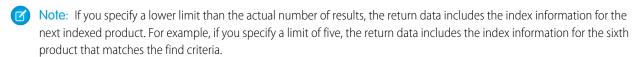
Value	Usage
true	Return the total count of products, keyed under ccrz.ccApiProduct.COUNT.
false (default)	Don't return product count.

#### ccrz.ccApiProduct.PRODUCT FILTERS

List<Map<String, Object>>, where each Map<String, Object> specifies spec values to filter products by.

#### ccrz.ccApiProduct.PRODUCT LIMIT

Integer that specifies the maximum number of product IDs to return.



#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The method returns internationalized product values in the ccrz.ccApiProduct.PRODUCTLIST return key. The service layer translates the values from ccrz\_\_E\_ProductItemI18N\_\_c records and handles fallback languages, if necessary.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

### ccrz.ccApiProduct.PRODUCTSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.ccService.ORDERBY

String that specifies the field to order results by. Possible values include:

- ccrz.ccApiProductIndex.BY NAME
- ccrz.ccApiProductIndex.BY PRICE
- ccrz.ccApiProductIndex.BY START DATE
- ccrz.ccApiProductIndex.BY RELEVANCE

• ccrz.ccApiProductIndex.BY SEQUENCE (default)

#### ccrz.ccService.SORTDESC

Boolean

Value	Usage
true	Sort returned products by the field that the ccrz.ccService.ORDERBY key specifies, in descending order.
false (default)	Sort returned products in ascending order.

### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiProduct.PRODUCTLIST

List<Object> where each object represents a ccrz E Product c record that matches the find criteria.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data, keyed by product ID. The map contains seller, subscription term, attribute, and standard pricing information for the returned products.

### Example: Example

Specify a limit of 10 results returned for a search string, and sort the results by product name. Then, execute a second ccrz.ccApiProduct.find call for another set of 10 results, starting with the 11th result from the first call.

```
Map<String, Object> firstGroupOfProductsToFind = new Map<String, Object> {
   ccrz.ccApiProduct.PRODUCT LIMIT => 10,
    ccrz.ccService.SEARCHSTRING => 'Some string to search products for',
    ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY_NAME
};
Map<String, Object> = firstGroupOfProductsFound =
ccrz.ccApiProduct.find(firstGroupOfProductsToFind);
Map<String, Object> secondGroupOfProductsToFind = new Map<String, Object> {
```

```
ccrz.ccApiProduct.CURRENT_INDEX =>
firstGroupOfProductsFound.get(ccrz.ccApiProduct.CURRENT_INDEX),
    ccrz.ccApiProduct.PRODUCT_LIMIT => 10,
    ccrz.ccService.SEARCHSTRING = 'Some string to search products for',
    ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY_NAME
};
```

SEE ALSO:

ccrz.ccApiProductIndex

# ccrz.ccApiProduct.findFilters

Returns filters and spec values for entitled products that match a search string or that belong to a set of specified category IDs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> findFilters(Map<String, Object>)
```

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicProductFindFilters

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiProduct.CATEGORY IDS

Set<String> of specific category IDs whose assigned products you want to return product filters for.

#### ccrz.ccService.SEARCHSTRING

String to use for searching product index records for returning product filters. The ccrz.ccApiProductIndex.search method executes the search with a SOSL query.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiProduct.PRODUCT FILTERS

List<Map<String, Object>>, where each Map<String, Object> specifies a spec ID and product spec value to filter products by:

```
]
    "specValues" : [ {
       "value" : "Blue"
   } ],
   "sfid": "a1h6A00000045s5QAA"
} ]
```

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The method returns internationalized product spec values in the ccrz.ccApiProduct.PRODUCT FILTERS return key.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiProduct.PRODUCT FILTERS

Map<String, Map<String, Object>> of aggregated product filters, keyed by spec value. When serialized to JSON, this map of filters uses the following format:

# ccrz.ccApiProduct.getUrlFor

Returns a map where each entry associates a product's ID with its friendly URL.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### **Signature**

global static Map<String, Object> getUrlFor(Map<String, Object>)

### Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicProductUrlFor

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiProduct.PRODUCTIDLIST

List<String> of Salesforce IDs for specific products whose friendly URLs you want to return.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz\_E\_Product\_c whose friendly URL you want to return.

#### ccrz.ccApiProduct.PRODUCTSKULIST

List<String> of specific product SKUs whose friendly URLs you want to return.



**Note:** This method checks for these keys in the following order of precedence:

- 1. ccrz.ccApiProduct.PRODUCTLIST
- 2. ccrz.ccApiProduct.PRODUCTSKULIST
- 3. ccrz.ccApiProduct.PRODUCTIDLIST

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The method returns internationalized friendly URL values in the ccrz.ccApiProduct.PRODUCTURLMAP return key.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

#### ccrz.ccApiProduct.PRODUCTLOCALES

Set<String> of your storefront's supported locales. The method returns internationalized friendly URL values for the locales.

#### ccrz.ccApiProduct.STOREFRONT

String that specifies the name of a storefront for filtering the guery.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

cception for any errors that PI transaction to a previous

#### ccrz.ccApiProduct.PRODUCTURLMAP

Map<String, Object> for a single locale, where each key is a product ID and each value is the product's friendly URL.

### Example

Query a pair of product IDs and return their friendly URL values.

```
try{
    // Gather set of products
   Map<String, Object> productReturnData = ccrz.ccApiProduct.fetch(new Map<String, Object>{
        ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
        ccrz.ccApiProduct.PRODUCTIDLIST => new List<String>{'Product ID 1',
'Product ID 2'},
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object>{
            ccrz.ccAPI.SZ DATA => ccrz.ccAPI.SZ S,
            ccrz.ccAPI.SZ ASSC => false,
            ccrz.ccAPI.SZ_REL => new List<String>{'Product Item I18Ns r'}
        }
    });
   // Pass products to getUrlFor
   Map<String, Object> urlReturnData = ccrz.ccApiProduct.getUrlFor(new Map<String, Object>{
        ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
      ccrz.ccApiProduct.PRODUCTLIST => productReturnData.get(ccrz.ccApiProduct.PRODUCTLIST)
   });
    // Grab the URL map from the return data
```

```
Map<String, Object> productUrlMap = (Map<String,
Object>)urlReturnData.get(ccrz.ccApiProduct.PRODUCTURLMAP);
} catch(Exception e) {
    // Error handling
}
```

SEE ALSO:

Salesforce Help Serve Friendly URLs for Storefront Pages

# ccrz.ccApiProduct.revise

Updates the value of only the Product Index Status field on existing product records. This method doesn't support updating other fields on product records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.
- Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

### Signature

```
global static Map<String, Object> revise(Map<String, Object>)
```

### **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceProduct

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> contains the sfid of a ccrz E Product c to update and the productIndexStatus field value you want to set.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiProduct.fetch for returning the updated products.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>,where each Map<String, Object> represents an updated ccrz\_\_E\_Product\_\_c record.



🕜 Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.



#### Example: Example

Change the productIndexStatus field value for a specified product record.

```
Map<String,Object> productToUpdate = new Map<String,Object>{
    'sfid' => 'Product ID',
    'productIndexStatus' => 'Current'
} ;
Map<String,Object> inputData = (new Map<String,Object>{
   ccrz.ccApiProduct.PRODUCTLIST => new List<Map<String,Object>>{productToUpdate},
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApi.SIZING => new Map<String, Object> {
        ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object> {
            ccrz.ccApi.SZ REFETCH => true
    }
});
   Map<String, Object> outputData = ccrz.ccApiProduct.revise(inputData);
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiProduct.search

Executes a SOSL query of product records, and returns the IDs of products that match the search query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

### **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceProduct

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccService.SEARCHSTRING

String to use for searching product records.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The method returns internationalized product records in the return data.



**Note**: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

#### ccrz.ccApiProduct.PRODUCTSTOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage	
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiProduct.PRODUCTSEARCHMAP

Map<String, String> that relates each returned product's ID to its SKU.

#### ccrz.ccService.SEARCHRESULTS

Set<String> of product IDs that match the search string.

### Example: Example

Search products for the string coffee grinder, and then call ccrz.ccApiProduct.fetch on the IDs that the search returned.

```
Map<String, Object> productSearchInput = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiProduct.PRODUCTSTOREFRONT => 'DefaultStore',
    ccrz.ccService.SEARCHSTRING => 'coffee grinder'
};
   Map<String, Object> productSearchResults =
ccrz.ccApiProduct.search(productSearchInput);
    if (productSearchResults.get(ccrz.ccService.SEARCHRESULTS) != null) {
        Set<String> searchIdSet = (Set<String>)
productSearchResults.get(ccrz.ccService.SEARCHRESULTS);
        // Call search with the set?
        Map<String, Object> fetchproductSearchInput = new Map<String, Object>{
            ccrz.ccApiProduct.PRODUCTIDLIST => searchIdSet,
            ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION
        };
        try {
            Map<String, Object> productSearchResults =
ccrz.ccApiProduct.fetch(productSearchInput);
            if (productSearchResults.get(ccrz.ccApiProduct.PRODUCTLIST) != null) {
                // The cast to List<Map<String, Object>> is necessary...
             List<Map<String, Object>> outputProductList = (List<Map<String, Object>>)
productSearchResults.get(ccrz.ccApiProduct.PRODUCTLIST);
                // The cast, again, is necessary...
                String productName = (String) outputProductList[0].get('sfdcName');
        } catch (Exception e) {
            // Error handling...
} catch (Exception e) {
```

```
// Error handling...
}
```

# ccrz.ccApiProductIndex

Query, create, update, or remove product index records, which B2B Commerce for Visualforce uses for quickly populating content on the Product List page version 2.0.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

#### IN THIS SECTION:

#### create

Creates product index records from price list items that you specify. This method creates product index records for each locale your storefront supports and for each category that a product belongs to.

#### fetch

Executes a SOQL query of product index records and returns a list of records that match your query.

#### fetchEntitled

Executes a SOQL or SOSL query of product index records and returns a list of product IDs that the current user is entitled to. You can further filter which entitled product IDs the method returns by a search term, specific category assignments, product spec values, and specific price lists.

#### remove

Delete product index records. B2B Commerce for Visualforce uses this method in product index batch jobs.

#### revise

Updates the status of the Active field on existing product index records. B2B Commerce for Visualforce uses this method in product index batch jobs.

#### search

Executes a SOSL search of product index records and returns a list of records that match your search.

# ccrz.ccApiProductIndex.create

Creates product index records from price list items that you specify. This method creates product index records for each locale your storefront supports and for each category that a product belongs to.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> create(Map<String, Object>)

### **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicPICreate

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include one of the following keys. If none of these keys are included, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiProductIndex.PRICE\_LIST\_ITEM\_IDS

Set<String> of Salesforce IDs of price list item records that you want to create product index records for.

```
new Set<String>{'Price_List_Item_ID_1', 'Price_List_Item_ID_2'}
```

### ${\tt ccrz.ccApiProductIndex.PRICE\_LIST\_ITEMS}$

Map<String, Object> of price list item records, keyed by ID, that you want to create product index records for.

### ccrz.ccApiProductIndex.PRODUCT IDS

Set<String> of specific product IDs that you want to create product index records for.

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiProductIndex.fetch for returning the created product index records.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiProductIndex.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

## ccrz.ccApiProductIndex.MASTER PRICE LIST

String that specifies the ID of the storefront's master price list, if applicable.

Set<String> of locales that you want to create product index records for.

```
new Set<String>{'en_US', 'ja_JP'}
```



Note: If the input data doesn't specify this key, this method queries all locales.

# Outputs

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiProductIndex.IDS

Set<String> of the created product index records.

### ccrz.ccApiProductIndex.PRODUCT\_INDICES

List<Map<String, Object>>, where each Map<String, Object> represents a created product index record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ\_REFETCH => true.



### Example: Example

Creates product index records for three specific price list items.

```
Map<String, Object> priceListItemsToCreate = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiProductIndex.PRICE_LIST_ITEM_IDS => new Set<String>{'a176A000000t612',
    'a176A000000t613', 'a176A000000t614'}
};

try {
    Map<String, Object> createProductIndexRecords =
    ccrz.ccApiProductIndex.create(priceListItemsToCreate);
} catch (Exception e) {
    // Error handling...
}
```

### SEE ALSO:

```
ccrz_E_ProductIndex__c
ccrz.ccProductIndexBuilder
Salesforce Help Maintain Product Index Records
```

# ccrz.ccApiProductIndex.fetch

Executes a SOQL query of product index records and returns a list of records that match your query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

# **Service Layer Classes**

### **Data Service Provider**

ccrz.ccServiceProductIndex

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

### ccrz.ccApiProductIndex.ACTIVE

Boolean

Value	Usage
true	Return only product index records where the Active field is enabled.
false (default)	Return product index records that match your other filter criteria, regardless of the Active field value.

### ccrz.ccApiProductIndex.CATEGORY IDS

Set<String> of specific category IDs whose product index records you want to query:

```
new Set<String>{'Category_ID_1', 'Category_ID_2'}
```

#### ccrz.ccApiProductIndex.CURRENT INDEX

Map<String, Object> that specifies a starting point for the method's query by indicating the last product index record within the previous set of sorted results. You can pass this map to subsequent ccrz.ccApiProductIndex.fetch, ccrz.ccApiProductIndex.search, or ccrz.ccApiProductIndex.fetchEntitled method calls for querying the next set of results. This map specifies the following subkeys:

Key	Usage
primary	The value that the ccrz.ccService.ORDERBY input key used for sorting product index records.
secondary	The ID of the referenced product index record.

### For example:

```
"primary":"sort value, such as index price or product name",
    "secondary":"Product_Index_ID"
}
```

### ccrz.ccApiProductIndex.DATE FILTER

Boolean

Value	Usage
true	Return only product index records where the Start Date and End Date range includes the current date.
false (default)	Return product index records that match your other filter criteria, regardless of date range.

### ccrz.ccApiProductIndex.IDS

Set<String> of specific product index IDs to query:

```
new Set<String>{'Product_Index_ID_1', 'Product_Index_ID_2'}
```

## ccrz.ccApiProductIndex.LOCALE

String that specifies a locale to filter product index records by.

### ccrz.ccApiProductIndex.PRICE LISTS

Set<String> of specific price list IDs whose associated product index records you want to query:

```
new Set<String>{'Price_List_ID_1', 'Price_List_ID_2'}
```

### ccrz.ccApiProductIndex.PRODUCT FILTERS

Map<String, Object> that specifies spec names and product IDs that have values defined for the specs. The method returns product index records that match the specified spec names and product IDs.

```
ccrz.ccApiProductIndex.PRODUCT_FILTERS => new Map<String, Object>{
   'color' => 'Product_ID_1','Product_ID_2'
   'width' => 'Product_ID_3','Product_ID_4'
}
```

## $\verb"ccrz.ccApiProductIndex.STATUS_FILTER"$

Boolean

Value	Usage
true	Return only product index records where the referenced product has a Status field value of Released or Not Orderable.

Value	Usage
false (default)	Return product index records that match your other filter criteria, regardless of product status.

### ccrz.ccApiProductIndex.STOREFRONT

String that specifies a storefront to filter product index records by.



Note: Your version of B2B Commerce for Visualforce determines how the method filters by storefront:

Version	Behavior
B2B Commerce for Visualforce Summer '19 (managed package version 4.11 and API version 10) or later	Queries the Storefront field directly on a product index record.
B2B Commerce for Visualforce Spring '19 (managed package version 4.10 and API version 9) or earlier	Queries the Storefront field on a product that a product index record references.

### ccrz.ccApiProductIndex.TYPE

String that specifies a value for the Index Type field to filter product index records by. By default, the only supported value is the key ccrz.ccApiProductIndex.INDEX TYPE SEARCH, which corresponds to the Index Type value UOVBUkNI, the Base64-encoded value for the string Search.

ccrz.ccApiProductIndex.TYPE => ccrz.ccApiProductIndex.INDEX\_TYPE\_SEARCH



Note: B2B Commerce for Visualforce requires this format for identifying products assigned to multiple categories and ensuring that products appear only once in a search. When a product index record specifies UOVBUkNI for its Index Type, that product index is the record returned in search results.

### ccrz.ccService.ORDERBY

String that specifies a key, which indicates how you want to sort product index records. For example:

ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY\_NAME

Value	Usage
ccrz.ccApiProductIndex.BY_NAME	Sort by the localized name of the product that the product index record references.
ccrz.ccApiProductIndex.BY_PRICE	Sort by the Index Price field on the product index record.
ccrz.cc4piProductIndex.BY_REIEVANCE	Sort by occurrences of the search string in the product's name, short description, and SKU.  Note:  Relevance sorting is available only for product index records that match a search string.  When this key is specified, this method calls into the ccrz.cclogicPIFetchEntitled.rankSearchResultsAndProcess method for executing the relevance sorting.

Value	Usage
ccrz.cc4piProductIndex.BY_SEQUENCE	Sort by the Sequence field on the product category record that the product index record references.
	Note:
	<ul> <li>Sequence sorting is available only for product index records that match specified category IDs.</li> </ul>
	<ul> <li>B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Sequence value. The product index record includes a Product Category Sequence field, whose value is copied from the corresponding product category record's Sequence field.</li> </ul>
ccrz.cc4piProductIndex.BY_START_DATE	Sort by the value of the Start Date field on the product that the product index record references.
	Note: B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Start Date value. The product index record includes a Product Start Date field, whose value is copied from the corresponding product record's Start Date field.

### ccrz.ccService.SORTDESC

Boolean

Value	Usage
true	Sort product index records by the field that ccrz.ccService.ORDERBY specifies in descending order.
false (default)	Sort product index records by the field that ccrz.ccService.ORDERBY specifies in ascending order.

# Outputs

Map<String, Object> that can include the following keys:

# ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

# ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<Map<String, Object>>, where each Map<String, Object> represents a product index record.



Tip: To specify which fields the API returns for each product index record, request a specific data size for the ccrz.ccApiCart.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProductIndex.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E ProductIndex creference.

# Example: Examples

Query product index records for a specific category and locale.

```
Map<String, Object> fetchInputData = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiProductIndex.CATEGORY_IDS => new List<String>{'a176A000000t612'},
    ccrz.ccApiProductIndex.LOCALE => 'en_US'
};

try {
    Map<String, Object> fetchReturnData = ccrz.ccApiProductIndex.fetch(fetchInputData);
} catch (Exception e) {
    // Error handling...
}
```

Query product index records for a specific category and locale. Order the returned product index records by the Indexed Price field, and start the query from a previously queried product index.

```
Map<String, Object> fetchInputData = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiProductIndex.CATEGORY_IDS => new List<String>{'a176A000000t612'},
    ccrz.ccApiProductIndex.LOCALE => 'en_US',
    ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY_PRICE,
    ccrz.ccApiProductIndex.CURRENT_INDEX => new Map<String, Object>{
        'primary' => '0000000000008627.00',
        'secondary' => 'a176A000000t611'
    }
};
```

```
Map<String, Object> fetchReturnData = ccrz.ccApiProductIndex.fetch(fetchInputData);
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiProductIndex.fetchEntitled

Executes a SOQL or SOSL query of product index records and returns a list of product IDs that the current user is entitled to. You can further filter which entitled product IDs the method returns by a search term, specific category assignments, product spec values, and specific price lists.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# **Signature**

```
global static Map<String, Object> fetchEntitled(Map<String, Object>)
```

# **Service Layer Classes**

### **Logic Service Provider**

ccrz.ccLogicPIFetchEntitled

## Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

### ccrz.ccApiProductIndex.CATEGORY IDS

Set<String> of specific category IDs passed to the ccrz.ccApiProductIndex.fetch method, which executes a SOQL query of product index records that reference the specified category IDs.

#### ccrz.ccService.SEARCHSTRING

String passed to the ccrz.ccApiProductIndex.search method for executing a SOSL query of product index records.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiProductIndex.CURRENT INDEX

Map<String, Object> that specifies a starting point for the method's query by indicating the last product index record within the previous set of sorted results. You can pass this map to subsequent ccrz.ccApiProductIndex.fetch, ccrz.ccApiProductIndex.search, or ccrz.ccApiProductIndex.fetchEntitled method calls for querying the next set of results. This map specifies the following subkeys:

Key	Usage
primary	The value that the ccrz.ccService.ORDERBY input key used for sorting product index records.
secondary	The ID of the referenced product index record.

# For example:

```
{
   "primary":"sort value, such as index price or product name",
   "secondary":"Product_Index_ID"
}
```

## ccrz.ccApiProductIndex.INCLUDE\_COUNT

Boolean

Value	Usage
true	Include the ccrz.ccApiProductIndex.COUNT key in the return data, which indicates the total number of product index records that match the query.
false (default)	Don't include the ccrz.ccApiProductIndex.COUNT key in the return data.

### ccrz.ccApiProductIndex.INDEX\_LIMIT

Integer that specifies a maximum number of product index records to query, which affects how many product IDs are returned.

# ccrz.ccApiProductIndex.PRICE\_LISTS

Set<String> of price list IDs, which filters the product index query for only those records that reference the specified price lists. If you exclude this key from the input map, the method invokes the ccrz.ccApiPriceList.fetchEntitled method and filters the query by all the user's entitled price lists.

### ccrz.ccApiProductIndex.PRODUCT\_IDS\_ONLY

Boolean

Value	Usage
true	Return only ccrz.ccApiProductIndex.PRODUCT_IDS, and skip calculating ccrz.ccApiProductIndex.CURRENT_INDEX.
false (default)	Calculate ccrz.ccApiProductIndex.CURRENT_INDEX for the return data.

### ccrz.ccApiProductIndex.PRODUCT SPEC FILTERS

List<Map<String, Object>> or List<Object> of specs and spec values to pass to the ccrz.ccApiSpec.PRODUCT\_SPEC\_INDICES key for the ccrz.ccApiSpec.fetchProductSpecIndices method. Include each spec's ID and the values that you want to filter by, such as:

```
[ {
    "specValues" : [ {
        "value" : "Blue"
    } ],
    "sfid" : "alh6A00000045s5QAA"
} ]
```

Note: If you specify multiple values for the same spec, the method applies an OR condition for evaluating all values.

For a spec where Filter Type is Slider, you can specify a filterMin and filterMax range for filtering:

```
[ {
    "sfid" : "a1h6A00000045s5QAA",
    "filterMin" : "1.0",
    "filterMax" : "10.0"
} ]
```

### ccrz.ccService.ORDERBY

String that specifies a key, which indicates how you want to sort product index records. For example:

ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY\_NAME

Value	Usage	
ccrz.ccApiProductIndex.BY_NAME	Sort by the localized name of the product that the product index record references.	
ccrz.ccApiProductIndex.BY_PRICE	Sort by the Index Price field on the product index record.	
ccrz.cc4piProductIndex.BY_RELEVANCE	Sort by occurrences of the search string in the product's name, short description, and SKU.	
	Note:	
	<ul> <li>Relevance sorting is available only for product index records that match a search string.</li> </ul>	
	<ul> <li>When this key is specified, this method calls into the ccrz.ccLogicPIFetchEntitled.rankSearchResultsAndProcess method for executing the relevance sorting.</li> </ul>	

Value	Usage
ccrz.ccApiProductIndex.BY_SEQUENCE	Sort by the Sequence field on the product category record that the product index record references.
	Note:
	<ul> <li>Sequence sorting is available only for product index records that match specified category IDs.</li> </ul>
	<ul> <li>B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Sequence value. The product index record includes a Product Category Sequence field, whose value is copied from the corresponding product category record's Sequence field.</li> </ul>
ccrz.cc4piProductIndex.BY_START_DATE	Sort by the value of the Start Date field on the product that the product index record references.
	Note: B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Start Date value. The product index record includes a Product Start Date field, whose value is copied from the corresponding product record's Start Date field.

# Outputs

Map<String, Object> that can include the following keys:

# ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

# ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiProductIndex.COUNT

Integer that indicates the total number of product index records that match the query.



Note: This key is returned only when the input data specifies ccrz.ccApiProductIndex.INCLUDE\_COUNT => true.

### ccrz.ccApiProductIndex.CURRENT INDEX

Map<String, Object> that specifies the last product index record within the current set of sorted results. You can pass this map to subsequent ccrz.ccApiProductIndex.fetch, ccrz.ccApiProductIndex.search, or ccrz.ccApiProductIndex.fetchEntitled method calls for querying the next set of results. This map specifies the following subkeys:

Key	Usage
primary	The value that the ccrz.ccService.ORDERBY input key used for sorting product index records.
secondary	The ID of the referenced product index record.

#### For example:

```
"primary":"sort value, such as index price or product name",
    "secondary":"Product_Index_ID"
}
```

#### ccrz.ccApiProductIndex.HAS MORE

Boolean

Value	Usage
true	The method returned more results than the limit that the ccrz.ccApiProductIndex.INDEX_LIMIT input key specified.
false	The method returned fewer results than the limit that the ccrz.ccApiProductIndex.INDEX_LIMIT input key specified.

### ccrz.ccApiProductIndex.PRODUCT CATEGORY SEQUENCE

Map<String, Decimal> that relates each entitled product ID to its corresponding product category sequence value. This key is returned only when the input data includes:

```
ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY_SEQUENCE
```

#### ccrz.ccApiProductIndex.PRODUCT FILTERS

Map<String, List<String>> that relates a spec ID with the entitled product IDs that have spec values for that spec. The method returns this key when the input map includes ccrz.ccApiProductIndex.PRODUCT SPEC FILTERS.

## ccrz.ccApiProductIndex.PRODUCT\_IDS

List<String> of entitled product IDs from the queried product index records. The number of product IDs included in this list depends on whether the input data specified a ccrz.ccApiProductIndex.INDEX LIMIT value.

## ccrz.ccApiProductIndex.PRODUCT SEARCH RANKINGS

Map<String, Integer> that relates each entitled product ID to its determined relevance rank. For example:

```
"an18digitProductID" : 100,
"an18digitProductID" : 200,
"an18digitProductID" : 250,
```

```
"an18digitProductID" : 50
}
```

The method returns this key only when you include the ccrz.ccService.SEARCHSTRING key in the input map.

# ccrz.ccApiProductIndex.remove

Delete product index records. B2B Commerce for Visualforce uses this method in product index batch jobs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> remove(Map<String, Object>)
```

# Service Layer Classes

### **Logic Service Provider**

ccrz.ccLogicPIRemove

# Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Ø

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiProductIndex.IDS

Set<String> of Salesforce IDs of product index records to delete.

```
new Set<String>{'Product_Index_ID_1', 'Product_Index_ID_2'}
```



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

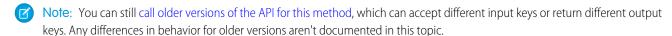
# ccrz.ccApiProductIndex.revise

Updates the status of the Active field on existing product index records. B2B Commerce for Visualforce uses this method in product index batch jobs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



- Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

# **Signature**

```
global static Map<String, Object> revise(Map<String, Object>)
```

# Service Layer Classes

### **Data Service Provider**

ccrz.ccServiceProductIndex

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<Map<String, Object>>, where each Map<String, Object> contains a product index ID and the Active field value to set.

```
Map<String, Object> productIndexToUpdate = new Map<String, Object>{
    'sfid' => 'a176A000000t612',
    'active' => FALSE
};
```



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiProductIndex.fetch for returning the updated product index records.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiProductIndex.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

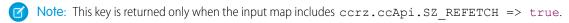
### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<Map<String, Object>>, where each Map<String, Object> represents an updated product index record.



# Example: Example

Update the value of the Active field on two product index records to FALSE.

```
Map<String, Object> productIndex1 = new Map<String, Object>{
    'sfid' => 'a176A000000t612',
    'active' => FALSE
};
Map<String, Object> productIndex2 = new Map<String, Object>{
    'sfid' => 'a176A000s00t612',
    'active' => FALSE
};
Map<String, Object> productIndicesToRevise = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiProductIndex.PRODUCT INDICES => new List<Map<String,Object>>{productIndex1,
productIndex2}
};
   Map<String, Object> reviseReturnData =
ccrz.ccApiProductIndex.revise(productIndicesToRevise);
} catch (Exception e) {
   // Error handling...
```

# ccrz.ccApiProductIndex.search

Executes a SOSL search of product index records and returns a list of records that match your search.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> search(Map<String, Object>)

# Service Layer Classes

### **Data Service Provider**

ccrz.ccServiceProductIndex

# Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

## ccrz.ccApiProductIndex.ACTIVE

Boolean

Value	Usage
true	Return only product index records where the Active field is enabled.
false (default)	Return product index records that match your other filter criteria, regardless of the Active field value.

# ccrz.ccApiProductIndex.CURRENT INDEX

Map<String, Object> that specifies a starting point for the method's query by indicating the last product index record within the previous set of sorted results. You can pass this map to subsequent ccrz.ccApiProductIndex.fetch,

ccrz.ccApiProductIndex.search,orccrz.ccApiProductIndex.fetchEntitled method calls for querying the next set of results. This map specifies the following subkeys:

Key	Usage
primary	The value that the ccrz.ccService.ORDERBY input key used for sorting product index records.
secondary	The ID of the referenced product index record.

### For example:

```
"primary":"sort value, such as index price or product name",
    "secondary":"Product_Index_ID"
}
```

#### ccrz.ccApiProductIndex.LOCALE

String that specifies a locale to filter product index records by.

# ccrz.ccApiProductIndex.STOREFRONT

String that specifies a storefront to filter product index records by.



Note: Your version of B2B Commerce for Visualforce determines how the method filters by storefront:

Version	Behavior
B2B Commerce for Visualforce Summer '19 (managed package version 4.11 and API version 10) or later	Queries the Storefront field directly on a product index record.
B2B Commerce for Visualforce Spring '19 (managed package version 4.10 and API version 9) or earlier	Queries the Storefront field on a product that a product index record references.

## ccrz.ccApiProductIndex.PRICE LISTS

Set<String> of specific price list IDs whose associated product index records you want to search:

```
new Set<String>{'Price_List_ID_1', 'Price_List_ID_2'}
```

### ccrz.ccApiProductIndex.PRODUCT FILTERS

Map<String, Object> that specifies spec names and product IDs that have values defined for the specs. The method returns product index records that match the specified spec names and product IDs.

```
ccrz.ccApiProductIndex.PRODUCT_FILTERS => new Map<String, Object>{
   'color' => 'Product_ID_1','Product_ID_2'
   'width' => 'Product_ID_3','Product_ID_4'
}
```

### ccrz.ccApiProductIndex.TYPE

String that specifies a value for the Index Type field to filter product index records by. By default, the only supported value is the key ccrz.ccApiProductIndex.INDEX TYPE SEARCH, which corresponds to the Index Type value UOVBUkNI, the Base64-encoded value for the string Search.

ccrz.ccApiProductIndex.TYPE => ccrz.ccApiProductIndex.INDEX\_TYPE\_SEARCH



Note: B2B Commerce for Visualforce requires this format for identifying products assigned to multiple categories and ensuring that products appear only once in a search. When a product index record specifies UOVBUkNI for its Index Type, that product index is the record returned in search results.

# ccrz.ccService.ORDERBY

String that specifies a key, which indicates how you want to sort product index records. For example:

ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY\_NAME

Value	Usage	
ccrz.ccApiProductIndex.BY_NAME	Sort by the localized name of the product that the product index record references.	
ccrz.ccApiProductIndex.BY_PRICE	Sort by the Index Price field on the product index record.	
ccrz.cc4piProductIndex.BY_RELEVANCE	Sort by occurrences of the search string in the product's name, short description, and SKU.	
	Note:	
	<ul> <li>Relevance sorting is available only for product index records that match a search string.</li> </ul>	
	<ul> <li>When this key is specified, this method calls into the ccrz.ccLogicPIFetchEntitled.rankSearchResultsAndProcess method for executing the relevance sorting.</li> </ul>	
ccrz.ccApiProductIndex.BY_SEQUENCE	Sort by the Sequence field on the product category record that the product index record references.	
	Note:	
	<ul> <li>Sequence sorting is available only for product index records that match specified category IDs.</li> </ul>	
	<ul> <li>B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Sequence value. The product index record includes a Product Category Sequence field, whose value is copied from the corresponding product category record's Sequence field.</li> </ul>	
ccrz.cc4piProductIndex.BY_START_DATE	Sort by the value of the Start Date field on the product that the product index record references.	
	Note: B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Start Date value. The product index record includes a Product Start Date	

Value	Usage
	field, whose value is copied from the corresponding product record's Start Date field.

#### ccrz.ccService.SEARCHSTRING

String to search for among product index records. The method adds a trailing wildcard to the string.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that
	can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# ccrz.ccApiProductIndex.PRODUCT\_INDICES

List<Map<String, Object>>, where each Map<String, Object> represents a product index record.

# Example: Example

Search product index records for the string espresso. Order the returned product index records by the Indexed Price field.

```
Map<String, Object> searchInputData = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccService.SEARCHSTRING => 'espresso',
    ccrz.ccApiProductIndex.TYPE => ccrz.ccApiProductIndex.INDEX_TYPE_SEARCH,
    ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY_PRICE
};

try {
    Map<String, Object> searchReturnData =
    ccrz.ccApiProductIndex.search(searchInputData);
} catch (Exception e) {
    // Error handling...
}
```

# ccrz.ccApiPromotion

Query promotion records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

### IN THIS SECTION:

### fetch

Executes a SOQL query of promotion records and returns a list of records that match your query. By default, this method filters promotion records by the values of the Enabled, Start Date, and End Date fields.

# ccrz.ccApiPromotion.fetch

Executes a SOQL query of promotion records and returns a list of records that match your query. By default, this method filters promotion records by the values of the Enabled, Start Date, and End Date fields.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetch(Map<String, Object>)

# **Service Layer Classes**

### **Data Service Provider**

ccrz.ccServicePromotion

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



**Note:** Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

## ccrz.ccApiPromotion.FILTERED

Boolean

Value	Usage
true	For each promotion that matches your other search criteria, evaluate any account group filters that exist. Return only promotions that are visible for the current user's account group (see the following table).
false (default)	Return all promotions that match your other query criteria.

When this key is true, return only promotions that are visible for the current user's account group, using the following criteria:

Promotion <i>Excludes</i> Current User's Account Group?	Promotion <i>Excludes</i> Any Other Account Group?	Promotion <i>Includes</i> Current User's Account Group?	Promotion <i>Includes</i> Any Other Account Group?	Promotion is Visible for Current User?
No	No	No	No	Yes
No	Yes	No	No	Yes
No	Yes or No	Yes	Yes or No	Yes

Promotion <i>Excludes</i> Current User's Account Group?	Promotion <i>Excludes</i> Any Other Account Group?		Promotion <i>Includes</i> Any Other Account Group?	
Yes	Yes or No	Yes or No	Yes or No	No
No	Yes or No	No	Yes	No

# Note:

- The ccrz.ccCallContext determines the current user.
- The ccrz.ccLogicPromotionFilter class defines this logic. To modify this default behavior, you can extend this class with subscriber code.

### ccrz.ccApiPromotion.PROMOTIONLOCALE

String that specifies a locale to return localized promotion data for in the ccrz.ccApiPromotion.PROMOTIONLIST return key. The service layer translates the values from ccrz E PromoI18n c records and handles fallback languages, if necessary.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

### ccrz.ccApiPromotion.PROMOTIONLOCATION

Set<String> of specific Page Location values to filter promotion records by:

```
new Set<String>{'Landing Page', 'Product List Page'}
```

### ccrz.ccApiPromotion.PROMOTIONSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

## ccrz.ccApiPromotion.PROMOTIONTYPE

Set<String> of specific Location Type values to filter promotion records by:

```
new Set<String>{'Splash', 'Right Nav'}
```

## **Outputs**

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

# ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiPromotion.PROMOTIONLIST

List<Map<String, Object>>, where each Map<String, Object> represents a promotion record.



#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a product record.

Note: The method returns this key if ccrz.ccApiPromotion.PROMOTIONLIST includes a promotion where Link Type is Product. The ccrz.ccApiProduct.PRODUCTLIST includes details for the targeted product. The method also returns other applicable data related to those products, such as subscription terms, specs, related products, and more. For more information about fetching product data, see ccrz.ccApiProduct.fetch.

# Example: Example

Query for promotions on the DefaultStore storefront where Location Type is Left Nav.

```
Map<String,Object> inputData = new Map<String,Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiPromotion.PROMOTIONSTOREFRONT => 'DefaultStore',
    ccrz.ccApiPromotion.PROMOTIONTYPE => new Set<String>{'Left Nav'}
};
try {
   Map<String,Object> outputData = ccrz.ccApiPromotion.fetch(inputData);
    if (outputData.get(ccrz.ccApiPromotion.PROMOTIONLIST) != null) {
        // The cast to List<Map<String, Object>> is necessary...
        List<Map<String, Object>> promotionList = (List<Map<String, Object>>)
outputData.get(ccrz.ccApiPromotion.PROMOTIONLIST);
        for (Map<String, Object> promotion : promotionList) {
            // The cast, again, is necessary...
            String locationType = (String)promotion.get('locationType');
} catch (Exception e) {
    // Error handling...
```

# ccrz.ccApiPublicCache

Query, write, or update cache records for data that's safe for any storefront user to see, such as page labels or the category tree. To query, write, or update cache records for data that must stay private to your org—such as configuration data—use methods of the ccrz.ccApiPrivateCache class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Cache Implementation

Methods of the ccrz.ccApiPublicCache class use the following information from public cache records:

#### **Cache Name**

Specifies the type of data that the record caches, such as ccPageLabels or ccCategoryTree. A Cache Name is required for all method calls. Because multiple public cache records can cache the same type of data, multiple public cache records can have the same Cache Name value.

#### **Build Group**

Groups multiple public cache records together as part of the same build operation. For example, sometimes building the page label cache from a batch job requires multiple batches to fully rebuild the page label cache. Such a batch job creates multiple public cache records with the same Cache Name and Build Group. By associating multiple public cache records to a single build operation, you can more easily manage all the records related to that build.

#### Storefront

Specifies a storefront that the cached data applies to. Sometimes, cached data can belong to all storefronts.

# Page

Specifies a page that the cached data applies to. Sometimes, cached data can belong to all pages.

#### Locale

Specifies a locale that the cached data applies to. Cached data can apply to:

- A specific language and region, such as en US
- Any locale with the same language component, such as en, where both en US and en GB locales apply
- Any locale

To write new public cache records, chain the ccrz.ccApiPublicCache.startWrite, ccrz.ccApiPublicCache.appendTo, and ccrz.ccApiPublicCache.close methods.



**Note**: The following example is simplified to demonstrate the general flow of operations. An actual implementation is more complex and evaluates all storefronts, pages, and locales.

```
Map<String,Object> cacheContext = ccrz.ccApiPublicCache.startWrite(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiPublicCache.CACHE_NAME => 'ccPageLabels',
    ccrz.ccApiPublicCache.LOCALE => 'en_US',
    ccrz.ccApiPublicCache.STORE_NAME => 'Global',
    ccrz.ccApiPublicCache.PAGENAME => 'All'
});

ccrz.ccApiPublicCache.appendTo(new Map<String,Object>{
    ccrz.ccApiPublicCache.appendTo(new Map<String,Object>)
    ccrz.ccApiPublicCache.appendTo(new Map<String,Object>)
    ccrz.ccApiPublicCache.appendTo(new Map<String,Object>)
    ccrz.ccApiPublicCache.CONTEXT => cacheContext,
```

```
ccrz.ccApiPublicCache.CONTENT => 'Some content is constructed elsewhere but is just a
string here'
});

ccrz.ccApiPublicCache.close(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiPublicCache.CONTEXT => cacheContext
});
```



Warning: When writing or fetching cached data, limit the size of cached data to less than 2 MB.

# Methods

### IN THIS SECTION:

#### fetch

Executes a SOQL query of cached data by storefront, page, or locale, and returns the matching cache content as a String.

#### startWrite

Creates and inserts a new cache record, which is initially disabled. This method doesn't create any actual content for the cache, but returns a *cache context*, which is required for subsequent ccrz.ccApiPublicCache.appendTo andcrz.ccApiPublicCache.close method calls.

### appendTo

Adds content to a public cache record created with the ccrz.ccApiPublicCache.startWrite method. Call this method as often as necessary to populate the cache. This method returns a *cache context*, which you pass to subsequent ccrz.ccApiPublicCache.appendTo andccrz.ccApiPublicCache.close method calls.

#### close

Stops writing any more content to the public cache record created with the ccrz.ccApiPublicCache.startWrite and ccrz.ccApiPublicCache.appendTo methods. If you passed ccrz.ccApiPublicCache.ENABLE\_ON\_CLOSE => true in the input key for ccrz.ccApiPublicCache.startWrite, the cache is enabled after ccrz.ccApiPublicCache.close completes.

### disableOld

Disables cache records that have the same cache name, storefront, page, and locale as another cache record with a more recent Effective Start date and time. This method changes the value of the Enabled field on the affected public cache records. Make sure that you specify a cache name, storefront, page name, and locale in the method's input map.

### toggleGroup

Changes the value of the Enabled field for all public cache records that belong to the same build group.

SEE ALSO:

ccrz.ccApiPrivateCache

# ccrz.ccApiPublicCache.fetch

Executes a SOQL query of cached data by storefront, page, or locale, and returns the matching cache content as a String.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetch(Map<String, Object>)

# **Service Layer Classes**

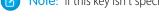
This method doesn't support service layer extensions or overrides.

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if



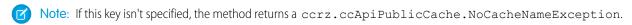
Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiPublicCache.CACHE NAME

String that specifies a Cache Name for the public cache records to guery, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabel for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

ccrz.ccApiPublicCache.CACHE NAME => 'ccPageLabel'



# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiPublicCache.LOCALE

String that specifies a locale to filter the gueried cached data by.



Note: If cached data isn't available for the specified locale, the method falls back to query other locales with the same language component. For example, maybe you specify en US but cached data isn't available for that locale. The method then queries for cached data from any locale that starts with en, such as en GB or en AU.

### ccrz.ccApiPublicCache.PAGENAME

String that specifies the name of a page whose cached data you want to guery. Use the page keys defined in CC Admin global settings, such as hp for Home page and plp for Product List page.

```
ccrz.ccApiPublicCache.PAGENAME => 'hp'
```

To guery cached data from all pages, specify A11. If you don't include this key in your input map, the method uses A11 by default.

```
ccrz.ccApiPublicCache.PAGENAME => 'All'
```

### ccrz.ccApiPublicCache.STORE NAME

String that specifies a storefront whose cached data you want to query.

```
ccrz.ccApiPublicCache.STORE NAME => 'DefaultStore'
```

To guery cached data from all storefronts, specify Global. If you don't include this key in your input map, the method uses Global by default.

```
ccrz.ccApiPublicCache.STORE NAME => 'Global'
```

### **Fallback Behavior**

Depending on which values you include in the input map, this method incrementally falls back to a less specific query, in the following order of priority.



Note: The Sequence Priority field on a public cache record specifies the relative priority of that record in guery results.

Priority	ccrz.cc4piPublicCache.SICRE_NAME Value	ccrz.ccApiPublicCache.PAGENAME Value	ccrz.ccApiPublicCache.LOCALE  Value
1	The exact value specified	The exact value specified	The exact value specified
2	The exact value specified	The exact value specified	Any locale with the same language component
3	The exact value specified	The exact value specified	None
4	The exact value specified	All	The exact value specified
5	The exact value specified	All	Any locale with the same language component
6	The exact value specified	All	None
7	Global	The exact value specified	The exact value specified
8	Global	The exact value specified	Any locale with the same language component

Priority	ccrz.cc4piPublicCache.SICRE_NAME Value	ccrz.ccApiPublicCache.PAGENAME Value	ccrz.ccApiPublicCache.LOCALE  Value
9	Global	The exact value specified	None
10	Global	All	The exact value specified
11	Global	All	Any locale with the same language component
12	Global	All	None

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiPublicCache.CONTENT

String of the cached data that matches the query.

# ccrz.cc Api Public Cache. start Write

Creates and inserts a new cache record, which is initially disabled. This method doesn't create any actual content for the cache, but returns a *cache context*, which is required for subsequent ccrz.ccApiPublicCache.appendTo andcrz.ccApiPublicCache.close method calls.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# **Signature**

global static Map<String, Object> startWrite(Map<String, Object>)

# Service Layer Classes

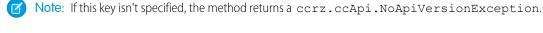
This method doesn't support service layer extensions or overrides.

# Inputs (Required)

Map<String, Object> that must include the following required keys:

# ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



ccrz.ccApiPublicCache.CACHE\_NAME

String that specifies the name of cached data to insert a new cache record for, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabel for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

ccrz.ccApiPublicCache.CACHE NAME => 'ccPageLabel'

Note: If this key isn't specified, the method returns a ccrz.ccApiPublicCache.NoCacheNameException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiPublicCache.BUILD\_GROUP

String that specifies the build group for the cache, which groups all cache records built at approximately the same time for simpler maintenance.

### ${\tt ccrz.ccApiPublicCache.BUILD\_TIMESTAMP}$

Datetime for the build group, which identifies when the cache record was built. For all cache records that belong to the same build group, use the same timestamp.

### ccrz.ccApiPublicCache.EFFECTIVE END

Datetime when the cache is no longer valid. If you don't include this key in your input map, the method assigns a datetime 50 years from the current date and time.

### ccrz.ccApiPublicCache.EFFECTIVE START

Datetime when the cache record becomes valid. If you don't include this key in your input map, the method uses the constant *NOW*, which specifies the current date and time.

### ccrz.ccApiPublicCache.ENABLE ON CLOSE

Boolean

Value	Usage
true	Enable the cache record after the ccrz.ccApiPublicCache.close method is complete.
false (default)	The cache record remains disabled after it's created.

### ccrz.ccApiPublicCache.LOCALE

String that specifies a locale to insert a new public cache record for. If you don't include this key in your input map, the new cache record applies to all locales.

### ccrz.ccApiPublicCache.PAGENAME

String that specifies the name of a page to insert a new public cache record for. If you don't include this key in your input map, the new cache record applies to all pages.

### ccrz.ccApiPublicCache.STORE NAME

String that specifies a storefront to insert a new public cache record for. If you don't include this key in your input map, the new cache record applies to all storefronts.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that
	can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPublicCache.CONTEXT

ccrz.ccApiPublicCache.CacheContext object that you pass to ccrz.ccApiPublicCache.appendTo and ccrz.ccApiPublicCache.close method calls for this cache record.

# ccrz.cc Api Public Cache. append To

Adds content to a public cache record created with the ccrz.ccApiPublicCache.startWrite method. Call this method as often as necessary to populate the cache. This method returns a *cache context*, which you pass to subsequent ccrz.ccApiPublicCache.appendTo andccrz.ccApiPublicCache.close method calls.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> appendTo(Map<String, Object>)

# **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPublicCache.CACHE NAME

String that specifies the name of cached data to add, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabel for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

ccrz.ccApiPublicCache.CACHE\_NAME => 'ccPageLabel'



Note: If this key isn't specified, the method returns a ccrz.ccApiPublicCache.NoCacheNameException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiPublicCache.CONTEXT

ccrz.ccApiPublicCache.CacheContext object returned from ccrz.ccApiPublicCache.startWrite or previous ccrz.ccApiPublicCache.appendTo method calls.

### ccrz.ccApiPublicCache.CONTENT

String that specifies the content to add to the cache record.

# Outputs

Map<String, Object> that can include the following keys:

# ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiPublicCache.CONTEXT

ccrz.ccApiPublicCache.CacheContext object that you pass to ccrz.ccApiPublicCache.appendTo and ccrz.ccApiPublicCache.close method calls for this cache record.

# ccrz.ccApiPublicCache.close

Stops writing any more content to the public cache record created with the ccrz.ccApiPublicCache.startWrite and ccrz.ccApiPublicCache.appendTo methods.lfyoupassed ccrz.ccApiPublicCache.ENABLE\_ON\_CLOSE => true in the input key for ccrz.ccApiPublicCache.startWrite, the cache is enabled after ccrz.ccApiPublicCache.close completes.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> close(Map<String, Object>)

# **Service Layer Classes**

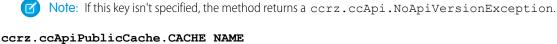
This method doesn't support service layer extensions or overrides.

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



String that specifies the name of cached data to close, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabe1 for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

ccrz.ccApiPublicCache.CACHE NAME => 'ccPageLabel'

Note: If this key isn't specified, the method returns a ccrz.ccApiPublicCache.NoCacheNameException.

# Inputs (Optional)

The input map can also include the following keys:

## ccrz.ccApiPublicCache.CONTEXT

ccrz.ccApiPublicCache.CacheContext objectreturned from ccrz.ccApiPublicCache.appendTo method calls.

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

# ccrz.ccApiPublicCache.disableOld

Disables cache records that have the same cache name, storefront, page, and locale as another cache record with a more recent Effective Start date and time. This method changes the value of the Enabled field on the affected public cache records. Make sure that you specify a cache name, storefront, page name, and locale in the method's input map.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> disableOld(Map<String, Object>)

# **Service Layer Classes**

This method doesn't support service layer extensions or overrides.

# Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPublicCache.CACHE NAME

String that specifies the name of cached data to disable, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabel for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

ccrz.ccApiPublicCache.CACHE\_NAME => 'ccPageLabel'



Note: If this key isn't specified, the method returns a ccrz.ccApiPublicCache.NoCacheNameException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiPublicCache.LOCALE

String that specifies a locale to disable old cache entries for. If locale doesn't apply to the cache entries you want to disable, pass an empty string:

ccrz.ccApiPublicCache.LOCALE => ''

### ccrz.ccApiPublicCache.PAGENAME

String that specifies a page to disable old cache entries for.

### ccrz.ccApiPublicCache.STORE NAME

String that specifies a storefront to disable old cache entries for.

### Outputs

None

# ccrz.ccApiPublicCache.toggleGroup

Changes the value of the Enabled field for all public cache records that belong to the same build group.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> toggleGroup(Map<String, Object>)

## **Service Layer Classes**

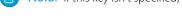
This method doesn't support service layer extensions or overrides.

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



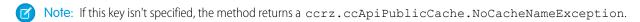
Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## ccrz.ccApiPublicCache.CACHE NAME

String that specifies a Cache Name value for the public cache records you want to update, such as:

- ccCategoryTree for cached page label data that ccrz.ccCategoryCacheBuildJob builds.
- ccPageLabe1 for cached page label data that ccrz.ccPageLabelCacheBuildJob builds.

ccrz.ccApiPublicCache.CACHE NAME => 'ccPageLabel'



## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiPublicCache.BUILD GROUP

String that specifies a Build Group value for the public cache records you want to update. This method updates all public cache records with the same ccrz.ccApiPublicCache.CACHE NAME and ccrz.ccApiPublicCache.BUILD GROUP values.

#### ccrz.ccApiPublicCache.SET ENABLED

Boolean

Value	Usage
true	Enable the Enabled field on each affected public cache record.
false	Disable the Enabled field on each affected public cache record.



Note: If you don't include this key, by default this method changes the current value of the Enabled field to the opposite value. For example, if Enabled is true, this method changes Enabled to false.

## Outputs

None

# ccrz.ccApiRelatedProduct

Query related product records, which define relationships between products, such as accessories or competitive or alternative SKUs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

fetch

Executes a SOQL query of related product records and returns a list of records that match your query.

SEE ALSO:

Create Relationships Between Products

# ccrz.ccApiRelatedProduct.fetch

Executes a SOQL query of related product records and returns a list of records that match your query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceRelatedProduct

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiRelatedProduct.PARAM BY ASC

Boolean

Value	Usage
true	Sort returned related product records by Sequence value in ascending order. For example, sort from 100 to 900.
false (default)	Sort returned products by Sequence in descending order. For example, sort from 900 to 100.

#### ccrz.ccApiRelatedProduct.PARAM BY NULLS LAST

Boolean

Value	Usage
true	Place all related product records with a null Sequence value at the end of the returned related product data.
false (default)	Place all related product records with a null Sequence value at the beginning of the returned related product data.

#### ccrz.ccApiRelatedProduct.PRODUCTID

String that specifies a product ID whose related products you want to query.

#### ccrz.ccApiRelatedProduct.PRODUCTIDLIST

Set<String> of specific product IDs whose related products you want to query.

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

#### ccrz.ccApiRelatedProduct.RELATED TYPE

Set<String> of specific Related Product Type field values you want to filter by.

```
new Set<String>{'Accessories', 'UpSell'}
```

#### ccrz.ccApiRelatedProduct.RELATEDPRODUCTID

String that specifies a related product record's ID.

## ccrz.ccApiRelatedProduct.RELATEDPRODUCTIDLIST

Set<String> of specific related product record IDs to query.

```
new Set<String>{'Related_Product_ID_1', 'Related_Product_ID_2'}
```



**Note:** This method evaluates the ID keys in the following order of precedence:

- 1. ccrz.ccApiRelatedProduct.RELATEDPRODUCTID
- 2. ccrz.ccApiRelatedProduct.RELATEDPRODUCTIDLIST
- 3. ccrz.ccApiRelatedProduct.PRODUCTID
- 4. ccrz.ccApiRelatedProduct.PRODUCTIDLIST

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiRelatedProduct.RELATEDPRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a related product record.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a product record referenced from one of the related product records included in ccrz.ccApiRelatedProduct.RELATEDPRODUCTLIST.

# ccrz.ccApiRichContent

Query rich content records used for custom storefront content.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

IN THIS SECTION:

fetch

Executes a SOQL query of rich content records, and returns a list of rich content records that match your query.

SEE ALSO:

Salesforce Help: B2B Commerce Content Authoring

# ccrz.ccApiRichContent.fetch

Executes a SOQL query of rich content records, and returns a list of rich content records that match your query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceRichContent

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiRichContent.IDS

Set<String> of specific rich content IDs to query:

```
new Set<String>{'Rich_Content_ID_1', 'Rich_Content_ID_2'}
```

#### ccrz.ccApiRichContent.KEYS

Set<String> of specific Content Key field values to filter rich content records by.

```
new Set<String>{'Content_Key_1', 'Content_Key_2'}
```

#### ccrz.ccApiRichContent.LOCALE

String that specifies a locale to return localized rich content for in the ccrz.ccApiRichContent.RICH\_CONTENT\_LIST return key. The service layer translates the values from ccrz\_E\_RichContentI18N\_\_c records and handles fallback languages, if necessary.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

### ccrz.ccApiRichContent.STATUS

String that specifies a Status field value to filter rich content records by.

#### ccrz.ccApiRichContent.STOREFRONT

String that specifies the name of a storefront.



## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiRichContent.RICH\_CONTENT\_LIST

List<Map<String, Object>>, where each Map<String, Object> represents a rich content record.

# Example: Example

Query rich content records by passing in a specific Content Key value.

```
Set<String> contentKeys = new Set<String>{'Content_Key'};
```

```
Map<String, Object> inputData = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiRichContent.KEYS => contentKeys,
    ccrz.ccApi.SIZING => new Map<String, Object>{
        ccrz.ccApiRichContent.ENTITYNAME => new Map<String, Object>{
            ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
};
Map<String, Object> outputData = ccrz.ccApiRichContent.fetch(inputData);
Boolean success = (Boolean)outputData.get(ccrz.ccApi.SUCCESS);
if(success) {
   List<Map<String, Object>> richContents = (List<Map<String,</pre>
Object>>) outputData.get(ccrz.ccApiRichContent.RICH CONTENT LIST);
    System.debug('richContents=' + JSON.serializePretty(richContents));
} else {
   List<ccrz.cc_bean_Message> messages =
(List<ccrz.cc bean Message>)outputData.get(ccrz.ccApi.MESSAGES);
   System.debug('messages=' + messages);
```

# ccrz.ccApiSeller

Query seller records by IDs or by geographic location.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

IN THIS SECTION:

fetch

Executes a SOQL query of seller records, and returns a list of sellers that match your query.

#### search

Executes a SOSL query of seller records, and returns the IDs of sellers that match the search query.

#### SEE ALSO:

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccApiSeller.fetch

Executes a SOQL guery of seller records, and returns a list of sellers that match your guery.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## **Signature**

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceSeller

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

#### ccrz.ccApiSeller.PARAM BY ASC

Boolean

Value	Usage
true	Sort returned sellers by name in alphabetical order.
false	Sort returned sellers by name in reverse alphabetical order.

#### ccrz.ccApiSeller.PARAM BY DIST

Boolean

Value	Usage
true	Sort returned sellers by distance, from nearest to farthest.
false	Sort returned sellers by name.

#### ccrz.ccApiSeller.PARAM ORIGIN LAT

Decimal that specifies a seller location's latitude value to query by.

#### ccrz.ccApiSeller.PARAM ORIGIN LNG

Decimal that specifies a seller location's longitude value to query by.

#### ccrz.ccApiSeller.PARAM SEARCH DIST

Decimal that specifies a radius around the ccrz.ccApiSeller.PARAM\_ORIGIN\_LAT and ccrz.ccApiSeller.PARAM\_ORIGIN\_LNG location values.

#### ccrz.ccApiSeller.PARAM SEARCH UNIT

String that specifies the units of the ccrz.ccApiSeller.PARAM SEARCH DIST location radius, such as mi or km.

#### ccrz.ccApiSeller.SELLERID

String that specifies a seller ID to query.

#### ccrz.ccApiSeller.SELLERIDLIST

Set<String> of specific seller IDs to query.

```
new Set<String>{'Seller_ID_1', 'Seller_ID_2'}
```

#### ccrz.ccApiSeller.SELLERLOCALE

String that specifies a locale that you want to return localized seller values for in the ccrz.ccApiSeller.SELLERLIST return key. The service layer translates the values from ccrz\_\_E\_SellerI18N\_\_c records and handles fallback languages, if necessary.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the guery.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiSeller.SELLERLIST

List<Map<String, Object>>, where each Map<String, Object> represents a seller record.

# Example: Example

Pass in a pair of seller IDs and capture the seller names in a string variable.

```
Set<String> sellerIdList = new Set<String>{'Seller_ID_1', 'Seller ID 2'};
Map<String, Object> inputData = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccApiSeller.SELLERIDLIST => sellerIdList,
   ccrz.ccApiSeller.SELLERLOCALE => 'fr CA',
   ccrz.ccApi.SIZING => new Map<String, Object>{
        ccrz.ccApiSeller.ENTITYNAME => new Map<String, Object>{
            ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ S
    }
};
try {
   Map<String, Object> outputData = ccrz.ccApiSeller.fetch(inputData);
    if (outputData.get(ccrz.ccApiSeller.SELLERLIST) != null) {
        // The cast to List<Map<String, Object>> is necessary...
        List<Map<String, Object>> outputSellerList = (List<Map<String, Object>>)
outputData.get(ccrz.ccApiSeller.SELLERLIST);
         // The cast, again, is necessary...
        String sellerName = (String) outputSellerList[0].get('sfdcName');
} catch (Exception e) {
```

```
// Error handling...
```

SEE ALSO:

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccApiSeller.search

Executes a SOSL query of seller records, and returns the IDs of sellers that match the search query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> search(Map<String, Object>)
```

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiSeller.PARAM SEARCH DIST

Decimal that specifies a radius around the ccrz.ccApiSeller.PARAM\_SEARCH\_LAT and ccrz.ccApiSeller.PARAM\_SEARCH\_LNG location values.

#### ccrz.ccApiSeller.PARAM SEARCH LAT

Decimal that specifies a seller location's latitude value to search by.

#### ccrz.ccApiSeller.PARAM SEARCH LNG

Decimal that specifies a seller location's longitude value to search by.

#### ccrz.ccApiSeller.PARAM SEARCH UNIT

String that specifies the units of the ccrz.ccApiSeller.PARAM SEARCH DIST location radius, such as mi or km.

#### ccrz.ccApiSeller.SELLERLOCALE

String that specifies a locale that you want to return localized seller values for in the ccrz.ccApiSeller.SELLERLIST return key. The service layer translates the values from ccrz\_E\_SellerI18N\_c records and handles fallback languages, if necessary.



**Note**: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

#### ccrz.ccService.SEARCHSTRING

String to search for from all text fields on ccrz\_E\_Seller\_c and ccrz\_E\_SellerI18N\_c records, including name and description fields. You can refine the search in the following ways:

- To find all sellers within a specific location—instead of searching sellers for a specific string—pass all for ccrz.ccService.SEARCHSTRING. Include the latitude, longitude, distance, and unit location keys.
- To search all sellers for a certain string—regardless of location—pass a specific value for ccrz.ccService.SEARCHSTRING and don't include any location keys.
- To search all sellers within a specific location for a certain string, pass a specific value for ccrz.ccService.SEARCHSTRING
  and include the location keys.

#### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccService.SEARCHRESULTS

Set<String> of seller IDs that match for your search criteria.



## Example: Example

Find all sellers within a half-mile radius of a specific location.

```
Map<String, Object> inputData = new Map<String, Object>{
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
   ccrz.ccService.SEARCHSTRING => 'all',
   ccrz.ccApiSeller.SELLERLOCALE => 'fr CA',
   ccrz.ccApiSeller.PARAM SEARCH LAT => 41.8835932,
   ccrz.ccApiSeller.PARAM SEARCH LNG => -87.6385858,
   ccrz.ccApiSeller.PARAM SEARCH DIST => 0.5,
   ccrz.ccApiSeller.PARAM SEARCH UNIT => 'mi'
};
try {
   Map<String, Object> outputData = ccrz.ccApiSeller.search(inputData);
    Set<String> searchResults = (Set<String>)
outputData.get(ccrz.ccService.SEARCHRESULTS);
} catch (Exception e) {
   System.debug('MMM--exception: ' + e);
```

SEE ALSO:

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccApiSpec

Query specification definitions and product spec index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

#### IN THIS SECTION:

#### fetch

Executes a SOQL query of spec records, and returns a list of spec definitions that match your query.

ccrz.ccApiSpec.fetchProductSpecIndices

Executes a SOQL query of product spec index records, which define a single instance of a spec value for a product.

#### SEE ALSO:

Salesforce Help Serve Friendly URLs for Storefront Pages

# ccrz.ccApiSpec.fetch

Executes a SOQL query of spec records, and returns a list of spec definitions that match your query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> fetch(Map<String, Object>)

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceSpec

## Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

#### ccrz.ccApiSpec.ISCOMPARABLE

Boolean

Value	Usage
true	Return only specs where the ccrzIsComparablec field is true.
false (default)	Ignore the value of the ccrzIsComparablec field when querying spec records.

#### ccrz.ccApiSpec.PARAM BY ASC

Boolean

Value	Usage
true	Sort returned specs by ID in ascending order. For example, sort from 100 to 900. If you pass ccrz.ccApiSpec.PARAM_BY_SEQ => true, specs sort by Sequence value in ascending order.
false (default)	Sort returned specs by ID in descending order.

#### ccrz.ccApiSpec.PARAM\_BY\_NULLS\_LAST

Boolean

Value	Usage
true	Place all specs with a null Sequence value at the end of the returned spec data.
false (default)	Place all specs with a null Sequence value at the beginning of the returned spec data.

#### ccrz.ccApiSpec.PARAM BY SEQ

Boolean

Value	Usage
true	Sort returned specs by Sequence value in descending order. For example, sort from 900 to 100.

Value	Usage
false (default)	Sort returned specs by ID in descending order.

#### ccrz.ccApiSpec.SPECCATALOGVISIBLE

Boolean

Value	Usage
true	Return only specs where the ccrzIsVisibleInCatalogc field is true.
false (default)	Ignore the value of the ccrzIsVisibleInCatalogc field when querying spec records.

#### ccrz.ccApiSpec.SPECFILTER

Boolean

Value	Usage	
true	Return only specs where the ccrzUseForFilterc field is true.	
false (default)	Ignore the value of the ccrzUseForFilterc field when querying spec records.	

#### ccrz.ccApiSpec.SPECID

String that specifies the ID of a spec to query.

#### ccrz.ccApiSpec.SPECIDLIST

Set<String> of spec IDs whose data you want to return:

```
new Set<String>{'Spec_ID_1', 'Spec_ID_2'}
```

#### ccrz.ccApiSpec.SPECLOCALE

String that specifies a locale that you want to return localized spec records for in the ccrz.ccApiSpec.SPECLIST return key. The service layer translates the values from spec records created for that locale and handles fallback languages, if necessary.



**Note**: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage	
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiSpec.SPECLIST

List<Map<String, Object>>, where each Map<String, Object> represents a spec record.



Tip: To specify which fields the API returns for each cart record, request a specific data size for the ccrz.ccApiSpec.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSpec.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz E Spec c reference.

## Example: Examples

Fetch data for a pair of spec IDs, and parse the returned list for the first spec's name.

```
Map<String, Object> specFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiSpec.SPECIDLIST => {'Spec_ID_1', 'Spec_ID_2'}
};

try {
    Map<String, Object> specReturnData = ccrz.ccApiSpec.fetch(specFetchQuery);
    if (specReturnData.get(ccrz.ccApiSpec.SPECLIST) != null) {
        List<Map<String, Object>> specList = (List<Map<String, Object>>)
    specReturnData.get(ccrz.ccApiSpec.SPECLIST);
        String specName = (String) specList[0].get('sfdcName');
    }
} catch (Exception e) {
    // Error handling...
}
```

Fetch all spec records and sort the return data so that records with null Sequence values are last.

```
Map<String, Object> specFetchQuery = new Map<String, Object> {
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiSpec.PARAM_BY_SEQ => true,
    ccrz.ccApiSpec.PARAM_BY_ASC => false,
    ccrz.ccApiSpec.PARAM_BY_NULLS_LAST => true
};

try {
    Map<String, Object> specReturnData = ccrz.ccApiSpec.fetch(specFetchQuery);
    if (specReturnData.get(ccrz.ccApiSpec.SPECLIST) != null) {
```

SEE ALSO:

ccrz\_\_E\_Spec\_\_c

# ccrz.ccApiSpec.fetchProductSpecIndices

Executes a SOQL query of product spec index records, which define a single instance of a spec value for a product.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> fetchProductSpecIndices(Map<String, Object>)
```

## **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceProductSpecIndex

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns. To specify which fields are available in the return data for each product spec index record, add ccrz.ccApiSpec.PSI ENTITYNAME as a key in this map:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSpec.PSI ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ M
    }
}
```

#### ccrz.ccApiSpec.PRODUCT IDS

Set<String> of product IDs whose product spec index records you want to return:

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

#### ccrz.ccApiSpec.PRODUCT SPEC INDICES

List<Map<String, Object>>, where each Map<String, Object> specifies a spec ID and a particular spec value whose corresponding product spec index records you want to return, such as:

```
]
    "specValues" : [ {
      "value" : "Blue"
   } ],
   "sfid": "a1h6A00000045s5QAA"
} ]
```

Note: If you specify multiple values for the same spec, the method applies an OR condition for evaluating all values.

For a spec where Filter Type is Slider, you can specify a filterMin and filterMax range for filtering:

```
[ {
    "sfid": "alh6A00000045s5QAA",
    "filterMin" : "1.0",
    "filterMax" : "10.0"
} ]
```

#### ccrz.ccApiSpec.SPECIDLIST

Set<String> of product spec index IDs whose data you want to return:

```
new Set<String>{'Product Spec Index ID 1', 'Product Spec Index ID 2'}
```

#### ccrz.ccApiSpec.SPECLOCALE

String that specifies a locale. The method returns only the product spec index records where the referenced spec has the specified locale.

## ccrz.ccApiSpec.USE\_FOR\_FILTER

Boolean

Value	Usage	
true	Return only product spec index records where the related spec's ccrzUseForFilterc field is true.	
false (default)	Ignore the value of a related spec's ccrzUseForFilterc field when querying product spec index records.	

# Outputs

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

## ccrz.ccApiSpec.PRODUCT\_SPEC\_INDICES

Data from the product spec index records that match the fetch query. This return data can take the following types, depending on values specified in the input map:

Туре	Input Map Criteria
Map <string, map<string,="" object="">&gt;</string,>	Default return format
<pre>List<map<string, object="">&gt;</map<string,></pre>	<pre>ccrz.ccApi.SIZING =&gt; new Map<string, object=""> {     ccrz.ccApiSpec.PSI_ENTITYNAME =&gt; new Map<string, object=""> {         ccrz.ccApi.SZ_DATA =&gt;         ccrz.ccApi.SZ_GROUPBY     } }</string,></string,></pre>
List <ccrz_e_productspecindex_c></ccrz_e_productspecindex_c>	<pre>ccrz.ccApi.SIZING =&gt; new Map<string, object=""> {</string,></pre>

Туре	Input Map Criteria	
	<pre>ccrz.ccApiSpec.PSI_ENTITYNAME =&gt; new Map<string, object=""> {</string,></pre>	
List <aggregateresult></aggregateresult>	<pre>ccrz.ccApi.SIZING =&gt; new Map<string, object=""> {     ccrz.ccApiSpec.PSI_ENTITYNAME =&gt; new Map<string, object=""> {         ccrz.ccApi.SZ_DATA =&gt;         ccrz.ccApi.SZ_GROUPBY,</string,></string,></pre>	

Tip: To specify which fields the API returns for each product spec index record, request a specific data size for the ccrz.ccApiSpec.PSI ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSpec.PSI_ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_M
    }
}
```

For information about which fields are available with different data sizes, see the ccrz\_E\_ProductSpecIndex\_c reference.

```
SEE ALSO:

ccrz__E_Spec__c

ccrz__E_ProductSpec__c

ccrz__E_ProductSpecIndex__c
```

# ccrz.ccApiSiteIndex

Query, create, update, or remove site index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

### IN THIS SECTION:

#### create

Creates site index records for a storefront, based on categories and locales that you specify.

#### fetch

Executes a SOQL query of site index records, and returns a list of records that match you query.

#### mapUrl

Returns the category or product default URL that corresponds to a specified friendly URL.

#### remove

Delete site index records. B2B Commerce for Visualforce uses this method in site index batch jobs.

#### revise

Updates the status of the Active field on existing site index records. B2B Commerce for Visualforce uses this method in site index batch jobs.

## SEE ALSO:

```
ccrz_E_ProductIndex__c
ccrz_E_SiteIndex__c
```

# ccrz.ccApiSiteIndex.create

Creates site index records for a storefront, based on categories and locales that you specify.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> create(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

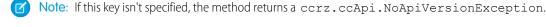
ccrz.ccLogicSICreate

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



ccrz.ccApiSiteIndex.CATEGORY\_IDS
Set<String> of category IDs to create site index records for.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales to create site index records for. Typically, you want to create site index records for all the locales that your storefront supports.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiSiteIndex.ROOT CATEGORY ID

String that specifies the ID of the storefront's root category.

Note: If this key isn't specified, the method doesn't return an exception. But, this key ensures that the created site index records specify the correct storefront and reflect the storefront's category tree.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront to create site index records for.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API\_SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiSiteIndex.fetch for returning the created site index records.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiSiteIndex.IDS



### Example: Example

Create site index records for a pair of category IDs and two locales.

```
Map<String, Object> siteIndexesToCreate = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiSiteIndex.CATEGORY_IDS => new Set<String>{'Category_ID_1',
    'Category_ID_2'},
    ccrz.ccApiSiteIndex.STOREFRONT => 'storefrontName',
    ccrz.ccApiSiteIndex.LOCALES => new Set<String>{'en_US', 'ja'},
    ccrz.ccApiSiteIndex.ROOT_CATEGORY_ID => 'Root_Category_ID'
};

try {
    Map<String, Object> createdSiteIndexes =
    ccrz.ccApiSiteIndex.create(siteIndexesToCreate);
} catch (Exception e) {
```

```
// Error handling...
```

SEE ALSO:

ccrz E SiteIndex c

ccrz.ccSiteIndexBuilder

Translate Storefront Text for Buyers in Different Locales

# ccrz.ccApiSiteIndex.fetch

Executes a SOQL query of site index records, and returns a list of records that match you query.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> fetch(Map<String, Object>)
```

## Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceSiteIndex

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

#### ccrz.ccApiSiteIndex.ACTIVE

Boolean

Value	Usage	
true	Return only site index records where the Active field is enabled.	
false	Ignore the value of the Active field when querying site index records.	

#### ccrz.ccApiSiteIndex.CATEGORY IDS

Set<String> of category IDs whose corresponding site index records you want to guery.

#### ccrz.ccApiSiteIndex.IDS

Set<String> of site index IDs to query.

#### ccrz.ccApiSiteIndex.LOCALE

String that specifies a locale to guery site index records for.

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales to guery site index records for.

## ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.ccApiSiteIndex.URL HASH

String that specifies a category's hashed friendly URL value to query site index records for. This string matches the value in a site index record's Friendly URL Hash field.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

## ccrz.ccApi.SUCCESS

Boolean

Va	lue	Usage
tr	ue	The call completed.

Value	Usage	
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, Object> of ccrz E SiteIndex crecords that match the query.



🊺 Tip: To specify which fields the API returns for each site index record, request a specific data size for the ccrz.ccApiSiteIndex.ENTITYNAME key in your input data:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiSiteIndex.ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ DATA => ccrz.ccApi.SZ M
   }
}
```

For information about which fields are available with different data sizes, see the ccrz E SiteIndex c reference.

## Example: Example

Query all site index records for a specific storefront and locale.

```
Map<String, Object> siteIndexFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiSiteIndex.STOREFRONT => 'DefaultStore',
    ccrz.ccApiSiteIndex.LOCALE => 'en US'
};
    Map<String, Object> siteIndexFetchData =
ccrz.ccApiSiteIndex.fetch(siteIndexFetchQuery);
    if (siteIndexFetchData.get(ccrz.ccApiSiteIndex.SITE INDICES) != null) {
        Map<String, Object> siteIndexResults = (Map<String,</pre>
Object>) siteIndexFetchData.get(ccrz.ccApiSiteIndex.SITE INDICES);
} catch (Exception e) {
   // Error handling...
```

```
SEE ALSO:
   ccrz__E_ProductIndex__c
   ccrz__E_SiteIndex__c
```

# ccrz.ccApiSiteIndex.mapUrl

Returns the category or product default URL that corresponds to a specified friendly URL.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> mapUrl(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicSIMapUrl

## Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiSiteIndex.FULL URL

String that specifies the friendly URL for a product or category whose default URL you want to return. This value can be a URL that the ccrz.ccApiProduct.getUrlFor or ccrz.ccApiCategory.getUrlFor method returns.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

#### ccrz.ccApiSiteIndex.URL LOCALE

String that specifies one of your storefront's supported locales.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiSiteIndex.MAPPED URL

String that specifies the category or product default URL that corresponds to the specified friendly URL.

# Example: Example

For a product's friendly URL, such as /Coffee/Medium/MediumRoast, return the default URL, such as /ProductDetails?sku=MRC-1.

```
inputFriendlyUrl = '/Coffee/Medium/MediumRoast';
outputDefaultUrl = '';
try {
   Map<String, Object> mapUrlReturnData = ccrz.ccApiSiteIndex.mapUrl(new Map<String,
Object> {
        ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
        ccrz.ccApiSiteIndex.FULL URL => inputFriendlyUrl
    });
    if (ccrz.ccUtil.isKeyValued(mapUrlReturnData, ccrz.ccApiSiteIndex.MAPPED URL)) {
       outputDefaultUrl = (String)mapUrlReturnData.get(ccrz.ccApiSiteIndex.MAPPED URL);
} catch (Exception e) {
```

```
// handle exceptions
}
```

SEE ALSO:

ccrz.ccApiCategory.getUrlFor ccrz.ccApiProduct.getUrlFor Salesforce Help Specify SEO Metadata for Products and Categories Salesforce Help Serve Friendly URLs for Storefront Pages

# ccrz.ccApiSiteIndex.remove

Delete site index records. B2B Commerce for Visualforce uses this method in site index batch jobs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> remove(Map<String, Object>)
```

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicSIRemove

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiSiteIndex.IDS

List<String> of site index IDs to remove.



## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# Example: Example

Delete site index records whose IDs you specify.

```
Map<String, Object> siteIndexesToRemove = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiSiteIndex.IDS => new List<String>{'Site_Index_ID_1', 'Site_Index_ID_2'}
};

try {
    Map<String, Object> siteIndexRemoveResult =
    ccrz.ccApiSiteIndex.remove(siteIndexesToRemove);
} catch (Exception e) {
```

```
// Error handling...
}
```

```
SEE ALSO:

ccrz__E_ProductIndex__c

ccrz__E_SiteIndex__c

ccrz.ccSiteIndexBuilder
```

# ccrz.ccApiSiteIndex.revise

Updates the status of the Active field on existing site index records. B2B Commerce for Visualforce uses this method in site index batch jobs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.
- Warning: This method doesn't allow a guest user to update records. If you're creating subscriber code that requires a guest user to update records, you have the following options:
  - If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
  - Execute the DML operation in your custom Apex class using the without sharing accessor.

## Signature

```
global static Map<String, Object> revise(Map<String, Object>)
```

## Service Layer Classes

## **Data Service Provider**

ccrz.ccServiceSiteIndex

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, ccrz E SiteIndex c>> of the site index records to update.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API\_SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiSiteIndex.fetch for returning the updated site index records.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiProduct.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

#### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, Object> of the updated ccrz E SiteIndex crecords.



🕜 Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

SEE ALSO:

ccrz\_\_E\_SiteIndex\_\_c ccrz.ccSiteIndexBuilder

# ccrz.ccApiStoredPayment

Query, create, update, and delete payments saved in the My Wallet section of the My Account page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

## IN THIS SECTION:

#### create

Creates a stored payment record from the fields and values that you specify.

#### fetch

Executes a SOQL query of stored payment records, and returns a list of records that match you query.

#### remove

Deletes stored payment records.

## revise

Updates certain fields on a stored payment record.

#### **Extension Examples for Stored Payments**

To implement custom business logic for stored payments, create custom subscriber code that extends the default data service provider and logic service provider classes. The following code examples provide starting points for working around limits in the default stored payment functionality and defining custom requirements.

#### SEE ALSO:

Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page

# ccrz.ccApiStoredPayment.create

Creates a stored payment record from the fields and values that you specify.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> create(Map<String, Object>)

## **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicStoredPaymentCreate

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<Map<String, Object>>,wherethe Map<String, Object> represents the ccrz\_\_E\_StoredPayment\_\_c record to create. You can specify the following fields:

account	endDate	startDate
accountNumber	expMonth	storefront
accountType	expYear	subaccountNumber

displayName	paymentType	token
enabled	sequence	user

- Note: By default, this method creates only one cart record at one time. Even though this key specifies a list, the method evaluates only the first item in the list.
- Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiStoredPayment.fetch for returning the created stored payment.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

```
{\tt ccrz.ccApiStoredPayment.ID}
```

ID of the new ccrz E StoredPayment c record.

#### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<Map<String, Object>>, where the Map<String, Object> represents the created ccrz\_E\_StoredPayment\_crecord.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

SEE ALSO:

ccrz.ccApiStoredPayment.fetch

# ccrz.ccApiStoredPayment.fetch

Executes a SOQL query of stored payment records, and returns a list of records that match you query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> fetch(Map<String, Object>)

### **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceStoredPayment

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



Note: Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

#### ccrz.ccApiStoredPayment.ACCOUNTTYPES

List<String> of specific ccrz AccountType c values on ccrz E StoredPayment c records to query, such as purchase order (PO), credit card, and so on. For more information about payment types, see https://help.salesforce.com/articleView?id=b2b\_commerce\_payment\_types.htm.



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version

#### ccrz.ccApiStoredPayment.BYASC

Boolean

Value	Usage
true	Sort the returned stored payment records in ascending order.
false (default)	Sort the returned stored payment records in descending order.

#### ccrz.ccApiStoredPayment.BYUSER

String that specifies the Salesforce ID of a user. This method returns only the ccrz E StoredPayment c records where the ccrz User c field references this user ID.



Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

#### ccrz.ccApiStoredPayment.EFFACT

String that specifies the Salesforce ID of an effective account for filtering the query.

#### ccrz.ccApiStoredPayment.ID

String that specifies the Salesforce ID of the stored payment record to query.

#### ccrz.ccApiStoredPayment.IDS

Set<String> that specifies the Salesforce IDs of the stored payment records to query.

#### ccrz.ccApiStoredPayment.ISENABLED

Boolean

Value	Usage
true	Return only stored payment records where the ccrzEnabledc field is true.
false (default)	Ignore the value of the ccrzEnabledc field.

#### ccrz.ccApiStoredPayment.ISREADONLY

Boolean

Value	Usage
true	Return only stored payment records where the ccrzReadOnlyc field is true.
false (default)	Ignore the value of the ccrzReadOnlyc field.

Note: This input is available only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).

#### ccrz.ccApiStoredPayment.STOREFRONT

String that specifies the name of a storefront for filtering the query.



### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

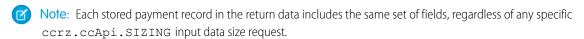
#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### $\verb"ccrz.ccApiStoredPayment.STOREDPAYMENTLIST"$

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz\_E\_StoredPayment\_c record.



### ccrz.ccApiSubscription.SUBSCRIPTIONS

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz\_E\_Subscription\_c record associated with a returned ccrz\_E\_StoredPayment\_c record.

Note: This output is returned only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), and only when the input data specifies ccrz.ccApi.SZ\_ASSOC => true:

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_ASSOC => true
```

```
}
```

# Example: Example

Fetch stored payment records by ID, and capture the first result's method of payment.

SEE ALSO:

Salesforce Help Set Up Payment Types for Storefront Purchases

# ccrz.ccApiStoredPayment.remove

Deletes stored payment records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# **Signature**

global static Map<String, Object> remove(Map<String, Object>)

### **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicStoredPaymentRemove

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

Include either of the following keys, but not both. If you don't include either key, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiStoredPayment.ID

String that specifies the ID of a stored payment to remove.

#### ccrz.ccApiStoredPayment.IDS

List<String> that specifies the IDs of stored payments to remove.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

#### ccrz.ccApiSubscription.SUBSCRIPTIONS

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz\_\_E\_Subscription\_\_c record associated with a removed ccrz\_E\_StoredPayment crecord.



Note: This output is returned only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), and only when the input data specifies ccrz.ccApi.SZ ASSOC => true:

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object>{
       ccrz.ccApi.SZ ASSOC => true
}
```

# ccrz.ccApiStoredPayment.revise

Updates certain fields on a stored payment record.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

```
global static Map<String, Object> revise(Map<String, Object>)
```

# Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceStoredPayment

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiStoredPayment.fetch for returning the updated stored payment.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

#### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<Map<String, Object>>,where the Map<String, Object> represents the ccrz\_\_E\_StoredPayment\_\_c record to update. You can specify the following fields:

account	endDate	startDate
accountNumber	expMonth	storefront
accountType	expYear	subaccountNumber
displayName	paymentType	token
enabled	sequence	user

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<Map<String, Object>>, where the Map<String, Object> represents the updated ccrz\_E\_StoredPayment\_crecord.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

SEE ALSO:

ccrz.ccApiStoredPayment.fetch

# **Extension Examples for Stored Payments**

To implement custom business logic for stored payments, create custom subscriber code that extends the default data service provider and logic service provider classes. The following code examples provide starting points for working around limits in the default stored payment functionality and defining custom requirements.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Important:

- The following examples are for demo purposes only, and don't provide a complete extension solution. Often, extension is a
  more complex customization that includes object data, data service provider, logic service provider, and buyer experience
  extensions.
- For more information about writing a logic service provider extension and configuring your storefront to reference your extension, see Extend or Override a Default Logic Service Provider.

# Example: Example: Fetch a Custom Field from Stored Payment Records

Let's say that you extended the default ccrz\_E\_StoredPayment\_\_c object to add a custom field,
PurchaseOrderApprover\_\_c. To include this field's data in the ccrz.ccApiStoredPayment.fetch return data,
extend the default ccrz.ccServiceStoredPayment data service provider class.

```
global class exampleServiceStoredPaymentExtension extends ccrz.ccServiceStoredPayment
{
    global override Map<String, Object> getFieldsMap(Map<String,Object> inputData) {
        ccrz.ccLog.log(LoggingLevel.DEBUG, 'E:exampleServiceStoredPaymentExtension,
'getFieldsMap');
    // Include all the default return data fields
    inputData = super.getFieldsMap(inputData);
    String objectFields = (String) inputData.get(ccrz.ccService.OBJECTFIELDS);
    // Add the custom field PurchaseOrderApprover__c
    inputData.put(ccrz.ccService.OBJECTFIELDS, objectFields +=
```

# Example: Example: Prevent Deletion of a Stored Payment with an Active Subscription

Return an exception when a buyer tries to delete a stored payment that's used with an active subscription. This extension overrides the default ccrz.ccLogicStoredPaymentRemove.deleteStoredPayment logic service provider method to evaluate the ccrz\_E\_Subscription\_c records that the ccrz.ccLogicStoredPaymentRemove.fetchStoredPayment method returned.

Ø

Note: This example is compatible with only B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12). In previous versions of the managed package, the ccrz.ccLogicStoredPaymentRemove class doesn't return subscription data.

```
global class exampleLogicStoredPaymentRemoveExtension extends
ccrz.ccLogicStoredPaymentRemove {
    // Exception class that represents the exception case for a related active
subscription
   global class RelatedSubscriptionException extends Exception { }
   global virtual override Map<String, Object> deleteStoredPayment(Map<String, Object>
inputData) {
        ccrz.ccLog.log(LoggingLevel.DEBUG, 'M:E',
'exampleLogicStoredPaymentRemoveExtension.deleteStoredPayment');
        // Check whether the subscription list is Map<String, Object> or sObject
        Boolean isSubMSO = !ccrz.ccUtil.isTrue(ccrz.ccApi.lookUpSz(inputData,
ccrz.ccAPISubscription.ENTITYNAME, ccrz.ccApi.SZ SKIPTRZ));
        // Get the list of subscriptions
        List<Object> relatedSubscriptions = (List<Object>)
inputData.get(ccrz.ccAPISubscription.SUBSCRIPTIONS);
        if (ccUtil.isNotEmpty(relatedSubscriptions)) {
            for(Object s : relatedSubscriptions) {
                String subStatus = null;
                String subStoredPayment = null;
                if (isSubMSO) { // handle skiptrz = false
                    subStatus = (String) ((Map<String,</pre>
Object>)s).get('subscriptionStatus');
                    subStoredPayment = (String) ((Map<String,</pre>
Object>)s).get('storedPayment');
                } else { // handle skiptrz = true
                 subStatus = ((ccrz E Subscription c)s).ccrz SubscriptionStatus c;
                    subStoredPayment =
((ccrz_E_Subscription_c)s).ccrz_StoredPayment_c;
                // Start looking for active subscriptions
                if ((ccrz.cc hk Subscriptions.PARAM STATUS ACTIVE == subStatus) &&
```

```
(null != subStoredPayment)) {
                    // Throw an exception when an active subscription is found
                    ccrz.ccLog.log(LoggingLevel.DEBUG, 'ERR', 'Active related
subscription found.');
                  throw new RelatedSubscriptionException('Active related subscription
found.');
                }
            }
        if (ccrz.ccUtil.isKeyValued(inputData,
ccrz.ccAPIStoredPayment.STOREDPAYMENTSLIST) && ccrz.ccUtil.isNotEmpty((List<object>)
inputData.get(ccrz.ccAPIStoredPayment.STOREDPAYMENTSLIST))) {
            List<ccrz E StoredPayment c>
stps=(List<ccrz E StoredPayment c>) inputData.remove(ccrz.ccAPIStoredPayment.STOREDPAYMENTSLIST);
            delete stps;
            inputData.put(ccrz.ccAPI.SUCCESS, true);
        }
        ccrz.ccLog.log(LoggingLevel.DEBUG, 'M:X',
'exampleLogicStoredPaymentRemoveExtension.deleteStoredPayment');
        return inputData;
 }
```

# ccrz.ccApiStorefront

Query storefront association records, which link between a particular account, a particular storefront, and a particular Experience Cloud

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccApiStorefront



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

```
ccrz E StorefrontAssociation c
```

Create Associations between Multiple Storefronts and Experience Cloud Sites

# ccrz.ccApiSubProdTerm

Query subscription options that are available for a specific product.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccApiSubProdTerm



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Offer Subscriptions for Products on Your Storefront

# ccrz.ccApiSubscPage

Query subscriber page records, and handle the case where a specified subscriber page isn't found.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

#### fetch

Executes a SOQL query of subscriber page records, and returns a list of records that match you query.

Returns a reference to the ccrz.CCFileNotFound Visualforce page that redirects a buyer when a specified subscriber page isn't found. Invoke this method when the ccrz.ccApiSubscPage.fetch method doesn't return any results.

SEE ALSO:

Salesforce Help Create a Subscriber Page

# ccrz.ccApiSubscPage.fetch

Executes a SOQL query of subscriber page records, and returns a list of records that match you query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> fetch(Map<String, Object>)

# Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceSubscPage

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



**Note:** Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

#### ccrz.ccApiSubscPage.PAGEID

String that specifies the Salesforce ID of a subscriber page record to guery.



Note: This key takes precedence over ccrz.ccApiSubscPage.PAGEIDLIST and any other inputs.

#### ccrz.ccApiSubscPage.PAGEIDLIST

Set<String> of Salesforce IDs of subscriber page records to query.

Note: This key takes precedence over any other inputs except ccrz.ccApiSubscPage.PAGEID.

#### ccrz.ccApiSubscPage.PAGEKEY

String that specifies the key of a subscriber page to query. This value corresponds to the ccrz PageKey c field on a ccrz E Subscriber Page crecord.

#### ccrz.ccApiSubscPage.STOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.ccApiSubscPage.THEDATE

```
Date for filtering the query by the ccrz StartDate c and ccrz EndDate c range on
ccrz E Subscriber Page c records.
```

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

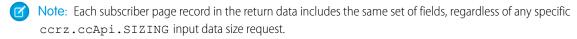
#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiSubscPage.PAGELIST

```
List<Map<String, Object>>, where each Map<String, Object> represents a
ccrz E Subscriber Page crecord.
```



# Example: Example: Query by Page ID

Fetch a subscriber page by its Salesforce ID.

```
Map<String, Object> subscriberPageQuery = new Map<String, Object>{
    ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiSubscPage.PAGEID => 'subscriber page ID'
};
trv {
   Map<String, Object> subscriberPagesFetched =
ccrz.ccApiSubscPage.fetch(subscriberPageQuery);
```

```
if (subscriberPagesFetched.get(ccrz.ccApiSubscPage.PAGELIST) != null) {
    List<Map<String, Object>> outputPagesList = (List<Map<String, Object>>)
subscriberPagesFetched.get(ccrz.ccApiSubscPage.PAGELIST);
    // Parse the returned pages data
}
catch (Exception e) {
    // Error handling...
}
```

# Example: Example: Query by Page IDs

Fetch multiple subscriber pages by their Salesforce IDs.

```
Map<String, Object> subscriberPageQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiSubscPage.PAGEIDLIST => new Set<String> {'subscriber_page_ID_1',
    'subscriber_page_ID_2'}'
};

try {
    Map<String, Object> subscriberPagesFetched =
    ccrz.ccApiSubscPage.fetch(subscriberPageQuery);
    if (subscriberPagesFetched.get(ccrz.ccApiSubscPage.PAGELIST) != null) {
        List<Map<String, Object>> outputPagesList = (List<Map<String, Object>>)
    subscriberPagesFetched.get(ccrz.ccApiSubscPage.PAGELIST);
        // Parse the returned pages data
    }
} catch (Exception e) {
    // Error handling...
}
```

# Example: Example: Query by Page Key and Date

Fetch subscriber pages that match a specific page key value and date range.

```
Map<String, Object> subscriberPageQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiSubscPage.PAGEKEY => 'pageKey',
    ccrz.ccApiSubscPage.THEDATE => Date.today().addDays(-5)
};

try {
    Map<String, Object> subscriberPagesFetched =
    ccrz.ccApiSubscPage.fetch(subscriberPageQuery);
    if (subscriberPagesFetched.get(ccrz.ccApiSubscPage.PAGELIST) != null) {
        List<Map<String, Object>> outputPagesList = (List<Map<String, Object>>)
    subscriberPagesFetched.get(ccrz.ccApiSubscPage.PAGELIST);
        // Parse the returned pages data
    }
} catch (Exception e) {
```

```
// Error handling...
}
```

SEE ALSO:

ccrz\_\_E\_Subscriber\_Page\_\_c
Salesforce Help Create a Subscriber Page

# ccrz.ccApiSubscPage.notFound

Returns a reference to the ccrz.CCFileNotFound Visualforce page that redirects a buyer when a specified subscriber page isn't found. Invoke this method when the ccrz.ccApiSubscPage.fetch method doesn't return any results.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> notFound(Map<String, Object>)
```

# Service Layer Classes

#### **Logic Service Provider**

ccrz.ccLogicSubscPageNotFound

### Inputs

None

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiSubscPage.PAGELIST

List<Map<String, Object>> that contains one Map<String, Object>, which represents the ccrz E Subscriber Page crecord for the ccrz.CCFileNotFound page.

# ccrz.ccApiSubscription

Query subscription records associated with placed orders.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccApiSubscription



[] Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Offer Subscriptions for Products on Your Storefront

# ccrz.ccApiTerms

Query definitions of terms and conditions shown to the buyer during checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

fetch

Executes a SOQL query of terms records, and returns a list of records that match you query.

# ccrz.ccApiTerms.fetch

Executes a SOQL query of terms records, and returns a list of records that match you query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetch(Map<String, Object>)

# Service Layer Classes

#### **Data Service Provider**

ccrz.ccServiceTerms

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

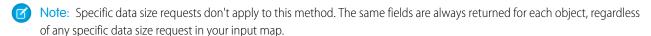
Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



#### ccrz.ccApiTerms.LOCALE

String that specifies one of your storefront's supported locales.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userLocale.

### ccrz.ccApiTerms.STOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

#### ccrz.ccApiTerms.TYPE

String that specifies a type of term for filtering the query, such as All, Billing, or Shipping.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous
	savepoint.

#### ccrz.ccApiTerms.TERMLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz E Term c record.

# Mote:

- Each term record in the return data includes the same set of fields, regardless of any specific ccrz.ccApi.SIZING input data size request.
- The return data includes only one term record of each type of term.

# Example: Example

Fetch term records where:

- Type is Shipping
- Storefront is DefaultStore
- Locale is en\_US

For each returned term, capture its title in a string variable.

```
Map<String, Object> termsFetchQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiTerms.STOREFRONT => 'DefaultStore',
    ccrz.ccApiTerms.TYPE => 'Shipping',
    ccrz.ccApiTerms.LOCALE => 'en_US'
};

try {
    Map<String, Object> termsResults = ccrz.ccApiTerms.fetch(termsFetchQuery);
    if (termsResults.get(ccrz.ccApiTerms.TERMLIST) != null) {
        List<Map<String, Object>> outputTermsList = (List<Map<String, Object>>)
    termsResults.get(ccrz.ccApiTerms.TERMLIST);
        for (Map<String, Object> term: outputTermsList) {
            String termTitle = (String)term.get('title');
        }
    }
} catch (Exception e) {
    // Error handling...
}
```

SEE ALSO:

Salesforce Help Set Up Terms and Conditions on the Checkout Page

# ccrz.ccApiTransactionPayment

Query details of payments made when buyers complete checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

fetch

Executes a SOQL query of transaction payment records, and returns a list of records that match you query.

# ccrz.ccApiTransactionPayment.fetch

Executes a SOQL query of transaction payment records, and returns a list of records that match you query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetch(Map<String, Object>)

# Service Layer Classes

### **Data Service Provider**

ccrz.ccServiceTransactionPayment

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



**Note**: Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

### ccrz.ccApiTransactionPayment.BYASC

Boolean

Value	Usage
true	Sort the returned transaction payment records by ccrz.ccApiTransactionPayment.BYNAME or ccrz.ccApiTransactionPayment.BYTIMESTAMP criteria in ascending order.
false (default)	Sort the returned transaction payment records in descending order.

#### ccrz.ccApiTransactionPayment.BYNAME

Boolean

Value	Usage
true (default)	Sort the returned transaction payment records by the Name field.
false	Sort the returned transaction payment records other criteria.

#### $\verb"ccrz.ccApiTransactionPayment.BYTIMESTAMP"$

Boolean

Value	Usage
true	Sort the returned transaction payment records by the ccrzTransactionTSc field.
false (default)	Sort the returned transaction payment records other criteria.

#### ${\tt ccrz.ccApiTransactionPayment.FROMDATE}$

Locale-specific string of a date value, such as 3/10/2015 for the en\_US locale. The return data includes only the transaction payments where the ccrz\_\_TransactionTS\_\_c value occurs after the specified date. The ccrz.ccServiceTransactionPayment data service provider converts this string to a datetime.

#### ccrz.ccApiTransactionPayment.ID

String that specifies the Salesforce ID of the transaction payment record to query.

#### ccrz.ccApiTransactionPayment.IDS

Set<String> that specifies the Salesforce IDs of the transaction payment records to query.

#### ccrz.ccApiTransactionPayment.INVOICESFOR

Set<String> that specifies the Salesforce IDs of invoice records. The return data includes only the transaction payments that have applied for the specified invoices.

#### ccrz.ccApiTransactionPayment.INVOICESTO

Set<String> that specifies the Salesforce IDs of invoice records. The return data includes only the transaction payments that have applied to the specified invoices.

#### ccrz.ccApiTransactionPayment.ORDERS

Set<String> that specifies the Salesforce IDs of order records. The return data includes only the transaction payments associated with the specified orders.

#### ccrz.ccApiTransactionPayment.STOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.ccApiTransactionPayment.SUBSCRIPTIONS

Set<String> that specifies the Salesforce IDs of subscription records. The return data includes only the transaction payments associated with the specified subscriptions.

#### ccrz.ccApiTransactionPayment.TODATE

Locale-specific string of a date value, such as 3/10/2015 for the en\_US locale. The return data includes only the transaction payments where the ccrz\_\_TransactionTS\_\_c value occurs before the specified date. The ccrz.ccServiceTransactionPayment data service provider converts this string to a datetime.

#### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiTransactionPayment.TRANSACTIONPAYMENTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_TransactionPayment\_c record.

Note: Each transaction payment record in the return data includes the same set of fields, regardless of any specific ccrz.ccApi.SIZING input data size request.

# Example: Example

Fetch transaction payment records for a pair of specified order IDs, and capture the first result's method of payment.

```
Map<String, Object> transactionPaymentQuery = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccApi.CURRENT_VERSION,
    ccrz.ccApiTransactionPayment.ORDERS => new Set<String>{'order_ID_1', 'order_ID_2'}
};

try {
    Map<String, Object> transactionPaymentResults =
    ccrz.ccApiTransactionPayment.fetch(transactionPaymentQuery);
    if
    (transactionPaymentResults.get(ccrz.ccApiTransactionPayment.TRANSACTIONPAYMENTLIST)
!= null) {
        List<Map<String, Object>> outputPaymentsList = (List<Map<String, Object>>)
    transactionPaymentResults.get(ccrz.ccApiTransactionPayment.TRANSACTIONPAYMENTLIST);
        String paymentTypes = (String) outputPaymentsList[0].get('accountType');
    }
} catch (Exception e) {
    // Error handling...
}
```

#### SEE ALSO:

Salesforce Help Set Up Payment Types for Storefront Purchases
Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.ccApiUser

Query, create, or modify user records that have B2B Commerce for Visualforce custom fields.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

#### IN THIS SECTION:

#### createUser

Creates a user record from the fields and values that you specify. To insert the user after creating it, call the registerUser method, which invokes the Site.createExternalUser method.

#### fetch

Executes a SOQL query of user records and returns a list of users that match your query.

#### getProfileData

Returns user, contact, and account record data for populating fields on a buyer's My Account page.

#### login

Authenticates a user into a storefront.

#### registerUser

Creates the user, contact, and account records for a buyer who's registering on your storefront.

#### revise

Updates fields on an existing user record.

### updateProfileData

Updates user or contact records with new values that a buyer specifies on the My Account page.

#### SEE ALSO:

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers
Site Class

# ccrz.ccApiUser.createUser

Creates a user record from the fields and values that you specify. To insert the user after creating it, call the registerUser method, which invokes the Site.createExternalUser method.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

global static Map<String, Object> createUser(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicUserCreateUser

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiUser.USER NEW

Map<String, Object> that describes fields and values for creating the user record. Only certain account fields are writable when creating the record.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

Field	Туре	Corresponding User Object Field Name
companyName	String	Company
companyType	String	ccrzCompanyTypec
contactTypeRole	String	ccrzContactTypeRolec
currencyCode	String	ccrzCC_CurrencyCodec and DefaultCurrencyIsoCode
		Note: DefaultCurrencylsoCode is set only when the org is configured for multiple currencies.
department	String	Department
firstName	String	FirstName
industry	String	ccrzUser_Industryc

Field	Туре	Corresponding User Object Field Name
language	String	LocaleSidKey and LanguageLocaleKey  Note: The  CZCCULLCHONSHIPSCHLAGGEREA  method filters the specified  LanguageLocaleKey.
lastName	String	LastName
primaryPhone	String	Phone
salutation	String	ccrzUser_Salutationc
timeZone	String	TimeZoneSIDKey  Note: This value is set only when the Show Time Zone configuration of the Registration module is  TRUE in your storefront configuration settings.
title	String	Title
username	String	SenderEmail and Nickname  Note: By default, the Experience Cloud site nickname matches the specified username, plus a timestamp to make the value unique.

# Outputs

Map<String, Object> that can include the following keys:

# ccrz.ccApi.API\_VERSION

Integer that indicates which API version was used for the query.

# ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiUser.USER NEW

User sObject, created from the specified field values.

# ccrz.ccApiUser.fetch

Executes a SOQL query of user records and returns a list of users that match your query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

global static Map<String, Object> fetch(Map<String, Object>)

### **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceUser

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies options for how the method returns data.



Note: Specific data size requests don't apply to this method. The same fields are always returned for each object, regardless of any specific data size request in your input map.

#### ccrz.ccApiUser.ID LIST

Set<String> of specific user IDs to query.

```
new Set<String>{'User_ID_1', 'User_ID_2'}
```

#### ccrz.ccApiUser.ID

String of a specific user ID to query.

#### ccrz.ccApiUser.USER EMAIL

String that specifies an email address whose user record you want to query.

#### ccrz.ccApiUser.USER NAME

String that specifies a username whose user record you want to query.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

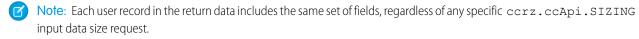
#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiUser.USERLIST

List<Map<String, Object>>, where each Map<String, Object> represents a user record.



# Example: Example

Fetch the user record for a specified user ID.

```
Map<String, Object> userFetchQuery = new Map<String, Object> {
   ccrz.ccApi.API VERSION => ccrz.ccApi.CURRENT VERSION,
    ccrz.ccApiUser.ID => 'User ID'
};
```

```
Map<String, Object> userFetchData = ccrz.ccApiUser.fetch(userFetchQuery);

System.debug('userFetchData KEYS=' + JSON.serializePretty(userFetchData.keySet()));
Boolean success = (Boolean)userFetchData.get(ccrz.ccApi.SUCCESS);

if(success) {
    List<Map<String, Object>> users = (List<Map<String,
Object>>)userFetchData.get(ccrz.ccApiUser.USERLIST);
    System.debug('users=' + JSON.serializePretty(users));
} else {
    List<ccrz.cc_bean_Message> messages =
(List<ccrz.cc_bean_Message>)userFetchData.get(ccrz.ccApi.MESSAGES);
    System.debug('messages=' + messages);
}
```

# ccrz.ccApiUser.getProfileData

Returns user, contact, and account record data for populating fields on a buyer's My Account page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

# Signature

```
global static Map<String, Object> getProfileData(Map<String, Object>)
```

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicUserGetProfileData

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API\_VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiUser.USER ID

String of a specific user ID whose profile data you want to return.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

### Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiUser.USER DATA MAP

Map<String, Object> of user record data.

#### ccrz.ccApiUser.USER PROFILE ACCOUNT

Map<String, Object> of account record data.

#### ccrz.ccApiUser.USER PROFILE CONTACT

Map<String, Object> of contact record data.

# ccrz.ccApiUser.login

Authenticates a user into a storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> login(Map<String, Object>)

### **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicUserLogin

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



### ccrz.ccApiUser.USER\_NAME

String that specifies the username for logging in.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiUser.USER\_PWD

String that specifies the user's password for logging in.

Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiUser.CART ENCID

String that specifies an encrypted ID of a cart to transfer to the user's session.

#### ccrz.ccApiUser.LOGIN START URL

String that specifies a storefront URL to immediately navigate the buyer to after logging in. This URL value can include a requested Visualforce page and any parameters you want to set. If you don't specify this key, a buyer is sent to the Home page by default.



- B2B Commerce for Visualforce doesn't support immediately navigating a buyer to the Checkout page. If you try to immediately navigate to the Checkout page, the URL resolves to the Shopping Cart page.
- This method validates the requested URL for acceptable parameters, and returns the final redirect URL in the ccrz.ccApiUser.LOGIN PAGE return data key.

#### ccrz.ccApiUser.PARAM STOREFRONT

String that specifies the name of a storefront.



 $oxed{oxed}$  Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, where each ccrz.cc bean Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiUser.LOGIN PAGE

String that specifies the storefront page URL to navigate the buyer to after logging in. This value can include necessary parameters that were omitted from the ccrz.ccApiUser.LOGIN START URL input key.

# ccrz.ccApiUser.registerUser

Creates the user, contact, and account records for a buyer who's registering on your storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

### Signature

global static Map<String, Object> registerUser(Map<String, Object>)

# **Service Layer Classes**

#### **Logic Service Provider**

ccrz.ccLogicUserRegister

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

# Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApiUser.USER REGISTER JSON

JSON-formatted string of fields and values for the new user that's registering.

#### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApi.USER ID

String that specifies the ID of the newly created user record.

# ccrz.ccApiUser.revise

Updates fields on an existing user record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8





- If you're using B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11), invoke the ccrz.ccLogic.updateObjects utility method.
- Execute the DML operation in your custom Apex class using the without sharing accessor.

# Signature

global static Map<String, Object> revise(Map<String, Object>)

# **Service Layer Classes**

#### **Data Service Provider**

ccrz.ccServiceUser

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiUser.fetch for returning the updated user record.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
   ccrz.ccApiUser.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
   }
}
```

#### ccrz.ccApiUser.USERLIST

List<Map<String, Object>>, where the first Map<String, Object> represents a user record whose field values you want to update.



Note: This method process only the first Map<String, Object> in the list, and ignores any others. Follow the same format for user record data that the ccrz.ccApiUser.fetch method returns.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

## ccrz.ccApi.USERLIST

List<Map<String, Object>>, where the first Map<String, Object> represents the updated user record.



🕜 Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

```
ccrz.ccApi.SIZING => new Map<String, Object> {
   ccrz.ccApiUser.ENTITYNAME => new Map<String, Object> {
       ccrz.ccApi.SZ REFETCH => true
   }
}
```

# ccrz.ccApiUser.updateProfileData

Updates user or contact records with new values that a buyer specifies on the My Account page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: You can still call older versions of the API for this method, which can accept different input keys or return different output keys. Any differences in behavior for older versions aren't documented in this topic.

## Signature

```
global static Map<String, Object> updateProfileData(Map<String, Object>)
```

# Service Layer Classes

## **Logic Service Provider**

ccrz.ccLogicUserUpdateProfileData

## Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

### ccrz.ccApiUser.USER DATA MAP

Map<String, Object> of the user record data to update.

## ccrz.ccApiUser.USER PROFILE CONTACT

Map<String, Object> of the user's contact record data to update.

## Outputs

Map<String, Object> that can include the following keys:

## ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

# ccrz.ccApiWishList

Query ccrz\_E\_Cart\_\_c records where the ccrz\_\_CartType\_\_c field is WishList.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccApiWishList

(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

# **Data Service Provider Classes**

B2B Commerce for Visualforce provides several default data service providers: Apex classes that query and transform specific data for global API methods. For example, the ccrz.ccServiceCart class defines how B2B Commerce queries and transforms cart data for a ccrz.ccApiCart.fetch method call. To modify how a default class behaves, you can write subscriber code that extends or overrides the default class.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Global API Data Service Layer

(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# Logic Service Provider Classes

B2B Commerce for Visualforce provides several default *logic service providers*: Apex classes that describe the business logic for how specific global API methods behave. For example, the <code>ccrz.ccLogicCartAddTo</code> class defines how B2B Commerce adds products to a cart from a <code>ccrz.ccApiCart.addTo</code> method call. To modify the default logic for your organization, you can write subscriber code that extends or overrides the default logic.

Logic service provider classes differ from global API classes in a few important ways:

- Logic service provider definitions include the virtual definition modifier, which means that subscriber code can extend or override them.
- All methods in a logic service provider class execute in sequence. Each method accepts a Map<String, Object> and passes
  that map to the next method in the chain. This map is known as the working map. The next method in the chain can add or remove
  fields in the working map.
  - Warning: When you extend or override a logic service provider, be careful to account for the status of the working map in each method. Which fields does each method add? Which fields does each method return? If you omit or mishandle a field at any point in the method chain, your subscriber code can function differently than you expect.
- Sometimes, B2B Commerce for Visualforce updates logic service provider classes in a new version of the B2B Commerce managed package. In subscriber code, you generally extend or override a version-agnostic logic service provider class or method. The version declared in the input map for the associated global API method determines which version of the logic service provider executes.

#### IN THIS SECTION:

#### Platform Cache for Logic Service Provider Classes

Some logic service provider classes invoke methods that generate a key or prepare data for platform cache. These methods help improve performance when the logic service providers request cached data.

#### Extend or Override a Default Logic Service Provider

As part of your organization's customization of default B2B Commerce for Visualforce functionality, you can extend or override a default logic service provider class and its methods.

#### ccrz.ccLogic

Defines the base methods that are available for all logic service provider classes.

#### ccrz.ccLogicAccountCreateAccount

Define the business logic for creating an account record from the fields and values that you specify.

#### ccrz.ccLogicAccountGetAnonymous

Define the business logic for returning the account associated with the storefront guest user.

## ccrz.ccLogicAccountGetCurrent

Define the business logic for returning the account associated with the user currently logged in to the storefront.

#### ccrz.ccLogicAccountValidateNew

Define the business logic for checking new account records for missing fields.

#### ccrz.ccLogicAddressCreateAddress

Define the business logic for creating a contact address record from the fields and values that you specify. On the storefront, this logic service provider is invoked by default when a buyer enters new address information during line-level independence (LLI) checkout flow.

#### ccrz.ccLogicAddressBookCreateAddressBook

Define the business logic for creating an account address book record from the fields and values that you specify.

## ccrz.cc Logic Address Book Remove Address Book

Define the business logic for deleting account address book records.

### ccrz.ccLogicAttrFetch

Define the business logic for filtering ccrz\_E\_Attribute\_\_c records returned from the ccrz.ccApiAttribute.fetch method's SOQL query. This class also defines whether ccrz\_E\_Attribute\_\_c return data is keyed by ccrz\_AttributeID\_\_c or Salesforce ID.

#### ccrz.ccLogicCartAddTo

Define the business logic for adding products to a cart.

#### ccrz.ccLogicCartClone

Define the business logic for creating a copy of a cart or wish list.

#### ccrz.ccLogicCartCreate

Define the business logic for creating a cart record. By default, the methods of this class create only one cart record at a time. Even though the methods accept and return a list of cart records, the methods evaluate only the first element in the list.

#### ccrz.ccLogicCartCreateCartItemGroup

Define the business logic for creating a shipping group of cart items for line-level independence (LLI) checkout.

#### ccrz.ccLogicCartCreateWL

Define the business logic for creating a wish list and wish list items based on a specific cart ID and its cart items.

### ccrz.ccLogicCartInitItemGroups

Define the business logic for initializing shipping groups on a specific cart for line-level independence (LLI) checkout.

## ccrz.ccLogicCartGetActive

Define the business logic for resolving which cart is active for the current user, account (including effective accounts), storefront, and currency.

## ccrz.ccLogicCartGetDeliveryDates

Define the business logic for returning the available delivery dates for one or more shipping addresses.

### ccrz.ccLogicCartGetShippingOptions

Define the business logic for returning the available shipping options for one or more shipping addresses.

### ccrz.ccLogicCartPlace

Define the business logic for converting a cart to an order.

#### ccrz.ccLogicCartPlaceAsync

Define the business logic for converting a cart to an order using asynchronous Apex jobs.

#### ccrz.ccLogicCartPrice

Define the business logic for updating the price information for the items in a specified cart.

### ccrz.ccLogicCartPriceAsync

Define the business logic for converting a cart to an order using asynchronous Apex jobs.

#### ccrz.ccLogicCartProcessItemGroups

Define the business logic for moving cart items between shipping groups for line-level independence (LLI) checkout.

## ccrz.ccLogicCartRemove

Define the business logic for removing cart items, including a coupon, from a specified cart.

#### ccrz.ccLogicCartRemoveCart

Define the business logic for deleting carts, including wish lists.

## ccrz.ccLogicCartRemoveItemGroups

Define the business logic for deleting shipping groups of cart items for line-level independence (LLI) checkout.

### ccrz.ccLogicCartRepair

Define the business logic for reopening a cart where the status remains Repricing even after a repricing job completes. A cart can remain in this status when a repricing job is unsuccessful or no longer available in the org.

#### ccrz.ccLogicCartSave

Define the business logic for saving a cart, including invoking validation logic and updating cart fields for a selected effective account.

### ccrz.ccLogicCartSetActive

Define the business logic for setting a single cart as the active cart for a particular owner, and updating all the owner's other open carts to inactive.

#### ccrz.ccLogicCartTransfer

Define the business logic for transferring ownership of a cart to another user.

## ccrz.ccLogicCartValidate

Define the business logic for determining whether a buyer is allowed to check out from the Shopping Cart page. This class also replaces the legacy ccrz.cc\_api\_CartExtension.allowCheckout and ccrz.cc api CartExtension.getCartMessages methods.

## ccrz.ccLogicCategoryGetTree

Define the business logic for returning a generated category tree from a public cache.

### ccrz.ccLogicCategoryUrlFor

Define the business logic for returning the friendly URLs for categories.

## ccrz.ccLogicCouponApply

Define the business logic for adding and applying a coupon to a specific shopping cart.

### ccrz.ccLogicCouponRemove

Define the business logic for removing coupons that are already applied to a specified shopping cart.

#### ccrz.ccLogicCouponUpdateUse

Define the business logic for removing coupons that are already applied to a specified shopping cart.

#### ccrz.ccLogicl18NGetAvailableLocales

Define the business logic for returning a storefront's enabled locales.

#### ccrz.ccLogicl18NGetBrowserLocales

Define the business logic for determining which locales the buyer's browser supports.

#### ccrz.ccLogicl18NGetLocale

Define the business logic for returning the current buyer's locale.

#### ccrz.ccLogicl18NSetLocale

Define the business logic for setting a new locale for the current authenticated buyer.

#### ccrz.ccLogicOrderAuthCancel

Define the business logic for determining whether a buyer can cancel an order.

#### ccrz.ccLogicOrderCancel

Define the business logic for changing the status of an order to Cancelled.

#### ccrz.ccLogicOrderHistory

Define the business logic for searching an account's order history, and fetching order records that match the search terms. This class also replaces the legacy ccrz.cc\_hk\_Order.fetchOrderHistory method.

## ccrz.ccLogicOrderGetOrdersToSplit

Define the business logic for determining which orders to include in the ccrz.ccSplitOrderJob batch processing class.

#### ccrz.ccLogicOrderReOrder

Define the business logic for copying a completed order and its order items to a new cart and cart items. This class also replaces the legacy ccrz.cc\_hk Order.reorder method.

## ccrz.ccLogicOrderRestore

Define the business logic for reopening a cart after the corresponding order fails when attempting to place the order asynchronously. This cart's status resets to Open and the cart becomes active. This logic service provider can only restore an order with a status of Error and that hasn't been restored previously.

#### ccrz.ccLogicOrderSplitOrder

Define the business logic for splitting orders by seller. To split orders by other criteria, extend this logic service provider class.

## ccrz.ccLogicPlCreate

Define the business logic for creating product index records.

#### ccrz.ccLogicPIFetchEntitled

Define the business logic for returning a buyer's entitled product IDs that correspond to product index records queried from a search string or specified categories.

#### ccrz.ccLogicPlRemove

Define the business logic for deleting product index records.

### ccrz.ccLogicPLEntLists

Define the business logic for returning an account's entitled price lists.

## ccrz.ccLogicProductFind

Define the business logic for returning and pricing entitled products that match a search string or that belong to a set of specified category IDs.

## ccrz.ccLogicProductFindFilters

Define the business logic for returning filters and spec values for entitled products that match a search string or that belong to a set of specified category IDs.

## ccrz.ccLogicProductPricing

Define the business logic for pricing products.

#### ccrz.ccLogicProductUrlFor

Define the business logic for returning the friendly URLs for products.

#### ccrz.ccLogicSlCreate

Define the business logic for creating site index records.

## ccrz.ccLogicSlMapUrl

Define the business logic for returning the category or product default URL that corresponds to a specified friendly URL.

#### ccrz.ccLogicSIRemove

Define the business logic for deleting site index records.

#### ccrz.ccLogicStoredPaymentCreate

Define the business logic for creating a stored payment record.

#### ccrz.ccLogicStoredPaymentRemove

Define the business logic for deleting stored payment records.

#### ccrz.ccLogicUserCreateUser

Define the business logic for creating a user record from the fields and values that you specify. This class doesn't insert the user. Instead, the ccrz.ccLogicUserRegister logic service provider class invokes the Site.createExternalUser method.

#### ccrz.ccLogicUserGetProfileData

Define the business logic for returning user, contact, and account record data for populating fields on a buyer's My Account page.

#### ccrz.ccLogicUserLogin

Define the business logic for authenticating a user into a storefront.

### ccrz.ccLogicUserRegister

Define the business logic for creating the user, contact, and account records for a buyer who's registering on your storefront.

## ccrz.ccLogicUserUpdateProfileData

Define the business logic for updating user or contact records with new values that a buyer specifies on the My Account page.

## ccrz.ccLogicWLAddTo

Define the business logic for adding products to a wish list.

#### ccrz.ccLogicWLCreate

Define the business logic for creating a wish list.

#### ccrz.ccLogicWLCreateCart

Define the business logic for creating a cart record from an existing wish list.

## ccrz.ccLogicWLGetActive

Define the business logic for resolving which wish list is active for the current user, account (including effective accounts), storefront, and currency.

## ccrz.ccLogicWLRemove

Define the business logic for deleting a wish list.

## ccrz.ccLogicWLRemoveFrom

Define the business logic for deleting wish list items from a specified wish list.

#### ccrz.ccLogicWLSetActive

Define the business logic for setting a single wish list as the active wish list for a particular owner, and updating all the owner's other wish lists to inactive.

SEE ALSO:

**Apex Class Definition** 

# Platform Cache for Logic Service Provider Classes

Some logic service provider classes invoke methods that generate a key or prepare data for platform cache. These methods help improve performance when the logic service providers request cached data.

The following methods of the ccrz.ccLogic base class interact with cached data:

- ccrz.ccLogic.prepareCacheData
- ccrz.ccLogic.prepareCacheKey

The specific behavior for invoking these methods varies by logic service provider.

# Extend or Override a Default Logic Service Provider

As part of your organization's customization of default B2B Commerce for Visualforce functionality, you can extend or override a default logic service provider class and its methods.

For example, let's say that you want to customize the default logic for returning price lists that a particular account is entitled to.

1. In your org, create an Apex class for your customization.

```
global with sharing class customEntitledPriceListLogic extends ccrz.ccLogicPLEntLists
{ }
```



Tip:

- We recommend that you define and adopt a consistent naming convention for your organization's subscriber code. Include
  a common prefix, your project's name, and the name of the default class, such as
  cc\_projectName\_defaultClassName.
- Specify an appropriate sharing keyword, depending on the availability and permissions that you want the class to have.
- Use the extends keyword since you're extending a default logic service provider class.
- 2. Inside the class definition, override the specific method of the ccrz.ccLogicPLEntLists logic provider class whose behavior you want to customize.

Let's say that you want to override the fetchAccountGroupPriceListIDs method, which returns the IDs of the price lists associated with an account group.

```
global with sharing class customEntitledPriceListLogic extends ccrz.ccLogicPLEntLists
{
    global virtual override Map<String, Object> fetchAccountGroupPriceListIDs(Map<String,</pre>
```

```
Object> inputData) { }
}
```

Because each logic service provider method accepts a Map<String, Object>, your method override must also accept a Map<String, Object> for input data.

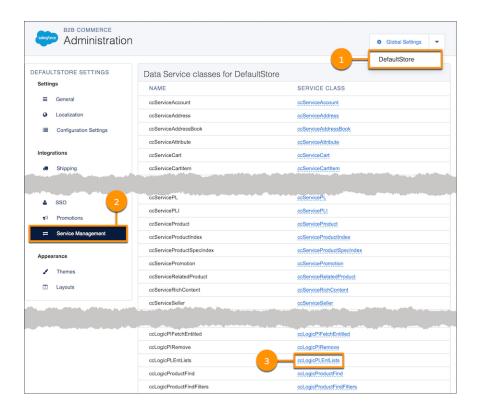
**3.** Inside your method override, add your custom business logic. Make sure that you include a return statement at the end of your method override.

```
global with sharing class customEntitledPriceListLogic extends ccrz.ccLogicPLEntLists
{
    global virtual override Map<String, Object> fetchAccountGroupPriceListIDs(Map<String,
Object> inputData) {
        // Your custom logic
        return inputData;
    }
}
```

- Tip:
  - Since you're overriding a virtual method, you can invoke the super keyword in your custom logic.
  - To help you understand what data a method expects and returns by default, check out the reference for that particular method. During development, you can also serialize the default input and output data within your method override. This step can help you make sure that your extension code handles all expected inputs and outputs correctly so that your code executes successfully.

```
global with sharing class customEntitledPriceListLogic extends
ccrz.ccLogicPLEntLists {
    global virtual override Map<String, Object>
fetchAccountGroupPriceListIDs(Map<String, Object> inputData) {
        System.debug('-- inputData ' + JSON.serialize(inputData));
        Map<String,Object> returnData =
    super.fetchAccountGroupPriceListIDs(inputData);
        System.debug('-- returnData ' + JSON.serialize(returnData));
        return returnData;
    }
}
```

- **4.** Save your class, and resolve any compilation errors.
- **5.** Update your storefront settings so that B2B Commerce for Visualforce references your override instead of the default logic service provider.



- **a.** On the CC Admin tab in your org, select your storefront (1).
- **b.** In the Storefront Settings menu, select **Service Management** (2).
- c. Scroll to the name of the logic service provider class that you extended, such as ccLogicPLEntLists, and click its link in the Service Class column (3).
- **d.** Enter the name of your custom class, prefixed with c., such as c.customEntitledPriceListLogic, and click the checkmark to save.

# ccrz.ccLogic

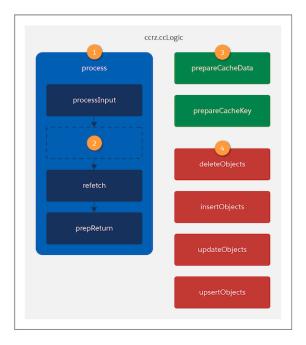
Defines the base methods that are available for all logic service provider classes.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

The methods of this class execute in the following order.



- The process method (1) invokes the chain of inner methods. Classes that extend the ccrz.ccLogic base class, including the default B2B Commerce for Visualforce logic service provider classes, typically add specific logic (2) as part of this process.
- Global utility methods for generating a key or preparing data for platform cache (3).
- In B2B Commerce for Visualforce Spring '20 (version 4.12), static utility methods (4) are available for performing DML operations on sObjects.

## Methods

#### IN THIS SECTION:

#### process

Accepts the input map specified for a B2B Commerce for Visualforce global API method, and passes the map to the ccrz.cclogic.processInput method. Specific logic service provider class methods that override this base method often call into other business logic from process.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### refetch

Executes a follow-up fetch operation for data that was previously fetched, when appropriate. For example, if you're programmatically modifying cart data, maybe you want to return the updated cart records within the same API transaction.

#### prepReturn

Removes intermediate keys added to the working map by other logic methods, and returns the final data queried by the B2B Commerce for Visualforce global API method.

## prepareCacheData

Evaluates and potentially modifies data before caching it.

## prepareCacheKey

Generates a key for a particular type of cached data, such as category tree or page labels. This method returns a Map<String, Object> that contains fields that ensure that repeated calls always return the same set of data. The exact keys depend on the specific logic service provider that invokes this method.

#### deleteObjects

Deletes a specified sObject or list of sObjects.

## insertObjects

Inserts a specified sObject or list of sObjects.

## updateObjects

Updates a specified sObject or list of sObjects.

## upsertObjects

Upserts a specified sObject or list of sObjects.

# ccrz.ccLogic.process

Accepts the input map specified for a B2B Commerce for Visualforce global API method, and passes the map to the ccrz.ccLogic.processInput method. Specific logic service provider class methods that override this base method often call into other business logic from process.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs

This method accepts a Map<String, Object> of the input data for a B2B Commerce for Visualforce global API method. The specific keys included in the map depend on which global API method called the logic service provider.

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogic.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs

This method accepts a Map<String, Object> of the input data for a B2B Commerce for Visualforce global API method. The specific keys included in the map depend on which global API method called the logic service provider.

## Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

#### errorMessages

Map<String, Object> that contains any keys that the B2B Commerce for Visualforce global API method requires but that weren't included in the original input data. For example, several global API methods require one or more record IDs in the input data.

If any required keys are missing, the method returns a ccrz.ccApi.MissingInputException.

# ccrz.ccLogic.refetch

Executes a follow-up fetch operation for data that was previously fetched, when appropriate. For example, if you're programmatically modifying cart data, maybe you want to return the updated cart records within the same API transaction.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs

This method accepts a Map<String, Object>, which is a working map that contains the data copied from the original input map. The working map can also include the following keys:

## ccrz.ccApi.SZ\_REFETCH

Boolean

Value	Usage
true (default)	Check the value of the ccrz.ccApi.SZ_REFETCH key in the original input data, and execute the refetch operation if ccrz.ccApi.SZ_REFETCH => true. A useful function for checking this value is:
	<pre>ccrz.ccApi.lookUpSz(Map<string, object=""> inputData, String entityName, String refetchKey)</string,></pre>
For example, to check the value of the ccrz.ccApi.SZ_REFETCH named cartFetchQuery for cart data:	For example, to check the value of the ccrz.ccApi.SZ_REFETCH key in an input map named cartFetchQuery for cart data:
	<pre>ccrz.ccApi.lookUpSz(Map<string, object=""> cartFetchQuery, ccrz.ccApiCart.ENTITYNAME, ccrz.ccApi.SZ_REFETCH)</string,></pre>
false	Ignore the value of the ccrz.ccApi.SZ_REFETCH key in the original input data.

## Outputs

This method returns a Map<String, Object> of the refetched data. The specific keys returned depend on which global API method is requesting the refetch operation.

SEE ALSO:

Sizing and Scoping Options for a B2B Commerce for Visualforce API Method Call

# ccrz.ccLogic.prepReturn

Removes intermediate keys added to the working map by other logic methods, and returns the final data queried by the B2B Commerce for Visualforce global API method.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs

This method accepts a Map<String, Object>, which is a working map that contains the data copied from the original input map. The working map also contains any extra keys added by other methods in the logic chain.

## Outputs

This method returns a Map<String, Object>, which is the final data queried by the global API method.

# ccrz.cc Logic.prepare Cache Data

Evaluates and potentially modifies data before caching it.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepareCacheData(Map<String, Object>)
```

## Inputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.CACHE DATA

Map<String, Object> that specifies data to cache for a particular object, such as the category tree or page labels.

### ccrz.ccApi.CACHE INP

Map<String, Object> that contains input data for the cache query.

#### ccrz.ccApi.CACHE KEY

String that specifies a key for the cached data. The ccrz.ccLogic.prepareCacheKey method returns the value for this key.

#### ccrz.ccApi.CACHE TTL

Integer that specifies the number of seconds for the time to live (TTL) for a particular type of cached data, or how long that data remains in the cache. For example, a TTL value of 300 is 300 seconds, or five minutes. When the TTL expires, the data is no longer available in the cache.

## **Outputs**

Map<String, Object> that contains the input data.



## Example: Example

Override the default ccrz.ccLogic.prepareCacheData method so that:

- For a storefront named storefront name 1, avoid caching data.
- For a storefront named storefront name 2, set the TTL to half of its configured value.

```
global virtual override Map<String, Object> prepareCacheData(Map<String, Object>
inputData) {
   if('storefront_name_1'.equals(ccrz.cc_CallContext.storefront)) {
       return null;
    }
   if('storefront name 2'.equals(ccrz.cc CallContext.storefront)) {
       Integer customTTL = (Integer) inputData.get(ccrz.ccApi.CACHE TTL);
       if(null != customTTL) {
```

```
Map<String, Object> cacheDataMap = new Map<String, Object>(inputData);
    cacheDataMap.put(ccrz.ccApi.CACHE_TTL, customTTL/2);
    return cacheDataMap;
}
return inputData;
}
```

SEE ALSO:

Salesforce Help Improve Storefront Performance with Platform Cache

# ccrz.ccLogic.prepareCacheKey

Generates a key for a particular type of cached data, such as category tree or page labels. This method returns a Map<String, Object> that contains fields that ensure that repeated calls always return the same set of data. The exact keys depend on the specific logic service provider that invokes this method.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepareCacheKey(Map<String, Object>)
```

## Inputs

Map<String, Object> that contains all the keys passed to the specific logic service provider method that invokes this method. For example, when the ccrz.ccLogicCategoryGetTree.getTree method invokes this method, the input Map<String, Object> contains all the keys that ccrz.ccLogicCategoryGetTree.getTree requires, including ccrz.ccApiCategory.CATEGORYLOCALE and ccrz.ccApiCategory.STOREFRONT.

## **Outputs**

Map<String, Object> that contains the following key:

#### ccrz.ccApi.CACHE KEYMAP

Map<String, Object> that uniquely identifies the requested cache data and ensures that repeated calls always return the same set of data.



Note: When this value is null or empty, the underlying data service provider class doesn't use platform cache.



## Example: Example

Override the default ccrz.ccLogic.prepareCacheKey method and add an entry to ccrz.ccApi.CACHE KEYMAP. This entry makes the cache key unique for only the current day (GMT) so that requests to the same cache after midnight must use a new key.

```
global virtual override Map<String, Object> prepareCacheKey(Map<String, Object>
inputData) {
   Map<String, Object> defaultCacheKey = super.prepareCacheKey(inputData);
   Map<String, Object> cacheKeyMap = (Map<String,
Object>defaultCacheKey.get(ccrz.ccApi.CACHE KEYMAP);
    if(ccrz.ccUtil.isNotEmpty(cacheKeyMap)) {
        cacheKeyMap.put('keyDate', Datetime.now().dayOfYearGmt());
    return cacheKeyMap;
```

SEE ALSO:

Salesforce Help Improve Storefront Performance with Platform Cache

# ccrz.ccLogic.deleteObjects

Deletes a specified sObject or list of sObjects.

## Compatibility

This utility method is available *only* in the following versions of the managed package:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11



Warning: Be careful when invoking this method in subscriber code that extends or overrides the ccrz.cclogic base class. This method executes destructive changes to your org's data.

## Signature

```
global static void deleteObjects(sObject)
global static void deleteObjects(List<sObject>)
```

## Inputs

This method can accept either of the following parameters:

## objectToDelete

sObject to delete.

#### objectsToDelete

List<sObject> to delete. Each sObject in the list must be the same type, such as ccrz E Cart c.



**Note**: When executed in the context of a guest user, this method executes without sharing and can only modify records owned by default guest user record owner. The default guest user record owner is an Experience Cloud site user that you designate when you resolve security alerts to keep your storefront secure by default.

## Outputs

This method doesn't return any data.

SEE ALSO:

Salesforce Help Resolve Guest User Security Alerts to Keep Your Storefronts Secure by Default Salesforce Help Create a Default Owner for Records Created by a Storefront Guest User

# ccrz.ccLogic.insertObjects

Inserts a specified sObject or list of sObjects.

## Compatibility

This utility method is available *only* in the following versions of the managed package:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11



Warning: Be careful when invoking this method in subscriber code that extends or overrides the ccrz.ccLogic base class. This method executes destructive changes to your org's data.

## Signature

global static void insertObjects(sObject)
global static void insertObjects(List<sObject>)

## Inputs

This method can accept either of the following parameters:

#### objectToInsert

sObject to insert.

### objectsToInsert

List<sObject> to insert. Each sObject in the list must be the same type, such as ccrz E Cart c.



**Note:** When executed in the context of a guest user, this method executes without sharing and can only modify records owned by default guest user record owner. The default guest user record owner is an Experience Cloud site user that you designate when you resolve security alerts to keep your storefront secure by default.

## Outputs

This method doesn't return any data.

#### SEE ALSO:

Salesforce Help Resolve Guest User Security Alerts to Keep Your Storefronts Secure by Default Salesforce Help Create a Default Owner for Records Created by a Storefront Guest User

# ccrz.ccLogic.updateObjects

Updates a specified sObject or list of sObjects.

## Compatibility

This utility method is available *only* in the following versions of the managed package:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11



Warning: Be careful when invoking this method in subscriber code that extends or overrides the ccrz.ccLogic base class. This method executes destructive changes to your org's data.

## **Signature**

global static void updateObjects(sObject)
global static void updateObjects(List<sObject>)

## Inputs

This method can accept either of the following parameters:

#### objectToUpdate

sObject to update.

## objectsToUpdate

List<sObject> to update. Each sObject in the list must be the same type, such as ccrz E Cart c.



Note: When executed in the context of a guest user, this method executes without sharing and can only modify records owned by default guest user record owner. The default guest user record owner is an Experience Cloud site user that you designate when you resolve security alerts to keep your storefront secure by default.

## Outputs

This method doesn't return any data.

#### SEE ALSO:

Salesforce Help Resolve Guest User Security Alerts to Keep Your Storefronts Secure by Default Salesforce Help Create a Default Owner for Records Created by a Storefront Guest User

# ccrz.ccLogic.upsertObjects

Upserts a specified sObject or list of sObjects.

## Compatibility

This utility method is available *only* in the following versions of the managed package:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11



Warning: Be careful when invoking this method in subscriber code that extends or overrides the ccrz.cclogic base class. This method executes destructive changes to your org's data.

## **Signature**

global static void upsertObjects(sObject) global static void upsertObjects(List<sObject>)

## Inputs

This method can accept either of the following parameters:

#### objectToUpsert

sObject to upsert.

#### objectsToUpsert

List<sObject> to upsert. Each sObject in the list must be the same type, such as ccrz E Cart c.



Note: When executed in the context of a guest user, this method executes without sharing and can only modify records owned by default guest user record owner. The default guest user record owner is an Experience Cloud site user that you designate when you resolve security alerts to keep your storefront secure by default.

## Outputs

This method doesn't return any data.

SEE ALSO:

Salesforce Help Resolve Guest User Security Alerts to Keep Your Storefronts Secure by Default Salesforce Help Create a Default Owner for Records Created by a Storefront Guest User

# ccrz.ccLogicAccountCreateAccount

Define the business logic for creating an account record from the fields and values that you specify.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiAccount.createAccount

# Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

## processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

## getOwnerAccount

Calls the ccrz.ccApiAccount.fetch method for returning the storefront's portal account, which becomes the parent account for the new account. By default, the portal account is the owner of a new account when a buyer self-registers on your storefront.

## processAccount

Constructs an account sObject from the input values.

## createAccount

Executes the DML insert operation on the account record to create.

#### refetch

Call the ccrz.ccApiAccount.fetch method for fetching the created account.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicAccountCreateAccount.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiAccount.createAccount method.

## Logic Performed

This method invokes other methods of the ccrz.cclogicAccountCreateAccount class in the following order:

- 1. processInput
- 2. getOwnerAccount
- 3. processAccount
- 4. createAccount
- 5. refetch
- 6. prepReturn

## Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicAccountCreateAccount.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicAccountCreateAccount.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiAccount.ACCOUNT NEW

List<String> that specifies fields and values for creating the account record.

## Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

## ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

 $The \verb|ccrz.ccLogicAccountCreateAccount.prepReturn| method| removes| this intermediate| key| from the working| map.$ 

#### SEE ALSO:

Account (B2B Commerce for Visualforce)

# ccrz.ccLogicAccountCreateAccount.getOwnerAccount

Calls the ccrz.ccApiAccount.fetch method for returning the storefront's portal account, which becomes the parent account for the new account. By default, the portal account is the owner of a new account when a buyer self-registers on your storefront.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> getOwnerAccount(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicAccountCreateAccount.processInput method completes.

## Logic Performed

This method completes the following actions:

- Passes the value of the ccrz\_\_Customer\_Portal\_Account\_Name\_\_c field from ccrz.cc\_CallContext.storefrontSettings as the ccrz.ccApiAccount.NAME input for ccrz.ccApiAccount.fetch.
- 2. Parses the ccrz.ccApiAccount.fetch output for the portal account and corresponding account group.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

## ccrz.ccLogicAccountCreateAccount.AG

String that specifies the Salesforce ID of the account group for the storefront's portal account.

## ${\tt ccrz.ccLogicAccountCreateAccount.OWNER\_ACCOUNT}$

Account that represents the storefront's portal account.

SEE ALSO:

ccrz.ccApiAccount.fetch

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

Salesforce Help Change Your Storefront's Portal Account Group

# ccrz.ccLogicAccountCreateAccount.processAccount

Constructs an account sObject from the input values.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processAccount(Map<String, Object>)

## Inputs (Required)

 $This method accepts the \verb|Map| < String|, | Object| > after the \verb|ccrz.ccLogicAccountCreateAccount.getOwnerAccount| method completes.$ 

This method requires the following keys in the working map:

## ccrz.ccApiAccount.ACCOUNT NEW

List<String> that specifies fields and values for creating the account record. Only certain account fields are writable when creating the record:

Field	Required?	Туре
billingAddress	Required	Map <string, object=""> (see the following table)</string,>
companyName	Optional	String
customField1	Optional	String

Field	Required?	Туре
customField2	Optional	String
firstName	Required	String
lastName	Required	String
primaryPhone	Required	String
shippingAddress	Required	Map <string, object=""> (see the following table)</string,>
taxExemptFlag	Required	Boolean
userName	Required	String

The billingAddress and shippingAddress maps can contain the following writable fields:

Field	Required?	Туре
address1	Required	String
address2	Optional	String
city	Required	String
country	Required	String
countryCode	Optional	String
postalCode	Required	String
state	Required	String
stateCode	Optional	String

## ccrz.ccLogicAccountCreateAccount.AG

String that specifies the Salesforce ID of the account group for the storefront's portal account.

## ccrz.ccLogicAccountCreateAccount.OWNER ACCOUNT

Account that represents the storefront's portal account.

# Logic Performed

This method sets the following fields on the account sObject based on the input data:

Account Field	Input Data
ccrzAccountGroupc	ccrz.ccLogicAccountCreateAccount.AG
BillingAddress	billingAddress field of ccrz.ccApiAccount.ACCOUNT_NEW

Account Field	Input Data
ccrzCustomField1c	customField1 field of ccrz.ccApiAccount.ACCOUNT_NEW
ccrzCustomField2c	customField2 field of ccrz.ccApiAccount.ACCOUNT_NEW
Description	userName field of ccrz.ccApiAccount.ACCOUNT_NEW
Ownerld	ccrz.ccLogicAccountCreateAccount.OWNER_ACCOUNT
Name	<ol> <li>If specified, companyName field of ccrz.ccApiAccount.ACCOUNT_NEW</li> <li>Otherwise, a concatenation of firstName and lastName fields of ccrz.ccApiAccount.ACCOUNT_NEW</li> </ol>
Phone	<pre>primaryPhone field of ccrz.ccApiAccount.ACCOUNT_NEW</pre>
ShippingAddress	shippingAddress field of ccrz.ccApiAccount.ACCOUNT_NEW
ccrzTaxExemptAccountc	taxExempt field of ccrz.ccApiAccount.ACCOUNT_NEW
ccrzUsedByCloudcrazec	true

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

## ccrz.ccApiAccount.ACCOUNT NEW

Account that represents the constructed account sObject.

SEE ALSO:

Account (B2B Commerce for Visualforce)

# ccrz.ccLogicAccountCreateAccount.createAccount

Executes the DML insert operation on the account record to create.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> createAccount(Map<String, Object>)

## Inputs (Required)

 $This method \, accepts \, the \, \texttt{Map}{<} \texttt{String, Object}{>} \, after the \, \texttt{ccrz.ccLogicAccountCreateAccount.processAccount} \\ method \, completes.$ 

This method requires the following key in the working map:

## ccrz.ccApiAccount.ACCOUNT NEW

Account that represents the account sObject to insert.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogicAccountCreateAccount.refetch

Call the ccrz.ccApiAccount.fetch method for fetching the created account.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicAccountCreateAccount.createAccount method completes.

This method requires the following keys in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAccount.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Mote: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### ccrz.ccApiAccount.ACCOUNT NEW

Account that represents the created account sObject.

## Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiAccount.fetch outputs.

SEE ALSO:

ccrz.ccApiAccount.fetch

# ccrz.ccLogicAccountCreateAccount.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

 $This \, method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, after \, the \, \texttt{ccrz.ccLogicAccountCreateAccount.refetch} \, method \, completes.$ 

## Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApi.SIZING
- ccrz.ccLogic.ORIGINAL\_INPUT
- ccrz.ccLogicAccountCreateAccount.AG
- ccrz.ccLogicAccountCreateAccount.OWNER ACCOUNT

# ccrz.ccLogicAccountGetAnonymous

Define the business logic for returning the account associated with the storefront guest user.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiAccount.getAnonymous

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method calls the ccrz.ccApiAccount.fetch method for returning the storefront's guest user account, and stores the account data in platform cache.

# ccrz.ccLogicAccountGetAnonymous.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method calls the ccrz.ccApiAccount.fetch method for returning the storefront's guest user account, and stores the account data in platform cache.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiAccount.getAnonymous method.

This method requires the following key in the input data:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the query.

## **Logic Performed**

This method completes the following actions:

- 1. Invokes the ccrz.ccLogic.pullFromCache public utility method, which calls ccrz.ccLogic.prepareCacheKey. This method references the value of the Anonymous Account Cache TTL configuration of the Platform Cache module (cache.anonacctttl) in your storefront configuration settings.
- 2. Passes input data to the ccrz.ccApiAccount.fetch method, where the ccrz.ccApiAccount.NAME input key references the value of the Anonymous Account Name global setting. By default, this anonymous account name is CCAnonymous.
- 3. Calls a public override of the ccrz.ccLogic.prepareCacheData method.
- **4.** Calls the ccrz.ccLogic.pushIntoCache public utility method for inserting the cached anonymous account information.

## Outputs

Map<String, Object> that includes the ccrz.ccApiAccount.ACCOUNTS output from ccrz.ccApiAccount.fetch.

#### SEE ALSO:

ccrz.ccApiAccount.fetch

Salesforce Help: Allow a B2B Commerce for Visualforce Guest Buyer to Browse Your Storefront

Salesforce Help Improve Storefront Performance with Platform Cache

# ccrz.ccLogicAccountGetCurrent

Define the business logic for returning the account associated with the user currently logged in to the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiAccount.getCurrent

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method calls the ccrz.ccApiAccount.fetch method for returning the current storefront user's account.

# ccrz.ccLogicAccountGetCurrent.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method calls the ccrz.ccApiAccount.fetch method for returning the current storefront user's account.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiAccount.getCurrent method.

This method requires the following key in the input data:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

The input map can also include the following keys:

## ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

## Logic Performed

This method completes the following actions:

- 1. If the current user is a quest, this method invokes ccrz.ccApiAccount.getAnonymous for returning the quest user's account information.
- 2. Otherwise, this method passes input data to the ccrz.ccApiAccount.fetch method, where the ccrz.ccApiAccount.NAME input key references ccrz.cc CallContext.currUser.accountId.

## Outputs

Map<String, Object> that includes the ccrz.ccApiAccount.ACCOUNTS output from ccrz.ccApiAccount.fetch.

SEE ALSO:

ccrz.ccApiAccount.fetch

ccrz.ccApiAccount.getAnonymous

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz.ccLogicAccountValidateNew

Define the business logic for checking new account records for missing fields.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiAccount.validateNew

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method checks that a new account record defines required fields, and returns an error message specific to each missing field.

# ccrz.ccLogicAccountValidateNew.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method checks that a new account record defines required fields, and returns an error message specific to each missing field.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiAccount.validateNew method.

This method requires the following keys in the input data:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiAccount.ACCOUNT NEW

List<String> that specifies required fields and values for a created account record.

Field	Туре
billingAddress	Map <string, object=""> (see the following table)</string,>
companyName	String
companyType	String
currencyCode	String
firstName	String
lastName	String
language	String
primaryPhone	String
shippingAddress	Map <string, object=""> (see the following table)</string,>
userName	String

The billingAddress and shippingAddress maps contain the following required fields:

Field	Required?	Туре
address1	Required	String
city	Required	String
postalCode	Required	String

# Logic Performed

This method completes the following actions:

1. Checks for each required field. If a required field is missing, this method returns a ccrz.cc bean Message error message specific to the missing field.

- 2. Calls ccrz.ccApiUser.fetch, where the ccrz.ccApiUser.USER\_NAME input key is the value of userName from ccrz.ccApiAccount.ACCOUNT NEW, to verify that the user exists.
- **3.** Checks the value of the Redirect To Login configuration of the User Profile (Registration) module (ur.dirlogin) in your storefront's configuration settings. When that configuration's value is null, this method verifies the user's password for logging in to the storefront.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### SEE ALSO:

Account (B2B Commerce for Visualforce)

ccrz.ccApiUser.fetch

Salesforce Help: Account, Contact, and User Information for B2B Commerce for Visualforce Buyers

# ccrz.ccLogicAddressCreateAddress

Define the business logic for creating a contact address record from the fields and values that you specify. On the storefront, this logic service provider is invoked by default when a buyer enters new address information during line-level independence (LLI) checkout flow.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiAddress.createAddress

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### processAddress

Constructs a ccrz E ContactAddr c sObject from the input values.

#### createAddress

Executes the DML insert operation on the contact address records to create, and sets Salesforce IDs on the records.

#### refetch

Call the ccrz.ccApiAddress.fetch method for fetching the created contact addresses.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### SEE ALSO:

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers
Salesforce Help Standard Checkout versus Line-Level Independence (LLI) Checkout
Salesforce Help Specify Whether a Buyer Can Modify Addresses on the Checkout Page

# ccrz.ccLogicAddressCreateAddress.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiAddress.createAddress method.

# Logic Performed

This method invokes other methods of the ccrz.cclogicAddressCreateAddress class in the following order:

- 1. processInput
- 2. processAddress
- 3. createAddress
- 4. refetch
- 5. prepReturn

# Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicAddressCreateAddress.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicAddressCreateAddress.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to use for creating a contact address record.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicAddressCreateAddress.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicAddressCreateAddress.processAddress

 ${\tt Constructs\,a\,ccrz\_E\_ContactAddr\_c\,sObject\,from\,the\,input\,values}.$ 

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processAddress(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicAddressCreateAddress.processInput method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to use for creating a contact address record.

#### ccrz.ccService.TRANSFORMINDEX

Map<String, Object> that the ccrz.ccServiceCart data service provider generates for defining how the fields in a map convert to sObject data.

## Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApi.SKIP OWNERID

Boolean

Value	Usage
true	Set the Owner field on the new sObject to a default value.
false (default)	Set the Owner field on the new sObject to the value of ccrz.cc_CallContext.currUserId.

# Logic Performed

This method completes the following actions:

- 1. For each address represented in ccrz.ccApiAddress.ADDRESSLIST, this method evaluates ccrz.ccService.TRANSFORMINDEX and serializes the input data to a ccrz\_E\_ContactAddr\_c sObject.
- 2. Evaluates ccrz.ccApi.SKIP OWNERID for setting the Owner field on each ccrz E ContactAddr c sObject.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiAddress.ADDR TO INSERT

List<ccrz E ContactAddr c> of the contact address sObject data to insert.

SEE ALSO:

ccrz E ContactAddr c

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers

# ccrz.ccLogicAddressCreateAddress.createAddress

Executes the DML insert operation on the contact address records to create, and sets Salesforce IDs on the records.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> createAddress(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicAddressCreateAddress.processAddress method completes.

This method requires the following key in the working map:

### ccrz.ccApiAddress.ADDR TO INSERT

List<ccrz E ContactAddr c> of the contact address sObject data to insert.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiAddress.ADDRESSIDLIST

List<String> of Salesforce IDs of the created contact address records.

### ccrz.ccApiAddress.ADDR TO INSERT

List<ccrz E ContactAddr c> of the inserted contact address sObject records with Salesforce IDs set.

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogic Address Create Address.refetch

Call the ccrz.ccApiAddress.fetch method for fetching the created contact addresses.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

# Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicAddressCreateAddress.createAddress method completes.

This method requires the following keys in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

#### ccrz.ccApiAddress.ADDR TO INSERT

List<ccrz E ContactAddr c> of the inserted contact address sObject records with Salesforce IDs set.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiAddress.fetch outputs.

SEE ALSO:

ccrz.ccApiAddress.fetch

# ccrz.ccLogicAddressCreateAddress.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

# Inputs (Required)

 $This \, method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, after the \, \texttt{ccrz.ccLogicAddressCreateAddress.refetch} \, method \, completes.$ 

## Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApi.SIZING
- ccrz.ccApi.SKIP OWNERID
- ccrz.ccApiAddress.ADDR TO INSERT
- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccService.TRANSFORMINDEX

# ccrz.ccLogicAddressBookCreateAddressBook

Define the business logic for creating an account address book record from the fields and values that you specify.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiAddressBook.createAddressBook

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### processAddressBook

Constructs a ccrz\_E\_AccountAddressBook\_c sObject from the input values.

#### createAddressBook

Executes the DML insert operation on the account address book records to create, and sets Salesforce IDs on the records.

#### refetch

Calls the ccrz.ccApiAddressBook.fetch method for fetching the created account address books.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers

# ccrz.ccLogicAddressBookCreateAddressBook.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiAddressBook.createAddressBook method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicAddressBookCreateAddressBook class in the following order:

- 1. processInput
- 2. processAddressBook
- 3. createAddressBook
- 4. refetch
- 5. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicAddressBookCreateAddressBook.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processInput(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicAddressBookCreateAddressBook.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to use for creating an account address book record.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicAddressBookCreateAddressBook.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogic Address Book Create Address Book.process Address Book

Constructs a ccrz E AccountAddressBook c sObject from the input values.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processAddressBook(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicAddressBookCreateAddressBook.processInput method completes.

This method requires the following keys in the working map:

### ccrz.ccApiAddressBook.ADDRESSBOOKS

List<Map<String, Object>>, where each Map<String, Object> contains the fields and values to use for creating an account address book record.

#### ccrz.ccService.TRANSFORMINDEX

Map<String, Object> that the ccrz.ccServiceCart data service provider generates for defining how the fields in a map convert to sObject data.

## Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApi.SKIP OWNERID

Boolean

Value	Usage
true	Set the Owner field on the new sObject to a default value.
false (default)	Set the Owner field on the new sObject to the value of ccrz.cc_CallContext.currUserId.

# Logic Performed

This method completes the following actions:

- 1. For each address book represented in ccrz.ccApiAddressBook.ADDRESSBOOKS, this method evaluates ccrz.ccService.TRANSFORMINDEX and serializes the input data to a ccrz\_E\_AccountAddressBook\_c sObject.
- 2. Evaluates ccrz.ccApi.SKIP\_OWNERID for setting the Owner field on each ccrz\_\_E\_AccountAddressBook\_\_c sObject.

# Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiAddressBook.AB\_TO\_INSERT

List<ccrz E AccountAddressBook c> of the account address book sObject data to insert.

SEE ALSO:

ccrz\_\_E\_AccountAddressBook\_\_c

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers

# ccrz.ccLogicAddressBookCreateAddressBook.createAddressBook

Executes the DML insert operation on the account address book records to create, and sets Salesforce IDs on the records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> createAddressBook(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the

 $\verb|ccrz.ccLogicAddressBookCreateAddressBook.processAddressBook method completes.|$ 

This method requires the following key in the working map:

#### ccrz.ccApiAddressBook.AB TO INSERT

List<ccrz E AccountAddressBook c> of the account address book sObject data to insert.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiAddressBook.AB\_TO\_INSERT

List<ccrz\_E\_AccountAddressBook\_\_c> of the inserted account address book sObject records with Salesforce IDs set.

#### SEE ALSO:

ccrz\_E\_AccountAddressBook\_\_c
Inserting and Updating Records

# ccrz.ccLogicAddressBookCreateAddressBook.refetch

Calls the ccrz.ccApiAddressBook.fetch method for fetching the created account address books.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicAddressBookCreateAddressBook.createAddressBook method completes.

This method requires the following keys in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddressBook.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Mote: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### ccrz.ccApiAddressBook.AB\_TO\_INSERT

List<ccrz\_E\_AccountAddressBook\_\_c> of the inserted account address book sObject records with Salesforce IDs set.

## Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiAddressBook.fetch outputs.

SEE ALSO:

ccrz.ccApiAddressBook.fetch

# ccrz.ccLogicAddressBookCreateAddressBook.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicAddressBookCreateAddressBook.refetch method completes.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApi.SIZING
- ccrz.ccApi.SKIP OWNERID
- ccrz.ccApiAddressBook.AB TO INSERT
- ccrz.ccLogic.ORIGINAL\_INPUT

ccrz.ccService.TRANSFORMINDEX

# ccrz.ccLogicAddressBookRemoveAddressBook

Define the business logic for deleting account address book records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiAddressBook.removeAddressBook

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

## process Input

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### fetch Address Book

Calls the ccrz.ccApiAddressBook.fetch method to return the account address book records that you want to delete.

#### removeAddressBook

Executes the DML delete operation for the account address book records.

#### prepReturr

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

Salesforce Help Account Address Books and Contact Addresses for B2B Commerce for Visualforce Buyers

# ccrz.ccLogicAddressBookRemoveAddressBook.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiAddressBook.removeAddressBook method.

# Logic Performed

This method invokes other methods of the ccrz.ccLoqicAddressBookRemoveAddressBook class in the following order:

- 1. processInput
- 2. fetchAddressBook
- 3. removeAddressBook
- 4. prepReturn

## Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicAddressBookRemoveAddressBook.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicAddressBookRemoveAddressBook.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### ccrz.ccApiAddressBook.IDS

List<String> of Salesforce IDs of the account address book records to delete.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicAddressBookRemoveAddressBook.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicAddressBookRemoveAddressBook.fetchAddressBook

Calls the ccrz.ccApiAddressBook.fetch method to return the account address book records that you want to delete.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> fetchAddressBook(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicAddressBookRemoveAddressBook.processInput method completes.

This method requires the following key in the working map:

### ccrz.ccApiAddressBook.IDS

List<String> of Salesforce IDs of the account address book records to delete.

# Logic Performed

This method completes the following actions:

1. Passes ccrz.ccApiAddressBook.IDS to ccrz.ccApiAddressBook.fetch. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddressBook.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XS,
        ccrz.ccApi.SZ_SKIPTRZ => true
    }
}
```

2. Parses the ccrz.ccApiAddressBook.fetch return data for the returned account address books.

# Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiAddressBook.AB TO REMOVE

List<ccrz E AccountAddressBook c> of the account address book records to delete.

SEE ALSO:

ccrz.ccApiAddressBook.fetch

# ccrz.ccLogicAddressBookRemoveAddressBook.removeAddressBook

Executes the DML delete operation for the account address book records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> removeAddressBook(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicAddressBookRemoveAddressBook.fetchAddressBook method completes.

This method requires the following key in the working map:

### ccrz.ccApiAddressBook.AB TO REMOVE

List<ccrz E AccountAddressBook c> of the account address book records to delete.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

**Deleting Records** 

# ccrz.ccLogicAddressBookRemoveAddressBook.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the

 $\verb|ccrz.ccLogicAddressBookRemoveAddressBook.removeAddressBook method completes.|$ 

# Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApi.SIZING
- ccrz.ccApiAddressBook.AB\_TO\_REMOVE
- ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicAttrFetch

Define the business logic for filtering ccrz E Attribute c records returned from the ccrz.ccApiAttribute.fetch method's SOQL query. This class also defines whether ccrz E Attribute c return data is keyed by ccrz AttributeID c or Salesforce ID.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicAttrFetch



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiAttribute.fetch

# ccrz.ccLogicCartAddTo

Define the business logic for adding products to a cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiCart.addTo

### Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInputData

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### fetchCart

Calls the ccrz.ccApiCart.fetch method with ccrz.ccApi.SZ\_XL data sizing for fetching the active cart to add products to.

### addCouponCode

Calls the ccrz.ccApiCoupon.apply method for applying a coupon code to the cart.

#### addMajorLineItems

Reads the input line data for specifying the cart's major line items, such as standard products or composite products.

#### addMinorLineItems

Reads the input line data for specifying the cart's minor line items, such as component products.

#### add Current Line Data To Cart

Calls other inner, non-overridable methods that sanitize and update the line data for adding cart items.

#### addCartLinesToltems

Loops through ccrz.ccApiCart.WORKING LINE DATAS and creates cart items.

#### preplterationData

Begins the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by evaluating the product information for the current line item.

#### setCartItemFields

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by setting values on the current line item's ccrz E CartItem c record.

#### handlePricing

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by calling the appropriate inner method for pricing the current line item based on its product type.

#### priceBasicProductItem

Sets a price for a major cart item that's a standard product or an assembly product.

#### priceBundleItem

Sets a price for a major cart item that's a bundle product.

#### priceKitltem

Sets the price for a major cart item that's a kit or dynamic kit to 0.00. The buyer's entitled price for a kit or dynamic kit depends on the prices of its individual component products.

#### applyTieredPricing

Applies a tier-based pricing adjustment, if applicable, to a major cart item.

#### priceAttributeProductItem

Sets a price for a major cart item that's an attribute-based product.

#### priceExternalItem

Sets an externally defined price for a major cart item.

#### validateltem

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by returning exceptions for an invalid major cart item.

#### setSubAmount

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by setting the subtotal price for the total quantity of a major cart item.

#### concludeItemAdd

Completes the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by finalizing fields and relationships on the cart item.

#### upsertCartItems

Executes the DML upsert operation for the created cart item records, which assigns IDs to each record.

#### concludeAddTo

Returns final data keys, resets the cart's validation status, and optionally reprices and refetches cart records.

# ccrz.ccLogicCartAddTo.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.addTo method.

### **Logic Performed**

This method invokes other methods of the ccrz.ccLogicCartAddTo class in the following order:

- 1. processInputData
- 2. fetchCart
- 3. addCouponCode
- 4. addMajorLineItems, which calls into addCurrentLineDataToCart
- 5. addMinorLineItems, which calls into addCurrentLineDataToCart
- 6. addCurrentLineDataToCart, which calls into addCartLinesToItems
- 7. addCartLinesToItems, which executes a For loop that calls into the following methods for each item:

- a. prepIterationData
- **b.** setCartItemFields
- **c.** handlePricing, which calls the appropriate inner method for pricing the current line item based on its product type:
  - priceBasicProductItem
  - priceBundleItem
  - priceKitItem
  - priceDynamicKitItem, which calls back into priceKitItem
  - applyTieredPricing
  - priceAttributeProductItem
  - priceExternalItem
- **d.** validateItem
- e. setSubAmount
- f. concludeItemAdd
- 8. upsertCartItems
- 9. concludeAddTo

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. The method adds the following intermediate key to this map:

### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.cc Logic Cart Add To.process Input Data

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processInputData(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartAddTo.process method.

This method checks whether the input map specifies any of the following keys, which determine this method's output keys and affect other downstream logic methods.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of an existing cart record to add products to.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of an existing cart record to add products to.

### ccrz.ccApiCart.COUPON CODE

String that specifies a coupon code to apply to the cart.

#### ccrz.ccApiCart.ISREPRICE

Boolean

Value	Usage
true	Reprice the cart after the items are added.
	Note: This operation can be expensive, depending on the complexity of your cart data, but ensures that prices are current and entitlement is correct.
false (default)	Don't reprice cart items.

#### ccrz.ccApiCart.ISSKIPPRICING

Boolean

Value	Usage
true	Call the ccrz.ccLogicProductPricing class for pricing the products you're adding to the cart.
false (default)	Ignore pricing information for the products you're adding to the cart.

### ccrz.ccApiCart.LINE DATA

List<Map<String, Object>>, where each Map<String, Object> describes a ccrz\_\_E\_CartItem\_\_crecord to create. For information about this list's keys and requirements, see Inputs for Cart Line Data.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key. This method instantiates the following keys with initially empty values, which subsequent methods populate:

### ccrz.ccApiCart.INCRERROR

Map<String, Decimal>

### ccrz.ccApiCart.INCRWARN

Map<String, Decimal>

#### ccrz.ccApiCart.INELIGIBLEPRODUCTS

List<String>

#### ccrz.ccApiCart.NONSTDPRODUCTS

List<String>

### ccrz.ccApiCart.PRODSADDEDTOCART

Map<ccrz E CartItem c, String>

### ccrz.ccApiCart.HAS COUPON CODE

Boolean

Value	Usage
true	The input map specified ccrz.ccApiCart.COUPON_CODE.
false	The input map didn't specify ccrz.ccApiCart.COUPON_CODE.

### ccrz.ccApiCart.HAS\_ID

Boolean

Value	Usage
true	The input map specified either ccrz.ccApiCart.CART_ID or ccrz.ccApiCart.CART_ENCID.
false	The input map didn't specify a cart ID.

### ccrz.ccApiCart.HAS\_LINE\_DATA

Boolean

Value	Usage	
true	The input map specified ccrz.ccApiCart.LINE_DATA.	
false	The input map didn't specify ccrz.ccApiCart.LINE_DATA.	

### ccrz.ccApiCart.IS\_ADD\_SEPARATE

Boolean

Value	Usage	
true	The Add Line Items Separately configuration of the Quick Order module is TRUE.	
false	The Add Line Items Separately configuration of the Quick Order module is FALSE.	

(I) Important: If the input map specifies ccrz.ccApiCart.COUPON\_CODE, make sure that this key evaluates to false. The Add Line Items Separately configuration of the Quick Order module isn't compatible with coupons.

### ccrz.ccApiCart.IS SELLERS ENABLED

Boolean

Value	Usage
true	The Enabled configuration of the Sellers module is TRUE.
false	The Enabled configuration of the Sellers module is FALSE.

### ccrz.ccApiCart.IS\_SKIP\_PRICING

Boolean

Value	Usage
true	The input map set ccrz.ccApiCart.ISSKIPPRICING => true to skip pricing logic.
false	The input map set ccrz.ccApiCart.ISSKIPPRICING => false, or didn't specify a value for ccrz.ccApiCart.ISSKIPPRICING.

### ccrz.ccApiCart.ISREPRICE

Boolean

Value	Usage
true	The input map set ccrz.ccApiCart.ISREPRICE => true.
false	The input map set ccrz.ccApiCart.ISREPRICE => false, or didn't specify a value for ccrz.ccApiCart.ISREPRICE.

### SEE ALSO:

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

# ccrz.ccLogic Cart Add To. fetch Cart

Calls the ccrz.ccApiCart.fetch method with ccrz.ccApi.SZ\_XL data sizing for fetching the active cart to add products to.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> fetchCart(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.processInputData method.

This method evaluates the following values in the working map:

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of an existing cart record to add products to.

# ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of an existing cart record to add products to.

### ccrz.ccApiCart.HAS ID

Boolean

Value	Usage
true	The input map specified either ccrz.ccApiCart.CART_ID or ccrz.ccApiCart.CART_ENCID.
false	The input map didn't specify a cart ID.

### ccrz.ccApiCart.HAS\_LINE\_DATA

Boolean

Value	Usage
true	The input map specified ccrz.ccApiCart.LINE_DATA.
false	The input map didn't specify ccrz.ccApiCart.LINE_DATA.

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

The values of these keys determine how this method executes:

- 1. If ccrz.ccApiCart.HAS\_ID is *true* and ccrz.ccApiCart.HAS\_LINE\_DATA is *true*, the method tries to fetch the specified cart.
- 2. If ccrz.ccApiCart.HAS\_ID is false but ccrz.ccApiCart.HAS\_LINE\_DATA is true, the method tries to fetch the active cart for the current user and storefront, based on ccrz.cc CallContext.
  - Note: In B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), this evaluation results in an exception when the active cart's ccrz\_\_CartStatus\_\_c value is Open. This exception occurs because the cart can currently be subject to pricing, placing an order, or requiring repair.
- 3. Otherwise, if the method can't determine an active cart to add products to, the method calls the ccrz.ccApiCart.create method.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.CARTITEMSBYID

```
Map<String, List<ccrz_E_CartItem_c>> for the fetched ccrz_E_Cart_c.
```

SEE ALSO:

ccrz.ccApiCart.fetch ccrz.ccApiCart.create ccrz.ccApiCart.fetch

# ccrz.ccLogic Cart Add To. add Coupon Code

Calls the ccrz.ccApiCoupon.apply method for applying a coupon code to the cart.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> addCouponCode(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.fetchCart method. This method executes only if the working map includes the following key with a value of true:

### ccrz.ccApiCart.HAS\_COUPON\_CODE

Boolean

Value	Usage
true	The input map specified ccrz.ccApiCart.COUPON_CODE.
false	The input map didn't specify ccrz.ccApiCart.COUPON_CODE.

This method also evaluates the following keys:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

This method passes the ccrz.ccApiCart.COUPON\_CODE and ccrz.ccApiCart.CART\_ENCID keys to the ccrz.ccApiCoupon.apply method.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.ISREPRICE

Boolean that's set to true after the coupon is applied for repricing the cart.

SEE ALSO:

ccrz.ccApiCoupon.apply

# ccrz.ccLogic Cart Add To. add Major Line I tems

Reads the input line data for specifying the cart's major line items, such as standard products or composite products.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> addMajorLineItems(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.addCouponCode method.

This method requires the following key in the working map:

#### ccrz.ccApiCart.LINE DATA

List<Map<String, Object>>, where each Map<String, Object> describes a ccrz\_E\_CartItem\_crecord to create for a major line item. For information about this list's keys and requirements, see Inputs for Cart Line Data.

# Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.WORKING\_LINE\_DATAS

List<Map<String, Object>> of working map line data, initialized with a copy of the input ccrz.ccApiCart.LINE DATA.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

# ccrz.ccLogic Cart Add To. add Minor Line I tems

Reads the input line data for specifying the cart's minor line items, such as component products.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> addMinorLineItems(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.addMajorLineItems method.

This method requires the following key in the working map:

#### ccrz.ccApiCart.MINOR LINE DATAS

List<Map<String, Object>>, where each <Map<String, Object>> contains ccrz.ccApiCart.LINE\_DATA fields for a component product of a composite product. This key is a copy of the ccrz.ccApiCart.LINE DATA MINOR LINE DATAS key from the original input map.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.WORKING\_LINE\_DATAS

List<Map<String, Object>> of working map line data, updated with a copy of the input ccrz.ccApiCart.MINOR LINE DATAS.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

# ccrz.ccLogic Cart Add To. add Current Line Data To Cart

Calls other inner, non-overridable methods that sanitize and update the line data for adding cart items.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> addCurrentLineDataToCart(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.addMajorLineItems or ccrz.ccLogicCartAddTo.addMinorLineItems method.

This method passes the working map through a chain of inner, non-overridable methods that:

- Remove duplicate any line data
- Fetch the product details that correspond to the major and minor line items
- Fetch details for externally priced products
- Evaluate the ccrz.ccApiCart.IS\_ADD\_SEPARATE key for determining whether to combine multiple lines for the same SKU

### Outputs

This method returns the working Map<String, Object> after the inner methods complete.

# ccrz.ccLogicCartAddTo.addCartLinesToltems

Loops through ccrz.ccApiCart.WORKING LINE DATAS and creates cart items.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> addCartLinesToItems(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.addCurrentLineDataToCart method.

This method requires the following key in the working map:

#### ccrz.ccApiCart.WORKING LINE DATAS

This method executes a For loop that over each line item, and invokes inner methods that set values for the corresponding cart item.

1. prepIterationData

- 2. setCartItemFields
- 3. handlePricing
- 4. validateItem
- 5. setSubAmount
- 6. concludeItemAdd

After the For loop completes, this method calls the upsertCartItems method for upserting the final cart item records.

### Outputs

This method returns the working Map<String, Object> after the inner loop methods complete.

For each loop, this method adds the following intermediate key:

### ccrz.ccApiCart.CURR LINE DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

For each loop, this method also removes the following intermediate keys:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponded to the item from the previous loop.

### ccrz.ccApiCart.CURR PRODUCT

Map<String, Object> that describes the ccrz E Product c that corresponded to the item from the previous loop.

# ccrz.ccApiCart.CURR\_PRODUCT\_KEY

String that specifies the product SKU or ID that corresponded to the item from the previous loop.

### ccrz.ccApiCart.CURR\_PRODUCT\_QUANTITY\_RULE\_RESULT

Map<String, Object> that describes the result of the evaluated property quantity rules for the item from the previous loop.

SEE ALSO:

ccrz E Cartltem c

# ccrz.ccLogic Cart Add To.preplteration Data

Begins the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by evaluating the product information for the current line item.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> prepIterationData(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.addCartLinesToItems method.

This method passes the working map through a chain of inner, non-overridable methods that:

- Determines the product that corresponds to the current item
- Determines the current item's product type, and returns exceptions for unsupported product configurations
- Checks for any product quantity rules and returns warnings or errors, if applicable

#### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiCart.CURR CARTITEM
```

 $\verb"ccrz_E_CartItem_c" that corresponds to the current item.$ 

```
ccrz.ccApiCart.CURR PRODUCT
```

Map<String, Object> that describes the ccrz E Product c that corresponds to the current item.

#### ccrz.ccApiCart.CURR PRODUCT QUANTITY RULE RESULT

Map<String, Object> that describes the result of the evaluated property quantity rules.

#### ccrz.ccApiCart.IS PART OF BUNDLE

Boolean

Value	Usage
true	The current item is a component product in a bundle.
false	The current item isn't part of a bundle.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

## ccrz.ccLogic Cart Add To.set Cart Item Fields

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by setting values on the current line item's  $ccrz\_E\_CartItem\_c$  record.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> setCartItemFields(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.prepIterationData method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR LINE DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

### ccrz.ccApiCart.CURR PRODUCT

 $\label{lem:mapsing} \begin{tabular}{ll} Map < String, Object > that describes the $\tt ccrz_EProduct\_c$ that corresponds to the item currently being evaluated within the loop. \\ \end{tabular}$ 

## Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_c record:

ccrz_E_CartItemc Field	Source for Value
ccrzItemLabelc	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_LABEL subkey
ccrzPrimaryAttrc	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_ATTRIBUTE_LIST subkey
ccrzProductc	ccrz.ccApiCart.CURR_PRODUCT inputkey's sfid field
ccrzProductTypec	ccrz.ccApiCart.CURR_PRODUCT input key's productType field
ccrzRequestDatec	Date.today

ccrzE_CartItemc <b>Field</b>	Source for Value
ccrzSecondaryAttrc	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_ATTRIBUTE_LIST subkey
ccrzSelectedAttrc	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_ATTRIBUTE_LIST subkey
ccrzSortNamec  Note: This field is set only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).	ccrz.ccApiCart.CURR_PRODUCT input key's name, in the following order of precedence:  1. Localized name field  2. Immediate name field  3. alternateName field
ccrzStoreIdc	ccrz.cc_CallContext.storefront
ccrzTertiaryAttrc	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_ATTRIBUTE_LIST subkey
ccrzUnitOfMeasurec	ccrz.ccApiCart.CURR_PRODUCT input key's UOM field



Note: For information about the line data parameters, see Inputs for Cart Line Data.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

# ccrz.ccLogic Cart Add To.handle Pricing

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by calling the appropriate inner method for pricing the current line item based on its product type.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> handlePricing(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.setCartItemFields method

This method executes only if the working map includes the following keys, each with a value of false:

### ccrz.ccApiCart.IS\_PART\_OF\_BUNDLE

Boolean

Value	Usage
true	The current item is a component product in a bundle. The bundle's composite product—a major line item in the cart—specifies the bundle's price, so pricing is skipped for this minor line item.
false	The current item isn't part of a bundle.

#### ccrz.ccApiCart.IS SKIP PRICING

Boolean

Value	Usage
true	The input map set ccrz.ccApiCart.ISSKIPPRICING => true to skip pricing logic.
false	The input map set ccrz.ccApiCart.ISSKIPPRICING => false, or didn't specify a value for ccrz.ccApiCart.ISSKIPPRICING.

This method also evaluates the following keys:

## ccrz.ccApiCart.CURR\_CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

## ccrz.ccApiCart.CURR\_LINE\_DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

### Outputs

This method returns the working Map<String, Object> after the appropriate inner pricing method completes.

Product Type	Method
Standard product or assembly	priceBasicProductItem
Bundle	priceBundleItem
Kit	priceKitItem
Dynamic Kit	priceDynamicKitItem,whichcallsintopriceKitItem

Product Type	Method
Aggregated	None, because an aggregated product's composite product price list item is always 0.00.
Tiered pricing	applyTieredPricing
Attribute-based product	priceAttributeProductItem
Externally priced product	priceExternalItem

SEE ALSO:

Salesforce Help Types of Products for B2B Commerce for Visualforce

## ccrz.ccLogic Cart Add To.price Basic Product I tem

Sets a price for a major cart item that's a standard product or an assembly product.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> priceBasicProductItem(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR LINE DATA

 ${\tt Map{<}String,\ Object{>}\ that\ describes\ the\ line\ data\ for\ only\ the\ line\ currently\ being\ evaluated\ within\ the\ loop.}$ 

### ccrz.ccApiCart.CURR\_PRODUCT

Map<String, Object> that describes the ccrz\_E\_Product\_c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.IS SELLERS ENABLED

Boolean

Value	Usage
true	The Enabled configuration of the Sellers module is TRUE.
false	The Enabled configuration of the Sellers module is FALSE.

## ccrz.ccApiCart.PRODUCTS\_PRICING\_DATA

Map<String, Object> of product pricing data, keyed by product ID. The non-overridable ccrz.ccLogicCartAddTo.fetchProducts method added this key to the working map.

## Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_c record:

ccrzE_CartItemc Field	Source for Value
ccrzPricec	The buyer's entitled price for the product.
ccrzRecurringPricec	The recurring subscription price for the product, if applicable.

### SEE ALSO:

Salesforce Help Create a Product for Your Storefront Salesforce Help Create an Assembly Product

## ccrz.ccLogic Cart Add To.price Bundle I tem

Sets a price for a major cart item that's a bundle product.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> priceBundleItem(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz\_E\_CartItem\_c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR PRODUCT

Map<String, Object> that describes the ccrz\_\_E\_Product\_\_c that corresponds to the item currently being evaluated within the loop.

## Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_\_c record:

ccrzE_CartItemc Field	Source for Value
ccrzPricec	The buyer's entitled price for the bundle.
ccrzRecurringPricec	The recurring subscription price for the bundle, if applicable.

SEE ALSO:

Salesforce Help Create a Bundle

## ccrz.ccLogicCartAddTo.priceKitltem

Sets the price for a major cart item that's a kit or dynamic kit to 0.00. The buyer's entitled price for a kit or dynamic kit depends on the prices of its individual component products.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> priceKitItem(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR LINE DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR PRODUCT

Map<String, Object> that describes the ccrz\_\_E\_Product\_\_c that corresponds to the item currently being evaluated within the loop.

## Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_\_c record:

ccrzE_CartItemc Field	Source for Value
ccrzPricec	0.00
ccrzRecurringPricec	0.00

SEE ALSO:

Salesforce Help Create a Kit

## ccrz.ccLogic Cart Add To.apply Tiered Pricing

Applies a tier-based pricing adjustment, if applicable, to a major cart item.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> applyTieredPricing(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR LINE DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR PRODUCT

Map<String, Object> that describes the ccrz\_E\_Product\_c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.PRODUCTS PRICING DATA

Map<String, Object> of product pricing data, keyed by product ID. The non-overridable ccrz.ccLogicCartAddTo.fetchProducts method added this key to the working map.

### Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_\_E\_CartItem\_\_c record:

ccrzE_CartItemc <b>Field</b>	Source for Value	
ccrzPricec	The price evaluated from the product's pricing tiers, based on the quantity of the item in the cart.	

#### SEE ALSO:

Salesforce Help Adjust Product Prices Based on Tiered Quantities

## ccrz.ccLogic Cart Add To.price Attribute Product I tem

Sets a price for a major cart item that's an attribute-based product.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> priceAttributeProductItem(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method.

This method requires the following keys in the working map:

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, ccrz E Attribute c> returned from a ccrz.ccApiAttribute.fetch query.

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR LINE DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR PRODUCT

Map<String, Object> that describes the ccrz\_\_E\_Product\_\_c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.PRODUCTS PRICING DATA

Map<String, Object> of product pricing data, keyed by product ID. The non-overridable ccrz.ccLogicCartAddTo.fetchProducts method added this key to the working map.

### Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_c record:

ccrzE_CartItemc Field	Source for Value
ccrzPricec	The price based on parsing the attribute pricing JSON data.

## ccrz.ccLogic Cart Add To.price External Item

Sets an externally defined price for a major cart item.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> priceExternalItem(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

#### ccrz.ccApiCart.CURR LINE DATA

Map<String, Object> that describes the line data for only the line currently being evaluated within the loop.

From ccrz.ccApiCart.CURR LINE DATA, this method evaluates the following subkeys:

## ccrz.ccApiCart.LINE\_DATA\_EXT\_NAME

String that specifies a value for the ccrz ExtName c field on the created ccrz E CartItem c record.

### ccrz.ccApiCart.LINE\_DATA\_EXT\_SKU

String that specifies a value for the ccrz ExtSKU c field on the created ccrz E CartItem c record.

### ccrz.ccApiCart.LINE\_DATA\_SUBTOTAL

Decimal that specifies a unique subtotal price for the quantity of externally priced products.

## Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_\_c record:

ccrz_E_CartItemc Field	Source for Value
ccrzExtNamec	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_EXT_NAME subkey
ccrz_ExtSKU_c	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_EXT_SKU subkey
ccrzPricec	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_PRICE subkey
ccrzPricingTypec	external
ccrzSubtotalc	ccrz.ccApiCart.CURR_LINE_DATA input key's ccrz.ccApiCart.LINE_DATA_SUBTOTAL subkey

SEE ALSO:

Salesforce Help Set Product Prices in the Cart from an External Source

# ccrz.ccLogic Cart Add To. validate I tem

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by returning exceptions for an invalid major cart item.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> validateItem(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.handlePricing method.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz\_E\_CartItem\_c that corresponds to the item currently being evaluated within the loop.

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

The default implementation of this method returns the following exceptions:

#### ccrz.ccApiCart.NonStandardProductException

The major cart item's Product Type is Aggregated.

#### ccrz.ccApiCart.InvalidProductException

The major cart item's ccrz\_\_Price\_\_c field is null.

## ccrz.ccLogicCartAddTo.setSubAmount

Continues the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by setting the subtotal price for the total quantity of a major cart item.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> setSubAmount(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.validateItem method. This method requires the following key in the working map:

## ccrz.ccApiCart.CURR\_CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

## Outputs

This method returns the working Map<String, Object>, and sets the following fields on the ccrz\_E\_CartItem\_c record:

ccrzE_CartItemc Field	Source for Value
ccrzRecurringPriceSubAmtc	The cart item's recurring subscription price, if applicable, multiplied by the cart item's quantity.
ccrzSubAmountc	The cart item's entitled price multiplied by the cart item's quantity.
CCTZSOrtPricec  Note: This field is set only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12).	For major cart items The cart item's single unit price.  For minor cart items The cart item's single unit price multiplied by the cart item's original quantity.



Note: This method skips seller-based products and externally priced products, which already have a subtotal price specified.

SEE ALSO:

Salesforce Help Create an Aggregated Product

## ccrz.ccLogicCartAddTo.concludeItemAdd

Completes the For loop within the ccrz.ccLogicCartAddTo.addCartLinesToItems method by finalizing fields and relationships on the cart item.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> concludeItemAdd(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.validateItem method. This method requires the following key in the working map:

#### ccrz.ccApiCart.CURR CARTITEM

ccrz E CartItem c that corresponds to the item currently being evaluated within the loop.

This method passes the working map through a chain of inner, non-overridable methods that:

- Set non-writeable fields on the ccrz E CartItem c
- Set the minor cart items for a major cart item that's a kit or bundle, based on the compositeProductsS related list returned from a ccrz.ccApiProduct.fetch query
- Prepares the cart item for upsert

#### Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccApiCart.CARTITEMS_TO_UPSERT
List<crz E CartItem c> of cart items to upsert.
```

## ccrz.ccLogicCartAddTo.upsertCartItems

Executes the DML upsert operation for the created cart item records, which assigns IDs to each record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> upsertCartItems(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.validateItem method. This method requires the following keys in the working map:

```
ccrz.ccApiCart.CARTITEMS_TO_UPSERT
```

List<ccrz E CartItem c> of cart items to upsert.

### ccrz.ccApiCart.HAS\_LINE\_DATA

Boolean

Value	Usage
true	The working map still contains line data that hasn't been evaluated.
false	The working map no longer contains any line data.

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The method upserted all cart items successfully.
false	The call encountered errors.

SEE ALSO:

**Upserting Records** 

## ccrz.ccLogic Cart Add To.conclude Add To

Returns final data keys, resets the cart's validation status, and optionally reprices and refetches cart records.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> concludeAddTo(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartAddTo.upsertCartItems method

This method requires the following key in the working map:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the updated cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

#### ccrz.ccApiCart.ISREPRICE

Boolean

Value	Usage
true	Call the ccrz.ccApiCart.price method to reprice the cart after the items are added.
	Note: This operation can be expensive, depending on the complexity of your cart data, but ensures that prices are current and entitlement is correct.
false (default)	Don't reprice cart items.

#### ccrz.ccApiCart.PRODSADDEDTOCART

Map<ccrz\_E\_CartItem\_c, String> of SKUs or product IDs that were added to the cart.

#### Outputs

This method returns the final Map<String, Object>, including the following keys:

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

This method also sets the following field on the corresponding ccrz E Cart c record:

ccrzE_Cartc Field	Source for Value
ccrzValidationStatusc	If the ccrz.ccApiCart.PRODSADDEDTOCART key contained data, which means that products were added to the cart, this field is reset.

# ccrz.ccLogicCartClone

Define the business logic for creating a copy of a cart or wish list.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.cloneCart

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### fetchCarts

Calls the ccrz.ccApiCart.fetch method for returning data for the cart to clone.

#### processData

Creates ccrz\_E\_Cart\_c, ccrz\_E\_CartItem\_c, and ccrz\_E\_CartItemGroup\_c records that contain the data copied from the original cart.

#### doDML

Executes the DML insert operation on the cloned ccrz\_E\_Cart\_c, ccrz\_E\_CartItem\_c, and ccrz\_E CartItemGroup c records.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccLogicCartClone.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> process(Map<String, Object>)
```

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.cloneCart method.

### **Logic Performed**

This method invokes other methods of the ccrz.ccLogicCartClone class in the following order:

1. processInput

- 2. fetchCarts
- 3. processData
- 4. doDML
- 5. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartClone.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartClone.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the original cart to clone.

#### ccrz.ccApiCart.CART IDLIST

Set<String> that can include the Salesforce ID of only one original cart to clone.

Ø

Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

#### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the original cart to clone.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> that can include the encrypted ID of only one original cart to clone.

- Note: Even though this key specifies a set, the method evaluates only the first ID in the set.
- Note: This method checks for these keys in the following order of precedence:
  - 1. ccrz.ccApiCart.CART\_ID
  - 2. ccrz.ccApiCart.CART\_ENCID
  - 3. ccrz.ccApiCart.CART\_IDLIST
  - 4. ccrz.ccApiCart.CART ENCIDLIST

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartClone.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogicCartClone.fetchCarts

Calls the ccrz.ccApiCart.fetch method for returning data for the cart to clone.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchCarts(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartClone.processInput method.

This method requires one of the following keys to execute:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the original cart to clone.

#### ccrz.ccApiCart.CART IDLIST

Set<String> that can include the Salesforce ID of only one original cart to clone.

Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the original cart to clone.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> that can include the encrypted ID of only one original cart to clone.

- Note: Even though this key specifies a set, the method evaluates only the first ID in the set.
- Note: This method checks for these keys in the following order of precedence:
  - 1. ccrz.ccApiCart.CART ID
  - 2. ccrz.ccApiCart.CART ENCID
  - 3. ccrz.ccApiCart.CART IDLIST
  - 4. ccrz.ccApiCart.CART ENCIDLIST

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.CART\_OBJLIST

List<Map<String, Object>>,which contains one Map<String, Object> that represents the ccrz\_E\_Cart\_c data to clone, which the ccrz.ccApiCart.fetch method returned.

Note: By default, this logic service provider class clones only one cart record at one time. Even though this key specifies a list, the list contains only one cart.

### ccrz.ccApiCart.CARTITEMSBYID

Map<String, List<ccrz E CartItem c>>, keyed by cart ID, for the fetched ccrz E Cart c record.

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogic Cart Clone.process Data

Creates  $ccrz\_E\_Cart\_c$ ,  $ccrz\_E\_CartItem\_c$ , and  $ccrz\_E\_CartItemGroup\_c$  records that contain the data copied from the original cart.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processData(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartClone.fetchCarts method. This method requires the following keys in the working map:

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, which contains one Map<String, Object> that represents the ccrz\_E\_Cart\_c data to clone, which the ccrz.ccApiCart.fetch method returned.



**Note**: By default, this logic service provider class clones only one cart record at one time. Even though this key specifies a list, the list contains only one cart.

#### ccrz.ccApiCart.CARTITEMSBYID

Map<String, List<ccrz E CartItem c>>, keyed by cart ID, for the fetched ccrz E Cart c record.

## Logic Performed

This method completes the following actions:

- 1. Creates a clone of the original ccrz E Cart c record, and assigns a random integer for the clone's ccrz CartId c.
- 2. Sets the clone as the active cart, unless the original cart is a wish list.
- 3. Loops through the original cart's ccrz\_E\_CartItem\_c and ccrz\_E\_CartItemGroup\_c records. This method creates corresponding clones of the items and groups, and assigns a random integer for each clone's ID.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogicCartClone.CART TO INSERT

ccrz E Cart c that represents the cloned cart that this method created.

#### ccrz.ccLogicCartClone.CARTITEMS TO INSERT

List<ccrz E CartItem c> that contains clone's items.

#### ccrz.ccLogicCartClone.CHILD PARENT

Map<String, Object> that relates each minor ccrz\_E\_CartItem\_c record's Salesforce ID (from the original cart) to the corresponding major ccrz E CartItem c record's external ID (in the cloned cart).

#### ccrz.ccLogicCartClone.GROUPS TO INSERT

List<ccrz E CartItemGroup c> that contains cart item groups related to the cloned cart.

#### ccrz.ccLogicCartClone.OLD CART

ccrz E Cart c that represents the original cart.

#### ccrz.ccLogicCartClone.OLD ITEM

Map<String, Object> that relates each original ccrz\_\_E\_CartItem\_\_c record's Salesforce ID to its cloned ccrz E CartItem c record's external ID.

#### ccrz.ccLogicCartClone.OLD GROUP

Map<String, Object> that relates each original ccrz\_E\_CartItemGroup\_c record's Salesforce ID to its cloned ccrz\_E\_CartItemGroup\_c record's external ID.

#### SEE ALSO:

```
ccrz_E_Cart__c
ccrz_E_CartItem__c
```

## ccrz.ccLogicCartClone.doDML

Executes the DML insert operation on the cloned ccrz\_E\_Cart\_c, ccrz\_E\_CartItem\_c, and ccrz E CartItemGroup c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> doDML(Map<String, Object>)
```

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartClone.processData method. This method requires the following keys in the working map:

#### ccrz.ccApiCart.CARTITEMSBYID

Map<String, List<ccrz E CartItem c>>, keyed by cart ID, for the original ccrz E Cart c record.

#### ccrz.ccLogicCartClone.CART\_TO\_INSERT

ccrz E Cart c that represents the cloned cart to insert.

### ${\tt ccrz.ccLogicCartClone.CARTITEMS\_TO\_INSERT}$

List<ccrz E CartItem c> that contains the cloned cart's items to insert.

#### ccrz.ccLogicCartClone.OLD CART

ccrz E Cart c that represents the original cart.

#### ccrz.ccLogicCartClone.OLD ITEM

Map<String, Object> that relates each original ccrz\_E\_CartItem\_c record's Salesforce ID to its cloned ccrz E CartItem c record's external ID.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Mote: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

#### ccrz.ccLogicCartClone.CHILD PARENT

Map<String, Object> that relates each minor ccrz\_E\_CartItem\_c record's Salesforce ID (from the original cart) to the corresponding major ccrz\_E CartItem c record's external ID (in the cloned cart).

#### ccrz.ccLogicCartClone.GROUPS TO INSERT

List<ccrz E CartItemGroup c> that contains cart item groups related to the cloned cart.

#### ccrz.ccLogicCartClone.OLD GROUP

Map<String, Object> that relates each original ccrz\_E\_CartItemGroup\_c record's Salesforce ID to its cloned ccrz\_E CartItemGroup\_c record's external ID.

### **Logic Performed**

This method completes the following actions:

- 1. Inserts the cloned cart, cart item groups, and cart items.
- 2. Matches minor cart line items with its corresponding major cart line items.
- **3.** Matches cart items with its corresponding cart item groups.
- **4.** Makes the original cart inactive, unless the original cart was a wish list.
- 5. If the original input data specified ccrz.ccApi.SZ\_REFETCH => true, calls the ccrz.ccApiCart.fetch method for including the cloned cart in the return data.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cloned cart that this method inserted.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cloned cart that this method inserted.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the cloned ccrz\_E\_Cart\_c record, which the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ\_REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

SEE ALSO:

ccrz.ccApiCart.fetch

Inserting and Updating Records

## ccrz.ccLogicCartClone.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartClone.doDML method.

## Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccLogic.ORIGINAL\_INPUT
- ccrz.ccLogicCartClone.CART TO INSERT
- ccrz.ccLogicCartClone.CARTITEMS\_TO\_INSERT
- ccrz.ccLogicCartClone.CHILD PARENT
- ccrz.ccLogicCartClone.GROUPS TO INSERT
- ccrz.ccLogicCartClone.OLD CART
- ccrz.ccLogicCartClone.OLD GROUP
- ccrz.ccLogicCartClone.OLD ITEM

# ccrz.ccLogicCartCreate

Define the business logic for creating a cart record. By default, the methods of this class create only one cart record at a time. Even though the methods accept and return a list of cart records, the methods evaluate only the first element in the list.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.create

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### processCartData

Evaluates the input data for field values to set on the created cart, and specifies fallback values for any fields that aren't specified.

#### createCarts

Creates the cart sObject to insert.

#### insertCarts

Executes the DML insert operation on the cart record to create.

#### createCartItems

Creates the line data for the cart's items.

#### insertCartItems

Calls the ccrz.ccApiCart.addTo method for adding the specified cart items to the inserted cart.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the created cart record to include in the global API return data.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartCreate.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.create method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicCartCreate class in the following order:

- 1. processInput
- 2. processCartData
- 3. createCarts
- 4. insertCarts
- 5. createCartItems
- 6. insertCartItems
- 7. refetch
- 8. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartCreate.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.process method.

## Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### 'originalInputData'

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartCreate.prepReturn method removes this intermediate key from the working map.

## ccrz.cc Logic Cart Create.process Cart Data

Evaluates the input data for field values to set on the created cart, and specifies fallback values for any fields that aren't specified.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processCartData(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.processInput method.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz E Cart crecord to create. This map can specify subkeys for field values to set on the cart record. For a list of fields, see the ccrz E Cart c reference.



Note: By default, this method creates only one cart record at a time. Even though this key specifies a list, the method evaluates only the first item in the list.

This method sets fallback values for the following fields if they're not specified in ccrz.ccApiCart.CART OBJLIST:

Field	Fallback Value
activeCart	true
cartStatus	Open
currencyISOCode	ccrz.cc_CallContext.userCurrency
name	New Cart
ownerId	ccrz.cc_CallContext.currUserId
storefront	ccrz.cc_CallContext.storefront



Note: If you don't specify ccrz.ccApiCart.CART OBJLIST, or if it contains an empty list, this method creates an empty cart with default values.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'cartItemsToCreate'

associated with the cart.



Note: The method returns this key when the ccrz.ccApiCart.CART OBJLIST input key includes the ECartItemsS subkey. The ccrz.ccLogicCartCreate.createCartItems method evaluates this key.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz E Cart crecord to create. If the ccrz.ccApiCart.CART OBJLIST input was empty, this output includes data for a new empty cart with fallback values.

#### SEE ALSO:

```
ccrz__E_Cart__c
ccrz__E_CartItem__c
```

## ccrz.ccLogic Cart Create.create Carts

Creates the cart sObject to insert.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> createCarts(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.processCartData method. This method requires the following keys in the working map:

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_\_E\_Cart\_\_c record to create.

#### ccrz.ccService.TRANSFORMINDEX

Map<String, Object> that the ccrz.ccServiceCart data service provider generates for defining how the fields in a map convert to sObject data.

### **Outputs**

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.CART\_OBJLIST

List<ccrz E Cart c> that contains the cart sObject to insert.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Working with Objects

## ccrz.ccLogic Cart Create. insert Carts

Executes the DML insert operation on the cart record to create.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> insertCarts(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.createCarts method. This method requires the following key in the working map:

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Cart\_\_c record to create.

After the insert operation completes, this method also completes the following actions:

- 1. Calls the ccrz.ccApiCart.setActive method to make the inserted cart active, and deactivate the account's other open carts.
- 2. Calls the ccrz.ccApiCart.fetch method to query for the inserted cart's encrypted ID.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.BYSTOREFRONT

String that specifies the name of the storefront for the inserted cart.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the inserted cart.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the inserted cart.

#### 'newCartObjects'

List<ccrz E Cart c> that contains the inserted cart sObject.

SEE ALSO:

ccrz.ccApiCart.fetch

Inserting and Updating Records

## ccrz.ccLogicCartCreate.createCartItems

Creates the line data for the cart's items.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> createCartItems(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.insertCarts method. This method requires the following keys in the working map:

#### 'cartItemsToCreate'

List<Map<String, Object>> where each Map<String, Object> represents data for a ccrz\_\_E\_CartItem\_\_c associated with the cart.



**Note**: The ccrz.ccLogicCartCreate.processCartData method created this key when the original input's ccrz.ccApiCart.CART\_OBJLIST key included the ECartItemsS subkey.

#### 'newCartObjects'

List<ccrz E Cart c> that contains the inserted cart sObject.

## **Outputs**

This method returns the working Map<String, Object>, and sets the following key:

#### 'cartItemsToCreate'

associated with the cart. This method sets the following key values:

#### ccrz.ccApiCart.LINE DATA QUANTITY

Integer that specifies the quantity for the product to add to the cart.

#### ccrz.ccApiCart.LINE DATA PRODUCT SFID

Salesforce ID for the product to add to the cart.



Note: The ccrz.ccLogicCartCreate.insertCartItems method uses the content in

'cartItemsToCreate' as the ccrz.ccApiCart.LINE DATA input for a ccrz.ccApiCart.addTo call.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

## ccrz.ccLogicCartCreate.insertCartItems

Calls the ccrz.ccApiCart.addTo method for adding the specified cart items to the inserted cart.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> insertCartItems(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.createCartItems method.

This method requires the following keys in the working map:

#### 'cartItemsToCreate'

List<Map<String, Object>> where each Map<String, Object> describes data for a ccrz\_E\_CartItem\_c associated with the cart. This method uses this list for the ccrz.ccApiCart.LINE\_DATA input for the ccrz.ccApiCart.addTo call.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the inserted cart to add items to.

#### **Outputs**

This method returns the working Map<String, Object>, updated with the results of the ccrz.ccApiCart.addTo call.

SEE ALSO:

```
ccrz_E_CartItem__c
ccrz.ccApiCart.addTo
```

## ccrz.ccLogicCartCreate.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the created cart record to include in the global API return data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreate.insertCartItems method. This method requires the following keys in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Ø

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the created cart to query.

### Outputs

This method returns the working Map<String, Object>, updated with the results of the ccrz.ccApiCart.fetch call.

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogicCartCreate.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartCreate.refetch method.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccService.TRANSFORMINDEX
- 'newCartObjects'
- 'originalInputData'

# ccrz.ccLogicCartCreateCartItemGroup

Define the business logic for creating a shipping group of cart items for line-level independence (LLI) checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.createCartItemGroup

## Methods

### IN THIS SECTION:

### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### createltemGroups

Evaluates the input fields and values and creates corresponding ccrz\_\_E\_CartItemGroup\_\_c records. This method also wraps the DML insert statement for inserting the created records.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartCreateCartItemGroup.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiCart.createCartItemGroup method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartCreateCartItemGroup class in the following order:

- 1. processInput
- 2. createItemGroups
- 3. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogic Cart Create Cart I tem Group.process Input

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreateCartItemGroup.process method

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### 'ECartItemGroupsS'

List<Map<String, Object>>,where each Map<String, Object> represents the ccrz\_E\_CartItemGroup\_c record to create. This map can specify subkeys for field values to set on the cart item group record. For a list of fields, see the ccrz\_E\_CartItemGroup\_c reference.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartCreateCartItemGroup.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogic Cart Create Cart I tem Group.create I tem Groups

Evaluates the input fields and values and creates corresponding  $ccrz\_E\_CartItemGroup\_\_c$  records. This method also wraps the DML insert statement for inserting the created records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> createItemGroups(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreateCartItemGroup.processInput method.

This method requires the following key in the working map:

#### 'ECartItemGroupsS'

List<Map<String, Object>>,where each Map<String, Object> represents the ccrz\_E\_CartItemGroup\_c record to create. This map can specify subkeys for field values to set on the cart item group record. For a list of fields, see the ccrz\_E\_CartItemGroup\_c reference.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the updated ccrz\_\_E\_Cart\_\_c record.



Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

### ccrz.ccApiCart.ITEMGROUPID

String that specifies the Salesforce ID of the created cart item group.

#### SEE ALSO:

ccrz\_\_E\_CartItemGroup\_\_c

Inserting and Updating Records

Salesforce Help Specify Shipping Group Options for LLI Checkout

# ccrz.ccLogic Cart Create Cart I tem Group.prep Return

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartCreateCartItemGroup.createItemGroups method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicCartCreateWL

Define the business logic for creating a wish list and wish list items based on a specific cart ID and its cart items.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.createWishList

## Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### fetchCart

Calls the ccrz.ccApiCart.fetch method for returning the cart to create a wish list from.

### createWishList

Calls the ccrz.ccApiWishList.create method for creating the wish list record.

### refetch

Calls the ccrz.ccApiWishList.fetch method for fetching the created wish list record to include in the global API return data.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### SEE ALSO:

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccLogicCartCreateWL.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.createWishList method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicCartCreateWL class in the following order:

- 1. processInput
- 2. fetchCart
- 3. createWishList
- 4. refetch

### 5. prepReturn

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartCreateWL.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreateWL.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

## ccrz.ccApiCart.CART ID

The Salesforce ID of the cart to create a wish list from.

#### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart to create a wish list from.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartCreateWL.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogicCartCreateWL.fetchCart

Calls the ccrz.ccApiCart.fetch method for returning the cart to create a wish list from.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchCart(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreateWL.processInput method. This method can accept either of the following parameters:

### ccrz.ccApiCart.CART ID

The Salesforce ID of the cart to create a wish list from.

### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart to create a wish list from.

## Logic Performed

This method completes the following actions:

- Calls the ccrz.ccApiCart.fetch method using the ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART ENCID.
- 2. Sets up data for creating a wish list from the fetched cart, including converting the cart's ccrz\_E\_CartItem\_c records to corresponding wish list items.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiWishList.WISHLIST

Map<String, Object> that describes the wish list to create from the fetched cart.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicCartCreateWL.createWishList

Calls the ccrz.ccApiWishList.create method for creating the wish list record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> createWishList(Map<String, Object>)

## Inputs (Required)

 $This \ method\ accepts\ the\ \texttt{Map}{<} \textit{String,}\ \ \texttt{Object}{>}\ from\ the\ \texttt{ccrz.ccLogicCartCreateWL.fetchCart}\ method.$ 

This method requires the following key in the working map:

## ccrz.ccApiWishList.WISHLIST

Map<String, Object> that describes the wish list to create from the fetched cart.

## Logic Performed

This method passes ccrz.ccApiWishList.WISHLIST as input data for the ccrz.ccApiWishList.create method.

### Outputs

This method returns the working Map<String, Object>, which includes the output data from the ccrz.ccApiWishList.create method.

# ccrz.ccLogicCartCreateWL.refetch

Calls the ccrz.ccApiWishList.fetch method for fetching the created wish list record to include in the global API return data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartCreateWL.createWishList method. This method requires the following key in the working map:

## ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiWishList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### Outputs

This method returns the working Map<String, Object>, which includes the output data from the ccrz.ccApiWishList.fetch method.

# ccrz.ccLogicCartCreateWL.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartCreateWL.refetch method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCartInitItemGroups

Define the business logic for initializing shipping groups on a specific cart for line-level independence (LLI) checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.initItemGroups

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### initltemGroups

Determines whether the cart already contains at least shipping group, and assigns cart items to the group. When no shipping group exists, this method creates a single default group with all cart items and the account's default shipping address. This method also wraps the DML update statement for assigning cart items.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartInitItemGroups.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.initItemGroups method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicCartInitItemGroups class in the following order:

- 1. processInput
- 2. initItemGroups
- 3. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.

ccrz.ccLogicCartInitItemGroups



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartInitItemGroups.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartInitItemGroups.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

## ccrz.ccApiCart.CART\_ID

The Salesforce ID of the cart to initialize shipping groups for.

### ccrz.ccApiCart.CART\_ENCID

The encrypted ID of the cart to initialize shipping groups for.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartInitItemGroups.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogic Cart In it Item Groups. in it Item Groups

Determines whether the cart already contains at least shipping group, and assigns cart items to the group. When no shipping group exists, this method creates a single default group with all cart items and the account's default shipping address. This method also wraps the DML update statement for assigning cart items.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> initItemGroups(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartInitItemGroups.processInput method.

This method can accept either of the following parameters:

### ccrz.ccApiCart.CART\_ID

The Salesforce ID of the cart to initialize shipping groups for.

### ccrz.ccApiCart.CART\_ENCID

The encrypted ID of the cart to initialize shipping groups for.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Ø

Note: This method respects any other data size keys specified in the original input's ccrz.ccapi.SIZING key.

## Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccApiCart.fetch method and returns the specified cart.
- 2. If at least one shipping group exists on the cart, this method assigns any unassigned cart items to that group.
- 3. If no shipping group exists on the cart, this method completes the following actions:
  - Creates a single default shipping group for the cart.
  - Sets the group's shipping address to the account's default shipping address.
  - Adds all the cart items to the group.
- **4.** Executes the DML update operation for assigning cart items to the group.
- **5.** Sets the value of the cart's ccrz ShipStructure c field to *LLI*.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART ENCID

The encrypted ID of the updated cart.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the updated ccrz\_\_E\_Cart\_\_c record.



🕜 Note: This key is returned only when the input map includes ccrz.ccApi.SZ REFETCH => true.

SEE ALSO:

```
ccrz__E_CartItem__c
ccrz__E_CartItemGroup__c
Inserting and Updating Records
Salesforce Help Specify Shipping Group Options for LLI Checkout
```

## ccrz.ccLogicCartInitItemGroups.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartInitItemGroups.initItemGroups method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCartGetActive

Define the business logic for resolving which cart is active for the current user, account (including effective accounts), storefront, and currency.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.getActive

## Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### fetchActive

Calls the ccrz.ccApiCart.fetch method for returning the active cart for a specified owner, storefront, currency, and effective account, if applicable. If the query can't find a match, this method also defines fallback queries for evaluating potentially active carts and selecting the best active cart candidate.

### createCart

Calls the ccrz.ccApiCart.create method for creating a cart record that becomes the active cart when no other candidate active carts are available.

### updateActive

Calls the ccrz.ccApiCart.setActive method for establishing a single active cart for a particular owner, and updating the owner's other open carts to inactive.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the updated active cart record to include in the global API return data.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartGetActive.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.getActive method.

## Logic Performed

This method invokes other methods of the ccrz.cclogicCartGetActive class in the following order:

- 1. processInput
- 2. fetchActive
- 3. createCart
- 4. updateActive
- 5. refetch
- 6. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. The method adds the following intermediate key to this map:

### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.cc Logic Cart Get Active.process Input

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetActive.process method. This method requires the following key in the working map:

### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiCart.BYEFFECTIVEACCOUNT

Boolean

Value	Usage
true	Filter the cart query by the selected effective account. This method evaluates this key only when your storefront uses the Cart per Account mode for effective accounts.
false (default)	Ignore effective accounts.

### ccrz.ccApiCart.BYOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

## Note:

- Sharing rules in your org can affect what data you can see when you filter by cart owner.
- If you don't include this key, this method falls back to ccrz.cc CallContext.currUserId.

### ccrz.ccApiCart.BYSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to query.

### ccrz.ccApiCart.CART IDLIST

Set<String> of Salesforce IDs of carts to query.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to query.

### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted cart IDs to query.

Note: If you don't specify ccrz.ccApiCart.CART\_ID, ccrz.ccApiCart.CART\_IDLIST, ccrz.ccApiCart.CART\_ENCID, or ccrz.ccApiCart.CART\_ENCIDLIST, this method falls back to ccrz.cc CallContext.currCartId.

### ccrz.ccApiCart.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userCurrency.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogicCartGetActive.CARTIDLIST

Set<String> of Salesforce IDs of the carts to query.

#### ccrz.ccLogicCartGetActive.CARTENCIDLIST

Set<String> of encrypted IDs of the carts to query.



- The ccrz.ccLogicCartGetActive.CARTIDLIST or ccrz.ccLogicCartGetActive.CARTENCIDLIST set is supposed to contain only one ID, but is established for the subsequent ccrz.ccApiCart.fetch query invoked from ccrz.ccLogicCartGetActive.fetchActive.
- Don't combine ccrz.ccLogicCartGetActive.CARTIDLIST and ccrz.ccLogicCartGetActive.CARTENCIDLIST.
- Always return one of these sets instead of passing through ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART ENCID, respectively.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of a candidate active cart. This method sets an initial null value, which subsequent methods update.

### ccrz.ccLogicCartGetActive.CARTLIST\_ACTIVE

List<ccrz\_E\_Cart\_\_c> of candidate active carts. This method instantiates an empty list, which subsequent methods update.

#### ccrz.ccLogicCartGetActive.CARTOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

### ccrz.ccLogicCartGetActive.CURRENCYCODE

String that specifies the currency for the cart query.

### $\verb"ccrz.ccLogicCartGetActive.EFFECTIVEACCOUNT"$

String that specifies the ID of the selected effective account for the cart query. This method sets this value from ccrz.cc\_CallContext.effAccountId.

### ccrz.ccLogicCartGetActive.STOREFRONT

String that specifies the storefront for the cart query.

SEE ALSO:

ccrz.ccApiCart.fetch

Manage Carts for Effective Accounts

## ccrz.ccLogicCartGetActive.fetchActive

Calls the ccrz.ccApiCart.fetch method for returning the active cart for a specified owner, storefront, currency, and effective account, if applicable. If the query can't find a match, this method also defines fallback queries for evaluating potentially active carts and selecting the best active cart candidate.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchActive(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetActive.processInput method.

This method executes only if the working map includes either of the following keys:

### ccrz.ccLogicCartGetActive.CARTIDLIST

Set<String> of Salesforce IDs of the carts to query.

#### ccrz.ccLogicCartGetActive.CARTENCIDLIST

Set<String> of encrypted IDs of the carts to query.



- The ccrz.ccLogicCartGetActive.CARTIDLIST or ccrz.ccLogicCartGetActive.CARTENCIDLIST
   set is supposed to contain only one ID, but is established for the subsequent ccrz.ccApiCart.fetch query invoked
   from ccrz.ccLogicCartGetActive.fetchActive.
- Don't combine ccrz.ccLogicCartGetActive.CARTIDLIST and ccrz.ccLogicCartGetActive.CARTENCIDLIST.

This method also requires the following keys:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of a candidate active cart. This key's initial value is null.

### ccrz.ccLogicCartGetActive.CARTLIST ACTIVE

List<ccrz E Cart c> of candidate active carts. This list is initially empty.

#### ccrz.ccLogicCartGetActive.CARTOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

### ccrz.ccLogicCartGetActive.CURRENCYCODE

String that specifies the currency for the cart query.

#### ccrz.ccLogicCartGetActive.STOREFRONT

String that specifies the storefront for the cart query.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccLogicCartGetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart query. This method evaluates this key only when your storefront uses the Cart per Account mode for effective accounts.

### **Logic Performed**

This method completes the following actions:

- 1. Applies the input keys to a ccrz.ccApiCart.fetch query, which returns the carts specified by ccrz.ccLogicCartGetActive.CARTIDLIST or ccrz.ccLogicCartGetActive.CARTENCIDLIST.
- 2. If the method doesn't match cart IDs, the method queries for carts where the ccrz ActiveCart c field is TRUE.
- **3.** If the method still doesn't return any active carts, the method determines which of the returned carts is the best candidate to promote to active. By default, this method selects the cart with the most recent Last Modified Date.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of the cart that this method evaluated as active for the current call context.

### ccrz.ccLogicCartGetActive.CARTLIST\_ACTIVE

List<ccrz E Cart c> that includes the carts that this method fetched and evaluated as potentially active.

SEE ALSO:

ccrz.ccApiCart.fetch

Manage Carts for Effective Accounts

# ccrz.ccLogicCartGetActive.createCart

Calls the ccrz.ccApiCart.create method for creating a cart record that becomes the active cart when no other candidate active carts are available.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> createCart(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetActive.fetchActive method. This method requires the following keys in the working map:



**Note**: This method first checks the value of ccrz.cc\_CallContext.isGuest, and executes only when the value is false.

### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

#### ccrz.ccApiCart.GETACTIVE CREATE

Boolean

Value	Usage
true	Create a cart record that becomes the active cart when no other candidate active carts are available.
false (default)	Don't create a cart record when no other candidate active carts are available.

# Important:

- This method executes only when this key's value is true.
- If you override this method in custom subscriber code, ensure that you never perform DML operations when this key's value is true.
- B2B Commerce for Visualforce sets this value to true for some internal use cases, such as in the ccrz.ccApiCart.create call invoked by the ccrz.ccLogicCartAddTo.fetchCart method.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of the active cart that the ccrz.ccLogicCartGetActive.fetchActive method determined. This method executes only when this key's value is still null, indicating that the ccrz.ccLogicCartGetActive.fetchActive method couldn't find an active cart candidate.

### ccrz.ccLogicCartGetActive.CARTOWNER

String that specifies the ID of a specific user. The created cart's Owner field matches this user ID.

#### ccrz.ccLogicCartGetActive.CURRENCYCODE

String that specifies the currency for the cart.

#### ccrz.ccLogicCartGetActive.STOREFRONT

String that specifies the storefront for the cart.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### $\verb"ccrz.ccLogicCartGetActive.EFFECTIVEACCOUNT"$

String that specifies the ID of the selected effective account for the cart.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of the created cart.

SEE ALSO:

ccrz.ccApiCart.create

# ccrz.ccLogicCartGetActive.updateActive

Calls the ccrz.ccApiCart.setActive method for establishing a single active cart for a particular owner, and updating the owner's other open carts to inactive.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> updateActive(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetActive.createCart method. This method requires the following keys in the working map:



**Note**: This method first checks the value of ccrz.cc\_CallContext.isGuest, and executes only when the value is false.

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

### ccrz.ccApiCart.GETACTIVE UPDATE

Boolean

Value	Usage
true (default)	Call the ccrz.ccApiCart.setActive method for establishing a single active cart and updating all other open carts to inactive.
false	Don't call the ccrz.ccApiCart.setActive method.

# () Important:

- This method executes only when this key's value is true.
- If you override this method in custom subscriber code, ensure that you never perform DML operations when this key's value is true.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of the cart to pass to the ccrz.ccApiCart.setActive method.

### ccrz.ccLogicCartGetActive.CARTOWNER

String that specifies the ID of a specific user. The active cart's Owner field matches this user ID.

### ccrz.ccLogicCartGetActive.CURRENCYCODE

String that specifies the currency for the cart.

### $\verb"ccrz.ccLogicCartGetActive.STOREFRONT"$

String that specifies the storefront for the cart.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccLogicCartGetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccLogicCartGetActive.CARTLIST ACTIVE

List<ccrz E Cart c> that includes the cart that was made active.

SEE ALSO:

ccrz.ccApiCart.setActive

## ccrz.ccLogicCartGetActive.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the updated active cart record to include in the global API return data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetActive.updateActive method. This method requires the following keys in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
```

}



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

### ccrz.ccLogicCartGetActive.CARTID ACTIVE

String that specifies the Salesforce ID of the active cart to query and include in the return data.

### ccrz.ccLogicCartGetActive.CARTOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

### ccrz.ccLogicCartGetActive.CURRENCYCODE

String that specifies the currency for the cart query.

### ccrz.ccLogicCartGetActive.STOREFRONT

String that specifies the storefront for the cart query.

This method applies these parameters to a ccrz.ccApiCart.fetch query for returning the active cart.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccLogicCartGetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



• This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.

 The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogicCartGetActive.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartGetActive.refetch method. This method requires the following key in the working map:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiCart.RESPONSE
- ccrz.ccLogicCartGetActive.CARTENCIDLIST
- ccrz.ccLogicCartGetActive.CARTID ACTIVE
- ccrz.ccLogicCartGetActive.CARTIDLIST

- ccrz.ccLogicCartGetActive.CARTLIST ACTIVE
- ccrz.ccLogicCartGetActive.CARTOWNER
- ccrz.ccLogicCartGetActive.CURRENCYCODE
- ccrz.ccLogicCartGetActive.EFFECTIVEACCOUNT
- ccrz.ccLogicCartGetActive.STOREFRONT

# ccrz.ccLogicCartGetDeliveryDates

Define the business logic for returning the available delivery dates for one or more shipping addresses.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.getDeliveryDates

## Methods

### IN THIS SECTION:

### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### getDeliveryDates

Parses the input contact address fields, passes those values as the input parameters for the ccrz.cc\_api\_ShippingAndHandling.getShippingOptions extension method, and returns that method's serialized data.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartGetDeliveryDates.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiCart.getDeliveryDates method.

### Logic Performed

This method invokes other methods of the ccrz.cclogicCartGetDeliveryDates class in the following order:

- 1. processInput
- 2. getDeliveryDates
- 3. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicCartGetDeliveryDates.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

 $This method accepts the \verb|Map| < String|, \verb|Object| > from the \verb|ccrz.ccLogicCartGetDeliveryDates.process| method.$ 

This method checks that the input map specifies the following keys, and returns a ccrz.ccApi.MissingInputException if any key is missing:

### ccrz.cc api DeliveryDate.CART ID

String that specifies the ID of the cart record used for checkout.

### ccrz.ccApiCart.SHIPPING ADDRLIST

List<Map<String, Object>> where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record with shipping address details.

### **Outputs**

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartGetDeliveryDates.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogic Cart Get Delivery Dates.get Delivery Dates

Parses the input contact address fields, passes those values as the input parameters for the ccrz.cc\_api\_ShippingAndHandling.getShippingOptions extension method, and returns that method's serialized data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> getDeliveryDates(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetDeliveryDates.processInput method

This method requires the following keys in the working map:

### ccrz.cc api DeliveryDate.CART ID

String that specifies the ID of the cart record used for checkout.

### ccrz.ccApiCart.SHIPPING ADDRLIST

List<Map<String, Object>> where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record with shipping address details.

## Logic Performed

This method passes each address as the ccrz.cc\_api\_DeliveryDate.SHIP\_ADDRESS input for the ccrz.cc api DeliveryDate.getDeliveryDates method.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.SHIPPING ADDRLIST

Map<String, Object> where:

- The key is the contact address sfid.
- The object is a Map<String, Object> that the ccrz.cc\_api\_DeliveryDate.getDeliveryDates method returns.

### SEE ALSO:

```
ccrz_E_ContactAddr__c
ccrz.cc_api_DeliveryDate.getDeliveryDates
Salesforce Help Specify Shipping Options for Standard Checkout
```

## ccrz.ccLogicCartGetDeliveryDates.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartGetDeliveryDates.getDeliveryDates method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicCartGetShippingOptions

Define the business logic for returning the available shipping options for one or more shipping addresses.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Global API Caller

ccrz.ccApiCart.getShippingOptions

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### getShippingOptions

Parses the input contact address fields, passes those values as the input parameters for the ccrz.cc\_api\_ShippingAndHandling.getShippingOptions extension method, and returns that method's serialized data.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogic Cart Get Shipping Options. process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiCart.getShippingOptions method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartGetShippingOptions class in the following order:

- 1. processInput
- 2. getShippingOptions
- 3. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogic Cart Get Shipping Options. process Input

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetShippingOptions.process method

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiCart.SHIPPING ADDR

Map<String, Object> that represents a ccrz E ContactAddr c record with shipping address details.

#### ccrz.ccApiCart.SHIPPING ADDRLIST

List<Map<String, Object>> where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record with shipping address details.

#### **Outputs**

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartGetShippingOptions.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicCartGetShippingOptions.getShippingOptions

Parses the input contact address fields, passes those values as the input parameters for the ccrz.cc\_api\_ShippingAndHandling.getShippingOptions extension method, and returns that method's serialized data.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> getShippingOptions(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartGetShippingOptions.processInput method.

This method requires either of the following keys in the working map:

#### ccrz.ccApiCart.SHIPPING ADDR

Map<String, Object> that represents a ccrz\_E\_ContactAddr\_c record with shipping address details.

#### ccrz.ccApiCart.SHIPPING ADDRLIST

List<Map<String, Object>> where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record with shipping address details.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiCart.CART ID

String that specifies the ID of the cart used for checkout.

### Logic Performed

This method completes the following actions:

- 1. Reads the following fields from each contact address Map<String, Object> specified in the input data:
  - countryISOCode
  - postalCode
  - sfid
  - stateISOCode
- 2. Passes these values as the input parameters for the ccrz.cc\_api\_ShippingAndHandling.getShippingOptions method. If the input data included ccrz.ccApiCart.CART\_ID, this method passes that ID as the value for the ccrz.cc\_api\_ShippingAndHandling.getShippingOptions method's cartId input.

#### **Outputs**

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.SHIPPING\_OPTIONS

The shipping options for the specified contact address or addresses. This return data can take the following types, depending on values specified in the input map:

Туре	Input Map Criteria
Map <string, object=""></string,>	ccrz.ccApiCart.SHIPPING_ADDR
List <map<string, object="">&gt;</map<string,>	ccrz.ccApiCart.SHIPPING_ADDRLIST

For each Map<String, Object> returned:

- The key is the contact address sfid.
- The object is a serialized instance of ccrz.cc\_ctrl\_hlpr\_ShippingOption, which the ccrz.cc\_api ShippingAndHandling.getShippingOptions method returned.

#### SEE ALSO:

ccrz\_E\_ContactAddr\_\_c
ccrz.cc\_api\_ShippingAndHandling.getShippingOptions
ccrz.cc\_ctrl\_hlpr\_ShippingOption
Salesforce Help Specify Shipping Options for Standard Checkout

# ccrz.ccLogicCartGetShippingOptions.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartGetShippingOptions.getShippingOptions method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCartPlace

Define the business logic for converting a cart to an order.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- (1) Important: In B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12):
  - This logic service provider class includes methods that replace the ccrz.cc\_api\_Cart.placeEOrder public method, which is deprecated in this version. Pay close attention to the compatibility information listed for each inner method.
  - As a result, this logic service provider executes differently compared to B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or older. The ccrz.cc\_api\_Cart.placeEOrder public method remains available for those older versions.
  - To continue using ccrz.cc\_api\_Cart.placeEOrder logic for placing an order, set the Checkout storefront configuration module's Use Order Hook setting (co.usehkorder) to TRUE. This configuration specifies that methods of

the ccrz.cc\_hk\_Order extension point class execute and call ccrz.cc\_api\_Cart.placeEOrder. When this configuration is FALSE, the ccrz.ccLogicCartPlace logic service provider executes instead.

### Global API Caller

ccrz.ccApiCart.place

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### checkCartForAsyncPlace

Evaluates the cart, storefront configuration settings, and input keys to determine whether to place the order synchronously or asynchronously.

#### retrieveCartHeader

Calls the ccrz.ccApiCart.fetch method for querying the ccrz\_\_E\_Cart\_\_c record to place an order from. This method can also evaluate the cart's ccrz\_\_ValidationStatus\_\_c before creating an order. Finally, this method also queries the cart's related ccrz\_\_E\_CartCoupon\_\_c and ccrz\_\_E\_ContactAddr\_\_c records, but doesn't query the cart's items.

#### validateCartPricing

Evaluates whether the cart's price data is current.

#### processAddresses

Copies the cart's billing and shipping addresses, so that the copies can apply to the order that this logic chain creates.

### createOrderHeader

Creates the ccrz\_E\_Order\_c record by copying all relevant field values from the source ccrz\_E\_Cart\_c record. This method doesn't perform the DML insert operation.

#### retrieveCartItems

Calls the ccrz.ccApiCart.fetchCartItems method for querying the ccrz\_E\_CartItem\_c records associated with the source ccrz E Cart c record.

#### processCartItems

Separates the fetched ccrz\_E\_CartItem\_c records into major and minor line items, and calls the ccrz.ccLogicCartPlace.createOrderItem method for creating corresponding ccrz\_E\_OrderItem\_c records.

### createOrderItem

Creates a ccrz\_E\_OrderItem\_c record by copying all relevant field values from a source ccrz\_E\_CartItem\_c record. This method also evaluates the source cart item's groups and subscriptions, and sorts the order item by whether it's a major or minor line item. The ccrz.ccLogicCartPlace.processCartItems method calls this method for each ccrz\_E CartItem c associated with the source cart.

#### performDMLOnOrder

Performs the DML insert operation on the order's billing and shipping addresses. Then, this method performs the DML update operation on the ccrz E Order c record.

#### processOrderGroups

Clones shipping addresses from source ccrz\_E\_CartItemGroup\_\_c records for the corresponding ccrz\_E\_OrderItemGroup\_\_c records. This method also inserts the created addresses and order item groups, and finally associates the order item groups with their corresponding order items.

#### performDMLOnOrderItems

Calls inner methods for performing the DML insert operation for the order's major and minor line items, and then evaluates whether the cart has a coupon applied.

#### insertMajorItems

Sets the ccrz\_\_Order\_\_c and ccrz\_\_RequestedDate\_\_c fields on each ccrz\_\_E\_OrderItem\_\_c record that represents a major line item in the order. Then, the method performs the DML insert operation on the ccrz\_E\_OrderItem\_c records.

#### insertMinorOrderItems

Sets the ccrz\_Order\_c, ccrz\_RequestedDate\_c, and ccrz\_ParentOrderItem\_c fields on each ccrz\_E\_OrderItem\_c record that represents a minor line item in the order. Then, the method performs the DML insert operation on the ccrz\_E\_OrderItem\_c records.

#### processOrderTerms

Creates and inserts ccrz E OrderTerm c records for the order.

#### closeCart

Updates fields on the source ccrz E Cart crecord to indicate that the cart is closed and a corresponding order was created.

### createStoredPayments

Evaluates whether to create a stored payment from the input payment data.

#### processSubscriptions

Creates ccrz E Subscription c records for any ccrz E SubProdTerm c records associated with the order.

#### processTransactionPayments

Evaluates whether to call the ccrz.cc\_hk\_Order.createTransaction extension point method, and then calls ccrz.ccPaymentProcessor methods for processing the payment.

#### changeOrderStatus

Updates fields on the created ccrz E Order c record to indicate that the order was placed.

#### processInvoices

Calls the ccrz.cc hk Invoice.onOrder extension point method for creating invoice for the order.

#### refetch

Call the ccrz.ccApiCart.fetch method for fetching the ordered cart.

#### placeOrder

Passes the input data to the ccrz.cc\_api\_Cart.placeEOrder public method, which invokes methods of the ccrz.cc\_hk\_Order and ccrz.cc\_hk\_Payment extension point classes. Those methods return data to this method, including the created order and the transaction details.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### handleCartPlaceException

Catches a ccrz.ccLogicCartPlace.CartPlaceException that occurs during the logic chain, and logs the exception message.

# ccrz.ccLogicCartPlace.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.place method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartPlace class in the following order, depending on which version of the managed package you're using:

#### B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12)

- 1. processInput
- 2. checkCartForAsyncPlace

Note: If the ccrz.ccApiCart.PLACE ASYNC key is true after this method completes, the ccrz.ccApiCart.placeAsync global method executes instead. The rest of the methods in this logic service provider class are skipped.

- 3. retrieveCartHeader
- 4. validateCartPricing
- 5. processAddresses
- 6. createOrderHeader

- 7. retrieveCartItems
- 8. processCartItems, which calls into createOrderItem
- 9. performDMLOnOrder
- 10. processOrderGroups
- 11. performDMLOnOrderItems, which calls into insertMajorItems and insertMinorOrderItems
- 12. processOrderTerms
- 13. closeCart
- 14. createStoredPayments
- 15. processSubscriptions
- 16. processTransactionPayments
- 17. changeOrderStatus
- 18. processInvoices
- 19. refetch
- 20. prepReturn

#### B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or earlier

- 1. processInput
- 2. placeOrder
- 3. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.

This method handles exceptions differently depending on which version of the managed package you're using:

#### B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12)

This method rethrows any ccrz.ccLogicCartPlace.CartPlaceException instances that occur during the logic chain, which ends processing and rolls back transactions. The ccrz.ccLogicCartPlace.handleCartPlaceException method catches these exceptions.

### B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or earlier

This method doesn't catch any exceptions that occur as the method executes.

SEE ALSO:

ccrz.ccApiCart.placeAsync

# ccrz.cc Logic Cart Place. process Input

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlace.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.

### **Outputs (Any Version)**

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartPlace.prepReturn method removes this intermediate key from the working map.

### Outputs (API Version 12 or Later Only)

In B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), this method also sets the following keys:



**Important**: The following keys aren't set in any earlier version.

#### ccrz.ccApi.SUCCESS

Boolean that's assigned an intermediate value of false. Subsequent methods in the logic chain update this value to true when the logic completes successfully.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

### ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE

Boolean that matches the value of the ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE input. If this key wasn't specified in the input data, this method sets a fallback value:

Value	Usage
true	The Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is true.
false	The Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is false or null.

#### ccrz.ccApiCart.PLACE\_ASYNC

Boolean that matches the value of the ccrz.ccApiCart.PLACE\_ASYNC input. If this key wasn't specified in the input data, this method sets a fallback value:

Value	Usage
true	The Checkout storefront configuration module's Process Orders Asynchronously setting (co.asyncorder) is true.
false	The Checkout storefront configuration module's Process Orders Asynchronously setting (co.asyncorder) is false or null.

#### ccrz.ccLogicCartPlace.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

# ccrz.ccLogic Cart Place.check Cart For Async Place

Evaluates the cart, storefront configuration settings, and input keys to determine whether to place the order synchronously or asynchronously.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> checkCartForAsyncPlace(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.processInput method completes.

This method requires either of the following keys in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.FORCE PLACE SYNC

Boolean

Value	Usage
true	Place the order synchronously, regardless of the value of the ccrz.ccApiCart.PLACE_ASYNC input.
false (default)	Default logic determines whether to place the order synchronously or asynchronously.

#### ccrz.ccApiCart.PLACE ASYNC

Boolean

Value	Usage
true	Place the order asynchronously by calling the ccrz.ccApiCart.placeAsync method.
false (default)	Place the order synchronously.

### Logic Performed

This method completes the following actions:

- 1. Evaluates whether any of the following criteria for synchronous cart pricing are satisfied:
  - The ccrz.ccApiCart.FORCE PLACE SYNC input key is true.
  - The buyer is a guest.
  - The Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is false or null.

If any of these criteria are satisfied, this method sets ccrz.ccApiCart.PLACE\_ASYNC to false, and the method exits. Otherwise, execution continues.

2. Evaluates whether the ccrz.ccApiCart.PLACE ASYNC input key already specifies a value.

- 3. Completes the following actions when the Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is true:
  - Finds the value of the Cart Scale storefront configuration module's Asynchronous Processing Threshold setting (cs.asyncthreshold).
  - Passes ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART\_ENCID as input for the ccrz.ccApiCart.fetch method.
  - Finds the value of the fetched ccrz E Cart crecord's ccrz NumberofAllCartItems c field.
  - Compares the total number of cart items with the Asynchronous Processing Threshold value. When the number of cart items exceeds the processing threshold, the order is placed asynchronously.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.PLACE ASYNC

Boolean

Value	Usage
true	The criteria determined that the order is placed asynchronously. This logic service provider skips the remaining methods in its logic chain, and calls ccrz.ccApiCart.placeAsyncinstead.
false	The criteria determined that the order is placed synchronously. This logic service provider's execution continues.

SEE ALSO:

ccrz\_E\_Cart\_\_c ccrz.ccApiCart.fetch

# ccrz.ccLogic Cart Place.retrieve Cart Header

Calls the ccrz.ccApiCart.fetch method for querying the  $ccrz\_E\_Cart\_c$  record to place an order from. This method can also evaluate the cart's  $ccrz\_ValidationStatus\_c$  before creating an order. Finally, this method also queries the cart's related  $ccrz\_E\_CartCoupon\_c$  and  $ccrz\_E\_ContactAddr\_c$  records, but doesn't query the cart's items.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> retrieveCartHeader(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.checkCartForAsyncPlace method completes.

This method requires either of the following keys in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.



Note: If neither key is specified, this method returns a ccrz.ccLogicCartPlace.CartPlaceException.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.SKIP\_VALID\_CHECK

Boolean

Value	Usage
true	During this method's execution, ignore the cart's ccrzValidationStatusc field and attempt to create an order from the cart.
false (default)	During this method's execution, verify that the cart's ccrzValidationStatusc field is set before creating an order for this cart. If the cart isn't valid, this method returns a ccrz.cc_api_Cart.CartValidationException.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following intermediate keys:

### ccrz.ccApiAddress.ADDRESSLIST

List<ccrz\_E\_ContactAddr\_c> of the cart's shipping or billing addresses. For more information about fetching address data with cart data, see ccrz.ccApiCart.fetch.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the fetched cart.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the fetched cart.

#### ccrz.ccApiCart.HAS COUPON CODE

Boolean

Value	Usage
true	The cart has a coupon applied.
false	The cart doesn't have any coupon applied.

### ccrz.ccLogicCartPlace.CART\_HEADER

ccrz E Cart c record that represents the cart to convert to an order.

#### ccrz.ccLogicCartPlace.COUPON TO UPDATE

List<ccrz E CartCoupon c> that contains a coupon associated with the cart.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicCartPlace.validateCartPricing

Evaluates whether the cart's price data is current.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> validateCartPricing(Map<String, Object>)

### Inputs (Required)

 $This \, method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, after \, the \, \texttt{ccrz.ccLogicCartPlace.retrieveCartHeader} \, method \, completes.$ 

This method requires the following keys in the working map:

### ccrz.ccLogicCartPlace.CART\_HEADER

ccrz\_E\_Cart\_\_c record that represents the cart to convert to an order.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE

Boolean

Value	Usage
true	Validate that the cart's price data is current before starting the order placement process.  Note: When you enable Cart Scale, this input is true by default.
false (default)	Don't validate that the cart's price data is current before starting order placement.

### Logic Performed

This method completes the following actions:

- 1. Checks whether the input data includes the ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE key with a value of true:
  - If so, this method continues.
  - If the input's value is false or not specified, this method exits.
- 2. Evaluates the cart's ccrz RepricedDate c field.
  - If the cart's price data is current, the logic chain continues.
  - If the cart's price data isn't current, this method returns a ccrz.cc api Cart.CartValidationException.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

## ccrz.ccLogicCartPlace.processAddresses

Copies the cart's billing and shipping addresses, so that the copies can apply to the order that this logic chain creates.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processAddresses(Map<String, Object>)

### Inputs (Required)

 $This method accepts the working \verb|Map| < String|, Object| > after the \verb|ccrz.ccLogicCartPlace.validateCartPricing| method completes.$ 

This method requires the following keys in the working map:

#### ccrz.ccApiAddress.ADDRESSLIST

List<ccrz E ContactAddr c> of the cart's shipping or billing addresses.

#### ccrz.ccLogicCartPlace.CART HEADER

ccrz E Cart c record that represents the cart to convert to an order.

### Logic Performed

This method completes the following actions:

- 1. Parses ccrz.ccApiAddress.ADDRESSLIST for the cart's ccrz\_\_BillTo\_\_c billing address, and clones the corresponding ccrz E ContactAddr c record.
- 2. Parses ccrz.ccApiAddress.ADDRESSLIST for the cart's ccrz\_ShipTo\_c shipping address, and clones the corresponding ccrz E ContactAddr\_c record.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccLogicCartPlace.ORDER_BILLING_ADDRESS
```

```
\verb"ccrz_E_ContactAddr_c" record cloned from the cart's billing address.
```

### ccrz.ccLogicCartPlace.ORDER SHIPPING ADDRESS

```
ccrz E ContactAddr c record cloned from the cart's shipping address.
```

This method also removes the following intermediate key from the working map:

• ccrz.ccApiAddress.ADDRESSLIST

```
SEE ALSO:
```

```
ccrz__E_Cart__c
ccrz__E_ContactAddr__c
```

# ccrz.ccLogicCartPlace.createOrderHeader

Creates the ccrz\_E\_Order\_c record by copying all relevant field values from the source ccrz\_E\_Cart\_c record. This method doesn't perform the DML insert operation.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> createOrderHeader(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.processAddresses method completes.

This method requires the following key in the working map:

#### ccrz.ccLogicCartPlace.CART\_HEADER

ccrz E Cart c record that represents the cart to convert to an order.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogicCartPlace.ORDER HEADER

```
ccrz E Order c record with relevant fields copied from the source ccrz E Cart c record.
```

SEE ALSO:

```
ccrz__E_Cart__c
ccrz__E_Order__c
```

# ccrz.ccLogicCartPlace.retrieveCartItems

Calls the ccrz.ccApiCart.fetchCartItems method for querying the  $ccrz\_E\_CartItem\_c$  records associated with the source  $ccrz\_E\_Cart$  c record.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### **Signature**

```
global virtual Map<String, Object> retrieveCartItems(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.createOrderHeader method completes.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to query items for.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogicCartPlace.CART\_ITEM\_FETCH\_RESPONSE

SEE ALSO:

ccrz.ccApiCart.fetchCartItems

## ccrz.ccLogicCartPlace.processCartItems

Separates the fetched ccrz\_E\_CartItem\_c records into major and minor line items, and calls the ccrz.ccLogicCartPlace.createOrderItem method for creating corresponding ccrz E OrderItem c records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processCartItems(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.retrieveCartItems method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the source cart.

#### ccrz.ccLogicCartPlace.CART HEADER

ccrz E Cart c record that represents the source cart.

#### ccrz.ccLogicCartPlace.CART ITEM FETCH RESPONSE

Map<String, Object> that contains the ccrz.ccApiCart.fetchCartItems output, including the ccrz E CartItem c records associated with the source cart.



**Note**: If this key doesn't reference any cart items, this method returns a ccrz.ccLogicCartPlace.CartPlaceException.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create items for.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPlace.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

### Logic Performed

This method completes the following actions:

- 1. Parses ccrz.ccLogicCartPlace.CART\_ITEM\_FETCH\_RESPONSE for ccrz\_\_E\_CartItem\_\_c records and sorts the items into separate maps of major and minor line items.
- 2. Checks for any ccrz\_E\_CartItemGroup\_c records from the source cart. If cart item groups exist, this method sets up corresponding ccrz\_E\_OrderItemGroup\_c records, and builds maps that relate each group's items and groups for subsequent processing:
  - One map, 'cartGroupToOrderItemGroup', that maps every source ccrz\_E\_CartItemGroup\_\_c—even
    groups that are empty and don't reference any individual ccrz\_E\_CartItem\_\_c records—to its corresponding
    ccrz\_E\_OrderItemGroup\_\_c.
  - A second map, 'orderIGroupsToAdd', that maps only ccrz\_\_E\_CartItemGroup\_\_c records that aren't empty—that reference individual ccrz\_E\_CartItem\_\_c records—with their corresponding ccrz\_E\_OrderItemGroup\_c records. Later, the ccrz.ccLogicCartPlace.processOrderGroups method inserts only the ccrz\_E\_OrderItemGroup\_c records that aren't empty.
  - A third map, 'cartGroupToOrderItems', that's initially empty.
  - Maps for managing the cart item group shipping addresses.
- **3.** Calls the ccrz.ccLogicCartPlace.createOrderItem inner method for each ccrz\_E\_CartItem\_c, which completes the following actions:
  - Creates a corresponding ccrz E OrderItem c.
  - Associates the ccrz\_E\_CartItem\_c with the appropriate ccrz\_E\_OrderItemGroup\_c in 'orderIGroupsToAdd'.
  - Associates the source ccrz\_E\_CartItemGroup\_c with the list of created ccrz\_E\_OrderItem\_c records in 'cartGroupToOrderItems'.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccLogicCartPlace.MAJOR\_ORDER\_ITEMS

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

### ccrz.ccLogicCartPlace.MINOR\_ORDER\_ITEMS

Map<String, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is a List<ccrz\_E\_OrderItem\_c> to create as minor line items for the ccrz\_E\_OrderItem\_c that corresponds to the major line item from the cart.

#### ccrz.cc hk Invoice.PARAM CART ITEMS

List<ccrz\_E\_CartItem\_c> of the original cart items included in the ccrz.ccLogicCartPlace.CART ITEM FETCH RESPONSE input.

Note: This output is returned only when the input data specifies ccrz.ccLogicCartPlace.INVOICE\_ENABLED => true.

#### 'addressToCartGroupMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of the ccrz\_E\_ContactAddr\_crecord that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.
- Each value is the Salesforce ID of a source ccrz E CartItemGroup c record.

### 'cartGroupAddressMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the Salesforce ID of the ccrz\_E\_ContactAddr\_crecord that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.

#### 'cartGroupToOrderItemGroup'

Map<ID, ccrz\_E\_OrderItemGroup\_c> that maps every source ccrz\_E\_CartItemGroup\_c—even groups that are empty and don't reference any individual ccrz\_E\_CartItem\_c records—to its corresponding ccrz\_E OrderItemGroup c:

- Each key is the Salesforce ID of a source ccrz\_\_E\_CartItemGroup\_\_c record.
- Each value is the corresponding ccrz E OrderItemGroup c record that the method created.

#### 'cartGroupToOrderItems'

Map<ID, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is a List<ccrz\_E\_OrderItem\_c of the order items that the ccrz.ccLogicCartPlace.createOrderItem created and included in the group.

#### 'orderIGroupsToAdd'

Map<ID, ccrz\_E\_OrderItemGroup\_c> that maps only ccrz\_E\_CartItemGroup\_c records that aren't empty—that reference individual ccrz\_E\_CartItem\_c records—with their corresponding ccrz\_E\_OrderItemGroup\_c records:

• Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.

Each value is the corresponding ccrz
 E OrderItemGroup
 c record that the method created.

#### SEE ALSO:

```
ccrz_E_CartItem__c
ccrz_E_CartItemGroup__c
ccrz_E_ContactAddr__c
ccrz_E_OrderItem__c
ccrz_E_OrderItemGroup__c
ccrz_ccz_cclogicCartPlace.createOrderItem
```

# ccrz.ccLogicCartPlace.createOrderItem

Creates a ccrz\_E\_OrderItem\_c record by copying all relevant field values from a source ccrz\_E\_CartItem\_c record. This method also evaluates the source cart item's groups and subscriptions, and sorts the order item by whether it's a major or minor line item. The ccrz.cclogicCartPlace.processCartItems method calls this method for each ccrz\_E\_CartItem\_c associated with the source cart.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> createOrderItem(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlace.processCartItems method

This method requires the following keys in the working map:

#### 'cartItemToCreate'

```
ccrz E CartItem c record to create an ccrz E OrderItem c from.
```

#### 'hasCurrencyIsoCode'

Boolean

Value	Usage
true	The org supports multiple currencies, which indicates that the created ccrz_E_OrderItemc must specify a value for the currencyIsoCode field.
false (default)	The storefront supports only one currency.

#### 'majorOrderItemMap'

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

#### 'minorOrderItemMap'

Map<String, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is a List<ccrz\_E\_OrderItem\_c> to create as minor line items for the ccrz\_E\_OrderItem\_c that corresponds to the major line item from the cart.

### 'workingMap'

Map<String, Object> that was passed to the ccrz.ccLogicCartPlace.processCartItems method and then to this method.

### Logic Performed

This method completes the following actions:

- 1. Creates an ccrz E OrderItem c from the source ccrz E CartItem c record.
- 2. Evaluates whether the source ccrz E CartItem c has an associated ccrz E SubProdTerm c.
- 3. Evaluates the order item's ccrz OrderLineType c and sorts the item into an appropriate map:
  - If the order item is a major line item or coupon, the method adds the order item to the map of major items.
  - Otherwise, the method adds the order item to the map of minor items.
- - Associates the ccrz\_E\_CartItem\_c with the appropriate ccrz\_E\_OrderItemGroup\_c in the 'orderIGroupsToAdd' key in the working map.
  - Associates the source ccrz\_E\_CartItemGroup\_c with the list of created ccrz\_E\_OrderItem\_c records in the 'cartGroupToOrderItems' key in the working map.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### 'hasSubProdTerm'

Boolean

Value	Usage
true	The source ccrz_E_CartItemc had an associated ccrz_E_SubProdTermc record.

Value	Usage		
false	The source ccrzE_CartItemc didn't have subscription data.		

#### SEE ALSO:

```
ccrz_E_CartItem__c
ccrz_E_OrderItem__c
ccrz.ccLogicCartPlace.processCartItems
```

# ccrz.ccLogicCartPlace.performDMLOnOrder

Performs the DML insert operation on the order's billing and shipping addresses. Then, this method performs the DML update operation on the ccrz E Order c record.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> performDMLOnOrder(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.processCartItems method completes.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPlace.ORDER HEADER

```
ccrz E Order c record that represents the order to insert.
```

#### 'orderBillingAddress'

ccrz E ContactAddr c record cloned from the order's billing address to insert.

#### 'orderShippingAddress'

ccrz E ContactAddr c record cloned from the order's shipping address to insert.

Note: The ccrz.ccLogicCartPlace.processAddresses method cloned the cart's billing and shipping addresses to create these ccrz\_E\_ContactAddr\_c records.

### Logic Performed

This method completes the following actions:

1. Performs the DML insert operation on the ccrz\_E\_ContactAddr\_c records for the order's billing and shipping addresses

- 2. Associates the inserted addresses with the ccrz E Order c record.
- 3. Performs the DML insert operation on the ccrz E Order c record.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccApiCart.ORDER ID
```

String that specifies the Salesforce ID of the inserted ccrz E Order c record.

SEE ALSO:

```
ccrz__E_ContactAddr__c
ccrz__E_Order__c
ccrz.ccLogicCartPlace.processAddresses
Inserting and Updating Records
```

# ccrz.ccLogicCartPlace.processOrderGroups

Clones shipping addresses from source ccrz\_\_E\_CartItemGroup\_\_c records for the corresponding ccrz\_\_E\_OrderItemGroup\_\_c records. This method also inserts the created addresses and order item groups, and finally associates the order item groups with their corresponding order items.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> processOrderGroups(Map<String, Object>)
```

#### Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.performDMLOnOrder method completes.

This method requires the following keys in the working map:

```
ccrz.ccLogicCartPlace.CART_HEADER
    ccrz_E_Cart__c record that represents the source cart.

ccrz.ccLogicCartPlace.ORDER_HEADER
    ccrz_E_Order__c record that represents the order to create.

'addressToCartGroupMap'
    Map<ID, ID>, where:
```

- Each key is the Salesforce ID of the ccrz\_E\_ContactAddr\_c record that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.
- Each value is the Salesforce ID of a source ccrz E CartItemGroup c record.

#### 'cartGroupAddressMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of a source corz E CartItemGroup c record.
- Each value is the Salesforce ID of the ccrz\_E\_ContactAddr\_crecord that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.

#### 'cartGroupToOrderItemGroup'

```
Map<ID, ccrz_E_OrderItemGroup_c> that maps every source ccrz_E_CartItemGroup_c—even groups that are empty and don't reference any individual ccrz_E_CartItem_c records—to its corresponding ccrz_E_OrderItemGroup_c:
```

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the corresponding ccrz E OrderItemGroup c record.

#### 'cartGroupToOrderItems'

Map<ID, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is a List<ccrz\_E\_OrderItem\_c of the order items that the ccrz.ccLogicCartPlace.createOrderItem created and included in the group.

#### 'orderIGroupsToAdd'

```
Map<ID, ccrz_E_OrderItemGroup_c> that maps only ccrz_E_CartItemGroup_c records that aren't empty—that reference individual ccrz_E_CartItem_c records—with their corresponding ccrz_E_OrderItemGroup_c records:
```

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the corresponding ccrz E OrderItemGroup c record.

### **Logic Performed**

This method completes the following actions:

- 2. Calls the ccrz.ccApiAddress.createAddress method for cloning the fetched shipping addresses.
- 3. Assigns the appropriate shipping address to each corresponding ccrz E OrderItemGroup c.
- **4.** Performs the DML insert operation for each ccrz\_E\_OrderItemGroup\_c record in 'orderIGroupsToAdd'.

  These groups reference the individual ccrz\_E\_OrderItem\_c records to create.
- **5.** Sets the ccrz\_\_OrderItemGroup\_\_c field on each ccrz\_\_E\_OrderItem\_\_c.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

#### SEE ALSO:

```
ccrz_E_CartItemGroup__c
ccrz_E_ContactAddr__c
ccrz_E_OrderItemGroup__c
ccrz.ccApiAddress.createAddress
ccrz.ccApiAddress.fetch
Inserting and Updating Records
```

## ccrz.ccLogicCartPlace.performDMLOnOrderItems

Calls inner methods for performing the DML insert operation for the order's major and minor line items, and then evaluates whether the cart has a coupon applied.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> performDMLOnOrderItems(Map<String, Object>)
```

### Inputs (Required)

 $This \, method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, after \, the \, \texttt{ccrz.ccLogicCartPlace.processOrderGroups} \, method \, completes.$ 

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.HAS COUPON CODE

Boolean

Value	Usage
true	The cart has a coupon applied.
false	The cart doesn't have any coupon applied.

#### ccrz.ccLogicCartPlace.COUPON TO UPDATE

List<ccrz E CartCoupon c> that contains a coupon associated with the cart.



Note: Although this input is a list, this method evaluates only the first record in the list.

### Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccLogicCartPlace.insertMajorItems inner method.
- 2. Calls the ccrz.ccLogicCartPlace.insertMinorOrderItems inner method.
- 3. Evaluates the ccrz.ccApiCart.HAS COUPON CODE input, and calls the ccrz.ccApiCoupon.updateOnUse method for updating the coupon's usage.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCoupon.COUPONS UPDATED

List<ccrz E Coupon c> of the updated coupon records that the ccrz.ccApiCoupon.updateOnUse method returned.

SEE ALSO:

ccrz\_\_E\_CartCoupon\_\_c ccrz.ccApiCoupon.updateOnUse

# ccrz.ccLogicCartPlace.insertMajorItems

Sets the ccrz Order c and ccrz RequestedDate c fields on each ccrz E OrderItem c record that represents a major line item in the order. Then, the method performs the DML insert operation on the ccrz E OrderItem c records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> insertMajorItems(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlace.performDMLOnOrderItems method. This method requires the following keys in the working map:

### ccrz.ccLogicCartPlace.MAJOR\_ORDER\_ITEMS

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_OrderItem\_\_c
Inserting and Updating Records

# ccrz.ccLogicCartPlace.insertMinorOrderItems

Sets the ccrz\_Order\_c, ccrz\_RequestedDate\_c, and ccrz\_ParentOrderItem\_c fields on each ccrz\_E\_OrderItem\_c record that represents a minor line item in the order. Then, the method performs the DML insert operation on the ccrz\_E\_OrderItem\_c records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> insertMinorOrderItems(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlace.performDMLOnOrderItems method.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPlace.MAJOR ORDER ITEMS

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

#### ccrz.ccLogicCartPlace.MINOR ORDER ITEMS

Map<String, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz
   E CartItem c record that represents a major line item in the cart.
- Each value is a List<ccrz E OrderItem c> to create as minor line items for the ccrz E OrderItem c that corresponds to the major line item from the cart.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccLogicCartPlace.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.cc hk Invoice.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the inserted minor line items.



Note: This output is returned only when the input data specifies ccrz.cclogicCartPlace.INVOICE ENABLED => true.

SEE ALSO:

ccrz\_\_E\_OrderItem\_\_c

Inserting and Updating Records

# ccrz.ccLogicCartPlace.processOrderTerms

Creates and inserts ccrz E OrderTerm c records for the order.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processOrderTerms(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.performDMLOnOrderItems method completes.

This method requires the following keys in the working map:

```
ccrz.ccLogicCartPlace.CART HEADER
```

ccrz E Cart c record that represents the source cart.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPlace.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

### Logic Performed

This method completes the following actions:

- 1. Queries the ccrz E Term c records for the storefront.
- 2. Creates ccrz E OrderTerm c records for the order, based on the following criteria:
  - When the source ccrz\_E\_Cart\_\_c record's ccrz\_ShipMethod\_c field isn't null, this method creates an ccrz\_E\_OrderTerm\_c that references a ccrz\_E\_Term\_c record where ccrz\_Type\_c is Shipping.
  - When the source ccrz\_E\_Cart\_\_c record's ccrz\_TotalAmount\_\_c field is greater than zero, this method creates an ccrz E OrderTerm c that references a ccrz E Term c record where ccrz Type c is Billing.
- 3. Performs the DML insert operation on the ccrz E OrderTerm c records.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.cc hk Invoice.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the inserted order terms.



Mote: This output is returned only when the input data specifies ccrz.cclogicCartPlace.INVOICE\_ENABLED => true.

SEE ALSO:

```
ccrz__E_OrderTerm__c
ccrz__E_Term__c
Inserting and Updating Records
```

# ccrz.ccLogicCartPlace.closeCart

Updates fields on the source ccrz E Cart c record to indicate that the cart is closed and a corresponding order was created.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
qlobal virtual Map<String, Object> closeCart(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.processOrderTerms method completes.

This method requires the following key in the working map:

```
ccrz.ccLogicCartPlace.CART_HEADER
```

```
ccrz E Cart c record that represents the source cart.
```

# Logic Performed

This method completes the following actions:

1. Sets the following fields on the source ccrz E Cart c record:

Field	Value
ccrzActiveCartc	false
ccrzCartStatusc	Closed

2. Performs the DML update operation on the ccrz E Cart c record.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Inserting and Updating Records

# ccrz.ccLogicCartPlace.createStoredPayments

Evaluates whether to create a stored payment from the input payment data.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### **Signature**

global virtual Map<String, Object> createStoredPayments(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.closeCart method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA input.

### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create.

### Logic Performed

This method completes the following actions:

- 1. Checks the value of the My Wallet storefront configuration module's Enabled setting (wlt.enabled). If the configuration is true, execution continues.
- 2. Parses ccrz.ccApiCart.PAYMENTDATA to determine whether the buyer chose to save the payment information as a stored payment. If so, execution continues.

3. Calls the ccrz.cc\_hk\_Payment.createStoredPayment extension point method for creating a ccrz E StoredPayment c record from the payment data.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.createStoredPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

#### SEE ALSO:

```
ccrz__E_StoredPayment__c
```

ccrz.cc\_hk\_Payment.createStoredPayment

ccrz.cc\_hk\_Payment.processPayment

Salesforce Help Configure Payment Options Available on the Checkout Page

# ccrz.ccLogicCartPlace.processSubscriptions

Creates ccrz E Subscription c records for any ccrz E SubProdTerm c records associated with the order.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

#### Signature

global virtual Map<String, Object> processSubscriptions(Map<String, Object>)

### Inputs (Required)

 $This \, method \, accepts the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, after the \, \texttt{ccrz.ccLogicCartPlace.createStoredPayments} \\ method \, completes.$ 

This method requires the following keys in the working map:

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.createStoredPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create.

#### 'hasSubProdTerm'

Boolean

Value	Usage
true	The source ccrz_E_Cartc included a ccrz_E_CartItemc with an associated ccrz_E_SubProdTermc record.
false	The source ccrz_E_Cartc didn't have subscription data. This method exits without evaluating subscriptions.

### Logic Performed

This method completes the following actions:

- 1. Evaluates the 'hasSubProdTerm' input.
- 2. Calls the ccrz.cc\_hk\_Subscriptions.onOrder extension point method for creating the order's ccrz E Subscription c records.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogicCartPlace.SUB RESULT

Map<String, Object> that the ccrz.cc hk Subscriptions.onOrder method returned.

SEE ALSO:

ccrz E SubProdTerm c

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogic Cart Place.process Transaction Payments

Evaluates whether to call the ccrz.cc\_hk\_Order.createTransaction extension point method, and then calls ccrz.ccPaymentProcessor methods for processing the payment.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processTransactionPayments(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.processSubscriptions method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk\_Payment.PARAM TRANSACTION DATA input.

#### ccrz.ccApiCart.PAYMENTRESULT

Map<String, Object> that represents the output from the ccrz.cc\_hk\_Payment.processPayment extension point method.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.createStoredPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

#### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to create.

#### ccrz.ccLogicCartPlace.SUB RESULT

Map<String, Object> that the ccrz.cc hk Subscriptions.onOrder method returned.

# Logic Performed

This method completes the following actions:

- 1. Verifies that ccrz.ccApiCart.PAYMENTDATA and ccrz.ccApiCart.TRANSPAYMENTDATA exist for the order.
- 2. Calls the ccrz.cc\_hk\_Order.createTransaction extension point method for creating the order's transaction payment details.
- 3. Calls the ccrz.ccPaymentProcessor.process utility method for processing the transaction payment.
- 4. Calls the ccrz.ccPaymentProcessor.postProcess utility method for handling the payment's success or failure.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ${\tt ccrz.ccLogicCartPlace.TRANSACTION\_RESULT}$

Map<String, Object> that the ccrz.cc hk Order.createTransaction method returned.

### SEE ALSO:

```
ccrz_E_TransactionPayment__c
ccrz.cc_hk_Order.createTransaction
ccrz.ccPaymentProcessor.process
ccrz.ccPaymentProcessor.postProcess
```

# ccrz.ccLogicCartPlace.changeOrderStatus

Updates fields on the created ccrz E Order c record to indicate that the order was placed.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

```
global virtual Map<String, Object> changeOrderStatus(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.processTransactionPayments method completes.

This method requires the following keys in the working map:

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

```
ccrz.ccApiOrder.PARAM ORDER STATUS
```

String that specifies a status to set on the order when it's created.

## **Logic Performed**

This method completes the following actions:

- 1. Sets the ccrz OrderStatus c field on the ccrz E Order c record, in the following order of precedence:
  - a. The value of the ccrz.ccApiOrder.PARAM ORDER STATUS input, if specified.
  - **b.** On Hold if the cart or order indicates a tax exemption.
  - c. Order Submitted for all other cases.
- 2. Performs the DML update operation on the ccrz E Order c record.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

```
SEE ALSO:

ccrz__E_Order__c

Inserting and Updating Records
```

# ccrz.ccLogicCartPlace.processInvoices

Calls the ccrz.cc hk Invoice.onOrder extension point method for creating invoice for the order.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## **Signature**

global virtual Map<String, Object> processInvoices(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlace.changeOrderStatus method completes.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPlace.CART HEADER

ccrz E Cart c record that represents the source cart.

#### ccrz.ccLogicCartPlace.INVOICE ENABLED

Boolean that must be false for this method to execute.

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

#### ccrz.ccLogicCartPlace.MAJOR ORDER ITEMS

Map<String, ccrz\_E\_OrderItem\_\_c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

### ccrz.ccLogicCartPlace.ORDER HEADER

ccrz E Order c record that represents the order to place.

### ccrz.cc hk Invoice.PARAM CART ITEMS

List<ccrz\_E\_CartItem\_c> of the original cart items included in the ccrz.ccLogicCartPlace.CART ITEM FETCH RESPONSE input.

### ccrz.cc hk Invoice.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items.

### ccrz.cc hk Invoice.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the inserted order terms.

# Logic Performed

This method completes the following actions:

- 1. Verifies that ccrz.ccLogicCartPlace.INVOICE ENABLED is true. Otherwise, the method exits.
- 2. Passes the other inputs to the ccrz.cc\_hk\_Invoice.onOrder extension point method for creating the ccrz E Invoice c record for the order.

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

```
ccrz__E_Invoice__c
```

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.ccLogicCartPlace.refetch

Call the ccrz.ccApiCart.fetch method for fetching the ordered cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlace.processInvoices method.

This method requires the following keys in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of the cart to query.

## Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicCartPlace.placeOrder

Passes the input data to the ccrz.cc\_api\_Cart.placeEOrder public method, which invokes methods of the ccrz.cc\_hk\_Order and ccrz.cc\_hk\_Payment extension point classes. Those methods return data to this method, including the created order and the transaction details.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

Important: This method isn't used in the logic chain for B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12). The ccrz.cc\_api\_Cart.placeEOrder public method is deprecated in this version.

# Signature

global virtual Map<String, Object> placeOrder(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlace.processInput method. This method requires one of the following keys to execute:

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart to convert.

### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart to convert.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApi.API SIZING

Map<String, Object> that describes options for sizing and scoping the method's return data. This method supports ccrz.ccApi.SZ\_REFETCH => TRUE, which specifies that this method invokes ccrz.ccApiCart.fetch for returning the ordered cart.

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_REFETCH => TRUE
    }
}
```

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA input.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_PROCESSED\_DATA output.

#### ccrz.ccApiCart.PAYMENTRESULT

Map<String, Object> that represents the output from the ccrz.cc\_hk\_Payment.processPayment extension point method.

### ccrz.ccApiOrder.PARAM\_ORDER\_STATUS

String that specifies the status of the corresponding order. By default, this method expects the value Order Submitted.

# Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>,which contains one Map<String, Object> that represents the ccrz\_E\_Cart\_c record, which the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

#### ccrz.ccApiCart.ORDER ID

String that specifies the Salesforce ID of the created ccrz E Order c.

#### ccrz.ccApiCart.SUBCRESULT

Map<String, Object> that contains the results of the ccrz.cc\_hk\_Subscriptions.onOrder method, which is invoked from ccrz.cc api Cart.placeEOrder.

#### ccrz.ccApiCart.TRANSACTIONRESULT

Map<String, Object> that contains the results of the ccrz.cc\_hk\_Order.createTransaction method, which is invoked from ccrz.cc api Cart.placeEOrder.

#### SEE ALSO:

ccrz.ccApiCart.fetch ccrz.cc\_hk\_Payment.processPayment ccrz.cc\_hk\_Order.createTransaction

# ccrz.ccLogicCartPlace.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the appropriate method completes, depending on which version of the managed package you're using:

#### B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12)

ccrz.ccLogicCartPlace.refetch

### B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or earlier

 $\verb|ccrz.ccLogicCartPlace.placeOrder| \\$ 

## Outputs

This method removes the following intermediate keys from the working map, depending on which version of the managed package you're using, and returns the final Map<String, Object>:

#### B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12)

- ccrz.ccApiCart.PAYMENTDATA
- ccrz.ccApiCart.PAYMENTRESULT
- ccrz.ccApiCart.TRANSPAYMENTDATA
- ccrz.ccApiOrder.PARAM ORDER STATUS
- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicCartPlace.CART HEADER
- ccrz.ccLogicCartPlace.INVOICE ENABLED
- ccrz.ccLogicCartPlace.MAJOR ORDER ITEMS
- ccrz.ccLogicCartPlace.MINOR ORDER ITEMS
- ccrz.ccLogicCartPlace.ORDER BILLING ADDRESS
- ccrz.ccLogicCartPlace.ORDER HEADER
- ccrz.ccLogicCartPlace.ORDER SHIPPING ADDRESS
- ccrz.cc hk Invoice.PARAM CART ITEMS
- ccrz.cc hk Invoice.PARAM ORDER CHILD ITEMS
- ccrz.cc\_hk\_Invoice.PARAM\_ORDER\_TERMS

### B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or earlier

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogic Cart Place. handle Cart Place Exception

Catches a ccrz.ccLogicCartPlace.CartPlaceException that occurs during the logic chain, and logs the exception message.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> handleCartPlaceException(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that can include the following keys:

#### 'CartPlaceException'

ccrz.ccLogicCartPlace.CartPlaceException that occurred during the ccrz.ccLogicCartPlace.process method or its inner methods. The ccrz.ccLogicCartPlace.process method rethrows the exception after it's caught, which ends processing and rolls back transactions.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

# ccrz.ccLogicCartPlaceAsync

Define the business logic for converting a cart to an order using asynchronous Apex jobs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Global API Caller

ccrz.ccApiCart.placeAsync

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### prepareAsyncOrder

Wraps inner methods that execute synchronously during the initial ccrz.ccApiCart.placeAsync call. These methods determine whether the cart satisfies the requirements for placing an order.

#### retrieveCartHeader

Calls the ccrz.ccApiCart.fetch method for querying the ccrz\_E\_Cart\_c record to place an order from. This method can also evaluate the cart's ccrz\_ValidationStatus\_c before creating an order. Finally, this method also queries the cart's related ccrz\_E\_CartCoupon\_c and ccrz\_E\_ContactAddr\_c records, but doesn't query the cart's items. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

#### processAddresses

Copies the cart's billing and shipping addresses, so that the copies can apply to the order that this logic chain creates. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

#### createOrderHeader

Creates the ccrz\_E\_Order\_c record by copying all relevant field values from the source ccrz\_E\_Cart\_c record. This method doesn't perform the DML insert operation. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

#### performDMLOnOrder

Performs the DML insert operation on the order's billing and shipping addresses. Then, this method updates field values on the ccrz\_E\_Cart\_c and ccrz\_E\_Order\_c records, and performs the DML update operation on those records. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

#### validateCartPricing

Evaluates whether the cart's price data is current. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

#### enqueuePrice

Calls the System.enqueueJob method for adding the queueable ccLogicCartPlaceEnqueuePricing class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

#### enqueuePlace

Calls the System.enqueueJob method for adding the queueable ccLogicCartPlaceEnqueue class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code.

#### executeAsyncOrder

Wraps inner methods that execute during the recursive, asynchronous ccrz.ccApiCart.placeAsync calls. These methods process a subset of ccrz\_E\_CartItem\_c records from the source ccrz\_E\_Cart\_c and converts them to ccrz E OrderItem c records.

#### checkForInvalidItems

Evaluates whether the source ccrz\_E\_Cart\_\_c contains ccrz\_E\_CartItem\_\_c records where the ccrz\_ItemStatus\_\_c field's value is Invalid. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

#### retrieveCartItems

Determines how many ccrz\_E\_CartItem\_c records to process during the recursive job, and then calls the ccrz.ccApiCart.fetchCartItems method for querying them. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### process Cart I tems

Separates the batch of fetched ccrz\_E\_CartItem\_\_c records into major and minor line items, and calls the ccrz.ccLogicCartPlaceAsync.createOrderItem method for creating corresponding ccrz\_E\_OrderItem\_\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### createOrderItem

Creates a ccrz\_E\_OrderItem\_c record by copying all relevant field values from a source ccrz\_E\_CartItem\_c record. This method also evaluates the source cart item's groups and subscriptions, and sorts the order item by whether it's a major or minor line item. The ccrz.ccLogicCartPlaceAsync.processCartItems method calls this method for each ccrz\_E\_CartItem\_c associated with the source cart.

#### processOrderGroups

Clones shipping addresses from source ccrz\_\_E\_CartItemGroup\_\_c records for the corresponding ccrz\_E\_OrderItemGroup\_\_c records. This method also inserts the created addresses and order item groups, and finally associates the order item groups with their corresponding order items. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### performDMLOnOrderItems

Calls inner methods for performing the DML insert operation for the order's major and minor line items, and then evaluates whether the cart has a coupon applied. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

#### insertMajorItems

Sets the ccrz\_\_Order\_\_c and ccrz\_\_RequestedDate\_\_c fields on each ccrz\_\_E\_OrderItem\_\_c record that represents a major line item in the order. Then, the method performs the DML insert operation on the ccrz\_\_E\_OrderItem\_\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

#### insertMinorOrderItems

Sets the ccrz\_Order\_c, ccrz\_RequestedDate\_c, and ccrz\_ParentOrderItem\_c fields on each ccrz\_E\_OrderItem\_c record that represents a minor line item in the order. Then, the method performs the DML insert operation on the ccrz\_E\_OrderItem\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

#### enqueueNext

Determines whether more major line item <code>ccrz\_E\_CartItem\_c</code> records remain to be processed, and calls <code>ccrz.ccLogicCartPlaceAsync.enqueuePlace</code> for queueing the next job. This method executes only during the recursive, asynchronous <code>ccrz.ccApiCart.placeAsync</code> method calls.

#### processOrderTerms

Creates and inserts ccrz\_E\_OrderTerm\_c records for the order. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz E CartItem c records.

#### closeCart

Updates fields on the source  $ccrz\_E\_Cart\_\_c$  record to indicate that the cart is closed and a corresponding order was created. This method executes only during the final recursive  $ccrz\_ccApiCart.placeAsync$  method call that processes the remaining  $ccrz\_E\_CartItem\_\_c$  records.

### create Stored Payments

Evaluates whether to create a stored payment from the input payment data. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

#### processSubscriptions

Creates ccrz\_E\_Subscription\_c records for any ccrz\_E\_SubProdTerm\_c records associated with the order. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

### process Transaction Payments

Evaluates whether to call the ccrz.cc\_hk\_Order.createTransaction extension point method, and then calls ccrz.ccPaymentProcessor methods for processing the payment. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz E CartItem crecords.

#### changeOrderStatus

Updates fields on the created ccrz\_E\_Order\_\_c record to indicate that the order was placed. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

#### processInvoices

Calls the ccrz.cc\_hk\_Invoice.onOrder extension point method for creating invoice for the order. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E CartItem crecords.

#### sendOrderConfirmation

Calls the System.enqueueJob method for adding the queueable

ccrz.cc\_util\_OrderConfirmationEmail.ccUtilOrderConfirmationEmail class to the asynchronous Apex job queue for sending an order confirmation email. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_\_E\_CartItem\_\_c records.

### updateOrderOnError

Updates the status of the ccrz\_E\_Order\_c record and deletes the order's billing or shipping ccrz\_E\_ContactAddr\_c records when an exception occurs during asynchronous order placement. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

#### sendOrderFail

Calls the System.enqueueJob method for adding the queueable ccrz.cc\_util\_OrderConfirmationEmail.ccUtilOrderConfirmationEmail class to the asynchronous Apex job queue for sending an order failure email.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys. This method executes for every ccrz.ccApiCart.placeAsync call, regardless of whether it's the initial or a recursive call.

### handleCartPlaceException

Catches a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException that occurs during the logic chain, and logs the exception message.

# ccrz.ccLogicCartPlaceAsync.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.placeAsync method.

# Logic Performed

Asynchronous order placement consists of calls to the ccrz.ccApiCart.placeAsync method that occur in two phases:

#### Initial synchronous call

The initial ccrz.ccApiCart.placeAsync call enters a synchronous portion, where this method calls into the following inner methods:

- 1. processInput
- 2. prepareAsyncOrder, which calls other inner methods

#### Recursive, asynchronous calls

Each recursive ccrz.ccApiCart.placeAsync call enters an *asynchronous* portion, where this method calls into executeAsyncOrder, which calls other inner methods.



**Note:** The working map maintains an input key, ccrz.ccApiCart.PLACE\_ASYNC\_FINISH, that indicates the status of the logic chain. When this key is false, the logic is executing the synchronous portion. When this key becomes true, the logic is executing the asynchronous portion.

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.

This method rethrows any ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException instances that occur during the logic chain, which ends processing and rolls back transactions. The

ccrz.ccLogicCartPlaceAsync.handleCartPlaceException method catches these exceptions.

# ccrz.ccLogicCartPlaceAsync.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

 $This method \ accepts the \ working \ \texttt{Map} < \texttt{String, Object} > from \ the \ \texttt{ccrz.ccLogicCartPlaceAsync.process} \ method.$ 

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean that's assigned an intermediate value of false. Subsequent methods in the logic chain update this value to true when the logic completes successfully.

### ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE

Boolean that matches the value of the ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE input. If this key wasn't specified in the input data, this method sets a fallback value:

Value	Usage
true	The Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is true.
false	The Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is false or null.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

### ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

The ccrz.ccLogicCartPlace.prepReturn method removes these intermediate keys from the working map.

SEE ALSO:

ccrz.ccApiCart.placeAsync

# ccrz.ccLogicCartPlaceAsync.prepareAsyncOrder

Wraps inner methods that execute synchronously during the initial ccrz.ccApiCart.placeAsync call. These methods determine whether the cart satisfies the requirements for placing an order.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

global virtual Map<String, Object> prepareAsyncOrder(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlaceAsync.processInput method completes.

This method requires the following key in the working map:

### ccrz.ccApiCart.PLACE ASYNC FINISH

Boolean that must be false for this method to execute.

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the order placement process after the initial call.
false	The current method execution is the synchronous portion of the initial call that begins the order placement process.

# Logic Performed

During this synchronous call, this method invokes other methods of the ccrz.ccLogicCartPlaceAsync class in the following order:

- 1. retrieveCartHeader
- 2. processAddresses
- 3. createOrderHeader
- 4. performDMLOnOrder
- 5. validateCartPricing
- **6.** enqueuePlace when the cart's price data is current or enqueuePrice when the cart's price data isn't current
- 7. prepReturn

### Outputs

This method returns the working Map<String, Object> after all inner methods have completed. Refer to the individual method reference for more information about each method's outputs.

SEE ALSO:

ccrz.ccApiCart.placeAsync

# ccrz.ccLogicCartPlaceAsync.retrieveCartHeader

Calls the ccrz.ccApiCart.fetch method for querying the ccrz\_E\_Cart\_c record to place an order from. This method can also evaluate the cart's ccrz\_ValidationStatus\_c before creating an order. Finally, this method also queries the cart's related ccrz\_E\_CartCoupon\_c and ccrz\_E\_ContactAddr\_c records, but doesn't query the cart's items. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> retrieveCartHeader(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlaceAsync.prepareAsyncOrder method.

This method requires either of the following keys in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to convert.



Note: If neither key is specified, this method returns a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException.

# Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.SKIP VALID CHECK

Boolean

Value	Usage
true	During this method's execution, ignore the cart's ccrzValidationStatusc field and attempt to create an order from the cart.
false (default)	During this method's execution, verify that the cart's ccrzValidationStatusc field is set before creating an order for this cart. If the cart isn't valid, this method returns a ccrz.cc_api_Cart.CartValidationException.

## Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following intermediate keys:

#### ccrz.ccApiAddress.ADDRESSLIST

List<ccrz\_E\_ContactAddr\_\_c> of the cart's shipping or billing addresses. For more information about fetching address data with cart data, see ccrz.ccApiCart.fetch.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the fetched cart.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the fetched cart.

#### ccrz.ccApiCart.HAS COUPON CODE

Boolean

Value	Usage
true	The cart has a coupon applied.
false	The cart doesn't have any coupon applied.

### ccrz.ccLogicCartPlaceAsync.CART\_HEADER

ccrz E Cart c record that represents the cart to convert to an order.

### ccrz.ccLogicCartPlaceAysnc.COUPON TO UPDATE

List<ccrz E CartCoupon c> that contains a coupon associated with the cart.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogic Cart Place A sync. process Addresses

Copies the cart's billing and shipping addresses, so that the copies can apply to the order that this logic chain creates. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> processAddresses(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.retrieveCartHeader method completes.

This method requires the following keys in the working map:

```
ccrz.ccApiAddress.ADDRESSLIST
```

List<ccrz E ContactAddr c> of the cart's shipping or billing addresses.

#### ccrz.ccLogicCartPlaceAsync.CART HEADER

ccrz E Cart c record that represents the cart to convert to an order.

# Logic Performed

This method completes the following actions:

- 1. Parses ccrz.ccApiAddress.ADDRESSLIST for the cart's ccrz\_\_BillTo\_\_c billing address, and clones the corresponding ccrz\_E ContactAddr\_c record.
- 2. Parses ccrz.ccApiAddress.ADDRESSLIST for the cart's ccrz\_ShipTo\_c shipping address, and clones the corresponding ccrz E ContactAddr\_c record.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccLogicCartPlaceAsync.ORDER BILLING ADDRESS
```

ccrz E ContactAddr c record cloned from the cart's billing address.

```
ccrz.ccLogicCartPlaceAsync.ORDER SHIPPING ADDRESS
```

ccrz E ContactAddr c record cloned from the cart's shipping address.

This method also removes the following intermediate key from the working map:

ccrz.ccApiAddress.ADDRESSLIST

SEE ALSO:

```
ccrz_E_Cart__c
ccrz_E_ContactAddr_c
```

# ccrz.ccLogicCartPlaceAsync.createOrderHeader

Creates the ccrz\_E\_Order\_c record by copying all relevant field values from the source ccrz\_E\_Cart\_c record. This method doesn't perform the DML insert operation. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## **Signature**

```
global virtual Map<String, Object> createOrderHeader(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processAddresses method completes.

This method requires the following key in the working map:

```
{\tt ccrz.ccLogicCartPlaceAsync.CART\_HEADER}
```

```
ccrz E Cart c record that represents the cart to convert to an order.
```

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccLogicCartPlaceAsync.ORDER HEADER
```

```
ccrz E Order c record with relevant fields copied from the source ccrz E Cart c record.
```

SEE ALSO:

```
ccrz_E_Cart__c
ccrz_E_Order_c
```

# ccrz.ccLogic Cart Place A sync.per form DML On Order

Performs the DML insert operation on the order's billing and shipping addresses. Then, this method updates field values on the ccrz\_E\_Cart\_c and ccrz\_E\_Order\_c records, and performs the DML update operation on those records. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

```
global virtual Map<String, Object> performDMLOnOrder(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.createOrderHeader method completes.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPlaceAsync.CART HEADER

ccrz E Cart c record that represents the cart to convert to an order.

#### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz E Order c record that represents the order to insert.

### 'orderBillingAddress'

ccrz E ContactAddr c record cloned from the order's billing address to insert.

### 'orderShippingAddress'

ccrz E ContactAddr c record cloned from the order's shipping address to insert.



**Note**: The ccrz.ccLogicCartPlaceAsync.processAddresses method cloned the cart's billing and shipping addresses to create these ccrz E ContactAddr c records.

## Logic Performed

This method completes the following actions:

- 1. Performs the DML insert operation on the ccrz\_E\_ContactAddr\_c records for the order's billing and shipping addresses
- **2.** Associates the inserted addresses with the ccrz E Order c record.
- 3. Sets the ccrz\_OrderStatus\_c field on the ccrz\_E\_Order\_c record to In Creation.
- **4.** Performs the DML insert operation on the ccrz E Order c record.
- 5. Sets the following fields on the ccrz E Cart c record:

Field	Value
ccrzActiveCartc	false
ccrzCartStatusc	Processing

6. Performs the DML update operation on the ccrz E Cart c record.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

# ccrz.ccApiCart.ORDER\_ID

String that specifies the Salesforce ID of the inserted ccrz E Order c record.

#### SEE ALSO:

```
ccrz_E_Cart__c
ccrz_E_ContactAddr__c
ccrz_E_Order__c
ccrz.ccLogicCartPlaceAsync.processAddresses
Inserting and Updating Records
```

# ccrz.ccLogicCartPlaceAsync.validateCartPricing

Evaluates whether the cart's price data is current. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> validateCartPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.performDMLOnOrder method completes.

This method requires the following key in the working map:

### ccrz.ccLogicCartPlaceAsync.CART HEADER

ccrz E Cart c record that represents the cart to convert to an order.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiCart.ALLOW PRICING ON ASYNC ORDER

Boolean

Value	Usage	
true	If the ccrz.ccApiCart.ENFORCE_PRICE_VALIDATION_ON_PLACE input is <i>true</i> and the cart's price data isn't current, call the ccrz.ccApiCart.priceAsync method to reprice the cart.	
	Note: This behavior can cause issues with the cart's shipping and taxes, which are calculated based on the cart's previous price data, not the repriced cart. The ccrz.ccApiCart.priceAsync method doesn't update shipping or taxes. Consider creating an extension that updates shipping and tax calculations for asynchronous pricing.	
false (default)	If the cart's price data isn't current, the cart isn't repriced, and the order placement process fails.	

### ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE

Boolean

Value	Usage
true	Validate that the cart's price data is current before starting the order placement process.  Note: When you enable Cart Scale, this input is true by default.
false (default)	Don't validate that the cart's price data is current before starting order placement.

# Logic Performed

This method completes the following actions:

- 1. Checks whether the input data includes the ccrz.ccApiCart.ENFORCE\_PRICE\_VALIDATION\_ON\_PLACE key with a value of true:
  - If so, this method continues.
  - If the input's value is false or not specified, this method exits.
- 2. Evaluates the cart's ccrz RepricedDate c field.
  - If the cart's price data is current, this method then checks whether the input data includes the ccrz.ccApiCart.ALLOW\_PRICING\_ON\_ASYNC\_ORDER key with a value of true. If so, this method sets the ccrz.ccLogicCartPlaceAsync.PRICE IS STALE output to true.
  - If the cart's price data isn't current, this method returns a ccrz.cc api Cart.CartValidationException.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogicCartPlaceAsync.PRICE IS STALE

Boolean

Value	Usage	
true	The cart's price data isn't current.	
	Note: By default, this output is true only when calling the ccrz.ccApiCart.priceAsync method is required.	
false	The cart's price data is current.	

SEE ALSO:

ccrz\_E\_Cart\_\_c
ccrz.ccApiCart.priceAsync

# ccrz.ccLogicCartPlaceAsync.enqueuePrice

Calls the System.enqueueJob method for adding the queueable ccLogicCartPlaceEnqueuePricing class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.placeAsync method call.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## **Signature**

global virtual Map<String, Object> enqueuePrice(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.validateCartPricing method completes.

This method requires the following key in the working map:

#### ccrz.ccLogicCartPlaceAsync.PRICE IS STALE

Boolean that must be true for this method to execute.

Value	Usage
true	The cart's price data isn't current.
false	The cart's price data is current.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.PLACE ASYNC JOB ID

ID of the AsyncApexJob that represents the asynchronous Apex job that the System.enqueueJob method returned.

SEE ALSO:

enqueueJob(queueableObj)

Queueable Apex

# ccrz.ccLogic Cart Place A sync. en que ue Place

Calls the System.enqueueJob method for adding the queueable ccLogicCartPlaceEnqueue class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

global virtual Map<String, Object> enqueuePlace(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlaceAsync.validateCartPricing method completes.

This method requires the following key in the working map:

### ccrz.ccLogicCartPlaceAsync.PRICE IS STALE

Boolean that must be false for this method to execute.

Value	Usage
true	The cart's price data isn't current.
false	The cart's price data is current.

# Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.PLACE\_ASYNC\_JOB\_ID

ID of the AsyncApexJob that represents the asynchronous Apex job that the System.enqueueJob method returned.

SEE ALSO:

enqueueJob (queueableObj)

Queueable Apex

# ccrz.ccLogicCartPlaceAsync.executeAsyncOrder

Wraps inner methods that execute during the recursive, asynchronous ccrz.ccApiCart.placeAsync calls. These methods process a subset of ccrz\_E\_CartItem\_c records from the source ccrz\_E\_Cart\_c and converts them to ccrz\_E OrderItem c records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### **Signature**

qlobal virtual Map<String, Object> executeAsyncOrder(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object>after the ccrz.ccLogicCartPlaceAsync.processInput method completes.

This method requires the following key in the working map:

### ccrz.ccApiCart.PLACE ASYNC FINISH

Boolean that must be true for this method to execute.

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the order placement process after the initial call.
false	The current method execution is the synchronous portion of the initial call that begins the order placement process.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiCart.PRICING\_FOR\_ORDER\_FAILED

Boolean

Value	Usage
true	An error occurred when pricing the cart during the previous iteration of the recursive, asynchronous call. The logic chain returns a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException, and the ccrz.ccLogicCartPlaceAsync.updateOrderOnError method executes.  Note: This input is used only when the
	ccrz.ccApiCart.ALLOW_PRICING_ON_ASYNC_ORDER input is <i>true</i> and the cart was repriced because its price data wasn't current.
false (default)	No error occurred.

# Logic Performed

During each recursive, asynchronous call, this method invokes other methods of the ccrz.ccLogicCartPlaceAsync class in the following order for converting a subset of ccrz\_E\_CartItem\_c records to corresponding ccrz\_E\_OrderItem\_c records:

- 1. checkForInvalidItems
- 2. retrieveCartItems
  - Note: By default, B2B Commerce for Visualforce defines a batch size of 200 ccrz\_\_E\_CartItem\_\_c records that represent major line items and coupons. The batch size doesn't consider how many minor line items are associated with the major line items.
- 3. processCartItems, which calls into createOrderItem



Note: The logic chain specifies a database savepoint after the processCartItems method completes to allow for rollback when errors occur. This rollback applies only to the batch of items that the current job is processing, and not all items.

- 4. processOrderGroups
- 5. performDMLOnOrderItems, which calls into insertMajorItems and insertMinorOrderItems
- 6. enqueueNext, which calls into enqueuePlace
- 7. prepReturn

During the final recursive ccrz.ccApiCart.placeAsync call that processes the remaining ccrz E CartItem c records, this method invokes the remaining methods of the ccrz.ccLogicCartPlaceAsync class in the following order:

- 1. processOrderTerms
- 2. closeCart
- 3. createStoredPayments
- 4. processSubscriptions
- 5. processTransactionPayments
- 6. changeOrderStatus
- 7. processInvoices
- 8. sendOrderConfirmation
- 9. prepReturn



Note: If any exceptions occur during asynchronous processing, the updateOrderOnError and sendOrderFail methods execute.

### **Outputs**

This method returns the working Map<String, Object> after all inner methods have completed. Refer to the individual method reference for more information about each method's outputs.

# ccrz.ccLogicCartPlaceAsync.checkForInvalidItems

Evaluates whether the source ccrz\_E\_Cart\_c contains ccrz\_E\_CartItem\_c records where the ccrz ItemStatus c field's value is Invalid. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

global virtual Map<String, Object> checkForInvalidItems(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlaceAsync.executeAsyncOrder method.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

### **Logic Performed**

If the source ccrz\_E\_Cart\_c contains ccrz\_E\_CartItem\_c records where the ccrz\_ItemStatus\_c field's value is Invalid, this method returns a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz E Cartltem c

# ccrz.ccLogicCartPlaceAsync.retrieveCartItems

Determines how many ccrz\_E\_CartItem\_\_c records to process during the recursive job, and then calls the ccrz.ccApiCart.fetchCartItems method for querying them. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> retrieveCartItems(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.checkForInvalidItems method completes.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to guery items for.

# Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the previous recursive job.

#### ccrz.ccApiCart.CART PLACE BATCH SIZE

Integer that specifies the number of major cart items to process during each recursive job.



- If you don't specify a value for this input, the method defaults to 200 major cart items.
- The job also queries any minor cart items that are associated with the major cart items. As a result, the total number of processed ccrz\_\_E\_CartItem\_\_c records is higher than the specified batch size when the cart contains complex products.

# Logic Performed

This method completes the following actions:

- 1. Evaluates whether the input data already specifies a value for ccrz.ccApiCart.CART\_PLACE\_BATCH\_SIZE. Otherwise, the method sets a default value of 200 ccrz E CartItem c records to evaluate during the recursive job.
- 2. Evaluates whether the input data specifies ccrz.ccApiCart.CARTITEMLASTID:
  - If so, the method starts processing ccrz E CartItem c records from the final ID evaluated during the previous job.
  - Otherwise, the method starts processing ccrz\_E\_CartItem\_c records from the beginning of the ccrz\_E\_Cart\_c record's list of items.
- **3.** Executes a direct query of major item ccrz\_E\_CartItem\_c records for the source ccrz\_E\_Cart\_c.
  - Note: To keep the order of ccrz\_E\_CartItem\_c records consistent for subsequent recursive jobs, the query uses a SOQL ORDER BY Id clause.
- 4. Calls the ccrz.ccApiCart.fetchCartItems method for returning the batch of major cart items for the current job.
  - Note: The job also queries any minor cart items that are associated with the major cart items. As a result, the total number of processed ccrz\_\_E\_CartItem\_\_c records is higher than the specified batch size when the cart contains complex products.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

## ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the current recursive job.

### ccrz.ccLogicCartPlaceAsync.CART\_ITEM\_FETCH\_RESPONSE

Map<String, Object> that contains the major and minor ccrz\_E\_CartItem\_c line items that the ccrz.ccApiCart.fetchCartItems returned.

#### SEE ALSO:

```
ccrz__E_Cartl__c
ccrz__E_CartItem__c
ccrz.ccApiCart.fetchCartItems
```

# ccrz.ccLogicCartPlaceAsync.processCartItems

Separates the batch of fetched ccrz\_E\_CartItem\_c records into major and minor line items, and calls the ccrz.ccLogicCartPlaceAsync.createOrderItem method for creating corresponding ccrz\_E\_OrderItem\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

```
global virtual Map<String, Object> processCartItems(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.retrieveCartItems method completes.

This method requires the following keys in the working map:

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the source cart.

### $\verb"ccrz.ccLogicCartPlaceAsync.CART_HEADER"$

ccrz E Cart c record that represents the source cart.

#### ccrz.ccLogicCartPlaceAsync.CART ITEM FETCH RESPONSE

Map<String, Object> that contains the ccrz.ccApiCart.fetchCartItems output, including the ccrz E CartItem c records associated with the source cart.

Note: If this key doesn't reference any cart items, this method returns a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException.

### ccrz.ccLogicCartPlaceAsync.ORDER\_HEADER

ccrz E Order c record that represents the order to create items for.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccLogicCartPlaceAsync.INVOICE\_ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

# Logic Performed

This method completes the following actions:

- 1. Parses ccrz.ccLogicCartPlace.CART\_ITEM\_FETCH\_RESPONSE for ccrz\_\_E\_CartItem\_\_c records and sorts the items into separate maps of major and minor line items.
- 2. Checks for any ccrz\_E\_CartItemGroup\_c records from the source cart. If cart item groups exist, this method sets up corresponding ccrz\_E\_OrderItemGroup\_c records, and builds maps that relate each group's items and groups for subsequent processing:
  - One map, 'cartGroupToOrderItemGroup', that maps every source ccrz\_E\_CartItemGroup\_\_c—even
    groups that are empty and don't reference any individual ccrz\_E\_CartItem\_\_c records—to its corresponding
    ccrz\_E\_OrderItemGroup\_c.
  - A second map, 'orderIGroupsToAdd', that maps only ccrz\_E\_CartItemGroup\_c records that aren't empty—that reference individual ccrz\_E\_CartItem\_c records—with their corresponding ccrz\_E\_OrderItemGroup\_c records.Later, the ccrz.ccLogicCartPlaceAsync.processOrderGroups method inserts only the ccrz\_E\_OrderItemGroup\_c records that aren't empty.
  - A third map, 'cartGroupToOrderItems', that's initially empty.
  - Maps for managing the cart item group shipping addresses.
- 3. Calls the ccrz.ccLogicCartPlaceAsync.createOrderItem inner method for each ccrz\_E\_CartItem\_c, which completes the following actions:
  - Creates a corresponding ccrz E OrderItem c.
  - Associates the ccrz\_E\_CartItem\_c with the appropriate ccrz\_E\_OrderItemGroup\_c in 'orderIGroupsToAdd'.
  - Associates the source ccrz\_E\_CartItemGroup\_c with the list of created ccrz\_E\_OrderItem\_c records in 'cartGroupToOrderItems'.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

## ccrz.ccLogicCartPlaceAsync.MAJOR\_ORDER\_ITEMS

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

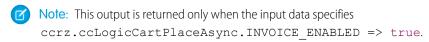
#### ccrz.ccLogicCartPlaceAsync.MINOR ORDER ITEMS

Map<String, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz
   E CartItem
   c record that represents a major line item in the cart.
- Each value is a List<ccrz\_E\_OrderItem\_c> to create as minor line items for the ccrz\_E\_OrderItem\_c that corresponds to the major line item from the cart.

### ccrz.cc hk Invoice.PARAM CART ITEMS

List<ccrz\_E\_CartItem\_c> of the original cart items included in the ccrz.ccLogicCartPlaceAsync.CART ITEM FETCH RESPONSE input.



#### 'addressToCartGroupMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of the ccrz\_E\_ContactAddr\_crecord that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.
- Each value is the Salesforce ID of a source ccrz E CartItemGroup c record.

#### 'cartGroupAddressMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the Salesforce ID of the ccrz\_E\_ContactAddr\_\_c record that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.

#### 'cartGroupToOrderItemGroup'

Map<ID, ccrz\_E\_OrderItemGroup\_c> that maps every source ccrz\_E\_CartItemGroup\_c—even groups that are empty and don't reference any individual ccrz\_E\_CartItem\_c records—to its corresponding ccrz\_E\_OrderItemGroup\_c:

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the corresponding ccrz E OrderItemGroup c record that the method created.

#### 'cartGroupToOrderItems'

Map<ID, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz\_E\_CartItemGroup\_c record.
- Each value is a List<ccrz\_E\_OrderItem\_c of the order items that the ccrz.ccLogicCartPlaceAsync.createOrderItem created and included in the group.

#### 'orderIGroupsToAdd'

```
Map<ID, ccrz_E_OrderItemGroup_c> that maps only ccrz_E_CartItemGroup_c records that aren't empty—that reference individual ccrz_E_CartItem_c records—with their corresponding ccrz_E_OrderItemGroup_c records:
```

Each key is the Salesforce ID of a source ccrz\_\_E\_CartItemGroup\_\_c record.

Each value is the corresponding ccrz
 E OrderItemGroup
 c record that the method created.

#### SEE ALSO:

```
ccrz__E_CartItem__c

ccrz__E_CartItemGroup__c

ccrz__E_ContactAddr__c

ccrz__E_OrderItem__c

ccrz__E_OrderItemGroup__c

ccrz_ccz_cclogicCartPlaceAsync.createOrderItem
```

# ccrz.ccLogicCartPlaceAsync.createOrderItem

Creates a ccrz\_E\_OrderItem\_c record by copying all relevant field values from a source ccrz\_E\_CartItem\_c record. This method also evaluates the source cart item's groups and subscriptions, and sorts the order item by whether it's a major or minor line item. The ccrz.ccLogicCartPlaceAsync.processCartItems method calls this method for each ccrz\_E\_CartItem\_c associated with the source cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> createOrderItem(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlaceAsync.processCartItems method.

This method requires the following keys in the working map:

## 'cartItemToCreate'

```
ccrz E CartItem crecord to create an ccrz E OrderItem c from.
```

#### 'hasCurrencyIsoCode'

Boolean

Value	Usage
true	The org supports multiple currencies, which indicates that the created ccrz_E_OrderItem_c must specify a value for the currencyIsoCode field.
false (default)	The storefront supports only one currency.

#### 'majorOrderItemMap'

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz
   E CartItem
   c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

#### 'minorOrderItemMap'

Map<String, List<ccrz E OrderItem c>>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is a List<ccrz\_E\_OrderItem\_c> to create as minor line items for the ccrz\_E\_OrderItem\_c that corresponds to the major line item from the cart.

# 'workingMap'

Map<String, Object> that was passed to the ccrz.ccLogicCartPlaceAsync.processCartItems method and then to this method.

# Logic Performed

This method completes the following actions:

- 1. Creates an ccrz E OrderItem c from the source ccrz E CartItem c record.
- 2. Evaluates whether the source ccrz E CartItem c has an associated ccrz E SubProdTerm c.
- **3.** Evaluates the order item's ccrz\_OrderLineType\_c and sorts the item into an appropriate map:
  - If the order item is a major line item or coupon, the method adds the order item to the map of major items.
  - Otherwise, the method adds the order item to the map of minor items.
- - Associates the ccrz\_E\_CartItem\_c with the appropriate ccrz\_E\_OrderItemGroup\_c in the 'orderIGroupsToAdd' key in the working map.
  - Associates the source ccrz\_E\_CartItemGroup\_c with the list of created ccrz\_E\_OrderItem\_c records in the 'cartGroupToOrderItems' key in the working map.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### 'hasSubProdTerm'

Boolean

Value	Usage
true	The source ccrz_E_CartItemc had an associated ccrz_E_SubProdTermc record.

Value	Usage		
false	The source ccrz_	_E_CartItem_	_c didn't have subscription data.

#### SEE ALSO:

```
ccrz_E_CartItem__c
ccrz_E_OrderItem__c
ccrz.ccLogicCartPlaceAsync.processCartItems
```

# ccrz.ccLogicCartPlaceAsync.processOrderGroups

Clones shipping addresses from source ccrz\_\_E\_CartItemGroup\_\_c records for the corresponding ccrz\_E\_OrderItemGroup\_\_c records. This method also inserts the created addresses and order item groups, and finally associates the order item groups with their corresponding order items. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

```
global virtual Map<String, Object> processOrderGroups(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processCartItems method completes.

This method requires the following keys in the working map:

```
ccrz.ccLogicCartPlaceAsync.CART HEADER
```

```
ccrz E Cart c record that represents the source cart.
```

### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz E Order c record that represents the order to create.

### 'addressToCartGroupMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of the ccrz\_E\_ContactAddr\_\_c record that the ccrz\_E\_CartItemGroup\_\_c record's ccrz\_ShipTo\_\_c field references.
- Each value is the Salesforce ID of a source ccrz\_\_E\_CartItemGroup\_\_c record.

### 'cartGroupAddressMap'

Map<ID, ID>, where:

- Each key is the Salesforce ID of a source corz E CartItemGroup c record.
- Each value is the Salesforce ID of the ccrz\_E\_ContactAddr\_c record that the ccrz\_E\_CartItemGroup\_c record's ccrz ShipTo c field references.

#### 'cartGroupToOrderItemGroup'

```
Map<ID, ccrz_E_OrderItemGroup_c> that maps every source ccrz_E_CartItemGroup_c—even groups that are empty and don't reference any individual ccrz_E_CartItem_c records—to its corresponding ccrz_E OrderItemGroup_c:
```

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the corresponding ccrz E OrderItemGroup c record.

#### 'cartGroupToOrderItems'

```
Map<ID, List<ccrz_E_OrderItem__c>>, where:
```

- Each key is the Salesforce ID of a source corz E CartItemGroup c record.
- Each value is a List<ccrz\_E\_OrderItem\_c of the order items that the ccrz.ccLogicCartPlaceAsync.createOrderItem created and included in the group.

#### 'orderIGroupsToAdd'

```
Map<ID, ccrz_E_OrderItemGroup_c> that maps only ccrz_E_CartItemGroup_c records that aren't empty—that reference individual ccrz_E_CartItem_c records—with their corresponding ccrz_E_OrderItemGroup_c records:
```

- Each key is the Salesforce ID of a source ccrz E CartItemGroup c record.
- Each value is the corresponding ccrz E OrderItemGroup c record.

# Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccApiAddress.fetch method for querying the ccrz\_E\_ContactAddr\_c records of the shipping addresses associated with each ccrz E CartItemGroup c.
- 2. Calls the ccrz.ccApiAddress.createAddress method for cloning the fetched shipping addresses.
- **3.** Assigns the appropriate shipping address to each corresponding ccrz **E** OrderItemGroup c.
- **4.** Performs the DML insert operation for each ccrz\_E\_OrderItemGroup\_c record in 'orderIGroupsToAdd'.

  These groups reference the individual ccrz\_E\_OrderItem\_c records to create.
- **5.** Sets the ccrz OrderItemGroup c field on each ccrz E OrderItem c.

#### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

### SEE ALSO:

```
ccrz_E_CartItemGroup__c
ccrz_E_ContactAddr__c
ccrz_E_OrderItemGroup__c
ccrz.ccApiAddress.createAddress
ccrz.ccApiAddress.fetch
Inserting and Updating Records
```

# ccrz.ccLogicCartPlaceAsync.performDMLOnOrderItems

Calls inner methods for performing the DML insert operation for the order's major and minor line items, and then evaluates whether the cart has a coupon applied. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> performDMLOnOrderItems(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processOrderGroups method completes.

# Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiCart.HAS\_COUPON\_CODE

Boolean

Value	Usage
true	The cart has a coupon applied.
false	The cart doesn't have any coupon applied.

### ${\tt ccrz.ccLogicCartPlaceAsync.COUPON\_TO\_UPDATE}$

List<ccrz E CartCoupon c> that contains a coupon associated with the cart.



Note: Although this input is a list, this method evaluates only the first record in the list.

# Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccLogicCartPlaceAsync.insertMajorItems inner method.
- 2. Calls the ccrz.ccLogicCartPlaceAsync.insertMinorOrderItems inner method.
- 3. Evaluates the ccrz.ccApiCart.HAS\_COUPON\_CODE input, and calls the ccrz.ccApiCoupon.updateOnUse method for updating the coupon's usage.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCoupon.COUPONS UPDATED

List<ccrz\_E\_Coupon\_\_c> of the updated coupon records that the ccrz.ccApiCoupon.updateOnUse method returned.

SEE ALSO:

```
ccrz_E_CartCoupon__c
ccrz.ccApiCoupon.updateOnUse
```

## ccrz.ccLogicCartPlaceAsync.insertMajorItems

Sets the ccrz\_Order\_c and ccrz\_RequestedDate\_c fields on each ccrz\_E\_OrderItem\_c record that represents a major line item in the order. Then, the method performs the DML insert operation on the ccrz\_E\_OrderItem\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> insertMajorItems(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlaceAsync.performDMLOnOrderItems method.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPlaceAsync.MAJOR ORDER ITEMS

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz\_\_E\_OrderItem\_\_c to create for the corresponding major line item in the order.

#### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz E Order c record that represents the order to create.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

```
ccrz__E_OrderItem__c
Inserting and Updating Records
```

# ccrz.ccLogicCartPlaceAsync.insertMinorOrderItems

Sets the ccrz\_\_Order\_\_c, ccrz\_\_RequestedDate\_\_c, and ccrz\_\_ParentOrderItem\_\_c fields on each ccrz\_\_E\_OrderItem\_\_c record that represents a minor line item in the order. Then, the method performs the DML insert operation on the ccrz\_\_E\_OrderItem\_\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> insertMinorOrderItems(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlace.performDMLOnOrderItems method.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPlaceAsync.MAJOR ORDER ITEMS

Map<String, ccrz\_E\_OrderItem\_c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

#### ccrz.ccLogicCartPlaceAsync.MINOR ORDER ITEMS

Map<String, List<ccrz\_E\_OrderItem\_c>>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is a List<ccrz\_E\_OrderItem\_c> to create as minor line items for the ccrz\_E\_OrderItem\_c that corresponds to the major line item from the cart.

#### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz\_E\_Order\_\_c record that represents the order to create.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.cc hk Invoice.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the inserted minor line items.



Note: This output is returned only when the input data specifies ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED => true.

#### SEE ALSO:

ccrz\_\_E\_OrderItem\_\_c Inserting and Updating Records

# ccrz.ccLogicCartPlaceAsync.enqueueNext

Determines whether more major line item ccrz E CartItem c records remain to be processed, and calls ccrz.ccLogicCartPlaceAsync.enqueuePlace for queueing the next job. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> enqueueNext(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.performDMLOnOrderItems method completes. This method requires the following keys in the working map:

#### ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the current recursive job.



Note: If this input isn't specified, this method doesn't execute correctly and can return an error.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to convert.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

## Logic Performed

This method completes the following actions:

- 1. Reads ccrz.ccApiCart.CARTITEMLASTID and determines where in the list of cart items the current recursive job finished processing.
- 2. Executes a direct query of ccrz\_E\_CartItem\_c records for the source ccrz\_E\_Cart\_c to determine whether more ccrz E CartItem c records remain to be processed:
  - If more ccrz\_E\_CartItem\_c records remain, this method sets the ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED output to true.
  - Otherwise, this method sets the ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED output to false.
- **3.** Sets ccrz.ccApiCart.CARTITEMLASTID for the next recursive job that ccrz.ccLogicCartPlaceAsync.enqueuePlace executes.

#### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED

Boolean

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

### SEE ALSO:

```
ccrz__E_CartItem__c
ccrz.ccLogicCartPlaceAsync.enqueuePlace
```

# ccrz.ccLogic Cart Place A sync. process Order Terms

Creates and inserts ccrz\_E\_OrderTerm\_c records for the order. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz E CartItem c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processOrderTerms(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.enqueueNext method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

### ${\tt ccrz.ccLogicCartPlaceAsync.CART\_HEADER}$

ccrz E Cart c record that represents the source cart.

### ${\tt ccrz.ccLogicCartPlaceAsync.ORDER\_HEADER}$

ccrz\_E\_Order\_\_c record that represents the order to create.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED

Boolean

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

## Logic Performed

This method completes the following actions:

- 1. Queries the ccrz E Term c records for the storefront.
- 2. Creates ccrz E OrderTerm c records for the order, based on the following criteria:
  - When the source ccrz\_E\_Cart\_\_c record's ccrz\_ShipMethod\_c field isn't null, this method creates an ccrz E OrderTerm c that references a ccrz E Term c record where ccrz Type c is Shipping.
  - When the source ccrz\_E\_Cart\_\_c record's ccrz\_TotalAmount\_\_c field is greater than zero, this method creates an ccrz\_E\_OrderTerm\_c that references a ccrz\_E\_Term\_c record where ccrz\_Type\_c is Billing.
- 3. Performs the DML insert operation on the ccrz E OrderTerm c records.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.cc hk Invoice.PARAM ORDER TERMS
```

List<ccrz E OrderTerm c> of the inserted order terms.

Note: This output is returned only when the input data specifies ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED => true.

SEE ALSO:

```
ccrz__E_OrderTerm__c
ccrz__E_Term__c
Inserting and Updating Records
```

# ccrz.ccLogic Cart Place A sync.close Cart

Updates fields on the source <code>ccrz\_\_E\_Cart\_\_c</code> record to indicate that the cart is closed and a corresponding order was created. This method executes only during the final recursive <code>ccrz.ccApiCart.placeAsync</code> method call that processes the remaining <code>ccrz\_ECartItem\_crecords</code>.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> closeCart(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processOrderTerms method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

#### $\verb|ccrz.ccLogicCartPlaceAsync.CART_HEADER| \\$

ccrz E Cart c record that represents the source cart.

## Logic Performed

This method completes the following actions:

1. Sets the following fields on the source ccrz\_E\_Cart\_c record:

Field	Value
ccrzActiveCartc	false
ccrzCartStatusc	Closed

2. Performs the DML update operation on the ccrz E Cart c record.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz E Cart c

Inserting and Updating Records

# ccrz.ccLogic CartPlace A sync.create Stored Payments

Evaluates whether to create a stored payment from the input payment data. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz E CartItem c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> createStoredPayments(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.closeCart method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk\_Payment.PARAM TRANSACTION DATA input.

### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

### ccrz.ccLogicCartPlaceAsync.ORDER\_HEADER

ccrz E Order c record that represents the order to create.

## Logic Performed

This method completes the following actions:

- 1. Checks the value of the My Wallet storefront configuration module's Enabled setting (wlt.enabled). If the configuration is true, execution continues.
- 2. Parses ccrz.ccApiCart.PAYMENTDATA to determine whether the buyer chose to save the payment information as a stored payment. If so, execution continues.
- 3. Calls the ccrz.cc\_hk\_Payment.createStoredPayment extension point method for creating a ccrz E StoredPayment c record from the payment data.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the  $\texttt{ccrz.cc\_hk\_Payment.createStoredPayment}$  extension point method's ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA output.

#### SEE ALSO:

ccrz\_E\_StoredPayment\_\_c
ccrz.cc\_hk\_Payment.createStoredPayment
ccrz.cc\_hk\_Payment.processPayment
Salesforce Help Configure Payment Options Available on the Checkout Page

# ccrz.ccLogicCartPlaceAsync.processSubscriptions

Creates ccrz\_E\_Subscription\_c records for any ccrz\_E\_SubProdTerm\_c records associated with the order. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processSubscriptions(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.createStoredPayments method completes.

This method requires the following keys in the working map:

### ccrz.ccApiCart.NEXT\_PLACE\_JOB\_ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

JSON-formatted string that describes payment information returned in the ccrz.cc\_hk\_Payment.createStoredPayment extension point method's ccrz.cc\_hk Payment.PARAM TRANSACTION PROCESSED DATA output.

#### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz E Order c record that represents the order to create.

#### 'hasSubProdTerm'

Boolean

Value	Usage
true	The source ccrz_E_Cartc included a ccrz_E_CartItemc with an associated ccrz_E_SubProdTermc record.
false	The source ccrz_E_Cartc didn't have subscription data. This method exits without evaluating subscriptions.

## Logic Performed

This method completes the following actions:

- 1. Evaluates the 'hasSubProdTerm' input.
- 2. Calls the ccrz.cc\_hk\_Subscriptions.onOrder extension point method for creating the order's ccrz E Subscription c records.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogicCartPlaceAsync.SUB RESULT

Map<String, Object> that the ccrz.cc hk Subscriptions.onOrder method returned.

# ccrz.ccLogic Cart Place A sync. process Transaction Payments

Evaluates whether to call the ccrz.cc\_hk\_Order.createTransaction extension point method, and then calls ccrz.ccPaymentProcessor methods for processing the payment. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz E CartItem crecords.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processTransactionPayments(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processSubscriptions method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrz_E_CartItemc records remain for processing.

#### ccrz.ccApiCart.PAYMENTDATA

JSON-formatted string that describes payment information passed to the ccrz.cc\_hk\_Payment.processPayment extension point method's ccrz.cc hk Payment.PARAM TRANSACTION DATA input.

#### ccrz.ccApiCart.PAYMENTRESULT

Map<String, Object> that represents the output from the ccrz.cc\_hk\_Payment.processPayment extension point method.

#### ccrz.ccApiCart.TRANSPAYMENTDATA

 $\label{local_control_control_control} JSON-formatted string that describes payment information returned in the \verb|ccrz.cc_hk_Payment.createStoredPayment| extension point method's \verb|ccrz.cc_hk_Payment.PARAM_TRANSACTION_PROCESSED_DATA| output.$ 

#### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz E Order c record that represents the order to create.

#### ccrz.ccLogicCartPlaceAsync.SUB RESULT

Map<String, Object> that the ccrz.cc hk Subscriptions.onOrder method returned.

### Logic Performed

This method completes the following actions:

- 1. Verifies that ccrz.ccApiCart.PAYMENTDATA and ccrz.ccApiCart.TRANSPAYMENTDATA exist for the order.
- 2. Calls the ccrz.cc\_hk\_Order.createTransaction extension point method for creating the order's transaction payment details.
- 3. Calls the ccrz.ccPaymentProcessor.process utility method for processing the transaction payment.
- 4. Calls the ccrz.ccPaymentProcessor.postProcess utility method for handling the payment's success or failure.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ${\tt ccrz.ccLogicCartPlaceAsync.TRANSACTION\_RESULT}$

Map<String, Object> that the ccrz.cc hk Order.createTransaction method returned.

#### SEE ALSO:

```
ccrz_E_TransactionPayment__c
ccrz.cc_hk_Order.createTransaction
ccrz.ccPaymentProcessor.process
ccrz.ccPaymentProcessor.postProcess
```

# ccrz.ccLogicCartPlaceAsync.changeOrderStatus

Updates fields on the created ccrz\_E\_Order\_\_c record to indicate that the order was placed. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E\_CartItem\_\_c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

```
global virtual Map<String, Object> changeOrderStatus(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processTransactionPayments method completes.

This method requires the following keys in the working map:

### ccrz.ccApiCart.NEXT\_PLACE\_JOB\_ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

### ccrz.ccLogicCartPlaceAsync.CART HEADER

ccrz E Cart c record that represents the source cart.

#### ccrz.ccLogicCartPlaceAsync.ORDER\_HEADER

ccrz E Order c record that represents the order to place.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiOrder.PARAM ORDER STATUS

String that specifies a status to set on the order when it's created.

### Logic Performed

This method completes the following actions:

- 1. Sets the ccrz OrderStatus c field on the ccrz E Order c record, in the following order of precedence:
  - a. The value of the ccrz.ccApiOrder.PARAM ORDER STATUS input, if specified.
  - **b.** On Hold if the cart or order indicates a tax exemption.
  - c. Order Submitted for all other cases.
- 2. Performs the DML update operation on the ccrz E Order c record.

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_Order\_\_c

Inserting and Updating Records

# ccrz.ccLogic Cart Place A sync. process Invoices

Calls the ccrz.cc\_hk\_Invoice.onOrder extension point method for creating invoice for the order. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processInvoices(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.changeOrderStatus method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.NEXT PLACE JOB ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrz_E_CartItemc records remain for processing.

#### $\verb"ccrz.ccLogicCartPlaceAsync.CART_HEADER"$

ccrz E Cart c record that represents the source cart.

#### ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED

Boolean that must be false for this method to execute.

Value	Usage
true	The Invoice storefront configuration module's Enabled setting (inv.enabled) is true.
false	The Invoice storefront configuration module's Enabled setting (inv.enabled) is false or null.

#### ccrz.ccLogicCartPlaceAsync.MAJOR ORDER ITEMS

Map<String, ccrz E OrderItem c>, where:

- Each key is the Salesforce ID of a source ccrz E CartItem c record that represents a major line item in the cart.
- Each value is the ccrz E OrderItem c to create for the corresponding major line item in the order.

#### ccrz.ccLogicCartPlaceAsync.ORDER HEADER

ccrz E Order c record that represents the order to place.

#### ccrz.cc\_hk\_Invoice.PARAM\_CART\_ITEMS

List<ccrz\_E\_CartItem\_c> of the original cart items included in the ccrz.ccLogicCartPlace.CART ITEM FETCH RESPONSE input.

#### ccrz.cc hk Invoice.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items.

#### ccrz.cc hk Invoice.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the inserted order terms.

### Logic Performed

This method completes the following actions:

1. Verifies that ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED is true. Otherwise, the method exits.

2. Passes the other inputs to the ccrz.cc\_hk\_Invoice.onOrder extension point method for creating the ccrz E Invoice c record for the order.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz E Invoice c

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.ccLogicCartPlaceAsync.sendOrderConfirmation

Calls the System.enqueueJob method for adding the queueable

ccrz.cc\_util\_OrderConfirmationEmail.ccUtilOrderConfirmationEmail class to the asynchronous Apex job queue for sending an order confirmation email. This method executes only during the final recursive ccrz.ccApiCart.placeAsync method call that processes the remaining ccrz E CartItem crecords.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> sendOrderConfirmation(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPlaceAsync.processInvoices method completes.

This method requires the following keys in the working map:

### ccrz.ccApiCart.NEXT\_PLACE\_JOB\_ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another recursive ccrz.ccApiCart.placeAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

#### ccrz.ccApiCart.ORDER ID

String that specifies the Salesforce ID of the ccrz E Order c record.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPlace.EMAIL TEMPLATE CONFIRM

String that specifies the name of the email template to use for the order confirmation email. The default template is CC Order AsyncConfirm. Optionally, specify a custom email template instead.

### Logic Performed

This method first verifies that the Send Confirmation Email storefront setting (orderFromEmail\_\_c) is enabled before enqueuing the class that sends the order confirmation email.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

enqueueJob(queueableObj)

Queueable Apex

Salesforce Help: Show Order Confirmation Details and Send Order Emails/

# ccrz.ccLogicCartPlaceAsync.updateOrderOnError

Updates the status of the  $ccrz\_E\_Order\_c$  record and deletes the order's billing or shipping  $ccrz\_E\_ContactAddr\_c$  records when an exception occurs during asynchronous order placement. This method executes only during the recursive, asynchronous ccrz.ccApiCart.placeAsync method calls.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

#### Signature

global virtual Map<String, Object> updateOrderOnError(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlaceAsync.executeAsyncOrder method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.ORDER ID

String that specifies the Salesforce ID of the ccrz E Order c record.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiCart.PRICING FOR ORDER FAILED

Boolean that must be true for this method to execute.

Value	Usage
true	An error occurred when pricing the cart during the previous iteration of the recursive, asynchronous call. The logic chain returns a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException.  Note: This input is used only when the ccrz.ccApiCart.ALLOW_PRICING_ON_ASYNC_ORDER input is true and the cart was repriced because its price data wasn't current.
false	No error occurred.

### Logic Performed

This method completes the following actions:

- 1. Verifies that the working map includes the ccrz.ccApiCart.PRICING FOR ORDER FAILED input with a value of true.
- 2. Performs the DML update operation on the ccrz\_E\_Order\_c and sets the ccrz\_OrderStatus\_c field to Error.
- **3.** Performs the DML delete operation on the ccrz\_E\_ContactAddr\_crecords that the ccrz\_E\_Order\_c record's ccrz\_BillTo\_c and ccrz\_ShipTo\_c fields reference.
- 4. Calls the ccrz.ccLogicCartPlaceAsync.sendOrderFail inner method for sending an order failure email.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_Order\_\_c

Inserting and Updating Records

Deleting Records

# ccrz.ccLogic Cart Place A sync. send Order Fail

Calls the System.enqueueJob method for adding the queueable

ccrz.cc\_util\_OrderConfirmationEmail.ccUtilOrderConfirmationEmail class to the asynchronous Apex job queue for sending an order failure email.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> sendOrderFail(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPlaceAsync.updateOrderOnError method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.ORDER ID

String that specifies the Salesforce ID of the ccrz\_E\_Order\_c record.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPlace.EMAIL TEMPLATE FAIL

String that specifies the name of the email template to use for the order failure email. The default template is CC Order\_AsyncFail. Optionally, specify a custom email template instead.

### Logic Performed

This method first verifies that the Send Confirmation Email storefront setting (orderFromEmail\_\_c) is enabled before enqueuing the class that sends the order failure email.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

enqueueJob(queueableObj)

Queueable Apex

Salesforce Help: Show Order Confirmation Details and Send Order Emails/

# ccrz.ccLogicCartPlaceAsync.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys. This method executes for every ccrz.ccApiCart.placeAsync call, regardless of whether it's the initial or a recursive call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the appropriate method completes, depending on which portion of the logic chain is currently executing:

### Initial synchronous call

```
ccrz.ccLogicCartPlaceAsync.enqueuePriceOrccrz.ccLogicCartPlaceAsync.enqueuePlaceduringccrz.ccLogicCartPlaceAsync.prepareAsyncOrder
```

#### Recursive, asynchronous calls

```
ccrz.ccLogicCartPlaceAsync.enqueueNext during
ccrz.ccLogicCartPlaceAsync.executeAsyncOrder
```

#### Final recursive call

```
ccrz.ccLogicCartPlaceAsync.sendOrderConfirmation during
ccrz.ccLogicCartPlaceAsync.executeAsyncOrder
```

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>:

- ccrz.ccApiCart.PAYMENTDATA
- ccrz.ccApiCart.PAYMENTRESULT
- ccrz.ccApiCart.TRANSPAYMENTDATA
- ccrz.ccApiOrder.PARAM ORDER STATUS
- ccrz.ccLogic.ORIGINAL\_INPUT
- ccrz.ccLogicCartPlaceAsync.CART HEADER
- ccrz.ccLogicCartPlaceAsync.INVOICE ENABLED
- ccrz.ccLogicCartPlaceAsync.MAJOR ORDER ITEMS
- ccrz.ccLogicCartPlaceAsync.MINOR ORDER ITEMS
- ccrz.ccLogicCartPlaceAsync.ORDER BILLING ADDRESS
- ccrz.ccLogicCartPlaceAsync.ORDER HEADER
- ccrz.ccLogicCartPlaceAsync.ORDER SHIPPING ADDRESS
- ccrz.cc hk Invoice.PARAM CART ITEMS
- ccrz.cc hk Invoice.PARAM ORDER CHILD ITEMS
- ccrz.cc hk Invoice.PARAM ORDER TERMS

# ccrz.ccLogic Cart Place Async. handle Cart Place Exception

Catches a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException that occurs during the logic chain, and logs the exception message.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> handleCartPlaceException(Map<String, Object>)

## Inputs (Required)

Map<String, Object> that can include the following keys:

#### 'CartPlaceException'

ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException that occurred during the ccrz.ccLogicCartPlaceAsync.process method or its inner methods. The ccrz.ccLogicCartPlaceAsync.process method rethrows the exception after it's caught, which ends processing and rolls back transactions.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

# ccrz.ccLogicCartPrice

Define the business logic for updating the price information for the items in a specified cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



(1) Important: In B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), this logic service provider class contains some differences from older versions. Pay close attention to the compatibility information listed for each inner method

### Global API Caller

ccrz.ccApiCart.price

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### checkCartForAsyncPricing

Evaluates the cart, storefront configuration settings, and input keys to determine whether to price the cart synchronously or asynchronously.

#### retrieveCartData

Calls the ccrz.ccApiCart.fetch method for querying the cart to price.

#### validateLastPriceDate

Evaluates whether the ccrz RepricedDate cfield on the ccrz E Cart c record is considered current, depending on the value of the Optimize Cart Repricing storefront configuration.

#### processCart

Evaluates the list of ccrz E CartItem crecords in the fetched cart, and sets null values for discount fields. Optionally, this method also consumes the result of the ccrz.cc api CartExtension.preprocess extension point method.

#### prepareCartItems

Identifies ccrz E CartItem c records to pass to or exclude from the subsequent pricing methods.

#### fetchPricingData

Calls the ccrz.ccApiProduct.fetch method and returns product pricing data for the cart items to reprice. If the fetched product data includes attributes, this method also calls the ccrz.ccApiAttribute.fetch method.

#### applyPricing

Loops through the cart items to reprice, and calls the appropriate inner method for setting each cart item's price. This method also ensures that major and minor line items remain associated with each other.

#### priceltem

Begins the For loop within the ccrz.ccLogicCartPrice.applyPricing method by evaluating the current cart item and determining the appropriate pricing logic.

#### evaluateSubProdtermPricing

Parses the subscription term for a cart item, and sets the item's corresponding price fields.

#### applySubscriptionPercentages

Adjusts the price for a cart item that's a minor line item for a kit or dynamic kit that defines a subscription term. This method applies the parent subscription's upfront and recurring percentage discounts to the child cart item, which previously had only standard pricing logic applied.

#### priceAttributeItem

Parses JSON attribute pricing data for a cart item, and sets the item's corresponding price fields.

#### checkCartItemValidity

Continues the For loop within the ccrz.ccLogicCartPrice.applyPricing method by evaluating validation criteria and updating the cart item's status.

#### evaluateComplexProducts

Evaluates cart items that are included in complex products and sets the status of each cart item. A *complex product* can be a bundle, kit, dynamic kit, assembly product, or attribute-based product.

#### performExternalPricing

Provides a placeholder for pricing a cart from an external source. By default, this method is empty and performs no default action.

#### performDMl

Removes cart items, combines externally priced cart items with other cart items, and finally executes the DML upsert operation for the updated cart item records.

#### applyCoupons

Creates a cart item for a coupon, and applies the coupon's discount to the cart.

#### refetch

Call the ccrz.ccApiCart.fetch method for fetching the repriced and updated cart and cart items.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicCartPrice.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.price method.

### **Logic Performed**

This method invokes other methods of the ccrz.ccLogicCartPrice class in the following order:

- 1. processInput
- 2. checkCartForAsyncPricing



#### Note:

- This method executes only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version
- If the ccrz.ccApiCart.PRICE ASYNC key is false after this method completes, the ccrz.ccApiCart.priceAsync global method executes instead. The rest of the methods in this logic service provider class are skipped.
- 3. retrieveCartData
- 4. validateLastPriceDate
- 5. processCart
- 6. prepareCartItems
- 7. fetchPricingData
- **8.** applyPricing, which calls the following inner methods:
  - **a.** priceItem for each cart item, which calls into the appropriate method for pricing different product scenarios:
    - evaluateSubProdTermPricing
    - applySubscriptionPercentages
    - priceAttributeItem
  - **b.** checkCartItemValidity for each cart item
  - c. evaluateComplexProducts
- 9. performExternalPricing
- 10. performDML, which calls into applyCoupons
- 11. refetch
- 12. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicCartPrice.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.process method.

This method checks that the input map specifies the following keys, and returns a ccrz.ccApi.MissingInputException if any key is missing:

#### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to price.

#### ccrz.ccApiCart.CART ID

String that specifies the cart ID to price.



Note: Include ccrz.ccApiCart.CART ENCID or ccrz.ccApiCart.CART ID, but not both.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartPrice.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicCartPrice.checkCartForAsyncPricing

Evaluates the cart, storefront configuration settings, and input keys to determine whether to price the cart synchronously or asynchronously.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> checkCartForAsyncPricing(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCartPrice.processInput method completes.

This method requires either of the following keys in the working map:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to price.

#### ccrz.ccApiCart.CART\_ID

String that specifies the cart ID to price.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.FORCE PRICE SYNC

Boolean

Value	Usage
true	Execute pricing synchronously, regardless of the value of the ccrz.ccApiCart.PRICE_ASYNC input.
false (default)	Default logic determines whether to price the cart synchronously or asynchronously.

#### ccrz.ccApiCart.PARTIAL CART UPDATE

Boolean

Value	Usage
true	Apply pricing, entitlements, and quantity updates only to a certain subset of cart items. The ccrz.ccLogicCartPrice.retrieveCartData method defines the business logic for the partial update.
false (default)	Execute default pricing logic.

#### ccrz.ccApiCart.PRICE ASYNC

Boolean

Value	Usage
true	Execute pricing asynchronously by calling the ccrz.ccApiCart.priceAsync method.
false (default)	Execute pricing synchronously.

#### ccrz.ccApiCart.SYNC MAX CART SIZE

Integer that specifies the maximum number of items that must be in a cart for synchronous processing. This value overrides the value of the Asynchronous Processing Threshold storefront configuration setting in the Cart Scale module (cs.asyncthreshold).

### Logic Performed

This method completes the following actions:

- **1.** Evaluates whether any of the following criteria for *synchronous* cart pricing are satisfied:
  - The ccrz.ccApiCart.FORCE PRICE SYNC input key is true.
  - The ccrz.ccApiCart.PARTIAL CART UPDATE input key is true.
  - The buyer is a guest.
  - The Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is false or null.

If any of these criteria are satisfied, this method sets ccrz.ccApiCart.PRICE\_ASYNC to false, and the method exits. Otherwise, execution continues.

- 2. Evaluates whether the ccrz.ccApiCart.PRICE ASYNC input key already specifies a value.
- 3. Completes the following actions when the Cart Scale storefront configuration module's Enable Cart Scale setting (cs.enable) is true:
  - Evaluates whether the ccrz.ccApiCart.SYNC\_MAX\_CART\_SIZE input key already specifies a value. If so, the method uses that input's value. Otherwise, this method finds the value of the Cart Scale storefront configuration module's Asynchronous Processing Threshold setting (cs.asyncthreshold).
  - Passes ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART\_ENCID as input for the ccrz.ccApiCart.fetch method.
  - Finds the value of the fetched ccrz E Cart crecord's ccrz NumberofAllCartItems c field.
  - Compares the total number of cart items with the ccrz.ccApiCart.SYNC\_MAX\_CART\_SIZE input value or Asynchronous Processing Threshold configuration value, whichever is used. When the number of cart items exceeds the processing threshold, the cart is priced asynchronously.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.PRICE ASYNC

Boolean

Value	Usage
true	The criteria determined that the cart is priced asynchronously. This logic service provider skips the remaining methods in its logic chain, and calls ccrz.ccApiCart.priceAsyncinstead.
false	The criteria determined that the cart is priced synchronously. This logic service provider's execution continues.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c ccrz.ccApiCart.fetch

# ccrz.ccLogicCartPrice.retrieveCartData

Calls the ccrz.ccApiCart.fetch method for querying the cart to price.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> retrieveCartData(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the appropriate method completes, depending on which version of the managed package you're using:

B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12)

ccrz.ccLogicCartPrice.checkCartForAsyncPricing

#### B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or earlier

ccrz.ccLogicCartPrice.processInput

This method requires either of the following keys in the working map:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to price.

#### ccrz.ccApiCart.CART ID

String that specifies the cart ID to price.



Note: If neither key is specified, this method returns ccrz.ccApiCart.CartPriceException.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiCart.PARTIAL CART UPDATE

Boolean

Value	Usage
true	Apply pricing, entitlements, and quantity updates only to a certain subset of cart items.
false (default)	Execute default pricing logic.

## Logic Performed

This method completes the following actions, depending on which version of the managed package you're using:

#### B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12)

- 1. Calls the ccrz.ccApiCart.fetch method for returning the cart to price.
- 2. Calls the ccrz.ccApiCart.fetchCartItems method for returning the cart's items.



Note: If the working map's ccrz.ccApiCart.PARTIAL CART UPDATE input is true, the ccrz.ccApiCart.fetchCartItems method call is adjusted in the following ways:

- Queries only a subset of ccrz E CartItem crecords, which the ccrz.ccApiCart.CARTITEM IDS input specifies.
- Passes a value of true for the ccrz.ccApiCart.CARTITEM INCLUDE CHILDREN input.

#### B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11) or earlier

Calls only the ccrz.ccApiCart.fetch method for returning the cart to price.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following intermediate keys:

#### 'cartItemList'

List<ccrz E CartItem c> of all the cart's items.

#### 'cartItemsToUpdate'

Map<String, Map<String, Object>> of the ccrz\_E\_CartItem\_c records to reprice. For example, when a buyer updates quantities of items in the cart, this list specifies the cart items that have changed. The working map's ccrz.ccApiCart.CILIST specified this map, which is keyed by cart item ID, and each nested Map<String, Object> defines the following subkeys:

#### ccrz.ccApiCart.CIQTY

Integer that specifies the item's quantity.

#### ccrz.ccApiCart.CICMTS

String that specifies the item's comments.

#### 'cartToPrice'

ccrz E Cart c that represents the cart to price.

#### 'skpPreProc'

Boolean

Value	Usage
true	The working map's ccrz.ccApiCart.CIPREPROC key specified a value of false to skip calling the ccrz.cc_api_CartExtension.preprocess extension point method.
false (default)	The working map's ccrz.ccApiCart.CIPREPROC key specified a value of true to call the ccrz.cc_api_CartExtension.preprocess extension point method.

#### SEE ALSO:

ccrz.ccApiCart.fetch
ccrz.ccApiCart.fetchCartItems

# ccrz.ccLogicCartPrice.validateLastPriceDate

Evaluates whether the ccrz\_\_RepricedDate\_\_c field on the ccrz\_\_E\_Cart\_\_c record is considered current, depending on the value of the Optimize Cart Repricing storefront configuration.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

### **Signature**

global virtual Map<String, Object> validateLastPriceDate(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.retrieveCartData method. This method requires the following key in the working map:

#### 'cartToPrice'

ccrz E Cart c that represents the cart to evaluate.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean

Value	Usage
true	Skip the logic in this method, and immediately return the working Map <string, object="">.</string,>
false (default)	Execute the logic in this method.

## Logic Performed

This method completes the following actions:

- 1. Evaluates whether input data already specifies a value for ccrz.ccApiCart.SKIP\_CART\_PRICING. Otherwise, the method continues.
- 2. Finds the value of the Cart storefront configuration module's Optimize Cart Repricing setting (c.optCartReprice).
- **3.** Evaluates whether any of the following criteria are satisfied, and if so, sets a value for ccrz.ccApiCart.SKIP\_CART\_PRICING:
  - If the ccrz.ccApiCart.HAS\_COUPON\_CODE input is true, the method sets ccrz.ccApiCart.SKIP CART PRICING to false.
  - If the cart's ccrz\_\_RepricedDate\_\_c date matches the current date, the method sets ccrz.ccApiCart.SKIP\_CART\_PRICING to *true*.
  - If the cart's ccrz\_\_RepricedDate\_\_c is more recent than the Valid Prices Date storefront setting, the method sets ccrz.ccApiCart.SKIP\_CART\_PRICING to *true*.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean

Value	Usage
true	Skip the following methods:
	• processCart
	• prepareCartItems
	• fetchPricingData
	• applyPricing
	• performDML
	This method returns true when either or both of the following conditions are satisfied:
false	Execute the next method in the process chain.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Salesforce Help Optimize How Frequently the Shopping Cart Page Calls Price Logic

# ccrz.ccLogicCartPrice.processCart

Evaluates the list of ccrz\_E\_CartItem\_c records in the fetched cart, and sets null values for discount fields. Optionally, this method also consumes the result of the ccrz.cc\_api CartExtension.preprocess extension point method.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processCart(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.validateLastPriceDate method.

This method requires the following keys in the working map:

#### 'cartItemList'

List<ccrz\_E\_CartItem\_\_c> of all the cart's items.

#### 'cartToPrice'

ccrz\_\_E\_Cart\_\_c that represents the cart to evaluate.

### ccrz.ccApiCart.SKIP\_CART\_PRICING

Boolean

Value	Usage
true	Skip this method.
false	Execute this method.

# Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### 'skpPreProc'

Boolean

Value	Usage
true	Skip calling the ccrz.cc_api_CartExtension.preprocess extension point method.
false (default)	Call the ccrz.cc_api_CartExtension.preprocess extension point method, and apply its return data to the working map:
	• Use the cart specified by ccrz.cc_api_CartExtension.PARAM_CART for this method's 'cartToPrice'.
	• Use the cart items specified by ccrz.cc_api_CartExtension.PARAM_CARTITEMS for this method's 'cartItemList'.

# Outputs

This method returns the working Map<String, Object>, and sets the following fields on each ccrz\_E\_CartItem\_c record:

ccrzE_CartItemc Field	Value
ccrzAbsoluteDiscountc	null
ccrzAdjustmentAmountc	null
ccrzPercentDiscountc	null

ccrzE_CartItemc Field	Value
ccrzPricingModifierTypesc	null

#### SEE ALSO:

```
ccrz_E_CartItem__c
ccrz.cc_api_CartExtension.preprocess
```

# ccrz.ccLogicCartPrice.prepareCartItems

Identifies ccrz E CartItem c records to pass to or exclude from the subsequent pricing methods.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepareCartItems(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.processCart method. This method requires the following keys in the working map:

#### 'cartItemList'

```
List<ccrz_E_CartItem__c> of all the cart's items.
```

#### 'cartItemsToUpdate'

Map<String, Map<String, Object>> of the ccrz\_E\_CartItem\_c records to reprice. For example, when a buyer updates quantities of items in the cart, this list specifies the cart items that have changed. The working map's ccrz.ccApiCart.CILIST specified this map, which is keyed by cart item ID, and each nested Map<String, Object> defines the following subkeys:

#### ccrz.ccApiCart.CIQTY

Integer that specifies the item's quantity.

#### ccrz.ccApiCart.CICMTS

String that specifies the item's comments.

#### 'cartToPrice'

ccrz E Cart c that represents the cart to evaluate.

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean

Value	Usage
true	Skip this method.
false	Execute this method.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'attributes'

 $Set < String > of attribute | Ds, populated from each cart item's \verb|ccrz_PrimaryAttr_c|, ccrz_SecondaryAttr_c|, and \verb|ccrz_TertiaryAttr_c| fields.$ 

#### 'cartItemsToDelete'

List<ccrz\_E\_CartItem\_c> of the items to remove from the working map. By default, this method adds a cart item to this list when the item meets any of the following criteria:

- The cart item's quantity changed to 0.
- The cart item's ccrz ProductType c field has the value Coupon.

#### 'cartItemsToPrice'

List<ccrz\_E\_CartItem\_\_c> of the items to pass to subsequent pricing methods. For each cart item, this method updates the values of the following fields:

ccrzE_CartItemc <b>Field</b>	Value
ccrzCommentsc	Value of the 'cartItemsToUpdate' input key's ccrz.ccApiCart.CICMTS subkey
ccrzItemStatusc	Available
ccrzQuantityc	Value of the 'cartItemsToUpdate' input key's ccrz.ccApiCart.CIQTY subkey
ccrzPricec	Note: This value is an initial value. The inner methods of ccrz.ccLogicCartPrice.applyPricing evaluate each cart item and update this value.

#### 'externalCartItems'

 $\label{list} \verb| List < \verb| ccrz _ E _ Cart | tem _ c > of the items where \verb| ccrz _ Pricing Type _ c | is external. These items are excluded from the subsequent pricing methods.$ 

#### 'majorsWExtChild'

List<String> of cart item IDs that are major line items with child cart items where ccrz\_\_PricingType\_\_c is external. These items are excluded from the subsequent pricing methods.

#### 'pricingInputs'

Map<String, Object> of input data for a ccrz.ccApiProduct.fetch query, which the ccrz.ccLogicCartPrice.fetchPricingData method executes. This map includes:

- Available data from other return data keys—such as 'products', 'attributes', 'sellers', and 'spts'—which
  specify parameters for the fetch query.
- The key value ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true, which ensures that the fetch query returns ccrz.ccApiProduct.PRODUCTPRICINGDATA and ccrz.ccApiAttribute.IDS, if applicable.

#### 'products'

Set<String> of product IDs, populated from each cart item's ccrz Product c field.

#### 'sellers'

Set<String> of seller IDs, populated from each cart item's ccrz\_\_Seller\_\_c field.

#### 'spts'

Set<String> of subscription term IDs, populated from each cart item's ccrz SubProdTerm c field.

#### SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

ccrz.ccApiProduct.fetch

Salesforce Help Host a Seller Marketplace on Your Storefront

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.cc Logic Cart Price. fetch Pricing Data

Calls the ccrz.ccApiProduct.fetch method and returns product pricing data for the cart items to reprice. If the fetched product data includes attributes, this method also calls the ccrz.ccApiAttribute.fetch method.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> fetchPricingData(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.prepareCartItems method. This method requires the following key in the working map:

#### 'pricingInputs'

Map<String, Object> of input data for a ccrz.ccApiProduct.fetch query. This map includes:

- Products, attributes, sellers, and subscription terms parameters, if applicable.
- The key value ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true, which ensures that the fetch query returns ccrz.ccApiProduct.PRODUCTPRICINGDATA and ccrz.ccApiAttribute.IDS, if applicable.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiProduct.fetch outputs. In particular, the subsequent pricing methods evaluate the following output keys:

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, Object> that describes ccrz\_E\_Attribute\_c records related to the queried products. The ccrz.ccApiAttribute.fetch method returns this map.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

SEE ALSO:

ccrz.ccApiProduct.fetch ccrz.ccApiAttribute.fetch

# ccrz.ccLogicCartPrice.applyPricing

Loops through the cart items to reprice, and calls the appropriate inner method for setting each cart item's price. This method also ensures that major and minor line items remain associated with each other.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> applyPricing(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.fetchPricingData method. This method requires the following keys in the working map:

#### 'cartItemsToPrice'

```
Map<String, ccrz E CartItem c> of the items to price.
```

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, Object> that describes ccrz\_E\_Attribute\_c records related to the queried products. The ccrz.ccApiAttribute.fetch method returns this map.

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

## Logic Performed

This method completes the following actions:

1. For each cart item, the method creates an intermediate map and passes it to the ccrz.ccLogicCartPrice.priceItem inner method:

#### pricingInputs

Map<String, Object> that contains the following keys that the ccrz.ccLogicCartPrice.priceItem inner method evaluates for an individual cart item:

#### 'cartItem'

```
ccrz E CartItem c to evaluate.
```

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, Object> that describes ccrz E Attribute c records related to the queried products.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

### 'parentItem'

```
The parent ccrz E CartItem c of 'cartItem'.
```

- 2. For each cart item, the method creates another intermediate map and calls the ccrz.ccLogicCartPrice.checkCartItemValidity inner method.
- 3. If the cart item is included in a *complex product*, the method adds the item and its parent to another intermediate map. A complex product can be a bundle, kit, dynamic kit, assembly product, or a cart item where ccrz PricingType c is ATTRGROUP.

#### complexCartItems

Map<String, List<ccrz\_E\_CartItem\_\_c>>, keyed by parent cart item ID, that describes major cart line items and its associated minor cart line items.

**4.** After evaluating all cart items, the method passes the complexCartItems map to the ccrz.ccLogicCartPrice.evaluateComplexProducts inner method.

## Outputs

This method returns the working Map<String, Object> after the appropriate inner methods complete, and sets the following keys:

#### 'cartItems'

Map<String, ccrz\_E\_CartItem\_c> of cart items passed in from 'cartItemsToPrice' and updated with the result of the inner methods.



**Note**: If a cart item's parent is a bundle, the method sets the following fields on the item's ccrz\_E\_CartItem\_c record:

ccrzE_CartItemc Field	Value
ccrzPricec	0.00
ccrzSubAmountc	0.00

#### 'cartToUpdate'

A new ccrz\_\_E\_Cart\_\_c record where ccrz\_\_RepricedDate\_\_c is set.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c
Salesforce Help Create a Bundle

## ccrz.ccLogicCartPrice.priceItem

Begins the For loop within the ccrz.ccLogicCartPrice.applyPricing method by evaluating the current cart item and determining the appropriate pricing logic.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> priceItem(Map<String, Object>)

## Inputs (Required)

This method accepts the pricingInputs Map<String, Object> from the ccrz.ccLogicCartPrice.applyPricing method. The map can include the following keys:

#### 'cartItem'

```
ccrz E CartItem c to evaluate.
```

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

#### 'parentItem'

```
The parent ccrz E CartItem c of 'cartItem'.
```

## Outputs

This method returns the input Map<String, Object>, updated with the results of the appropriate pricing logic:

Scenario	Result
ccrz.ccApiProduct.PRODUCTPRICINGDATA isempty.	The current user isn't entitled to the product. This method sets the cart item's price to -1, which causes the ccrz.ccLogicCartPrice.checkCartItemValidity method to set the cart item's ccrzItemStatusc to Invalid.
$\verb ccrz.ccApiProduct.PRODUCTPRICINGDATA  contains seller data$	Set the cart item's price from the seller's price list item. If the seller isn't listed, this cart item becomes invalid.
The cart item's ccrzCartItemTypec is Major and the cart item has a value for ccrzSubProdTermc.	Call the ccrz.ccLogicCartPrice.evaluateSubProdtermPricing method to determine the cart item's price.
The cart item has a value for ccrzSelectedAttrc.	Evaluate whether ccrz.ccApiProduct.PRODUCTPRICINGDATA includes attribute pricing data. If so, call the ccrz.ccLogicCartPrice.priceAttributeItem method to determine the cart item's price.
The cart item's ccrzPricingTypec is ATTRGROUP.	Set the following fields on the ccrz_E_CartItem_c record:  ccrz_OriginalItemPrice_c is 0.00  ccrz_Price_c is 0.00  ccrz_Quantity_c is 1  ccrz_SubAmount_c is 0.00
The cart item has a value for ccrzPricingModifierTypesc.	Evaluate the product's pricing tiers, and apply the correct price based on the item's quantity.
The cart item's ccrzCartItemTypec is Minor and the cart item's parent has a subscription term.	Call the ccrz.ccLogicCartPrice.applySubscriptionPercentages method to update the cart item's price.

Scenario	Result	
All other scenarios	Apply standard pricing and set the following fields on the ccrzE_CartItemc record:  • ccrzOriginalItemPricec	
	• ccrzPricec	
	• ccrz_SubAmountc	

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

Salesforce Help Host a Seller Marketplace on Your Storefront

## ccrz.ccLogicCartPrice.evaluateSubProdtermPricing

Parses the subscription term for a cart item, and sets the item's corresponding price fields.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> evaluateSubProdtermPricing(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPrice.priceItem method. The map can include the following keys:

#### 'cartItem'

ccrz E CartItem c to evaluate.

#### 'spt4Price'

Map<String, Object> that describes the ccrz\_E\_SubProdTerm\_c record that the cart item references.

## Outputs

This method returns the input Map<String, Object> and updates the values of the following ccrz\_\_E\_CartItem\_\_c fields.



Note: By default, this method applies price information from the modifier subscription term with the lowest Sequence value.

ccrz_E_CartItemc Field	Value
ccrzOriginalItemPricec	The same value as ccrzPricec.
ccrzPricec	The subscription's upfront (non-recurring) price.
ccrzRecurringPricec	The subscription's recurring price.
ccrzRecurringPriceSubAmtc	The recurring price multiplied by quantity.
ccrzSubAmountc	The upfront price multiplied by quantity.

SEE ALSO:

ccrz\_\_E\_SubProdTerm\_\_c

Salesforce Help Offer Subscriptions for Products on Your Storefront

## ccrz.ccLogicCartPrice.applySubscriptionPercentages

Adjusts the price for a cart item that's a minor line item for a kit or dynamic kit that defines a subscription term. This method applies the parent subscription's upfront and recurring percentage discounts to the child cart item, which previously had only standard pricing logic applied.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> applySubscriptionPercentages(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPrice.priceItem method. The map can include the following keys:

#### 'cartItem'

ccrz E CartItem c that's a minor line item under a kit or dynamic kit.

#### 'parent'

The parent ccrz\_E\_CartItem\_c of 'cartItem'. This cart item must be a kit or dynamic kit that defines a subscription term.

#### 'sptMap'

Map<String, Object> that describes the ccrz E SubProdTerm c record that the cart item references.

### Outputs

This method returns the input Map<String, Object> and updates the values of the following ccrz\_E\_CartItem\_\_c fields.



Note: By default, this method applies price information from the modifier subscription term with the lowest Sequence value.

ccrz_E_CartItemc Field	Value
ccrzPricec	The standard price of the cart item, adjusted by the subscription's upfront (non-recurring) percentage.
ccrzRecurringPricec	The standard price of the cart item, adjusted by the subscription's recurring percentage.
ccrzRecurringPriceSubAmtc	The recurring price multiplied by quantity.
ccrzSubAmountc	The upfront price multiplied by quantity.

#### SEE ALSO:

ccrz\_\_E\_SubProdTerm\_\_c

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogic Cart Price.price Attribute I tem

Parses JSON attribute pricing data for a cart item, and sets the item's corresponding price fields.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> priceAttributeItem(Map<String, Object>)
```

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPrice.priceItem method. The map can include the following keys:

#### 'cartItem'

ccrz E CartItem c that's a minor line item under a kit or dynamic kit.

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, ccrz\_E\_Attribute\_c> returned from the ccrz.ccApiAttribute.fetch query that the ccrz.ccLogicCartPrice.fetchPricingData method invoked.

#### 'attributePricing'

Map<String, Object> that includes the deserialized JSON attribute pricing data from the corresponding price list item.

## Outputs

This method returns the input Map<String, Object> and updates the values of the following ccrz\_\_E\_CartItem\_\_c fields.

ccrzE_CartItemc Field	Value
ccrzPricec	The price specified by the cart item's applicable primary, secondary, or tertiary attribute.
ccrzSubAmountc	The price multiplied by quantity.

#### SEE ALSO:

```
ccrz_E_CartItem__c
ccrz.ccApiAttribute.fetch
ccrz.ccLogicCartPrice.fetchPricingData
```

## ccrz.ccLogicCartPrice.checkCartItemValidity

Continues the For loop within the ccrz.ccLogicCartPrice.applyPricing method by evaluating validation criteria and updating the cart item's status.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> checkCartItemValidity(Map<String, Object>)
```

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPrice.applyPricing method. The map can include the following keys:

#### 'cartItem'

```
ccrz E CartItem c to evaluate.
```

#### 'parentItem'

The parent ccrz E CartItem c of 'cartItem'.

## Outputs

This method returns the input Map<String, Object> and sets the value of the ccrz\_E\_CartItem\_c record's ccrz\_ItemStatus\_c field to Invalid for any of the following conditions:

- The cart item's price is negative.
- The corresponding product's Start Date or End Date is invalid for the current date.
- The product's ccrz\_\_ProductStatus\_\_c field has a value other than Released, and the product isn't a component of a bundle.

When the cart item is invalid, this method also sets the following fields:

ccrz_E_CartItemc Field	Value
ccrzOriginalItemPricec	The same value as ccrzPricec.
ccrzPricec	-1
ccrzRecurringPricec	null
ccrzRecurringPriceSubAmtc	null
ccrzSubAmountc	null



Note: If the cart item has a parent cart item, this method also sets the parent item's status to Invalid.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

## ccrz.ccLogicCartPrice.evaluateComplexProducts

Evaluates cart items that are included in complex products and sets the status of each cart item. A *complex product* can be a bundle, kit, dynamic kit, assembly product, or attribute-based product.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> evaluateComplexProducts(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPrice.applyPricing method. The map can include the following keys:

#### 'cartItems'

Map<String, ccrz\_E\_CartItem\_c> of cart items that have parent cart items, or cart items that are part of attribute-based products (where ccrz\_PricingType\_c is ATTRGROUP).

#### 'completeInputData'

Map<String, Object> of the working map passed from ccrz.ccLogicCartPrice.applyPricing.

#### 'complexCartItems'

Map<String, List<ccrz\_E\_CartItem\_c>>, keyed by parent cart item ID, that describes major cart line items and its associated minor cart line items.

### Outputs

This method returns the input Map<String, Object> and sets the value of the ccrz\_E\_CartItem\_c record's ccrz ItemStatus c field to Invalid for any of the following conditions:

The cart item is a major line item for a complex product (other than an assembly product) but it doesn't have any child cart items.

- The cartitem's ccrz\_\_PricingType\_\_c is ATTRGROUP and contains child cartitems where the ccrz\_\_ItemStatus\_\_c is already set to Invalid. This method also sets the major line item to Invalid.
- The cart item is a major line item for a kit or dynamic kit and contains child cart items where the ccrz\_\_ItemStatus\_\_c is already set to Invalid. This method also sets the major line item to Invalid.

When the cart item is invalid, this method also sets the following fields:

ccrz_E_CartItemc Field	Value
ccrzOriginalItemPricec	The same value as ccrzPricec.
ccrzPricec	-1
ccrzRecurringPricec	null
ccrzRecurringPriceSubAmtc	null
ccrzSubAmountc	null

For a kit or dynamic kit, this method also evaluates any subscription terms applied to the major line item, and sets the following fields:

ccrz_E_CartItemc Record	Field	Value
Major line item (composite product for a kit or dynamic kit)	ccrzRecurringPricec	Calculated from the child cart item's ccrzRecurringPricec
	ccrzRecurringPriceSubAmtc	Recurring price multiplied by quantity.
Child line item (component product for a	ccrzRecurringPricec	null
kit or dynamic kit)	ccrzRecurringPriceSubAmtc	null

#### SEE ALSO:

Salesforce Help Types of Products for B2B Commerce for Visualforce

# ccrz.ccLogicCartPrice.performExternalPricing

Provides a placeholder for pricing a cart from an external source. By default, this method is empty and performs no default action.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> performExternalPricing(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCartPrice.applyPricing method completes. This method executes only when both of the following conditions are satisfied:

- The Automatically Calculate Price Adjustment storefront setting (AutoCalcPriceAdjust c) is enabled.
- The working map includes the ccrz.ccApiCart.FETCH EXTERNAL PRICING key with a value of true.

By default, this method doesn't evaluate any input data.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

## ccrz.ccLogicCartPrice.performDML

Removes cart items, combines externally priced cart items with other cart items, and finally executes the DML upsert operation for the updated cart item records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> performDML(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> after the appropriate method completes:

- ccrz.ccLogicCartPrice.performExternalPricing when external pricing applies
- ccrz.ccLogicCartPrice.applyPricing otherwise

This method requires the following keys in the working map:

#### 'cartItemsToDelete'

List<ccrz\_E\_CartItem\_c> of the items to remove from the working map. By default, the items to delete are those records that meet any of the following criteria:

- The cart item's quantity changed to 0.
- The cart item's ccrz ProductType c field has the value Coupon.

#### 'cartItemsToPrice'

Map<String, ccrz E CartItem c> of the items that previous methods have priced and that are ready for upsert.

This method also calls the ccrz.ccLogicCartPrice.applyCoupons inner method for adding a coupon cart item after the upsert operation completes.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### 'externalCartItems'

List<ccrz\_E\_CartItem\_c> of the items where ccrz\_PricingType\_c is external. The previous pricing methods in this process chain excluded these items, but this method adds these items back to 'cartItemsToPrice' for upsert.

## Outputs

This method returns the working Map<String, Object> after the upsert operation completes and after invoking the ccrz.ccLogicCartPrice.applyCoupons method.

SEE ALSO:

**Upserting Records** 

## ccrz.ccLogicCartPrice.applyCoupons

Creates a cart item for a coupon, and applies the coupon's discount to the cart.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

- In API version 10 or later, this method calls the ccrz.ccApiCoupon.apply method, which creates the coupon cart item, applies the discount, and executes the corresponding DML operations.
- In API version 9 or earlier, this method calls the ccrz.cc\_util\_Coupon.applyCouponsToCart method, which creates the coupon cart item and applies the discount.

```
global virtual Map<String, Object> applyCoupons(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.performDML method.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

```
'cartItemsToPrice'
```

```
Map<String, ccrz E CartItem c> of items in the cart.
```

#### 'externalCartItems'

List<ccrz\_E\_CartItem\_c> of the items where ccrz\_PricingType\_c is external. This method combines 'externalCartItems' with 'cartItemsToPrice' so that the coupon evaluates all items in the cart.

## Outputs

This method returns the working Map<String, Object> after invoking the ccrz.ccApiCoupon.apply method.

SEE ALSO:

ccrz.ccApiCoupon.apply

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

## ccrz.ccLogicCartPrice.refetch

Call the ccrz.ccApiCart.fetch method for fetching the repriced and updated cart and cart items.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartPrice.performDML method. This method requires the following keys in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

## ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart to query.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of the cart to query.



Note: Include ccrz.ccApiCart.CART\_ENCID or ccrz.ccApiCart.CART\_ID, but not both.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs.

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogicCartPrice.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPrice.refetch method.

## Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccLogic.ORIGINAL\_INPUT
- 'cartItemList'
- 'cartItemsToDelete'
- 'cartItemsToPrice'
- 'cartItemsToUpdate'
- 'cartToPrice'
- 'externalCartItems'
- 'majorsWExtChild'
- 'productPricingData'
- 'skpPreProc'

# ccrz.ccLogicCartPriceAsync

Define the business logic for converting a cart to an order using asynchronous Apex jobs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Global API Caller

ccrz.ccApiCart.priceAsync

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.priceAsync method call.

#### retrieveCartData

Calls the ccrz.ccApiCart.fetch method for querying the ccrz\_E\_Cart\_\_c record to price. Finally, this method also queries the cart's related ccrz\_E\_CartCoupon\_\_c records, but doesn't query the cart's items. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

#### validateLastPriceDate

Evaluates whether the ccrz\_\_RepricedDate\_\_c field on the ccrz\_\_E\_Cart\_\_c record is considered current, depending on the value of the Optimize Cart Repricing storefront configuration. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

#### prepareAsyncPrice

Wraps inner methods that execute synchronously during the initial ccrz.ccApiCart.priceAsync call. These methods determine whether to price the cart. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.priceAsync method call.

#### enqueuePricing

Calls the System.enqueueJob method for adding the queueable ccLogicCartPriceEnqueue class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code.

#### updateCartHeader

Sets fields on the ccrz\_E\_Cart\_\_c record to reference the asynchronous Apex job ID, update the cat's status, and set the repriced date. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

#### performDMLOnCart

Performs the DML update operation on the ccrz\_E\_Cart\_\_c record to price. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

#### executeAsyncPrice

Wraps inner methods that execute during the recursive, asynchronous ccrz.ccApiCart.priceAsync calls. These methods process a subset of ccrz E CartItem c records from the source ccrz E Cart c.

#### retrieveCartItems

Determines how many ccrz\_E\_CartItem\_c records to price during the recursive job, and then calls the ccrz.ccApiCart.fetchCartItems method for querying them. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### prepareCartItems

Identifies ccrz\_E\_CartItem\_\_c records to pass to or exclude from the subsequent pricing methods. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### fetchPricingData

Calls the ccrz.ccApiProduct.fetch method and returns product pricing data for the cart items to reprice. If the fetched product data includes attributes, this method also calls the ccrz.ccApiAttribute.fetch method. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### applyPricing

Loops through the cart items to reprice, and calls the appropriate inner method for setting each cart item's price. This method also ensures that major and minor line items remain associated with each other. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### priceltem

Begins the For loop within the ccrz.ccLogicCartPriceAsync.applyPricing method by evaluating the current cart item and determining the appropriate pricing logic. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### evaluateSubProdtermPricing

Parses the subscription term for a cart item, and sets the item's corresponding price fields. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### applySubscriptionPercentages

Adjusts the price for a cart item that's a minor line item for a kit or dynamic kit that defines a subscription term. This method applies the parent subscription's upfront and recurring percentage discounts to the child cart item, which previously had only standard pricing logic applied. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### priceAttributeItem

Parses JSON attribute pricing data for a cart item, and sets the item's corresponding price fields. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### checkCartItemValidity

Continues the For loop within the ccrz.ccLogicCartPriceAsync.applyPricing method by evaluating validation criteria and updating the cart item's status. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

### evaluateComplexProducts

Evaluates cart items that are included in complex products and sets the status of each cart item. A *complex product* can be a bundle, kit, dynamic kit, assembly product, or attribute-based product. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### performExternalPricing

Provides a placeholder for pricing a cart from an external source. By default, this method is empty and performs no default action. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### performDMLOnItems

Removes cart items, combines externally priced cart items with other cart items, and finally executes the DML upsert operation for the updated ccrz\_E\_CartItem\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### enqueueNext

Determines whether more major line item <code>ccrz\_E\_CartItem\_c</code> records remain to be priced, and calls <code>ccrz.ccLogicCartPriceAsync.enqueuePricing</code> for queueing the next job. This method executes only during the recursive, asynchronous <code>ccrz.ccApiCart.priceAsync</code> method calls.

#### applyCoupons

Creates a cart item for a coupon, and applies the coupon's discount to the cart. This method calls the ccrz.ccApiCoupon.apply method, which creates the coupon cart item, applies the discount, and executes the corresponding DML operations. This method executes only during the final recursive ccrz.ccApiCart.priceAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

#### enqueuePlace

Calls the System.enqueueJob method for adding the queueable ccLogicCartPriceEnqueuePlace class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls, and only when pricing occurs as part of the ccrz.ccApiCart.placeAsync logic chain.

#### updateOnError

Updates the fields on the ccrz\_\_E\_Cart\_\_c record when an exception occurs during asynchronous cart pricing. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

#### handleCartPriceException

Catches a ccrz.ccLogicCartPriceAsync.CartPriceAsyncException that occurs during the logic chain, and logs the exception message. If the pricing logic is executing as part of a ccrz.ccApiCart.placeAsync call, this method also catches a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException to ensure that the error propagates and ends order placement.

## ccrz.ccLogicCartPriceAsync.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.priceAsync method.

### Logic Performed

Asynchronous cart pricing consists of calls to the ccrz.ccApiCart.priceAsync method that occur in two phases:

#### Initial synchronous call

The initial ccrz.ccApiCart.priceAsync call enters a synchronous portion, where this method calls into the following inner methods:

- 1. processInput
- 2. retrieveCartData
- 3. validateLastPriceData
- 4. prepareAsyncPrice, which calls other inner methods

#### Recursive, asynchronous calls

Each recursive ccrz.ccApiCart.priceAsync call enters an *asynchronous* portion, where this method calls into executeAsyncPrice, which calls other inner methods.

The prepReturn method executes after all recursive jobs have completed.



**Note**: The working map maintains an input key, ccrz.ccApiCart.PRICE\_ASYNC\_FINISH, that indicates the status of the logic chain. When this key is false, the logic is executing the synchronous portion. When this key becomes true, the logic is executing the asynchronous portion.

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.

This method rethrows any ccrz.ccLogicCartPriceAsync.CartPriceAsyncException instances that occur during the logic chain, which ends processing and rolls back transactions. The

ccrz.ccLogicCartPriceAsync.handleCartPriceException method catches these exceptions.

## ccrz.ccLogicCartPriceAsync.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.priceAsync method call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

#### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPriceAsync.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to price.

#### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart to price.

#### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean that's assigned an intermediate value of false. Subsequent methods in the logic chain update this value to true when the logic completes successfully.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartPrice.prepReturn method removes these intermediate keys from the working map.

## ccrz.ccLogicCartPriceAsync.retrieveCartData

Calls the ccrz.ccApiCart.fetch method for querying the ccrz\_E\_Cart\_\_c record to price. Finally, this method also queries the cart's related ccrz\_E\_CartCoupon\_\_c records, but doesn't query the cart's items. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> retrieveCartData(Map<String, Object>)

#### Inputs (Required)

This method accepts the working Map<String, Object> from the appropriate method:

#### Initial synchronous call

After ccrz.ccLogicCartPriceAsync.processInput completes

#### Recursive, asynchronous calls

From ccrz.ccLogicCartPriceAsync.executeAsyncPrice

This method requires either of the following keys in the working map:

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart to price.

### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart to price.



Note: If neither key is specified, this method returns a ccrz.ccLogicCartPriceAsync.CartPriceAsyncException.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.CONTINUE ASYNC PLACE AFTER PRICING

Boolean

Value	Usage
true	This method is executing as part of the ccrz.ccApiCart.placeAsync method. When this method completes, it calls ccrz.ccApiCart.placeAsync recursively to continue the order placement process.
false (default)	This method is executing outside of the ccrz.ccApiCart.placeAsync method.

#### ccrz.ccApiCart.PRICE ASYNC FINISH

Boolean

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.
false (default)	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

## Logic Performed

This method completes the following actions:

- 1. Evaluates whether the input data includes the following inputs, and sets an appropriate value for the ccrz.ccApiCart.fetch method's ccrz.ccApiCart.CARTSTATUS input:
  - If the input data specifies ccrz.ccApiCart.PRICE\_ASYNC\_FINISH => true, the ccrz.ccApiCart.fetch method queries for a cart where the ccrz\_\_CartStatus\_\_c value is Repricing.
  - If the input data specifies ccrz.ccApiCart.CONTINUE\_ASYNC\_PLACE\_AFTER\_PRICING => true, the ccrz.ccApiCart.fetch method queries for a cart where the ccrz CartStatus c value is Processing.
  - Otherwise, the ccrz.ccApiCart.fetch method queries for a cart where the ccrz\_\_CartStatus\_\_c value is Open.
- 2. Calls the ccrz.ccApiCart.fetch method for returning the cart to price.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following intermediate keys:

## ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the fetched cart.

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the fetched cart.

#### ccrz.ccApiCart.HAS\_COUPON\_CODE

Boolean

Value	Usage
true	The cart has a coupon applied.
false	The cart doesn't have any coupon applied.

#### ccrz.ccLogicCartPriceAsync.CART\_TO\_PRICE

ccrz\_E\_Cart\_\_c record that represents the cart to price.

SEE ALSO:

ccrz\_E\_Cart\_\_c ccrz.ccApiCart.fetch

## ccrz.ccLogic Cart Price A sync.validate Last Price Date

Evaluates whether the ccrz\_\_RepricedDate\_\_c field on the ccrz\_\_E\_Cart\_\_c record is considered current, depending on the value of the Optimize Cart Repricing storefront configuration. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> validateLastPriceDate(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicCartPriceAsync.retrieveCartData method completes.

This method requires the following key in the working map:

## ccrz.ccApiCart.PRICE\_ASYNC\_FINISH

Boolean

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.
false (default)	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

### ccrz.ccLogicCartPriceAsync.CART TO PRICE

ccrz E Cart c record that represents the cart to price.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.HAS COUPON CODE

Boolean

Value	Usage
true	The cart has a coupon applied.
false	The cart doesn't have any coupon applied.

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean

Value	Usage
true	Skip the logic in this method, and immediately return the working Map <string, object="">.</string,>
false (default)	Execute the logic in this method.

## Logic Performed

This method completes the following actions:

- 1. Evaluates whether input data already specifies a value for ccrz.ccApiCart.SKIP\_CART\_PRICING. Otherwise, the method continues
- 2. Finds the value of the Cart storefront configuration module's Optimize Cart Repricing setting (c.optCartReprice).
- **3.** Evaluates whether any of the following criteria are satisfied, and if so, sets a value for ccrz.ccApiCart.SKIP\_CART\_PRICING:
  - If the ccrz.ccApiCart.HAS\_COUPON\_CODE input is true, the method sets ccrz.ccApiCart.SKIP CART PRICING to false.
  - If the cart's ccrz\_\_RepricedDate\_\_c date matches the current date, the method sets ccrz.ccApiCart.SKIP CART PRICING to *true*.
  - If the cart's ccrz\_\_RepricedDate\_\_c is more recent than the Valid Prices Date storefront setting, the method sets ccrz.ccApiCart.SKIP\_CART\_PRICING to *true*.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean

Value	Usage
true	Skip the inner methods of the $\texttt{ccrz.ccLogicCartPriceAsync.prepareAsyncPrice}$ method.
false	Execute the next method in the process chain.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Salesforce Help Optimize How Frequently the Shopping Cart Page Calls Price Logic

## ccrz.ccLogicCartPriceAsync.prepareAsyncPrice

Wraps inner methods that execute synchronously during the initial ccrz.ccApiCart.priceAsync call. These methods determine whether to price the cart. This method executes only during the synchronous portion of the initial ccrz.ccApiCart.priceAsync method call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## **Signature**

global virtual Map<String, Object> prepareAsyncPrice(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.validateLastPriceDate method completes.

This method requires the following key in the working map:

### ccrz.ccApiCart.PRICE\_ASYNC\_FINISH

Boolean that must be false for this method to execute.

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.

Value	Usage
false (default)	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean that must be false for this method to execute.

Value	Usage
true	Skiptheinnermethodsofthe ccrz.ccLogicCartPriceAsync.prepareAsyncPrice method.
false	Execute the next method in the process chain.

## Logic Performed

During this synchronous call, this method invokes other methods of the ccrz.ccLogicCartPriceAsync class in the following order:

- 1. enqueuePricing
- 2. updateCartHeader
- 3. performDMLOnCart



## Outputs

This method returns the working Map<String, Object> after all inner methods have completed. Refer to the individual method reference for more information about each method's outputs.

SEE ALSO:

ccrz.ccApiCart.priceAsync

## ccrz.ccLogicCartPriceAsync.enqueuePricing

Calls the System.enqueueJob method for adding the queueable ccLogicCartPriceEnqueue class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> enqueuePlace(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the appropriate method:

#### Initial synchronous call

From ccrz.ccLogicCartPriceAsync.prepareAsyncPrice

#### Recursive, asynchronous calls

From ccrz.ccLogicCartPriceAsync.enqueueNext

This method requires the following key in the working map:

#### ccrz.ccApiCart.SKIP CART PRICING

Boolean that must be false for this method to execute.

Value	Usage
true	$\label{the:constraint} Skip the inner methods of the \verb ccrz.ccLogicCartPriceAsync.prepareAsyncPrice  method.$
false	Execute the next method in the process chain.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.PRICE\_ASYNC\_JOB\_ID

ID of the AsyncApexJob that represents the asynchronous Apex job that the System.enqueueJob method returned.

SEE ALSO:

enqueueJob(queueableObj)

Queueable Apex

## ccrz.ccLogicCartPriceAsync.updateCartHeader

Sets fields on the ccrz\_E\_Cart\_\_c record to reference the asynchronous Apex job ID, update the cat's status, and set the repriced date. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> updateCartHeader(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the appropriate method completes:

#### Initial synchronous call

After ccrz.ccLogicCartPriceAsync.enqueuePricing

#### Recursive, asynchronous calls

After ccrz.ccLogicCartPriceAsync.enqueueNext

This method requires the following key in the working map:

### ccrz.ccLogicCartPriceAsync.CART TO PRICE

ccrz\_E\_Cart\_\_c record that represents the cart to price.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.CONTINUE ASYNC PLACE AFTER PRICING

Boolean

Value	Usage
true	This method is executing as part of the ccrz.ccApiCart.placeAsync method. When this method completes, it calls ccrz.ccApiCart.placeAsync recursively to continue the order placement process.
false (default)	This method is executing outside of the ccrz.ccApiCart.placeAsync method.

#### ccrz.ccApiCart.NEXT PRICING JOB ENQUEUED

Boolean

Value	Usage
true	Another asynchronous Apex job is enqueued for continuing the pricing process.
false	The current asynchronous Apex Job is the final job for the pricing process.

#### ccrz.ccApiCart.PRICE\_ASYNC\_FINISH

Boolean

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.
false (default)	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

### ccrz.ccApiCart.PRICE\_ASYNC\_JOB\_ID

ID of the AsyncApexJob that represents the asynchronous Apex job that the System.enqueueJob method returned.

## Logic Performed

This method evaluates Evaluates ccrz.ccApiCart.PRICE\_ASYNC\_FINISH, and performs different actions depending on whether the current method execution is the initial or a recursive call:

#### Initial synchronous call

1. Sets up a new ccrz E Cart c record with the following values:

Field	Value
ccrzAsynchronousJobIDc	The ID that ccrz.ccApiCart.PRICE_ASYNC_JOB_ID specifies
ccrzCartStatusc	Repricing
ccrzRepricedDatec	The current date and time

**2.** Evaluates whether the ccrz.ccApiCart.CONTINUE\_ASYNC\_PLACE\_AFTER\_PRICING input is true. If so, this method adjusts ccrz CartStatus c to *Processing*.

### Recursive, asynchronous calls

- 1. Evaluates whether the ccrz.ccApiCart.NEXT PRICING JOB ENQUEUED input is true:
  - If true, the method sets up a new ccrz E Cart c record with the following values:

Field	Value
ccrzAsynchronousJobIDc	The ID that ccrz.ccApiCart.PRICE_ASYNC_JOB_ID specifies

Otherwise, the method sets up a new ccrz E Cart c record with the following values:

Field	Value
ccrzAsynchronousJobIDc	The ID that ccrz.ccApiCart.PRICE_ASYNC_JOB_IDspecifies
ccrzCartStatusc	Open

• Evaluates whether the ccrz.ccApiCart.CONTINUE\_ASYNC\_PLACE\_AFTER\_PRICING input is true. If so, this method adjusts ccrz\_\_CartStatus\_\_c to *Processing*.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogicCartPriceAsync.CART\_TO\_UPDATE

ccrz E Cart c record that represents the new cart record, with the same ID as the source ccrz E Cart c record that the ccrz.ccLogicCartPriceAsync.CART TO PRICE input specified. This new cart record has the appropriate fields set, and is ready to insert.



🕜 Note: Creating a separate corz E Cart or record avoids accidental changes to the source corz E Cart o record that the ccrz.ccLogicCartPriceAsync.CART TO PRICE input specified.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

## ccrz.ccLogicCartPriceAsync.performDMLOnCart

Performs the DML update operation on the ccrz E Cart c record to price. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> performDMLOnOrder(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.updateCartHeader method completes.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPriceAsync.CART TO UPDATE

ccrz E Cart c record that represents the new cart record that the ccrz.ccLogicCartPriceAsync.updateCartHeader method created.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiCart.PRICE ASYNC FINISH

Boolean

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.

Value	Usage
false (default)	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Inserting and Updating Records

## ccrz.ccLogicCartPriceAsync.executeAsyncPrice

Wraps inner methods that execute during the recursive, asynchronous ccrz.ccApiCart.priceAsync calls. These methods process a subset of ccrz\_E\_CartItem\_c records from the source ccrz\_E\_Cart\_c.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> executeAsyncPrice(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.processInput method completes.

This method requires the following key in the working map:

### ccrz.ccApiCart.PLACE\_ASYNC\_FINISH

Boolean that must be true for this method to execute.

Value	Usage
true	The current method execution is a recursive, asynchronous call that continues the cart pricing after the initial call.
false	The current method execution is the synchronous portion of the initial call that begins the cart pricing process.

## Logic Performed

During each recursive, asynchronous call, this method invokes other methods of the ccrz.ccLogicCartPriceAsync class in the following order for pricing a subset of ccrz E CartItem c records:

- 1. retrieveCartData
- 2. validateLastPriceDate
- 3. retrieveCartItems
- 4. prepareCartItems
- 5. fetchPricingData
- **6.** applyPricing, which calls the following inner methods:
  - **a.** priceItem for each cart item, which calls into the appropriate method for pricing different product scenarios:
    - evaluateSubProdTermPricing
    - applySubscriptionPercentages
    - priceAttributeItem
  - **b.** checkCartItemValidity for each cart item
  - c. evaluateComplexProducts
- 7. performExternalPricing
  - Note: The logic chain specifies a database savepoint after the performExternalPricing method completes to allow for rollback when errors occur. This rollback applies only to the batch of items that the current job is processing, and not all items.
- 8. performDMLOnItems
- 9. enqueueNext
- 10. updateCartHeader
- 11. enqueuePlace
- Note: If any exceptions occur during asynchronous processing, the updateOnError method executes.

#### Outputs

This method returns the working Map<String, Object> after all inner methods have completed. Refer to the individual method reference for more information about each method's outputs.

SEE ALSO:

ccrz.ccApiCart.priceAsync

## ccrz.ccLogic Cart Price A sync. retrieve Cart I tems

Determines how many ccrz\_E\_CartItem\_\_c records to price during the recursive job, and then calls the ccrz.ccApiCart.fetchCartItems method for querying them. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> retrieveCartItems(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.validateLastPriceDate method completes.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to price.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the previous recursive job.

#### ccrz.ccApiCart.CART PRICE BATCH SIZE

Integer that specifies the number of major cart items to price during each asynchronous Apex job.



- If you don't specify a value for this input, the method defaults to 200 major cart items.
- The job prices any minor cart items that are associated with the major cart items. As a result, the total number of priced ccrz E CartItem c records is higher when the cart contains complex products. When a pricing scenario includes a large number of complex products, consider specifying a lower batch size to help fine-tune performance.

## Logic Performed

This method completes the following actions:

- 1. Evaluates whether the input data already specifies a value for ccrz.ccApiCart.CART PRICE BATCH SIZE.Otherwise, the method sets a default value of 200 ccrz\_E\_CartItem\_c records to evaluate during the recursive job.
- 2. Evaluates whether the input data specifies ccrz.ccApiCart.CARTITEMLASTID:
  - If so, the method starts processing ccrz E CartItem c records from the final ID evaluated during the previous job.
  - Otherwise, the method starts processing ccrz E CartItem c records from the beginning of the ccrz E Cart c record's list of items.
- 3. Executes a direct query of major item ccrz E CartItem c records for the source ccrz E Cart c.

- Note: To keep the order of ccrz\_E\_CartItem\_\_c records consistent for subsequent recursive jobs, the query uses a SOQL ORDER BY Id clause.
- 4. Calls the ccrz.ccApiCart.fetchCartItems method for returning the batch of cart items for the current job.
  - Note: The method also queries any minor cart items that are associated with the major cart items. As a result, the total number of priced ccrz\_\_E\_CartItem\_\_c records is higher than the specified batch size when the cart contains complex products.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

## ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the current recursive job.

### ccrz.ccLogicCartPriceAsync.CART ITEM LIST

List<ccrz\_E\_CartItem\_c> that contains the major and minor line items that the ccrz.ccApiCart.fetchCartItems returned.

```
SEE ALSO:
```

```
ccrz_E_Cart__c
ccrz_E_CartItem__c
ccrz.ccApiCart.fetchCartItems
```

## ccrz.ccLogicCartPriceAsync.prepareCartItems

Identifies ccrz\_E\_CartItem\_\_c records to pass to or exclude from the subsequent pricing methods. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

```
global virtual Map<String, Object> prepareCartItems(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicCartPriceAsync.retrieveCartItems method completes.

This method requires the following keys in the working map:

#### ccrz.ccLogicCartPriceAsync.CART\_ITEM\_LIST

List<ccrz E CartItem c> that contains the major and minor line items to evaluate.

#### ccrz.ccLogicCartPriceAsync.CART TO PRICE

ccrz E Cart c record that represents the cart to price.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'attributes'

Set<String> of attribute IDs, populated from each cartitem's ccrz\_\_PrimaryAttr\_\_c, ccrz\_\_SecondaryAttr\_\_c, and ccrz\_TertiaryAttr\_c fields.

#### ccrz.ccLogicCartPriceAsync.EXTERNALLY PRICED ITEMS

 $\label{list} \begin{tabular}{ll} List < ccrz $\underline{$\tt E$\_CartItem}_c > of the items where $\tt ccrz $\underline{$\tt PricingType}_c$ is external. These items are excluded from the subsequent pricing methods. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. These items are excluded from the subsequent pricing methods. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. These items are excluded from the subsequent pricing methods. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List < ccrz $\underline{\tt PricingType}_c$ is external. \\ \begin{tabular}{ll} List <$ 

#### ccrz.ccLogicCartPriceAsync.ITEMS TO DELETE

List<ccrz\_E\_CartItem\_c> of the items to remove from the working map. By default, this method adds a cart item to this list when the item meets any of the following criteria:

- The cart item's quantity changed to 0.
- The cart item's ccrz ProductType c field has the value Coupon.

#### ccrz.ccLogicCartPriceAsync.ITEMS TO PRICE

List<ccrz\_E\_CartItem\_\_c> of the items to pass to subsequent pricing methods. For each cart item, this method updates the values of the following fields:

ccrzE_CartItemc Field	Value
ccrzItemStatusc	Available
ccrzPricec	-1
	Note: This value is an initial value. The inner methods of ccrz.ccLogicCartPriceAsync.applyPricing evaluate each cart item and update this value.

#### ccrz.ccLogicCartPriceAsync.MAJORS WITH EXTERNAL CHILDREN

List<String> of cart item IDs that are major line items with child cart items where ccrz\_\_PricingType\_\_c is external. These items are excluded from the subsequent pricing methods.

#### ccrz.ccLogicCartPriceAsync.PRICING INPUT MAP

Map<String, Object> of input data for a ccrz.ccApiProduct.fetch query, which the ccrz.ccLogicCartPriceAsync.fetchPricingData method executes. This map includes:

- Available data from other return data keys—such as 'products', 'attributes', 'sellers', and 'spts'—which specify parameters for the fetch query.
- The key value ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true, which ensures that the fetch query returns ccrz.ccApiProduct.PRODUCTPRICINGDATA and ccrz.ccApiAttribute.IDS, if applicable.

#### 'products'

Set<String> of product IDs, populated from each cart item's ccrz Product c field.

#### 'sellers'

Set<String> of seller IDs, populated from each cart item's ccrz Seller c field.

#### 'spts'

Set<String> of subscription term IDs, populated from each cart item's ccrz SubProdTerm c field.

#### SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

ccrz.ccApiProduct.fetch

Salesforce Help Host a Seller Marketplace on Your Storefront

Salesforce Help Offer Subscriptions for Products on Your Storefront

## ccrz.ccLogicCartPriceAsync.fetchPricingData

Calls the ccrz.ccApiProduct.fetch method and returns product pricing data for the cart items to reprice. If the fetched product data includes attributes, this method also calls the ccrz.ccApiAttribute.fetch method. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> fetchPricingData(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicCartPriceAsync.prepareCartItems method completes.

This method requires the following key in the working map:

### ccrz.ccLogicCartPriceAsync.PRICING\_INPUT\_MAP

Map<String, Object> of input data for a ccrz.ccApiProduct.fetch query. This map includes:

- Products, attributes, sellers, and subscription terms parameters, if applicable.
- The key value ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true, which ensures that the fetch query returns ccrz.ccApiProduct.PRODUCTPRICINGDATA and ccrz.ccApiAttribute.IDS, if applicable.

### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiProduct.fetch outputs. In particular, the subsequent pricing methods evaluate the following output keys:

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, Object> that describes ccrz\_E\_Attribute\_c records related to the queried products. The ccrz.ccApiAttribute.fetch method returns this map.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

SEE ALSO:

ccrz.ccApiProduct.fetch ccrz.ccApiAttribute.fetch

## ccrz.ccLogicCartPriceAsync.applyPricing

Loops through the cart items to reprice, and calls the appropriate inner method for setting each cart item's price. This method also ensures that major and minor line items remain associated with each other. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> applyPricing(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicCartPriceAsync.fetchPricingData method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, Object> that describes ccrz\_E\_Attribute\_c records related to the queried products. The ccrz.ccApiAttribute.fetch method returns this map.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

#### ccrz.ccLogicCartPriceAsync.ITEMS TO PRICE

Map<String, ccrz E CartItem c> of the items to price.

## Logic Performed

This method completes the following actions:

1. For each cart item, the method creates an intermediate map and passes it to the ccrz.ccLogicCartPriceAsync.priceItem inner method:

#### pricingInputs

Map<String, Object> that contains the following keys that the ccrz.ccLogicCartPriceAsync.priceItem inner method evaluates for an individual cart item:

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, Object> that describes ccrz E Attribute c records related to the queried products.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

```
ccrz.ccLogicCartPriceAsync.PRICE_ITEM_CART_ITEM
```

ccrz E CartItem c to evaluate.

### ccrz.ccLogicCartPriceAsync.PRICE ITEM PARENT ITEM

The parent ccrz\_E\_CartItem\_\_c of ccrz.ccLogicCartPriceAsync.PRICE\_ITEM\_CART\_ITEM.

- 2. For each cart item, the method creates another intermediate map and calls the ccrz.ccLogicCartPriceAsync.checkCartItemValidity inner method.
- 3. If the cart item is included in a *complex product*, the method adds the item and its parent to another intermediate map. A complex product can be a bundle, kit, dynamic kit, assembly product, or a cart item where ccrz PricingType c is ATTRGROUP.

#### complexCartItems

Map<String, List<ccrz\_E\_CartItem\_\_c>>, keyed by parent cart item ID, that describes major cart line items and its associated minor cart line items.

**4.** After evaluating all cart items, the method passes the complexCartItems map to the ccrz.ccLogicCartPriceAsync.evaluateComplexProducts inner method.

#### Outputs

This method returns the working Map<String, Object> after the appropriate inner methods complete, and sets the following keys:

#### ccrz.ccLogicCartPriceAsync.ITEMS TO PRICE

Map<String, ccrz E CartItem c> of the items passed in and updated with the result of the inner methods.



**Note**: If a cart item's parent is a bundle, the method sets the following fields on the item's ccrz\_E\_CartItem\_\_c record:

ccrzE_CartItemc Field	Value
ccrzPricec	0.00
ccrzSubAmountc	0.00

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

Salesforce Help Create a Bundle

## ccrz.ccLogicCartPriceAsync.priceItem

Begins the For loop within the ccrz.ccLogicCartPriceAsync.applyPricing method by evaluating the current cart item and determining the appropriate pricing logic. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> priceItem(Map<String, Object>)

### Inputs (Required)

This method accepts the pricingInputs Map<String, Object> from the ccrz.ccLogicCartPriceAsync.applyPricing method. The map can include the following keys:

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of pricing data for all queried products. This map can contain seller, subscription term, attribute, and standard pricing information for the queried products.

#### ccrz.ccLogicCartPriceAsync.PRICE ITEM PARENT ITEM

The parent ccrz E CartItem cof ccrz.ccLogicCartPriceAsync.PRICE ITEM CART ITEM.

### Outputs

This method returns the input Map<String, Object>, updated with the results of the appropriate pricing logic:

Scenario	Result
ccrz.ccApiProduct.PRODUCTPRICINGDATA is empty.	The current user isn't entitled to the product. This method sets the cart item's price to -1, which causes the ccrz.ccLogicCartPriceAsync.checkCartItemValidity method to set the cart item's ccrzItemStatusc to Invalid.
ccrz.ccApiProduct.PRODUCTPRICINGDATA contains seller data	Set the cart item's price from the seller's price list item. If the seller isn't listed, this cart item becomes invalid.
The cart item's ccrzCartItemTypec is Major and the cart item has a value for ccrzSubProdTermc.	Call the ccrz.ccLogicCartPriceAsync.evaluateSubProdtemPricing method to determine the cart item's price.

Scenario	Result	
The cart item has a value for ccrzSelectedAttrc.	Evaluate whether ccrz.ccApiProduct.PRODUCTPRICINGDATA include attribute pricing data. If so, call the ccrz.ccLogicCartPriceAsync.priceAttributeIte method to determine the cart item's price.	
The cart item's ccrzPricingTypec is ATTRGROUP.	Set the following fields on the ccrz_E_CartItem_c record:  ccrz_OriginalItemPrice_c is 0.00  ccrz_Price_c is 0.00  ccrz_Quantity_c is 1  ccrz_SubAmount_c is 0.00	
The cart item has a value for ccrzPricingModifierTypesc.	Evaluate the product's pricing tiers, and apply the correct price based on the item's quantity.	
The cart item's ccrzCartItemTypec is Minor and the cart item's parent has a subscription term.	Call the ccrz.ccLogicCartPriceAsync.applySubscriptionPercentages method to update the cart item's price.	
All other scenarios	Apply standard pricing and set the following fields on the ccrz_E_CartItem_c record:  ccrz_OriginalItemPrice_c  ccrz_Price_c  ccrz_SubAmount_c	

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogic Cart Price A sync. evaluate Sub Prod term Pricing

Parses the subscription term for a cart item, and sets the item's corresponding price fields. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> evaluateSubProdtermPricing(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPriceAsync.priceItem method. The map can include the following keys:

```
ccrz.ccLogicCartPriceAsync.PRICE ITEM SUBPRODTERM
```

Map<String, Object> that describes the corz E SubProdTerm c record that the cart item references.

## Outputs

This method returns the input Map<String, Object> and updates the values of the following ccrz\_\_E\_CartItem\_\_c fields.



Note: By default, this method applies price information from the modifier subscription term with the lowest Sequence value.

ccrz_E_CartItemc Field	Value
ccrzOriginalItemPricec	The same value as ccrzPricec.
ccrzPricec	The subscription's upfront (non-recurring) price.
ccrzRecurringPricec	The subscription's recurring price.
ccrzRecurringPriceSubAmtc	The recurring price multiplied by quantity.
ccrzSubAmountc	The upfront price multiplied by quantity.

SEE ALSO:

ccrz\_\_E\_SubProdTerm\_\_c

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogicCartPriceAsync.applySubscriptionPercentages

Adjusts the price for a cart item that's a minor line item for a kit or dynamic kit that defines a subscription term. This method applies the parent subscription's upfront and recurring percentage discounts to the child cart item, which previously had only standard pricing logic applied. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> applySubscriptionPercentages(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPriceAsync.priceItem method. The map can include the following keys:

## ccrz.ccLogicCartPriceAsync.PRICE\_ITEM\_CART\_ITEM

ccrz E CartItem c that's a minor line item under a kit or dynamic kit.

#### ccrz.ccLogicCartPriceAsync.PRICE ITEM PARENT ITEM

The parent ccrz\_E\_CartItem\_c of ccrz.ccLogicCartPriceAsync.PRICE\_ITEM\_CART\_ITEM. This cart item must be a kit or dynamic kit that defines a subscription term.

## ccrz.ccLogicCartPriceAsync.PRICE ITEM SUBPRODTERM MAP

Map<String, Object> that describes the corz E SubProdTerm c record that the cart item references.

### Outputs

This method returns the input Map<String, Object> and updates the values of the following ccrz\_E\_CartItem\_\_c fields.



Note: By default, this method applies price information from the modifier subscription term with the lowest Sequence value.

ccrz_E_CartItemc Field	Value
ccrzPricec	The standard price of the cart item, adjusted by the subscription's upfront (non-recurring) percentage.
ccrzRecurringPricec	The standard price of the cart item, adjusted by the subscription's recurring percentage.
ccrzRecurringPriceSubAmtc	The recurring price multiplied by quantity.
ccrzSubAmountc	The upfront price multiplied by quantity.

#### SEE ALSO:

ccrz E SubProdTerm c

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogic Cart Price A sync. price Attribute I tem

Parses JSON attribute pricing data for a cart item, and sets the item's corresponding price fields. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

```
global virtual Map<String, Object> priceAttributeItem(Map<String, Object>)
```

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPriceAsync.priceItem method. The map can include the following keys:

#### ccrz.ccApiAttribute.ATTRIBUTES

Map<String, ccrz\_E\_Attribute\_\_c> returned from the ccrz.ccApiAttribute.fetch query that the ccrz.ccLogicCartPrice.fetchPricingData method invoked.

#### ccrz.ccLogicCartPriceAsync.PRICE ITEM ATTRIBUTE PRICING

Map<String, Object> that includes the deserialized JSON attribute pricing data from the corresponding price list item.

#### ccrz.ccLogicCartPriceAsync.PRICE ITEM CART ITEM

ccrz\_E\_CartItem\_\_c that's a minor line item under a kit or dynamic kit.

### Outputs

This method returns the input Map<String, Object> and updates the values of the following ccrz\_E\_CartItem\_\_c fields.

ccrzE_CartItemc Field	Value
ccrzPricec	The price specified by the cart item's applicable primary, secondary, or tertiary attribute.
ccrzSubAmountc	The price multiplied by quantity.

#### SEE ALSO:

ccrz\_E\_CartItem\_\_c
ccrz.ccApiAttribute.fetch
ccrz.ccLogicCartPriceAsync.fetchPricingData

# ccrz.ccLogic Cart Price A sync. check Cart Item Validity

Continues the For loop within the ccrz.ccLogicCartPriceAsync.applyPricing method by evaluating validation criteria and updating the cart item's status. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> checkCartItemValidity(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object> from the ccrz.ccLogicCartPriceAsync.applyPricing method. The map can include the following keys:

ccrz.ccLogicCartPriceAsync.PRICE\_ITEM\_PARENT\_ITEM

The parent ccrz E CartItem c of ccrz.ccLogicCartPriceAsync.PRICE ITEM CART ITEM.

## Outputs

This method returns the input Map<String, Object> and sets the value of the ccrz\_E\_CartItem\_c record's ccrz ItemStatus c field to Invalid for any of the following conditions:

- The cart item's price is negative.
- The corresponding product's Start Date or End Date is invalid for the current date.
- The product's ccrz\_\_ProductStatus\_\_c field has a value other than Released, and the product isn't a component of a bundle.

When the cart item is invalid, this method also sets the following fields:

ccrzE_CartItemc Field	Value
ccrzOriginalItemPricec	The same value as ccrzPricec.
ccrzPricec	-1
ccrzRecurringPricec	null
ccrzRecurringPriceSubAmtc	null
ccrzSubAmountc	null



Note: If the cart item has a parent cart item, this method also sets the parent item's status to Invalid.

SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

## ccrz.ccLogicCartPriceAsync.evaluateComplexProducts

Evaluates cart items that are included in complex products and sets the status of each cart item. A *complex product* can be a bundle, kit, dynamic kit, assembly product, or attribute-based product. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> evaluateComplexProducts(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object> after the ccrz.ccLogicCartPriceAsync.applyPricing method. The map can include the following keys:

#### ccrz.ccLogicCartPriceAsync.COMPLETE INPUT DATA

Map<String, Object> of the working map passed from ccrz.ccLogicCartPriceAsync.applyPricing.

#### ccrz.ccLogicCartPriceAsync.PRICE ITEM CART ITEMS

Map<String, ccrz\_E\_CartItem\_c> of cart items that have parent cart items, or cart items that are part of attribute-based products (where ccrz PricingType c is ATTRGROUP).

## ${\tt ccrz.ccLogicCartPriceAsync.PRICE\_ITEM\_COMPLEX\_CART\_ITEMS}$

Map<String, List<ccrz\_E\_CartItem\_c>>, keyed by parent cart item ID, that describes major cart line items and its associated minor cart line items.

#### Outputs

This method returns the input Map<String, Object> and sets the value of the ccrz\_E\_CartItem\_c record's ccrz ItemStatus c field to Invalid for any of the following conditions:

- The cart item is a major line item for a complex product (other than an assembly product) but it doesn't have any child cart items.
- The cartitem's ccrz\_\_PricingType\_\_c is ATTRGROUP and contains child cartitems where the ccrz\_\_ItemStatus\_\_c is already set to Invalid. This method also sets the major line item to Invalid.
- The cart item is a major line item for a kit or dynamic kit and contains child cart items where the ccrz\_\_ItemStatus\_\_c is already set to Invalid. This method also sets the major line item to Invalid.

When the cart item is invalid, this method also sets the following fields:

ccrzE_CartItemc Field	Value
ccrzOriginalItemPricec	The same value as ccrzPricec.
ccrzPricec	-1

ccrzE_CartItemc Field	Value
ccrzRecurringPricec	null
ccrzRecurringPriceSubAmtc	null
ccrzSubAmountc	null

For a kit or dynamic kit, this method also evaluates any subscription terms applied to the major line item, and sets the following fields:

ccrz_E_CartItemc Record	Field	Value
Major line item (composite product for a kit or dynamic kit)	ccrzRecurringPricec	Calculated from the child cart item's ccrzRecurringPricec
	ccrzRecurringPriceSubAmtc	Recurring price multiplied by quantity.
Child line item (component product for a	ccrzRecurringPricec	null
kit or dynamic kit)	ccrzRecurringPriceSubAmtc	null

SEE ALSO:

Salesforce Help Types of Products for B2B Commerce for Visualforce

# ccrz.ccLogicCartPriceAsync.performExternalPricing

Provides a placeholder for pricing a cart from an external source. By default, this method is empty and performs no default action. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> performExternalPricing(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCartPriceAsync.applyPricing method completes.

By default, this method doesn't evaluate any input data.

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

## ccrz.ccLogicCartPriceAsync.performDMLOnItems

Removes cart items, combines externally priced cart items with other cart items, and finally executes the DML upsert operation for the updated ccrz\_E\_CartItem\_c records. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> performDMLOnItems(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.performExternalPricing method completes.

This method requires the following key in the working map:

### ${\tt ccrz.ccLogicCartPriceAsync.ITEMS\_TO\_DELETE}$

List<ccrz\_E\_CartItem\_c> of the items to remove from the working map. The ccrz.ccLogicCartPriceAsync.prepareCartItems method returns this list.

#### ccrz.ccLogicCartPriceAsync.ITEMS TO PRICE

Map<String, ccrz\_E\_CartItem\_c> of the cart's items that previous methods have priced and that are ready to be upserted.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccLogicCartPriceAsync.EXTERNALLY PRICED ITEMS

List<ccrz\_E\_CartItem\_c> of the items where ccrz\_PricingType\_c is external. These items were excluded from the previous pricing methods.

## Logic Performed

This method completes the following actions:

- 1. Performs the DML delete operation on ccrz.ccLogicCartPriceAsync.ITEMS TO DELETE.
- 2. Performs the DML upsert operation on ccrz.ccLogicCartPriceAsync.ITEMS\_TO\_PRICE and ccrz.ccLogicCartPriceAsync.EXTERNALLY PRICED\_ITEMS.

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_E\_OrderItem\_\_c
Deleting Records
Upserting Records

## ccrz.ccLogicCartPriceAsync.enqueueNext

Determines whether more major line item <code>ccrz\_E\_CartItem\_c</code> records remain to be priced, and calls <code>ccrz.ccLogicCartPriceAsync.enqueuePricing</code> for queueing the next job. This method executes only during the recursive, asynchronous <code>ccrz.ccApiCart.priceAsync</code> method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> enqueueNext(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.performDMLOnItems method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CARTITEMLASTID

String that specifies the Salesforce ID of the final major cart item that was processed during the current recursive job.



Note: If this input isn't specified, this method doesn't execute correctly and can return an error.

## ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the cart to price.

## ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

### Logic Performed

This method completes the following actions:

1. Reads ccrz.ccApiCart.CARTITEMLASTID and determines where in the list of cart items the current recursive job finished processing.

- 2. Executes a direct query of ccrz\_\_E\_CartItem\_\_c records for the source ccrz\_\_E\_Cart\_\_c to determine whether more ccrz \_E CartItem \_ c records remain to be processed:
  - If more ccrz\_E\_CartItem\_c records remain, this method sets the ccrz.ccApiCart.NEXT PRICING JOB ENQUEUED output to true.
  - Otherwise, this method sets the ccrz.ccApiCart.NEXT\_PRICING\_JOB\_ENQUEUED output to false.
- **3.** Sets ccrz.ccApiCart.CARTITEMLASTID for the next recursive job that ccrz.ccLogicCartPriceAsync.enqueuePricing executes.

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.NEXT\_PRICING\_JOB\_ENQUEUED

Boolean

Value	Usage
true	Another recursive ccrz.ccApiCart.priceAsync call is enqueued for processing the next batch of ccrz_E_CartItem_c records.
false	The current job is the final recursive job. No other ccrzE_CartItemc records remain for processing.

SEE ALSO:

ccrz\_E\_CartItem\_\_c
ccrz.ccLogicCartPriceAsync.enqueuePricing

# ccrz.ccLogic Cart Price A sync. apply Coupons

Creates a cart item for a coupon, and applies the coupon's discount to the cart. This method calls the ccrz.ccApiCoupon.apply method, which creates the coupon cart item, applies the discount, and executes the corresponding DML operations. This method executes only during the final recursive ccrz.ccApiCart.priceAsync method call that processes the remaining ccrz\_E\_CartItem\_c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> applyCoupons(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicCartPriceAsync.updateCartHeader method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.NEXT PRICING JOB ENQUEUED

Boolean that must be false for this method to execute.

Value	Usage
true	Another asynchronous Apex job is enqueued for continuing the pricing process.
false	The current asynchronous Apex Job is the final job for the pricing process.

#### ccrz.ccLogicCartPriceAsync.CART TO PRICE

ccrz E Cart c record that represents the cart to price.

#### ccrz.ccLogicCartPriceAsync.CART TO UPDATE

ccrz\_E\_Cart\_\_c record that represents the new cart record that the
ccrz.ccLogicCartPriceAsync.updateCartHeader method created.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccLogicCartPriceAsync.ITEMS TO PRICE

Map<String, ccrz\_E\_CartItem\_c> of the cart's items that previous methods have priced and that are ready to be upserted.

#### ccrz.ccLogicCartPriceAsync.EXTERNALLY PRICED ITEMS

 $\label{list} \begin{tabular}{ll} List < ccrz \_E\_CartItem\_c > of the items where ccrz \_PricingType\_c is external. These items are excluded from the subsequent pricing methods. \end{tabular}$ 

## Logic Performed

This method completes the following actions:

- Sets the following fields on ccrz.ccLogicCartPriceAsync.CART\_TO\_PRICE to match ccrz.ccLogicCartPriceAsync.CART\_TO\_UPDATE:
  - ccrz AsynchronousJobID c
  - ccrz CartStatus c
  - ccrz\_\_RepricedDate\_\_c
- Combines the cart items from ccrz.ccLogicCartPriceAsync.ITEMS\_TO\_PRICE and ccrz.ccLogicCartPriceAsync.EXTERNALLY\_PRICED\_ITEMS into a single intermediate List<ccrz\_E\_CartItem\_\_c>.
- **3.** Passes the intermediate List<ccrz\_E\_CartItem\_c> and ccrz.ccLogicCartPriceAsync.CART\_TO\_PRICE as inputs for the ccrz.ccApiCoupon.apply method.

This method returns the working Map<String, Object> after invoking the ccrz.ccApiCoupon.apply method.

SEE ALSO:

ccrz.ccApiCoupon.apply

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

## ccrz.ccLogicCartPriceAsync.enqueuePlace

Calls the System.enqueueJob method for adding the queueable ccLogicCartPriceEnqueuePlace class to the asynchronous Apex job queue. To call a custom queueable class, override this method with custom subscriber code. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls, and only when pricing occurs as part of the ccrz.ccApiCart.placeAsync logic chain.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> enqueuePlace(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.applyCoupons method completes.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CONTINUE ASYNC PLACE AFTER PRICING

Boolean that must be true for this method to execute.

Value	Usage
true	This method is executing as part of the ccrz.ccApiCart.placeAsync method. When this method completes, it calls ccrz.ccApiCart.placeAsync recursively to continue the order placement process.
false	This method is executing outside of the ccrz.ccApiCart.placeAsync method.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.PLACE\_ASYNC\_JOB\_ID

ID of the AsyncApexJob that represents the asynchronous Apex job that the System.enqueueJob method returned.

SEE ALSO:

ccrz.ccApiCart.placeAsync
enqueueJob (queueableObj)
Queueable Apex

# ccrz.ccLogicCartPriceAsync.updateOnError

Updates the fields on the ccrz\_E\_Cart\_\_c record when an exception occurs during asynchronous cart pricing. This method executes only during the recursive, asynchronous ccrz.ccApiCart.priceAsync method calls.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> updateOnError(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartPriceAsync.executeAsyncPrice method.

This method requires the following keys in the working map:

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccLogicCartPriceAsync.RETRYING ASYNC

Boolean that must be true for this method to execute.

Value	Usage
true	An error occurred when pricing the cart during the previous iteration of the recursive, asynchronous call. The logic chain returns a ccrz.ccLogicCartPriceAsync.CartPriceAsyncException.
false	No error occurred.

## Logic Performed

This method performs the DML update operation on the ccrz E Cart c and sets values for the following fields:

Field	Value
ccrzCartStatusc	Open
ccrzRepricedDatec	null

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

Inserting and Updating Records

## ccrz.ccLogicCartPriceAsync.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys. This method executes for every ccrz.ccApiCart.priceAsync call, regardless of whether it's the initial or a recursive call.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartPriceAsync.executeAsyncPrice method completes.

#### **Outputs**

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>:

- ccrz.ccApiProduct.PRODUCT LIST
- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicCartPriceAsync.CART ITEM LIST

- ccrz.ccLogicCartPriceAsync.CART TO PRICE
- ccrz.ccLogicCartPriceAsync.EXTERNALLY PRICED ITEMS
- ccrz.ccLogicCartPriceAsync.ITEMS TO DELETE
- ccrz.ccLogicCartPriceAsync.ITEMS TO PRICE
- ccrz.ccLogicCartPriceAsync.ITEMS TO UPDATE
- ccrz.ccLogicCartPriceAsync.MAJORS WITH EXTERNAL CHILDREN
- ccrz.ccLogicCartPriceAsync.PRODUCT PRICING DATA

## ccrz.ccLogic Cart Price Async. handle Cart Price Exception

Catches a ccrz.ccLogicCartPriceAsync.CartPriceAsyncException that occurs during the logic chain, and logs the exception message. If the pricing logic is executing as part of a ccrz.ccApiCart.placeAsync call, this method also catches a ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException to ensure that the error propagates and ends order placement.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> handleCartPriceException(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that can include the following keys:

#### ccrz.ccApiCart.CONTINUE ASYNC PLACE AFTER PRICING

Boolean

Value	Usage
true	This method is executing as part of the ccrz.ccApiCart.placeAsync method. This method catches both ccrz.ccLogicCartPriceAsync.CartPriceAsyncException and ccrz.ccLogicCartPlaceAsync.CartPlaceAsyncException.
false	This method is executing outside of the ccrz.ccApiCart.placeAsync method.

#### ccrz.ccLogicCartPriceAsync.CART PRICE EXCEPTION

 $\verb|ccrz.ccLogicCartPriceAsync.CartPriceAsyncException| that occurred during the \\ \verb|ccrz.ccLogicCartPriceAsync.process| method or its inner methods. The \\ |$ 

ccrz.ccLogicCartPriceAsync.process method rethrows the exception after it's caught, which ends processing and rolls back transactions.

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz.ccLogic Cart Place A sync. handle Cart Place Exception

# ccrz.ccLogicCartProcessItemGroups

Define the business logic for moving cart items between shipping groups for line-level independence (LLI) checkout.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.processItemGroups

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### process Item Groups

Determines whether the cart already contains at least shipping group, and assigns cart items to the group. When no shipping group exists, this method creates a single default group with all cart items and the account's default shipping address. This method also wraps the DML update statement for assigning cart items.

## prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogic Cart Process I tem Groups.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiCart.processItemGroups method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartProcessItemGroups class in the following order:

- 1. processInput
- 2. processItemGroups
- 3. prepReturn

#### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicCartProcessItemGroups.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartProcessItemGroups.process

This method checks that the input map specifies the following keys, and returns a ccrz.ccApi.MissingInputException if any key is missing:

#### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart.

#### ccrz.ccApiCart.MOVEDATA

List<Map<String, Object>> where each Map<String, Object> contains the following keys that describe the cart items to move.

#### ccrz.ccApiCart.ITEMID

String that specifies the Salesforce ID of the ccrz E CartItem c to move.

#### ccrz.ccApiCart.TARGETQTY

Decimal that specifies the quantity of the ccrz E CartItem c to move.



Note: If you don't specify a quantity, this method moves the full quantity.

#### ccrz.ccApiCart.TARGETGROUP

to.

#### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartProcessItemGroups.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogic Cart Process I tem Groups.process I tem Groups

Determines whether the cart already contains at least shipping group, and assigns cart items to the group. When no shipping group exists, this method creates a single default group with all cart items and the account's default shipping address. This method also wraps the DML update statement for assigning cart items.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processItemGroups(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartProcessItemGroups.processInput method.

This method requires the following key in the working map:

#### ccrz.ccApiCart.CART ENCID

The encrypted ID of the cart.

#### ccrz.ccApiCart.MOVEDATA

List<Map<String, Object>> where each Map<String, Object> contains the following keys that describe the cart items to move.

#### ccrz.ccApiCart.ITEMID

String that specifies the Salesforce ID of the ccrz E CartItem c to move.

#### ccrz.ccApiCart.TARGETQTY

Decimal that specifies the quantity of the ccrz E CartItem c to move.



Note: If you don't specify a quantity, this method moves the full quantity.

### ccrz.ccApiCart.TARGETGROUP

String that specifies the Salesforce ID of the  $ccrz\_E\_CartItemGroup\_c$  to move  $ccrz\_E\_CartItem\_c$  records to.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiCart.MERGELINES

Boolean

Value	Usage
true	Combine quantities of the same SKU are combined into a single line item in the target cart item group. For usage, see https://help.salesforce.com/articleView?id=b2b_commerce_page_checkout_lli_shipping.htm.
false (default)	Leave quantities of the same SKU on separate line items in the target cart item group.

Note: For a dynamic kit, subscription, or externally priced product, this method can move quantities to another group, but can't combine quantities.

## Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccApiCart.fetch method and returns the specified cart.
- 2. Loops through the ccrz.ccApiCart.MOVEDATA and builds lists of the cart items to move and all the cart items in the ccrz.ccApiCart.TARGETGROUP.
- **3.** Moves the quantity of cart items to the appropriate ccrz.ccApiCart.TARGETGROUP, depending on the following factors:
  - The quantity of the cart item in its current group
  - The value of ccrz.ccApiCart.MERGELINES

Cart Item Quantity	ccrz.ccApiCart.MERGELINES	Method Behavior
The full quantity of the cart item in the current group (bulk move)	false	<ul> <li>Moves the full quantity of the cart items to the ccrz.ccApiCart.TARGETGROUP.</li> <li>Leaves quantities of the same SKU in separate line items in the target group.</li> </ul>
	true	<ul> <li>Moves the full quantity of cart items to the ccrz.ccApiCart.TARGETGROUP.</li> <li>Combines quantities of the same SKU into a single line item in the target group.</li> </ul>
A partial quantity of the cart item in the current group (split move)	false	<ul> <li>Moves the partial quantity of the cart items to the ccrz.ccApiCart.TARGETGROUP.</li> <li>Leaves quantities of the same SKU in separate line items in the target group.</li> </ul>

Cart Item Quantity	ccrz.ccApiCart.MERGELINES Value	Method Behavior
	true	<ul> <li>Moves the partial quantity of the cart items to the ccrz.ccApiCart.TARGETGROUP.</li> <li>Combines quantities of the same SKU into a single line item in the target group.</li> </ul>

**4.** Executes the DML operations for inserting, upserting, or deleting cart items, if applicable.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### SEE ALSO:

ccrz\_\_E\_CartItem\_\_c

ccrz\_\_E\_CartItemGroup\_\_c

Inserting and Updating Records

Salesforce Help Specify Shipping Group Options for LLI Checkout

# ccrz.ccLogic Cart Process I tem Groups.prep Return

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartProcessItemGroups.processItemGroups method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicCartRemove

Define the business logic for removing cart items, including a coupon, from a specified cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.removeFrom

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### removeltems

Removes a specified coupon code or specified cart items from the cart, and resets certain cart fields.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartRemove.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object>, which was the input data for the ccrz.ccApiCart.removeFrom method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicCartRemove class in the following order:

1. processInput

- 2. removeItems
- 3. prepReturn

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartRemove.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRemove.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the cart to remove items from.

### ccrz.ccApiCart.CART\_ID

String that specifies the ID of the cart to remove items from.

This method checks that the input map also specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

## ccrz.ccApiCart.COUPON\_CODE

String that specifies a coupon code to remove from the cart.

#### ccrz.ccApiCart.LINE DATA

each item, add a new ccrz.ccApiCart.LineData object to the list and set the LineData.sfid field cart item's Salesforce ID. For information about this list's keys and requirements, see Inputs for Cart Line Data.



Tip: This key accepts only the List<ccrz.ccApiCart.LineData> representation of line data, and doesn't accept the List<Map<String, Object>> representation that we recommend for the ccrz.ccApiCart.addTo method.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartRemove.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogicCartRemove.removeItems

Removes a specified coupon code or specified cart items from the cart, and resets certain cart fields.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> removeItems(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRemove.process method.

This method executes only if the working map includes either of the following keys:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to remove items from.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of the cart to remove items from.

This method also requires either of the following keys:

#### ccrz.ccApiCart.COUPON CODE

String that specifies a coupon code to remove from the cart.

#### ccrz.ccApiCart.LINE DATA

List<ccrz.ccApiCart.LineData> that describes the ccrz\_E\_CartItem\_c records to remove from the cart. For each item, add a new ccrz.ccApiCart.LineData object to the list and set the LineData.sfid field cart item's Salesforce ID. For information about this list's keys and requirements, see Inputs for Cart Line Data.



Tip: This key accepts only the List<ccrz.ccApiCart.LineData> representation of line data, and doesn't accept the List<Map<String, Object>> representation that we recommend for the ccrz.ccApiCart.addTo method.

## Logic Performed

This method completes the following actions:

- 1. The method first checks for whether ccrz.ccApiCart.COUPON\_CODE is specified, and invokes the non-global ccrz.cc api Cart.removeCoupon method to remove the specified coupon.
- 2. Otherwise, the method parses ccrz.ccApiCart.LINE DATA and removes the specified cart items from the cart.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart with the specified coupon code or cart items removed.

This method also sets the following fields on the ccrz E Cart c record:

ccrzE_Cartc <b>Field</b>	Value
ccrzRepricedDatec	null
ccrzValidationStatusc	null

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

ccrz E Cartltem c

Salesforce Help Offer Coupons for Discounts on Storefront Purchases

# ccrz.ccLogic Cart Remove.prep Return

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartRemove.removeItems method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicCartRemoveCart

Define the business logic for deleting carts, including wish lists.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.removeCart

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### removeCart

Executes the DML delete operation on the cart records to remove. If a deleted cart or wish list was active for the current account, this method also determines which cart or wish list becomes active next.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartRemoveCart.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiCart.removeCart method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicCartRemoveCart class in the following order:

- 1. processInput
- 2. removeCart
- 3. prepReturn

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartRemoveCart.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRemoveCart.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to delete.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted IDs of the carts to delete.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to delete.

#### ccrz.ccApiCart.CART IDLIST

Set<String> of IDs of carts to delete.

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartRemoveCart.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogicCartRemoveCart.removeCart

Executes the DML delete operation on the cart records to remove. If a deleted cart or wish list was active for the current account, this method also determines which cart or wish list becomes active next.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> removeCart(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRemoveCart.processInput method.

This method executes only if the working map includes one of the following keys:

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to delete.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted IDs of the carts to delete.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to delete.

#### ccrz.ccApiCart.CART IDLIST

Set<String> of IDs of carts to delete.

## Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccApiCart.fetch method to query specified carts.
- 2. Executes the DML delete operation on the returned carts.
- **3.** If the deleted cart or wish list was active, this method also calls the ccrz.ccApiCart.getActive or ccrz.ccApiWishList.getActive method to determine which cart or wish list becomes active next.

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### SEE ALSO:

ccrz.ccApiCart.fetch

ccrz.ccApiCart.getActive

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

**Deleting Records** 

# ccrz.ccLogicCartRemoveCart.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartRemoveCart.removeCart method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCartRemoveItemGroups

Define the business logic for deleting shipping groups of cart items for line-level independence (LLI) checkout.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.removeCartItemGroup

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### deleteltemGroups

Prepares the cart item group records for deletion.

#### performDML

Executes the DML delete operation on the cart item group records to remove.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

ccrz\_\_E\_CartItemGroup\_\_c

Salesforce Help Specify Shipping Group Options for LLI Checkout

## ccrz.ccLogicCartRemoveltemGroups.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiCart.removeCartItemGroup method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicCartRemoveItemGroups class in the following order:

- 1. processInput
- 2. deleteItemGroups, which calls into performDML
- 3. prepReturn

This method returns the resulting Map<String, Object> after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartRemoveltemGroups.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRemoveItemGroups.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.ITEMGROUPLIST

List<ccrz E CartItemGroup c> of the cart item groups to delete.

### ccrz.ccService.TRANSFORMINDEX

Map<String, Object> that the ccrz.ccServiceCart data service provider generates for defining how the fields in a map convert to sObject data.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartRemoveItemGroups.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogicCartRemoveltemGroups.deleteltemGroups

Prepares the cart item group records for deletion.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> deleteItemGroups(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCartRemoveItemGroups.processInput method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.ITEMGROUPLIST

List<ccrz E CartItemGroup c> of the cart item groups to delete.

### ccrz.ccService.TRANSFORMINDEX

Map<String, Object> that the ccrz.ccServiceCart data service provider generates for defining how the fields in a map convert to sObject data.

### Logic Performed

This method completes the following actions:

- 1. Parses ccrz.ccApiCart.ITEMGROUPLIST and ccrz.ccService.TRANSFORMINDEX, and transforms fields to sObject names, such as groupName to ccrz\_\_GroupName\_\_c.
- 2. Serializes the transformed data back to a List<ccrz\_\_E\_CartItemGroup\_\_c> in the 'itemGroupsToDelete' output.
- 3. Calls the performDML inner method for executing the DML delete operation.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The method completed, and the performDML inner method completed successfully.
false	The 'itemGroupsToDelete' output is null or empty.

#### 'itemGroupsToDelete'

List<ccrz E CartItemGroup c> of the cart item groups to delete.

This method also removes the ccrz.ccApiCart.ITEMGROUPLIST input from the working map.

SEE ALSO:

ccrz\_\_E\_CartItemGroup\_\_c

Salesforce Help Specify Shipping Group Options for LLI Checkout

## ccrz.ccLogicCartRemoveItemGroups.performDML

Executes the DML delete operation on the cart item group records to remove.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> performDML(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRemoveItemGroups.deleteItemGroups method.

This method requires the following key in the working map:

#### 'itemGroupsToDelete'

List<ccrz\_E\_CartItemGroup\_c> of the cart item groups to delete.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

**Deleting Records** 

## ccrz.ccLogicCartRemoveltemGroups.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartRemoveItemGroups.deleteItemGroups method completes.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApi.SIZING
- ccrz.ccLogic.ORIGINAL INPUT
- 'itemGroupsToDelete'

## ccrz.ccLogicCartRepair

Define the business logic for reopening a cart where the status remains Repricing even after a repricing job completes. A cart can remain in this status when a repricing job is unsuccessful or no longer available in the org.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Global API Caller

ccrz.ccApiCart.repair

### Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### repair

Calls the ccrz.ccApiCart.fetch method for returning carts that are candidates for repairs, evaluates whether to repair them, and updates appropriate cart field values.

#### performDML

Executes the DML update operation on the ccrz E Cart c records.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the cart records after they're updated.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartRepair.process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.repair method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartRepair class in the following order:

- 1. processInput
- 2. repair
- 3. performDML
- 4. refetch
- 5. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartRepair.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartRepair.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to repair.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted IDs of the carts to repair.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to repair.

#### ccrz.ccApiCart.CART IDLIST

Set<String> of IDs of carts to repair.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartRepair.prepReturn method removes this intermediate key from the working map.

This method also instantiates the following return data keys:

#### ccrz.ccApi.SUCCESS

Boolean that's assigned an intermediate value of true. Subsequent methods in the logic chain update this value.

## ccrz.ccLogicCartRepair.repair

Calls the ccrz.ccApiCart.fetch method for returning carts that are candidates for repairs, evaluates whether to repair them, and updates appropriate cart field values.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### **Signature**

global virtual Map<String, Object> repair(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicCartRepair.processInput method completes.

This method requires one of the following keys in the working map:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to repair.

#### ccrz.ccApiCart.CART ENCIDLIST

Set<String> of encrypted IDs of the carts to repair.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to repair.

### ccrz.ccApiCart.CART IDLIST

Set<String> of IDs of carts to repair.

### Logic Performed

This method completes the following actions:

- 1. Passes ccrz.ccApiCart.CART\_ID, ccrz.ccApiCart.CART\_IDLIST, ccrz.ccApiCart.CART\_ENCID, or ccrz.ccApiCart.CART\_ENCIDLIST as input for the ccrz.ccApiCart.fetch method, which queries for ccrz\_E Cart\_c records where the ccrz\_CartStatus\_c field's value is Repricing.
- 2. Adds each returned ccrz E Cart c record's ccrz Asynchronous JobID c to a list of job IDs.
- 3. Executes a SOQL query of AsyncApexJob records to find asynchronous Apex jobs that match the IDs.
- **4.** Determines which ccrz E Cart c records require repair:
  - If a ccrz\_E\_Cart\_c record has a null value for ccrz\_AsynchronousJobID\_c, the cart requires repair.
  - If a ccrz\_E\_Cart\_\_c is assigned an ccrz\_\_AsynchronousJobID\_\_c, and the job's status is Completed, Failed, or Aborted, the cart requires repair.
  - If a ccrz\_E\_Cart\_c is assigned an ccrz\_AsynchronousJobID\_c, and the job's status is Processing, Holding, or Queued, the cart's Repricing status is considered accurate. The cart doesn't require repair.
- **5.** Adds each cart that requires repair to a list, and updates the following fields on each <code>ccrz\_E\_Cart\_\_c</code> record:

Field	Value
ccrzCartStatusc	Open
ccrzRepricedDatec	Null

#### **Outputs**

This method returns the working Map<String, Object>, and sets the following keys:

The ccrz.ccLogicCartRepair.prepReturn method removes this intermediate key from the working map.

#### ccrz.ccLogicCartRepair.CARTS TO UPDATE

List<ccrz E Cart c> that contains the repaired carts to update.

#### SEE ALSO:

```
ccrz__E_Cart__c
ccrz.ccApiCart.fetch
AsyncApexJob
```

## ccrz.ccLogicCartRepair.performDML

Executes the DML update operation on the ccrz E Cart c records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> performDML(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCartRepair.performDML method completes. This method requires the following key in the working map:

### ccrz.ccLogicCartRepair.CARTS TO UPDATE

List<ccrz E Cart c> that contains the repaired carts to update.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### SEE ALSO:

Inserting and Updating Records

## ccrz.ccLogicCartRepair.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the cart records after they're updated.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### **Signature**

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartRepair.performDML method completes.

This method requires the following key in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.



#### Note:

- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

#### SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogicCartRepair.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCartRepair.refetch method completes.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicCartRepair.CARTS TO UPDATE

## ccrz.ccLogicCartSave

Define the business logic for saving a cart, including invoking validation logic and updating cart fields for a selected effective account.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

### Global API Caller

ccrz.ccApiCart.saveCart

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### retrieveCartData

Calls ccrz.ccApiCart.fetch to return the cart to evaluate for saving.

#### externalPriceValidation

Provides a placeholder for modifying cart item prices before saving the cart, such as calling and applying price information from an external source. For a composite product such as a kit, make sure to recalculate the composite product price after applying external prices. By default, this method is empty and performs no default action.

#### updateBeforeSave

Provides a placeholder for evaluating specific criteria before saving the cart, such as checking product quantity rules or enforcing other requirements. By default, this method is empty and performs no default action.

#### updateCartAddresses

Calls the ccrz.cc\_hk\_EffectiveAccount.saveCart method for evaluating a selected effective account, if enabled, and updating the cart's shipping and billing addresses.

#### validateCart

Calls the ccrz.ccApiCart.validate method before saving the cart.

#### performCartSave

Evaluates whether the buyer is allowed to check out from the Shopping Cart page, and updates the cart and cart items to save any changes. This method also calls the ccrz.ccLogicCartSave.updateCartAddresses method for evaluating a selected effective account, if enabled, and updating the cart's shipping and billing addresses.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the saved cart record to include in the global API return data.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartSave.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.saveCart method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartSave class in the following order:

- 1. processInput
- 2. retrieveCartData
- 3. externalPriceValidation
- 4. validateCart
- 5. updateBeforeSave
- 6. updateCartAddresses
- 7. validateCart
- 8. performCartSave
- 9. refetch
- 10. prepReturn

#### **Outputs**

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartSave.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to save.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of a cart to save.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

#### ccrz.ccLogicCartSave.FETCHINPUTMAP

Map<String, Object> of query input data to pass to the ccrz.ccLogicCartSave.retrieveCartData method.

## ccrz.cc Logic Cart Save.retrie ve Cart Data

Calls ccrz.ccApiCart.fetch to return the cart to evaluate for saving.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

```
global virtual Map<String, Object> retrieveCartData(Map<String, Object>)
```

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.processInput method. This method requires the following key in the working map:

#### ccrz.ccLogicCartSave.FETCHINPUTMAP

Map<String, Object> of query input data for the ccrz.ccApiCart.fetch method.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiCart.CART ENCID
```

String that specifies the encrypted ID of the fetched cart to evaluate for saving.

```
ccrz.ccApiCart.CART ID
```

String that specifies the ID of the fetched cart to evaluate for saving.

### ccrz.ccLogicCartSave.CURRENT\_CART

ccrz E Cart c that represents the fetched cart to evaluate for saving.

#### ccrz.ccLogicCartSave.CURRENT CARTITEMS

List<ccrz E CartItem c> of the fetched cart's items, keyed by cart ID.



**Note**: If the ccrz.ccApiCart.fetch method can't return a cart that matches the ccrz.ccLogicCartSave.FETCHINPUTMAP query, or if the cart contains no items, this method returns a ccrz.ccLogicCartSave.CartSaveException.

#### SEE ALSO:

```
ccrz_E_Cart__c
ccrz_E_CartItem__c
ccrz.ccApiCart.fetch
```

## ccrz.ccLogicCartSave.externalPriceValidation

Provides a placeholder for modifying cart item prices before saving the cart, such as calling and applying price information from an external source. For a composite product such as a kit, make sure to recalculate the composite product price after applying external prices. By default, this method is empty and performs no default action.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

global virtual Map<String, Object> externalPriceValidation(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.retrieveCartData method. By default, this method doesn't evaluate any input data.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

## ccrz.ccLogicCartSave.updateBeforeSave

Provides a placeholder for evaluating specific criteria before saving the cart, such as checking product quantity rules or enforcing other requirements. By default, this method is empty and performs no default action.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

### Signature

global virtual Map<String, Object> updateBeforeSave(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.externalPriceValidation method

By default, this method doesn't evaluate any input data.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

## ccrz.ccLogic Cart Save.update Cart Addresses

Calls the ccrz.cc\_hk\_EffectiveAccount.saveCart method for evaluating a selected effective account, if enabled, and updating the cart's shipping and billing addresses.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

## Signature

global virtual Map<String, Object> updateCartAddresses(Map<String, Object>)

### Inputs (Required)

 $This \ method\ accepts\ the\ {\tt Map{<}String,\ Object{>}}\ from\ the\ {\tt ccrz.ccLogicCartSave.updateBeforeSave}\ method.$ 

This method requires the following key in the working map:

#### ccrz.ccLogicCartSave.CURRENT CART

ccrz E Cart c that represents the cart to evaluate for saving.

This method passes ccrz.ccLogicCartSave.CURRENT CART as the

 $\verb|ccrz.cc_hk_EffectiveAccount.PARAM_CART_DATA input for the \verb|ccrz.cc_hk_EffectiveAccount.saveCart| method.$ 

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogicCartSave.CURRENT\_CART

ccrz E Cart c that represents the cart to evaluate for saving, updated with the following values:

Field Name	Updated Val	ue
ccrzBillToc	A clone of the	effective account's default billing address.
ccrzEffectiveAcco	untIDc   ID of the accou	nt record that corresponds to the selected effective account.

Field Name	Updated Value	
ccrzRequestDatec	The selected or default delivery date returned from the ccrz.cc_api_DeliveryDate extension point class, if applicable.	
ccrz_ShipToc	A clone of the effective account's default shipping address.	

SEE ALSO:

ccrz.cc\_hk\_EffectiveAccount.saveCart

## ccrz.ccLogicCartSave.validateCart

Calls the ccrz.ccApiCart.validate method before saving the cart.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

### Signature

global virtual Map<String, Object> validateCart(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.updateCartAddresses method. This method requires the following key in the working map:

#### ccrz.ccLogicCartSave.CURRENT CART

ccrz E Cart c that represents the cart to evaluate for saving.

This method passes the cart ID of ccrz.ccLogicCartSave.CURRENT\_CART as the ccrz.ccApiCart.CART\_ID input for the ccrz.ccApiCart.validate method.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

### ccrz.ccApiCart.ALLOW\_CHECKOUT

Boolean

Value	Usage
true	The buyer is allowed to check out from the Shopping Cart page.
false	The buyer isn't allowed to check out from the Shopping Cart page.

SEE ALSO:

ccrz.ccApiCart.validate

## ccrz.ccLogicCartSave.performCartSave

Evaluates whether the buyer is allowed to check out from the Shopping Cart page, and updates the cart and cart items to save any changes. This method also calls the ccrz.ccLogicCartSave.updateCartAddresses method for evaluating a selected effective account, if enabled, and updating the cart's shipping and billing addresses.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

### Signature

global virtual Map<String, Object> performCartSave(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.validateCart method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.ALLOW CHECKOUT

Boolean

Value	Usage
true	The buyer is allowed to check out from the Shopping Cart page.
false	The buyer isn't allowed to check out from the Shopping Cart page.

#### ccrz.ccLogicCartSave.CURRENT CART

ccrz\_E\_Cart\_c that represents the cart to evaluate for saving.

#### ccrz.ccLogicCartSave.CURRENT CARTITEMS

List<ccrz E CartItem c> of the fetched cart's items, keyed by cart ID.

### Outputs

This method returns the working Map<String, Object>, and updates the value of the  $ccrz_validationStatus_c$  field on the  $ccrz_validationStatus_c$ 



Note: If the cart's ccrz\_\_ActiveCart\_\_c field is false, this method also calls the ccrz.ccApiCart.setActive method

#### SEE ALSO:

ccrz.ccLogicCartSave.updateCartAddresses ccrz.ccApiCart.setActive

## ccrz.ccLogicCartSave.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the saved cart record to include in the global API return data.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> refetch(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSave.performCartSave method. This method requires the following keys in the working map:

### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the fetched cart to evaluate for saving.

#### ccrz.ccApiCart.CART ID

String that specifies the ID of the fetched cart to evaluate for saving.

This method applies these parameters to a ccrz.ccApiCart.fetch query for returning the saved cart.

### **Outputs**

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz E Cart c record that the ccrz.ccApiCart.fetch method returned.



- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogicCartSave.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartSave.refetch method.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiCart.ALLOW\_CHECKOUT
- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicCartSave.CURRENT CART
- ccrz.ccLogicCartSave.CURRENT\_CARTITEMS
- ccrz.ccLogicCartSave.FETCHINPUTMAP

## ccrz.ccLogicCartSetActive

Define the business logic for setting a single cart as the active cart for a particular owner, and updating all the owner's other open carts to inactive.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiCart.setActive

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### updateActive

Sets a single cart as the active cart for a particular owner, and updates all the owner's other open carts to inactive.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the active cart record to include in the global API return data.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartSetActive.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.setActive method.

### Logic Performed

This method first checks the value of ccrz.cc\_CallContext.isGuest. When the value is false, this method invokes other methods of the ccrz.ccLogicCartSetActive class in the following order:

- 1. processInput
- 2. updateActive
- 3. refetch
- 4. prepReturn

When ccrz.cc\_CallContext.isGuest is true, this method exits and returns ccrz.ccApi.SUCCESS with a value of a false.

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. The method adds the following intermediate key to this map:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartSetActive.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartSetActive.process method.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCart.BYEFFECTIVEACCOUNT

Boolean

Value	Usage
true	Filter the cart query by the selected effective account. This method evaluates this key only when your storefront uses the Cart per Account mode for effective accounts.
false (default)	Ignore effective accounts.

#### ccrz.ccApiCart.BYOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.



- Sharing rules in your org can affect what data you can see when you filter by cart owner.
- If you don't include this key, this method falls back to ccrz.cc CallContext.currUserId.

#### ccrz.ccApiCart.BYSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to make active.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to make active.



**Note:** If you don't specify ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART\_ENCID, this method falls back to ccrz.cc\_CallContext.currCartId.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogicCartSetActive.CARTIDLIST

Set<String> of Salesforce IDs of the carts to query.

#### ccrz.ccLogicCartSetActive.CARTENCIDLIST

Set<String> of encrypted IDs of the carts to query.



#### Note:

- The ccrz.ccLogicCartSetActive.CARTIDLIST or ccrz.ccLogicCartSetActive.CARTENCIDLIST set is supposed to contain only one ID, but is established for the subsequent ccrz.ccApiCart.fetch query invoked from ccrz.ccLogicCartSetActive.updateActive.
- Don't combine ccrz.ccLogicCartSetActive.CARTIDLIST and ccrz.ccLogicCartSetActive.CARTENCIDLIST.
- Always return one of these sets instead of passing through ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART\_ENCID, respectively.

#### ccrz.ccLogicCartSetActive.CARTOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

#### ccrz.ccLogicCartSetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart query. This method sets this value from ccrz.cc\_CallContext.effAccountId.

#### ccrz.ccLogicCartSetActive.STOREFRONT

String that specifies the storefront for the cart query.

## ccrz.ccLogicCartSetActive.updateActive

Sets a single cart as the active cart for a particular owner, and updates all the owner's other open carts to inactive.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> updateActive(Map<String, Object>)

### Inputs (Required)

 $This \, method \, accepts \, the \, \texttt{Map}{<} \texttt{String, Object}{>} \, \, from \, the \, \texttt{ccrz.ccLogicCartSetActive.processInput} \, \, method.$ 

This method executes only if the working map includes either of the following keys:

### ccrz.ccLogicCartSetActive.CARTIDLIST

Set<String> of Salesforce IDs of the carts to query.

#### ccrz.ccLogicCartSetActive.CARTENCIDLIST

Set<String> of encrypted IDs of the carts to query.



#### Note:

- The ccrz.ccLogicCartSetActive.CARTIDLIST or ccrz.ccLogicCartSetActive.CARTENCIDLIST
  set is supposed to contain only one ID, but is established for the subsequent ccrz.ccApiCart.fetch query that this
  method invokes.
- Don't combine ccrz.ccLogicCartSetActive.CARTIDLIST and ccrz.ccLogicCartSetActive.CARTENCIDLIST.

This method also requires the following keys:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

#### ccrz.ccLogicCartSetActive.CARTOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

#### ccrz.ccLogicCartSetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart query. This method sets this value from ccrz.cc CallContext.effAccountId.

#### ccrz.ccLogicCartSetActive.STOREFRONT

String that specifies the storefront for the cart query.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccLogicCartSetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart query. This method evaluates this key only when your storefront uses the Cart per Account mode for effective accounts.

### Logic Performed

This method completes the following actions:

- 1. Checks the value of ccrz.cc\_CallContext.isGuest. If the value is false, the method executes.
- 2. Applies the input keys to a ccrz.ccApiCart.fetch query, which returns the cart specified by ccrz.ccLogicCartGetActive.CARTIDLIST or ccrz.ccLogicCartGetActive.CARTENCIDLIST.
- 3. Sets the ccrz ActiveCart c field to true on the first cart that ccrz.ccApiCart.fetch returns.
- **4.** Calls ccrz.ccApiCart.fetch again for any other carts that match the input query criteria, and sets each cart's ccrz\_ActiveCart\_c field to false.

#### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccLogicCartSetActive.CARTID\_ACTIVE

String that specifies the Salesforce ID of the cart that was set to active.

SEE ALSO:

ccrz.ccApiCart.fetch

Manage Carts for Effective Accounts

## ccrz.ccLogicCartSetActive.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the active cart record to include in the global API return data.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> refetch(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartSetActive.updateActive method. This method requires the following keys in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Ø

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

#### ccrz.ccLogicCartSetActive.CARTID ACTIVE

String that specifies the Salesforce ID of the active cart to query and include in the return data.

#### ccrz.ccLogicCartSetActive.CARTOWNER

String that specifies the ID of a specific user. Return only cart records where the Owner field matches this user ID.

#### ccrz.ccLogicCartSetActive.STOREFRONT

String that specifies the storefront for the cart query.

This method applies these parameters to a ccrz.ccApiCart.fetch query for returning the active cart.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccLogicCartSetActive.EFFECTIVEACCOUNT

String that specifies the ID of the selected effective account for the cart.

#### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where each Map<String, Object> represents an updated ccrz E Cart c record that the ccrz.ccApiCart.fetch method returned.



#### Mote:

- This key is returned only when the input map specified ccrz.ccApi.SZ REFETCH => true.
- The ccrz.ccApiCart.fetch call can also return ccrz.ccApiAddress.ADDRESSLIST and ccrz.ccApiProduct.PRODUCTLIST keys. For more information about returning address and product data for a cart, see ccrz.ccApiCart.fetch.

SEE ALSO:

ccrz.ccApiCart.fetch

## ccrz.ccLogicCartSetActive.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartSetActive.refetch method. This method requires the following key in the working map:

#### ccrz.ccApiCart.RESPONSE

Map<String, Object> that describes the status of the logic chain for this method, such as the current value of the ccrz.ccApi.SUCCESS return key.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiCart.RESPONSE
- ccrz.ccLogicCartSetActive.CARTENCIDLIST
- ccrz.ccLogicCartSetActive.CARTID ACTIVE
- ccrz.ccLogicCartSetActive.CARTIDLIST
- ccrz.ccLogicCartSetActive.CARTOWNER
- ccrz.ccLogicCartSetActive.EFFECTIVEACCOUNT
- ccrz.ccLogicCartSetActive.STOREFRONT

## ccrz.ccLogicCartTransfer

Define the business logic for transferring ownership of a cart to another user.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCart.transferCart

### Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### transferCart

Prepares the cart data for transferring to a new owner, but doesn't commit the changes yet.

#### updateCart

Executes the DML update operation on the cart records that the ccrz.ccLogicCartTransfer.transferCart method evaluated.

### updateContactAddress

Executes the DML update operation on the contact address records related to the carts that the ccrz.ccLogicCartTransfer.transferCart method evaluated.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the transferred and updated cart record to include in the global API return data.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicCartTransfer.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.transferCart method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartRemoveCart class in the following order:

- 1. processInput
- 2. transferCart

- 3. updateCart
- 4. updateContactAddress
- 5. refetch
- 6. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartTransfer.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartTransfer.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to transfer.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiUser.USER ID

String that specifies the Salesforce ID of the user to transfer ownership to.

#### ccrz.ccApiUser.USER NAME

String that specifies the username of the user to transfer ownership to.

## Important:

- By default, this method is invoked in a context where the current user is the cart's current Owner. If the cart was originally used by a guest user, the current Owner is the default owner for all records created by guest users.
- To successfully transfer ownership to another user, specify the ID or username of a user that has row-level access to the cart. Otherwise, this method doesn't return any error when ownership doesn't successfully transfer.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartTransfer.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogic Cart Transfer.transfer Cart

Prepares the cart data for transferring to a new owner, but doesn't commit the changes yet.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> transferCart(Map<String, Object>)

### Inputs (Required)

 $This \ method\ accepts\ the\ \texttt{Map}{<} \textit{String,}\quad \texttt{Object}{>}\ from\ the\ \texttt{ccrz.ccLogicCartTransfer.processInput}\ method.$ 

This method requires the following keys in the working map:

### ccrz.ccApiAccount.ID

String that specifies the Salesforce ID of the account to transfer the cart to.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to transfer.



Note: If this key isn't specified, the method returns a ccrz.ccApi.MissingInputException.

#### ccrz.ccApiCart.WAS ANONYMOUS

Boolean

Value	Usage
true	The cart was originally used by a guest user.
false (default)	The cart was originally used by an authenticated user.

#### ccrz.ccApiUser.USER ID

String that specifies the Salesforce ID of the user to transfer ownership to.

### ccrz.ccApiUser.USER NAME

String that specifies the username of the user to transfer ownership to.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCart.CARTCONTADDR TO UPSERT

List<ccrz E ContactAddr c> of billing and shipping addresses to set on the cart.

#### ccrz.ccApiCart.CART OBJLIST

List<ccrz E Cart c> that includes the cart to transfer. This list can potentially include other open carts that the new user currently owns, but that must change to inactive after the transfer completes.

#### ccrz.ccApiCart.CARTITEMS TO UPSERT

List<ccrz E CartItem c> of items to include in the cart.

#### ccrz.ccApiCart.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY, to set on the cart.

#### SEE ALSO:

```
ccrz E Cart c
ccrz__E_CartItem__c
```

## ccrz.ccLogicCartTransfer.updateCart

Executes the DML update operation on the cart records that the ccrz.ccLogicCartTransfer.transferCart method evaluated.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> updateCart(Map<String, Object>)
```

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartTransfer.transferCart method. This method requires the following keys in the working map:

```
ccrz.ccApiCart.CARTCONTADDR_TO_UPSERT
  List<ccrz_E_ContactAddr__c> of billing and shipping addresses to set on the cart.
ccrz.ccApiCart.CART_OBJLIST
  List<ccrz_E_Cart__c> that includes the carts to update.
ccrz.ccApiCart.CARTITEMS_TO_UPSERT
  List<ccrz_E_CartItem_c> of cart items to update.
```

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that	
	can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

## Example: Example

Pass the cart and cart items through a custom validation class before the update completes successfully.



Note: This example is only a partial demonstration, and requires more code than what's shown to function correctly.

```
global with sharing class customLogicCartTransfer extends ccrz.ccLogicCartTransfer {
   global virtual override Map<String, Object> updateCart(Map<String, Object>
   inputData) {
```

```
SEE ALSO:

ccrz__E_Cart__c

ccrz__E_CartItem__c

Inserting and Updating Records
```

## ccrz.ccLogicCartTransfer.updateContactAddress

Executes the DML update operation on the contact address records related to the carts that the ccrz.ccLogicCartTransfer.transferCart method evaluated.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> updateContactAddress(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartTransfer.updateCart method.

This method requires the following key in the working map:

### ccrz.ccApiCart.CARTCONTADDR TO UPSERT

List<ccrz E ContactAddr c> of billing and shipping addresses to set on the cart.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### SEE ALSO:

ccrz\_E\_ContactAddr\_\_c
Inserting and Updating Records

# ccrz.ccLogicCartTransfer.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the transferred and updated cart record to include in the global API return data.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartTransfer.updateContactAddress method

This method requires the following keys in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Mote: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to query.

### Outputs

This method returns the working Map<String, Object>, updated with the results of the ccrz.ccApiCart.fetch call.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicCartTransfer.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartTransfer.refetch method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCartValidate

Define the business logic for determining whether a buyer is allowed to check out from the Shopping Cart page. This class also replaces the legacy ccrz.cc\_api\_CartExtension.allowCheckout and ccrz.cc api CartExtension.getCartMessages methods.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Global API Caller

ccrz.ccApiCart.validate

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### processValidate

Calls the ccrz.ccApiCart.fetch method to query a cart and evaluate whether the buyer is allowed to check out from the Shopping Cart page.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### ccrz.ccLogicCartValidate7Hk Example Extension Class

The managed package provides an example extension class, ccrz.ccLogicCartValidate7Hk, that you can use as a starting point for extending ccrz.ccLogicCartValidate to reference legacy methods of the ccrz.cc\_api\_CartExtension class.

# ccrz.ccLogicCartValidate.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

#### Signature

global virtual Map<String, Object> process(Map<String, Object>)

#### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCart.validate method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCartValidate class in the following order:

- 1. processInput
- 2. processValidate
- 3. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicCartValidate.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartValidate.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to validate.

#### ccrz.ccApiCart.CART ID

String that specifies the cart ID to validate.

### Inputs (Optional)

Because this logic service provider invokes the ccrz.ccApiCart.fetch method, the input map can also include that method's accepted inputs.

#### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCartValidate.prepReturn method removes this intermediate key from the working map.

This method also instantiates the following return data keys:

### ccrz.ccApi.MESSAGES

List<ccrz.cc bean Message>, which is initially empty.

#### ccrz.ccApiCart.ALLOW CHECKOUT

Boolean with an initial value of false, which indicates that the buyer isn't allowed to check out from the Shopping Cart page.

# ccrz.ccLogicCartValidate.processValidate

Calls the ccrz.ccApiCart.fetch method to query a cart and evaluate whether the buyer is allowed to check out from the Shopping Cart page.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

#### Signature

global virtual Map<String, Object> processValidate(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCartValidate.processInput method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted cart ID to validate.

#### ccrz.ccApiCart.CART ID

String that specifies the cart ID to validate.



Note: Include ccrz.ccApiCart.CART\_ENCID or ccrz.ccApiCart.CART\_ID, but not both.

### Inputs (Optional)

The working map can also include the inputs that are available for the ccrz.ccApiCart.fetch method.

For the ccrz.ccApi.API SIZING key, this method sets the following default data size request:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_ASSC => false,
        ccrz.ccApi.SZ_REL => new List<String>
    }
}
```

#### Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiCart.fetch outputs, and sets the following keys:

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApiCart.ALLOW CHECKOUT

Boolean

Value	Usage
true	The buyer is allowed to check out from the Shopping Cart page.
false	The buyer isn't allowed to check out from the Shopping Cart page.



# Example: Example: Allow Checkout for Only an Odd Number of Cart Items

Override the default ccrz.ccLogicCartValidate.processValidate method and set ccrz.ccApiCart.ALLOW\_CHECKOUT to true only when the total count (but not quantity) of fetched cart items is an odd number.

SEE ALSO:

ccrz.ccApiCart.fetch ccrz.cc\_api\_CartExtension.allowCheckout ccrz.cc\_api\_CartExtension.getCartMessages

# ccrz.ccLogicCartValidate.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCartValidate.processValidate method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCartValidate7Hk Example Extension Class

The managed package provides an example extension class, ccrz.ccLogicCartValidate7Hk, that you can use as a starting point for extending ccrz.ccLogicCartValidate to reference legacy methods of the ccrz.cc\_api\_CartExtension class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

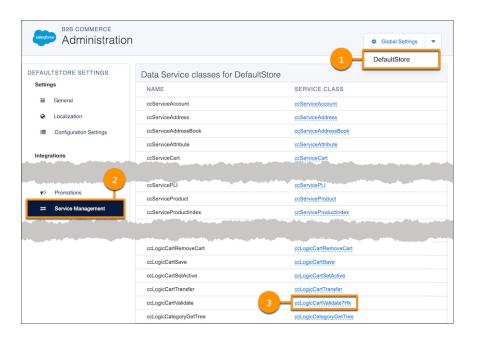
This extension overrides the default ccrz.ccLogicCartValidate.processValidate method to call the following legacy methods:

- ccrz.cc api CartExtension.allowCheckout
- ccrz.cc\_api\_CartExtension.getCartMessages

```
global with sharing class ccrz.ccLogicCartValidate7Hk extends ccrz.ccLogicCartValidate {
   global virtual override Map<String, Object> processValidate(Map<String, Object>
inputData) {
      Map<String, Object> cartFetchResults = (Map<String, Object>) ccUtil.defv(inputData,
ccrz.ccApiCart.RESPONSE, new Map<String, Object> {
            ccrz.ccApi.SUCCESS => false
        });
        try {
            ccrz.cc api cartExtension cartExtension =
ccrz.cc api cartExtension.getInstance(inputData);
            inputData.put(ccrz.ccApiCart.ALLOW CHECKOUT,
cartExtension.allowCheckout(inputData));
          List<ccrz.cc_bean_Message> messages = cartExtension.getCartMessages(inputData);
            if (ccrz.ccUtil.isNotEmpty(messages)) {
                inputData.put(ccrz.ccApi.MESSAGES, messages);
        }
        return inputData;
```

```
}
```

To enable this extension, update your storefront settings in CC Admin. Select your storefront (1), and then select **Service Management** in the Integrations section of the Storefront Settings menu (2). Update the ccLogicCartValidate class (3) with ccLogicCartValidate7Hk.



(1)

Tip: For more help with extending a default logic service provider, including considerations and conventions, see Extend or Override a Default Logic Service Provider.

# ccrz.ccLogicCategoryGetTree

Define the business logic for returning a generated category tree from a public cache.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiCategory.getTree

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### getTree

Calls the ccrz.ccApiPublicCache.fetch method for returning the cached category tree data.

#### prepReturn

Provides a placeholder for overriding the base ccrz.ccLogic.prepReturn method, but doesn't execute any default logic.

#### ccrz.ccLogicCategoryGetTreeHk Example Extension Class

The managed package provides an example extension class, ccrz.ccLogicCategoryGetTreeHk, that you can use as a starting point for extending ccrz.ccLogicCategoryGetTree to reference legacy methods of the ccrz.cc\_hk Category extension point class.

# ccrz.ccLogicCategoryGetTree.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCategory.getTree method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCategoryGetTree class in the following order:

- 1. processInput
- 2. getTree
- 3. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicCategoryGetTree.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

#### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCategoryGetTree.process method.

#### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies a supported locale to return the category tree for.



#### ccrz.ccApiCategory.STOREFRONT

String that specifies the name of a storefront.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

# ccrz.ccLogicCategoryGetTree.getTree

Calls the ccrz.ccApiPublicCache.fetch method for returning the cached category tree data.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> getTree(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCategoryGetTree.processInput method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies a supported locale to return the category tree for.

#### ccrz.ccApiCategory.STOREFRONT

String that specifies the name of a storefront.

### Logic Performed

This method completes the following actions:

- 1. Invokes the ccrz.ccLogic.pullFromCache public utility method, which calls ccrz.ccLogic.prepareCacheKey.
- 2. Passes input data to the ccrz.ccApiPublicCache.fetch method:

Logic Chain Input	ccrz.ccApiSiteIndex.fetch <b>Input</b>
ccrz.ccCategoryCacheBuilder.CACHE_NAME	ccrz.ccApiPublicCache.CACHE_NAME
ccrz.ccApiCategory.CATEGORYLOCALE	ccrz.ccApiPublicCache.LOCALE
ccrz.ccApiCategory.STOREFRONT	ccrz.ccApiPublicCache.STORE_NAME

- 3. Descrializes the ccrz.ccApiPublicCache.CONTENT output from ccrz.ccApiPublicCache.fetch.
- **4.** Calls a public override of the ccrz.ccLogic.prepareCacheData method.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiCategory.CATEGORYTREE

List<Object> of the cached category tree data, describing from the ccrz.ccApiPublicCache.CONTENT output of ccrz.ccApiPublicCache.fetch.

# Example: Example

Override the default ccrz.ccLogicCategoryGetTree.getTree method to rename the top-level categories.

#### SEE ALSO:

ccrz.ccApiPublicCache.fetch

# ccrz.ccLogicCategoryGetTree.prepReturn

Provides a placeholder for overriding the base ccrz.ccLogic.prepReturn method, but doesn't execute any default logic.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCategoryGetTree.getTree method completes.

By default, this method doesn't evaluate any input data.

#### Outputs

This method returns the working Map<String, Object>, but by default doesn't set any key values.

# ccrz.ccLogicCategoryGetTreeHk Example Extension Class

The managed package provides an example extension class, ccrz.ccLogicCategoryGetTreeHk, that you can use as a starting point for extending ccrz.ccLogicCategoryGetTree to reference legacy methods of the ccrz.cc\_hk\_Category extension point class.

# Compatibility

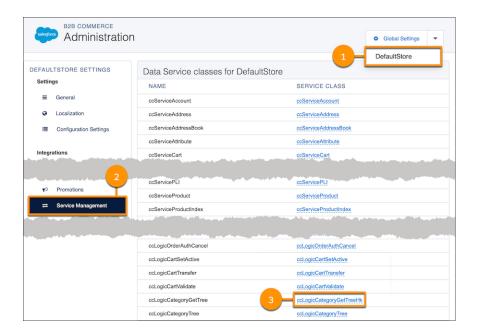
Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

(1) Important: This example extension class is intended for short-term compatibility with existing extensions of ccrz.cc hk Category, which is deprecated. For new solutions, extend ccrz.ccLogicCategoryGetTree.

This extension overrides the default ccrz.ccLogicCategoryGetTree.getTree method to call the ccrz.cc hk Category.fetch method.

To enable this extension, update your storefront settings in CC Admin. Select your storefront (1), and then select **Service Management** in the Integrations section of the Storefront Settings menu (2). Update the ccLogicCategoryGetTree class (3) with ccLogicCategoryGetTreeHk.



? Tip: For more help with extending a default logic service provider, including considerations and conventions, see Extend or Override a Default Logic Service Provider.

SEE ALSO:

ccrz.cc\_hk\_Category (Deprecated)

# ccrz.ccLogicCategoryUrlFor

Define the business logic for returning the friendly URLs for categories.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Global API Caller

ccrz.ccApiCategory.getUrlFor

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### fetchSiteIndices

Calls the ccrz.ccApiSiteIndex.fetch method for returning ccrz\_E\_SiteIndex\_c records that correspond to the specified categories.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

Salesforce Help Serve Friendly URLs for Storefront Pages

# ccrz.ccLogicCategoryUrlFor.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCategory.getUrlFor method

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCategoryUrlFor class in the following order:

- 1. processInput
- 2. fetchSiteIndices
- 3. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicCategoryUrlFor.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCategoryUrlFor.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiCategory.CATEGORYIDLIST

List<String> of Salesforce IDs for categories whose URLs you want to return.

#### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

# ccrz.ccLogicCategoryUrlFor.fetchSiteIndices

Calls the ccrz.ccApiSiteIndex.fetch method for returning ccrz\_\_E\_SiteIndex\_\_c records that correspond to the specified categories.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> fetchSiteIndices(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCategoryUrlFor.processInput method completes.

This method requires the following key in the working map:

### ccrz.ccApiCategory.CATEGORYIDLIST

List<String> of Salesforce IDs for categories whose URLs you want to return.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies one of your storefront's supported locales.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

#### ccrz.ccApiCategory.CATEGORYLOCALES

Set<String> of your storefront's supported locales. The logic chain returns internationalized friendly URL values for each locale.

### Logic Performed

This method completes the following actions:

1. Passes input data to the ccrz.ccApiSiteIndex.fetch method:

Logic Chain Input	ccrz.ccApiSiteIndex.fetch Input
ccrz.ccApiCategory.CATEGORYIDLIST	ccrz.ccApiSiteIndex.IDS
ccrz.ccApiCategory.CATEGORYLOCALE	ccrz.ccApiSiteIndex.LOCALE
ccrz.ccApiCategory.CATEGORYLOCALES	ccrz.ccApiSiteIndex.LOCALES

- 2. Parses the ccrz.ccApiSiteIndex.SITE\_INDICES output from ccrz.ccApiSiteIndex.fetch.For each queried ccrz\_E\_SiteIndex\_c record, this method completes the following actions:
  - If the input data specified only a single locale, this method:
    - a. Adds the referenced category ID and friendly URL to ccrz.ccApiCategory.CATEGORYURLMAP.
    - **b.** Adds the referenced category ID and the ccrz\_E\_SiteIndex\_c record to ccrz.ccApiCategory.SITEINDICES.
  - If the input data specified multiple locales, this method:
    - **a.** Adds the referenced category ID and locale-specific friendly URL to an inner map, and then adds the inner map to ccrz.ccApiCategory.LOCALECATEGORYURLMAP, keyed by locale.
    - **b.** Adds the referenced category ID and locale-specific ccrz\_\_E\_SiteIndex\_\_c record to an inner map, and then adds the inner map to ccrz.ccApiCategory.LOCALESITEINDICES, keyed by locale.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCategory.CATEGORYURLMAP

Map<String, Object> for a single locale, where each key is a category ID and each value is the category's friendly URL.

#### ccrz.ccApiCategory.LOCALECATEGORYURLMAP

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by category ID.
- Each inner map is keyed by locale.
- Each inner map's value is the category's friendly URL for the locale.

### ccrz.ccApiCategory.LOCALESITEINDICES

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by category ID.
- Each inner map is keyed by locale.
- Each inner map's value is the category's corresponding ccrz E SiteIndex c record for the locale.

#### ccrz.ccApiCategory.SITEINDICES

Map<String, Object> for a single locale, where each key is a category ID and each value is the corresponding ccrz E SiteIndex c record.

SEE ALSO:

ccrz\_E\_SiteIndex\_\_c
ccrz.ccApiSiteIndex.fetch
ccrz.ccLogicProductUrlFor.fetchCategoryURLs

# ccrz.ccLogicCategoryUrlFor.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working map Map<String, Object> after the ccrz.ccLogicCategoryUrlFor.fetchSiteIndices method completes.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicCouponApply

Define the business logic for adding and applying a coupon to a specific shopping cart.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

(1) Important: The methods of this class don't support Apex callouts.

### Global API Caller

ccrz.ccApiCoupon.apply

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### retrieveCartData

Calls the ccrz.ccApiCart.fetch method for returning the cart data to evaluate a coupon against. If the input data already specified a cart and cart items to evaluate, the logic chain skips this method.

#### addCoupon

Attempts to add a coupon code to the cart, and executes the DML insert operation on the corresponding ccrz\_E\_CartCoupon c record.

#### applyCoupons

Evaluates the cart items and attempts to apply the coupon's specified discount. This method doesn't execute any DML upsert statements, but can remove expired coupons and update or insert cart items and coupons.

#### performDML

Executes the DML upsert operation on cart items and update operation on the cart after the coupon's discount is applied.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### handleCouponApplyException

Catches a ccrz.ccApiCouponApply.COUPONAPPLYEXCEPTION that occurs during the logic chain, and logs the exception message.

#### Extension Examples for ccrz.ccLogicCouponApply

To implement custom business logic for coupons, create custom subscriber code that extends the default ccrz.ccLoqicCouponApply class. The following code examples provide starting points for working around limits in the default coupon functionality and defining custom requirements.

# ccrz.ccLogicCouponApply.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCoupon.apply method.

### **Logic Performed**

This method invokes other methods of the ccrz.ccLogicCouponApply class in the following order:

- 1. processInput
- 2. retrieveCartData
- 3. addCoupon
- 4. applyCoupons
- 5. performDML
- 6. prepReturn

#### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method catches any exceptions that occur as the method executes.

# ccrz.ccLogicCoupon Apply.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### **Signature**

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponApply.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart that you want to add or apply a coupon to.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart that you want to add or apply a coupon to.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiCoupon.CART HEADER

ccrz E Cart c record that you want to add or apply a coupon to.

#### ccrz.ccApiCoupon.CART ITEMS

List<ccrz E CartItem c> of the cart items for the ccrz.ccApiCoupon.CART HEADER, if specified.



Tip: If you specify either ccrz.ccApiCoupon.CART\_HEADER or ccrz.ccApiCoupon.CART\_ITEMS, make sure to include the other key, as well. When these keys are specified, the logic chain already has the required cart data, and can skip the cart fetch call.

### Logic Performed

This method evaluates whether the input map specifies ccrz.ccApiCoupon.CART\_HEADER and ccrz.ccApiCoupon.CART\_ITEMS. If the input map specifies these keys, this method sets the COUPONSKIPCARTFETCH output to true. This value indicates that the logic chain can skip ccrz.ccLogicCouponApply.retrieveCartData because the cart data is already available.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart specified in ccrz.ccApiCoupon.CART HEADER.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart specified in ccrz.ccApiCoupon.CART HEADER.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

#### COUPONSKIPCARTFETCH

Boolean

Value	Usage
true	The original input data included ccrz.ccApiCoupon.CART_HEADER and ccrz.ccApiCoupon.CART_ITEMS.Skip the ccrz.ccApiCart.fetch call in ccrz.ccLogicCouponApply.retrieveCartData.
false (default)	The original input data omitted ccrz.ccApiCoupon.CART_HEADER and ccrz.ccApiCoupon.CART_ITEMS. Execute the ccrz.ccApiCart.fetch call in ccrz.ccLogicCouponApply.retrieveCartData for fetching the cart data to evaluate the coupon against.

The ccrz.ccLogicCouponApply.prepReturn method removes these intermediate keys from the working map.

# ccrz.ccLogicCouponApply.retrieveCartData

Calls the ccrz.ccApiCart.fetch method for returning the cart data to evaluate a coupon against. If the input data already specified a cart and cart items to evaluate, the logic chain skips this method.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> retrieveCartData(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponApply.processInput method.

This method requires the following keys in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart that you want to add or apply a coupon to.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart that you want to add or apply a coupon to.

#### COUPONSKIPCARTFETCH

Boolean

Value	Usage
true	The original input data included ccrz.ccApiCoupon.CART_HEADER and ccrz.ccApiCoupon.CART_ITEMS. This method is skipped.
false (default)	The input data omitted ccrz.ccApiCoupon.CART_HEADER and ccrz.ccApiCoupon.CART_ITEMS. This method executes.

### Logic Performed

This method completes the following actions:

- 1. Evaluates the value of the COUPONSKIPCARTFETCH input.
- 2. Passes ccrz.ccApiCart.CART ID or ccrz.ccApiCart.CART ENCID as input for ccrz.ccApiCart.fetch.
- 3. Parses the ccrz.ccApiCart.CART OBJLIST that ccrz.ccApiCart.fetch returns.

#### **Outputs**

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the fetched cart.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the fetched cart.

#### ccrz.ccApiCoupon.CART HEADER

ccrz E Cart c record specified in the original input data or that the ccrz.ccApiCart.fetch method returned.

#### ccrz.ccApiCoupon.CART ITEMS

List<ccrz\_E\_CartItem\_c> of the cart items for the ccrz.ccApiCoupon.CART\_HEADER specified in the original input data or that the ccrz.ccApiCart.fetch method returned.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicCouponApply.addCoupon

Attempts to add a coupon code to the cart, and executes the DML insert operation on the corresponding ccrz \_ E CartCoupon \_ c record.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### **Signature**

global virtual Map<String, Object> addCoupon(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponApply.retrieveCartData method.

This method requires the following keys in the working map:

### ccrz.ccApiCoupon.CART\_HEADER

ccrz E Cart c record to add a coupon to.

#### ccrz.ccApiCoupon.CART ITEMS

List<ccrz E CartItem c> of the cart items for the ccrz.ccApiCoupon.CART HEADER.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiCoupon.CODE

String that specifies a coupon code to add to the cart.

### Logic Performed

This method passes ccrz.ccApiCoupon.CART\_HEADER, ccrz.ccApiCoupon.CART\_ITEMS, and ccrz.ccApiCoupon.CODE as input for the ccrz.cc\_api\_Cart.addCoupon public method, which completes the following actions:

- 1. Evaluates the coupon code.
- 2. Creates a ccrz E CartCoupon c record.
- 3. Executes the DML insert operation for the ccrz E CartCoupon c.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

ccrz\_E\_CartCoupon\_\_c
Inserting and Updating Records

# ccrz.ccLogicCouponApply.applyCoupons

Evaluates the cart items and attempts to apply the coupon's specified discount. This method doesn't execute any DML upsert statements, but can remove expired coupons and update or insert cart items and coupons.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> applyCoupons(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponApply.addCoupon method. This method requires the following keys in the working map:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart that you want to apply the coupon to.

#### ccrz.ccApiCoupon.CART ITEMS

List<ccrz E CartItem c> of the cart items for the ccrz.ccApiCoupon.CART HEADER.

#### ccrz.ccApiCoupon.SKIP\_APPLY\_CALC

Boolean

Value	Usage
true	Skip this method's execution, and don't apply the coupon's discount.
false (default)	Execute this method.

### **Logic Performed**

This method executes only when ccrz.ccApiCoupon.SKIP\_APPLY\_CALC is false. This method passes ccrz.ccApiCart.CART\_ID and ccrz.ccApiCoupon.CART\_ITEMS as input for the ccrz.cc util Coupon.applyCouponsToCart public method, which completes the following actions:

- 1. Parses ccrz.ccApiCoupon.CART ITEMS and identifies the major line items.
- 2. Queries for ccrz E CartCoupon c records already related to the cart.
- **3.** Validates each ccrz E CartCoupon c record for start and end dates, and deletes any invalid coupons.
- 4. Updates cart items.
- 5. Evaluates the target and source criteria for the coupon, and applies the coupon's discount when the criteria are satisfied.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_\_E\_CartCoupon\_\_c
Inserting and Updating Records
Deleting Records

# ccrz.ccLogicCouponApply.performDML

Executes the DML upsert operation on cart items and update operation on the cart after the coupon's discount is applied.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### **Signature**

```
global virtual Map<String, Object> performDML(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponApply.applyCoupons method.

This method requires the following keys in the working map:

```
ccrz.ccApiCoupon.CART_HEADER
    ccrz_E_Cart__c record to update.

ccrz.ccApiCoupon.CART_ITEMS
    List<ccrz_E_CartItem__c> of the cart items to upsert.
```

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

```
SEE ALSO:

ccrz__E_CartCoupon__c

Inserting and Updating Records
```

**Upserting Records** 

# ccrz.ccLogicCouponApply.prepReturn

Overrides the base ccrz.cclogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponApply.performDML method.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiCoupon.CART HEADER
- ccrz.ccApiCoupon.CART\_ITEMS
- ccrz.ccLogic.ORIGINAL INPUT
- COUPONSKIPCARTFETCH

# ccrz.ccLogicCouponApply.handleCouponApplyException

Catches a ccrz.ccApiCouponApply.COUPONAPPLYEXCEPTION that occurs during the logic chain, and logs the exception message.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Signature

global virtual Map<String, Object> handleCouponApplyException(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that can include the following keys:

#### ccrz.ccLogicCouponApply.COUPONAPPLYEXCEPTION

CouponApplyException that occurred during the process.

### Outputs

None

# Extension Examples for ccrz.ccLogicCouponApply

To implement custom business logic for coupons, create custom subscriber code that extends the default ccrz.ccLogicCouponApply class. The following code examples provide starting points for working around limits in the default coupon functionality and defining custom requirements.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### (I) Important:

- The following examples are for demo purposes only, and don't provide a complete extension solution. Often, extension is a
  more complex customization that includes object data, data service provider, logic service provider, and buyer experience
  extensions
- For more information about writing a logic service provider extension and configuring your storefront to reference your extension, see Extend or Override a Default Logic Service Provider.

### Example: Example: Restrict a Coupon to a Specific Account

The following ccrz.ccLogicCouponApply extension implements the following custom logic:

- 1. Defines a custom exception class, customCouponApplyException, for gracefully exiting the process.
- 2. Overrides the default ccrz.ccLogicCouponApply.process method to add custom error handling.
- 3. Overrides the default ccrz.ccLogicCouponApply.addCoupon method to evaluate a custom field on the coupon
  code's corresponding ccrz\_E\_Coupon\_c record. The custom field, ccrz\_EligibleAccounts\_c, is a list of
  Salesforce IDs for accounts that are eligible to use the coupon.
  - If the current account is included in the list of eligible accounts, the ccrz.ccLogicCouponApply.addCoupon method completes normally.
    - Note: The ccrz.cc CallContext.currAccount.Id value specifies the account's 18-digit ID.
  - If the current account is excluded from the list of eligible accounts, the method returns error information as a ccrz.cc bean Message and throws the custom exception class, customCouponApplyException.

```
input and select its coupon record
           Set<String> eligibleAccounts = couponToEvaluate.EligibleAccounts c;
           if(eligibleAccounts == null ||
eligibleAccounts.contains(ccrz.cc CallContext.currAccount.Id)) {
                super.addCoupon(inputdata);
            } else {
               ccrz.cc bean Message msg = new ccrz.cc bean Message();
               msg.labelId = 'CouponAddMsg InvalidCoupon';
               msg.classToAppend = 'couponMessagingSection-Error';
               msg.type = ccrz.cc bean Message.MessageType.CUSTOM;
                msg.severity = ccrz.cc bean Mesage.MessageSeverity.ERROR;
                inputdata.put(ccrz.ccApi.MESSAGES, new List<ccrz.cc bean Message>{
                    msg
               });
                inputdata.put(ccrz.ccApi.SUCCESS, false);
                ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X',
'restrictCouponAccount.addCoupon.exception');
               throw new customCouponApplyLogic.customCouponApplyException('This
account isn not eligible for coupons');
           }
           ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X',
'restrictCouponAccount.addCoupon');
           return inputdata;
       }
   }
```

## Example: Example: Automatically Add a Coupon for Certain Accounts

The following ccrz.ccLogicCouponApply extension implements the following custom logic:

- 1. Defines a custom exception class, customCouponApplyException, for gracefully exiting the process.
- 2. Overrides the default ccrz.ccLogicCouponApply.addCoupon method to:
  - **a.** Build the list of accounts that are eligible for automatic coupons
  - **b.** Evaluate whether the current account is included in the list of eligible accounts.
  - **c.** If the current account is eligible, determine whether the cart already has a coupon applied.
  - **d.** If the cart doesn't have a coupon already, automatically apply a coupon and let the ccrz.cclogicCouponApply.addCoupon method completes normally.

# Tip:

- Consider modifying this example so that the method queries coupons that are accounts are eligible for and evaluate other requirements. This example shows how to apply a specific code to an eligible account.
- This example functions correctly only when the Optimize Cart Repricing configuration of the Cart module is a value other than Always. For other values, the ccrz.ccLogicCartPrice.applyCoupons method invokes ccrz.ccLogicCouponApply logic normally.

```
global with sharing class customCouponApplyLogic {
   global class customCouponApplyException extends Exception{}
```

```
global with sharing class autoAddCouponForCertainAccounts extends
ccrz.ccLogicCouponApply {
        global override Map<String, Object> addCoupon(Map<String, Object> inputdata)
 {
            ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:E',
'autoAddCouponForCertainAccounts.addCoupon');
            // Add a SOQL query for coupons that can be applied for these accounts
            // Accounts that are eligible for automatically applying a coupon
          Set<String> eligibleAccounts = new Set<String>{account ID 1, account ID 2};
            if(eligibleAccounts.contains(ccrz.cc_CallContext.currAccount.Id)) {
                String cartId = (String) inputdata.get(ccrz.ccApiCart.CART ID);
                List<ccrz E CartCoupon c> couponsAppliedToCart = [SELECT ID FROM
ccrz E CartCoupon c WHERE ccrz Cart r.Id = :cartId];
                if(ccrz.ccUtil.isEmpty(couponsAppliedToCart) &&
!ccrz.ccUtil.isKeyValued(inputdata, ccrz.ccApiCoupon.CODE)) {
                    \ensuremath{//} Apply a hard-coded coupon, or parse a queried coupon for its
code
                    inputdata.put(ccrz.ccApiCoupon.CODE, 'couponCode');
                }
            }
            super.addCoupon(inputdata);
            ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X',
'autoAddCouponForCertainAccounts.addCoupon');
           return inputdata;
        }
    }
}
```

# **Example: Example: Apply a Discount to an Attribute-Driven Commerce Product**

By default, only a cart total coupon is compatible with attribute-driven commerce (ADC). The following ccrz.ccLogicCouponApply extension implements a \$0 absolute cart total discount (for coupon tracking and reporting) and a \$10 absolute discount on individual cart items. The discount applies only to cart items that match certain combinations of attributes. This extension implements the following custom logic:

- 1. Defines a custom exception class, customCouponApplyException, for gracefully exiting the process.
- 2. Overrides the default ccrz.ccLogicCouponApply.process method to add custom error handling.
- 3. Overrides the default ccrz.ccLogicCouponApply.addCoupon method to:
  - **a.** Query the ADC products that are eligible for the coupon. One option for determining eligibility is to use custom fields on the ccrz\_E\_Coupon\_c object, which reference a specific combination of eligible primary and secondary attributes.
  - **b.** Parse the cart input data, and evaluate whether any cart items match the eligible attributes. Add the cart items to a list to pass to the ccrz.ccLogicCouponApply.applyCoupons method.
    - If a cart item matches the eligible attributes, add the cart item to a list, and let the ccrz.ccLogicCouponApply.addCoupon method execute normally.
    - If no cart item matches the eligible attributes, the method returns error information as a ccrz.cc\_bean\_Message and throws the custom exception class, customCouponApplyException.

- **4.** Overrides the default ccrz.ccLogicCouponApply.applyCoupons method to:
  - **a.** Let the ccrz.ccLogicCouponApply.applyCoupons method execute normally, which applies a \$0 cart total discount.
  - **b.** Loop through the cart items that match the eligible attributes, and individually implement a \$10 absolute discount by explicitly setting the ccrz\_\_AbsoluteDiscount\_\_c and ccrz\_\_AdjustmentAmount c fields.
- (1) Important: This example doesn't show how to remove coupon discounts that affect minor line items, which B2B Commerce for Visualforce doesn't support by default. This example also doesn't show how to update the Handlebars templates that show discount information on the storefront. To fully develop and test this customization in your storefront, further extension is necessary.

```
global with sharing class customCouponApplyLogic {
   global class customCouponApplyException extends Exception{}
   global with sharing class customCoupon100ffADCProduct extends ccrz.ccLogicCouponApply
 {
        global override Map<String, Object> process(Map<String, Object> inputdata) {
           try {
               inputData = super.process(inputData);
            } catch (customCouponApplyLogic.customCouponApplyException e) {
               // Log and handle the exception
           return super.prepReturn(inputData);
       qlobal override Map<String, Object> addCoupon(Map<String, Object> inputdata)
           ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:E',
'customCoupon100ffADCProduct.addCoupon');
           // Fetch a map of products that eligible for the coupon
           Map<String, Object> eligibleADCProducts = new Map<String, Object> {
               eligibleADCProductIDs = New List<String>
{eligibleSelectedPrimaryAttributeID, eligibleSelectedSecondaryAttributeID}
           List<String> cartItemsToDiscount = new List<String>();
           // Find cart items that match eligible attributes
           List<ccrz E CartItem c> cartItems = (List<ccrz E CartItem c>)
inputdata.get(ccrz.ccApiCoupon.CART ITEMS);
           ccrz.ccLog.log(System.LoggingLevel.INFO, 'cartItems', cartItems);
           for (ccrz E CartItem c cartItem: cartItems) {
               if (String.isNotEmpty(cartItem.ccrz PrimaryAttr c)) {
                   List<String> eliqibleAttributeCombinations = (List<String>
eligibleADCProducts.get(cartItem.ccrz Product c);
                   if (ccrz.ccUtil.isNotEmpty(eligibleAttributeCombinations)) {
                        for (String combination : eligibleAttributeCombinations) {
                           if (combination.contains(cartItem.ccrz PrimaryAttr c))
                               if
(combination.contains(cartItem.ccrz SecondaryAttr c)) {
```

```
cartItemsToDiscount.add(cartItem.Id);
                                                                  }
                                                         }
                                               }
                                       }
                                 }
                         }
                        // Add the cart total coupon to the cart
                        if (ccrz.ccUtil.isNotEmpty(cartItemsToDiscount)) {
                                 inputdata.put('cartItemsToDiscount', cartItemsToDiscount);
                                 super.addCoupon(inputdata);
                         } else {
                                 ccrz.cc bean Message msg = new ccrz.cc bean Message();
                                 msg.labelId = 'CouponAddMsg InvalidCoupon';
                                 msq.classToAppend = 'couponMessagingSection-Error';
                                 msq.type = ccrz.cc bean Message.MessageType.CUSTOM;
                                 msg.severity = ccrz.cc bean Mesage.MessageSeverity.ERROR;
                                 inputdata.put(ccrz.ccApi.MESSAGES, new List<ccrz.cc bean Message>{
                                 });
                                 inputdata.put(ccrz.ccApi.SUCCESS, false);
                                 ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X',
'customCoupon10OffADCProduct.addCoupon.exception');
                                 \verb| throw new customCouponApplyLogic.customCouponApplyException('This are the customCouponApplyLogic.customCouponApplyException('This are the customCouponApplyLogic.customCouponApplyException('This are the customCouponApplyLogic.customCouponApplyException('This are the customCouponApplyException('This are the customCoupon
account isn not eligible for coupons');
                        ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X',
'customCoupon100ffADCProduct.addCoupon');
                        return inputdata;
              global override Map<String, Object> applyCoupons(Map<String, Object> inputdata)
                        ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:E',
'customCoupon10OffADCProduct.applyCoupons');
                        super.applyCoupons(inputdata);
                        // Apply the coupon's discount to the eligible cart items
                        List<String> cartItemsToDiscount = (List<String>)
inputdata.get('cartItemsToDiscount');
                        if (ccrz.ccUtil.isNotEmpty(cartItemsToDiscount)) {
                                 List<ccrz_E_CartItem__c> cartItems = (List<ccrz_E_CartItem c)
inputdata.get(ccrz.ccApiCoupon.CART ITEMS);
                                 for (ccrz E CartItem c cartItem: cartItems) {
                                         if (cartItemsToDiscount.contains(cartItem.Id)) {
                                                if (cartItem.ccrz Quantity c != 0 && cartItem.ccrz Price c
 ! = 0) {
                                                  cartItem.ccrz AbsoluteDiscount c = (cartItem.ccrz Price c
  * .1).setScale(2, System.RoundingMode.HALF_EVEN) * cartItem.ccrz__Quantity__c;
                                                          cartItem.ccrz__AdjustmentAmount__c =
cartItem.ccrz AbsoluteDiscount c * -1;
```

```
}
}

ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X',
'customCoupon10OffADCProduct.applyCoupons');
    return inputdata;
}
}
```

SEE ALSO:

Offer Coupons for Discounts on Storefront Purchases

# ccrz.ccLogicCouponRemove

Define the business logic for removing coupons that are already applied to a specified shopping cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Global API Caller

ccrz.ccApiCoupon.remove

# Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### fetchCartData

Calls the ccrz.ccApiCart.fetch method for returning the cart and cart items to remove coupons from.

#### remove

Queries the ccrz\_E\_CartCoupon\_c records to delete, and resets the discount amounts applied to the ccrz\_E\_CartItem\_c records.

#### performDML

Executes the DML delete operation on the ccrz\_E\_CartCoupon\_c records and the update operation on the ccrz\_E Cart c and ccrz\_E CartItem c records.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicCouponRemove.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCoupon.remove method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicCouponRemove class in the following order:

- 1. processInput
- 2. fetchCartData
- 3. remove
- 4. performDML
- 5. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicCouponRemove.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCouponRemove.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to remove coupons from.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to remove coupons from.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage	
true	The call completed.	
false	The call encountered errors.	
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.	

### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCouponRemove.prepReturn method removes these intermediate keys from the working map.

# ccrz.ccLogicCouponRemove.fetchCartData

Calls the ccrz.ccApiCart.fetch method for returning the cart and cart items to remove coupons from.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Signature

global virtual Map<String, Object> fetchCartData(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponRemove.processInput method.

This method can accept either of the following parameters:

### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to remove coupons from.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to remove coupons from.

## Logic Performed

This method completes the following actions:

- 1. Passes ccrz.ccApiCart.CART\_ID or ccrz.ccApiCart.CART\_ENCID as input for ccrz.ccApiCart.fetch.
- 2. Parses the ccrz.ccApiCart.CART OBJLIST that ccrz.ccApiCart.fetch returns.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccLogicCouponRemove.CART\_DATA

ccrz E Cart c record that you want to remove coupons from.

### ccrz.ccLogicCouponRemove.CART\_ITEMS TO UPDATE

List<ccrz E CartItem c> of the cart items for the ccrz.ccLogicCouponRemove.CART DATA.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicCouponRemove.remove

Queries the  $ccrz\_E\_CartCoupon\_c$  records to delete, and resets the discount amounts applied to the  $ccrz\_E$  CartItem c records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Signature

global virtual Map<String, Object> remove(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponRemove.fetchCartData method

This method requires the following keys in the working map:

### ccrz.ccLogicCouponRemove.CART DATA

ccrz E Cart c record that you want to remove coupons from.

### ccrz.ccLogicCouponRemove.CART ITEMS TO UPDATE

List<ccrz E CartItem c> of the cart items for the ccrz.ccLogicCouponRemove.CART DATA.

# Logic Performed

This method completes the following actions:

- 1. Evaluates ccrz.ccLogicCouponRemove.CART\_DATA and finds the ccrz\_\_E\_CartCoupon\_c records associated with the cart.
- 2. Evaluates ccrz.ccLogicCouponRemove.CART\_ITEMS\_TO\_UPDATE and updates the following fields on each ccrz\_E\_CartItem\_c:

Field	Value
ccrzAbsoluteDiscountc	nul1
ccrzCouponc	nul1
ccrzPercentDiscountc	null

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the cart to remove coupons from.

### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the cart to remove coupons from.

### $\verb"ccrz.ccLogicCouponRemove.CART_COUPONS_FOR_DELETION"$

List<ccrz E CartCoupon c> of the cart coupons to remove.

## $\verb"ccrz.ccLogicCouponRemove.CART_ITEMS_TO_UPDATE"$

List<ccrz E CartItem c> of the cart items with reset discount amounts.

### SEE ALSO:

```
ccrz_E_CartCoupon__c
ccrz_E_CartItem__c
```

# ccrz.ccLogicCouponRemove.performDML

Executes the DML delete operation on the  $ccrz\_E\_CartCoupon\_c$  records and the update operation on the  $ccrz\_E\_Cart\_c$  and  $ccrz\_E\_CartItem\_c$  records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

# Signature

```
global virtual Map<String, Object> performDML(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponRemove.remove method.

This method can accept either of the following parameters:

### ${\tt ccrz.ccLogicCouponRemove.CART\_COUPONS\_FOR\_DELETION}$

List<ccrz E CartCoupon c> of the cart coupons to remove.

### ccrz.ccLogicCouponRemove.CART DATA

ccrz E Cart c record that you want to remove coupons from.

### ccrz.ccLogicCouponRemove.CART ITEMS TO UPDATE

List<ccrz\_E\_CartItem\_c> of the cart items for the ccrz.ccLogicCouponRemove.CART\_DATA.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiCoupon.REPRICE CART

Boolean

Value	Usage
true	Chain a call to the ccrz.ccApiCart.price method to reprice the cart after removing the coupons.  Warning: This chained call isn't safe for Apex callouts.
false (default)	Don't chain a call to the ccrz.ccApiCart.price method.

# Logic Performed

This method completes the following actions:

- 1. Executes the DML delete operation on ccrz.ccLogicCouponRemove.CART COUPONS FOR DELETION.
- 2. Executes the DML update operation on ccrz.ccLogicCouponRemove.CART ITEMS TO UPDATE.
- 3. Executes the DML update operation on ccrz.ccLogicCouponRemove.CART DATA.
- **4.** Evaluates ccrz.ccApiCoupon.REPRICE\_CART, and calls ccrz.ccApiCart.price to reprice the cart after removing the coupons.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.

Value	Usage
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

ccrz.ccApiCart.price
Inserting and Updating Records
Upserting Records

# ccrz.ccLogicCouponRemove.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicCouponRemove.performDML method.

# Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicCouponRemove.CART COUPONS FOR DELETION
- ccrz.ccLogicCouponRemove.CART DATA
- ccrz.ccLogicCouponRemove.CART ITEMS TO UPDATE

# ccrz.ccLogicCouponUpdateUse

Define the business logic for removing coupons that are already applied to a specified shopping cart.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Global API Caller

ccrz.ccApiCoupon.updateOnUse

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### fetchCoupon

Calls the ccrz.ccApiCoupon.fetch method for returning the coupons to update.

### updateCoupon

Parses the fetched coupon data and updates each coupon's ccrz\_\_TotalUsed\_\_c field by the ccrz.ccApiCoupon.INCREMENT AMOUNT value.

### performDML

Executes the DML update operation on the ccrz E Coupon c records.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.cc Logic Coupon Update Use.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiCoupon.updateOnUse method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicCouponUpdateUse class in the following order:

- 1. processInput
- 2. fetchCoupon
- 3. updateCoupon
- 4. performDML
- 5. prepReturn

# Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogic Coupon Update Use. process Input

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicCouponUpdateUse.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

### ccrz.ccApiCoupon.CODE

String that specifies the value of the ccrz CouponCode c field of the coupon to update.

### ccrz.ccApiCoupon.CODES

List<String> that specifies ccrz CouponCode c field values of the coupons to update.

### ccrz.ccApiCoupon.ID

String that specifies the Salesforce ID of the coupon to update.

#### ccrz.ccApiCoupon.IDS

List<String> that specifies the Salesforce IDs of coupons to update.



Note: This method checks for these keys in the following order of precedence:

- 1. ccrz.ccApiCoupon.ID
- 2. ccrz.ccApiCoupon.IDS
- 3. ccrz.ccApiCoupon.CODE
- 4. ccrz.ccApiCoupon.CODES

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiCoupon.INCREMENT AMOUNT

A positive or negative integer to add to the ccrz TotalUsed c field of the specified coupons.

### **Outputs**

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

#### ccrz.ccApiCoupon.LOCK COUPON

Boolean

Value	Usage
true (default)	Query the specified coupons using the SOQL FOR UPDATE keyword, which locks the coupons from other changes until the update completes.
false	Don't lock coupons during this method's execution.



**Note:** If the original input data specified a value for this input, this method uses that value. Otherwise, this method sets a default value of true.

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicCouponUpdateUse.prepReturn method removes these intermediate keys from the working map.

# ccrz.ccLogicCouponUpdateUse.fetchCoupon

Calls the ccrz.ccApiCoupon.fetch method for returning the coupons to update.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> fetchCoupon(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCouponUpdateUse.processInput method completes.

This method also requires one of the following keys in the working map:

#### ccrz.ccApiCoupon.CODE

String that specifies the value of the ccrz CouponCode c field of the coupon to update.

### ccrz.ccApiCoupon.CODES

List<String> that specifies ccrz CouponCode c field values of the coupons to update.

### ccrz.ccApiCoupon.ID

String that specifies the Salesforce ID of the coupon to update.

### ccrz.ccApiCoupon.IDS

List<String> that specifies the Salesforce IDs of coupons to update.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiCoupon.LOCK COUPON

Boolean

Value	Usage
true (default)	Query the specified coupons using the SOQL FOR UPDATE keyword, which locks the coupons from other changes until the update completes.
false	Don't lock coupons during this method's execution.

# Logic Performed

This method completes the following actions:

- 1. Passes ccrz.ccApiCoupon.ID, ccrz.ccApiCoupon.IDS, ccrz.ccApiCoupon.CODE, or ccrz.ccApiCoupon.CODES as input for the ccrz.ccApiCoupon.fetch method. This method also passes ccrz.ccApiCoupon.LOCK\_COUPON as the ccrz.ccService.FORUPDATE input for ccrz.ccApiCoupon.fetch.
- 2. Stores the ccrz.ccApiCoupon.fetch output data in the ccrz.ccLogicCouponUpdateUse.COUPON RETURN DATA intermediate key.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccLogicCouponUpdateUse.COUPON\_RETURN\_DATA

Map<String, Object> that the ccrz.ccApiCoupon.fetch method returned.

SEE ALSO:

ccrz.ccApiCoupon.fetch

# ccrz.ccLogic Coupon Update Use.update Coupon

Parses the fetched coupon data and updates each coupon's ccrz\_\_TotalUsed\_\_c field by the ccrz.ccApiCoupon.INCREMENT AMOUNT value.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

### Signature

global virtual Map<String, Object> updateCoupon(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCouponUpdateUse.fetchCoupon method completes.

This method requires the following keys in the working map:

### ccrz.ccApiCoupon.INCREMENT AMOUNT

A positive or negative integer to add to the ccrz TotalUsed c field of the specified coupons.

### ccrz.ccLogicCouponUpdateUse.COUPON RETURN DATA

Map<String, Object> that the ccrz.ccApiCoupon.fetch method returned during ccrz.ccLogicCouponUpdateUse.fetchCoupon.

# Logic Performed

This method completes the following actions for each ccrz\_E\_Coupon\_c record included in ccrz.ccLogicCouponUpdateUse.COUPON RETURN DATA:

- 1. Updates the value of the ccrz\_\_TotalUsed\_\_c field by the ccrz.ccApiCoupon.INCREMENT\_AMOUNT.
- 2. Adds the updated coupon to the ccrz.ccApiCoupon.COUPONLIST output.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiCoupon.COUPONLIST

```
Map<String, ccrz_E_Coupon_c>, keyed by Salesforce ID, of the ccrz_E_Coupon_c records with incremented ccrz TotalUsed c values.
```

SEE ALSO:

ccrz\_E\_Coupon\_\_c ccrz.ccApiCoupon.fetch

# ccrz.ccLogic Coupon Update Use.perform DML

Executes the DML update operation on the ccrz\_E\_Coupon\_c records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> performDML(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object>after the ccrz.ccLogicCouponUpdateUse.updateCoupon method completes.

This method requires the following key in the working map:

### ccrz.ccApiCoupon.COUPONLIST

```
Map<String, ccrz_E_Coupon_c>, keyed by Salesforce ID, of the ccrz_E_Coupon_c records with incremented ccrz TotalUsed c values.
```

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiCoupon.COUPONS UPDATED

List<ccrz\_E\_Coupon\_c> of the updated coupon records.

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogicCouponUpdateUse.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicCouponUpdateUse.performDML method completes.

### **Outputs**

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiCoupon.COUPONLIST
- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicCouponUpdateUse.COUPON RETURN DATA

# ccrz.ccLogicl18NGetAvailableLocales

Define the business logic for returning a storefront's enabled locales.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiI18N.getAvailableLocales

# Methods

IN THIS SECTION:

### process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method references the storefront settings and returns the list of the storefront's enabled locales.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

# ccrz.ccLogicl18NGetAvailableLocales.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method references the storefront settings and returns the list of the storefront's enabled locales.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiI18N.getAvailableLocales method.

This method requires the following key in the input data:

### ccrz.ccApiI18N.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

# Logic Performed

This method completes the following actions:

- 1. Queries the storefront settings object, ccrz\_E\_StorefrontSettings\_c, for records that match ccrz.ccApiI18N.PARAM\_STOREFRONT.
- 2. Parses the storefront settings for the list of enabled locales.

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiI18N.PARAM\_AVAILABLE\_LOCALES

Set<String> of the storefront's enabled locales.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

# ccrz.ccLogicl18NGetBrowserLocales

Define the business logic for determining which locales the buyer's browser supports.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiI18N.getBrowserLocales

# Methods

IN THIS SECTION:

### process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method returns the list of locales that the buyer's browser supports.

### SEE ALSO:

Salesforce Help Select Which Locales and Currenciees Your Storefront Supports
Salesforce Help Supported Browsers for B2B Commerce for Visualforce Storefronts

# ccrz.ccLogicl18NGetBrowserLocales.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method returns the list of locales that the buyer's browser supports.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiI18N.getBrowserLocales method.

# Logic Performed

This method completes the following actions:

- 1. Checks the value of the Accept-Language request HTTP header, which specifies the locales that the user's browser supports.
- 2. Parses the list of returned locales, and removes any duplicates.

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiI18N.PARAM\_BROWSER\_LOCALES

Set<String> of the browser's supported locales.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports
Salesforce Help Supported Browsers for B2B Commerce for Visualforce Storefronts
Mozilla Developers Accept-Language

# ccrz.ccLogicl18NGetLocale

Define the business logic for returning the current buyer's locale.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiI18N.getLocale

# Methods

IN THIS SECTION:

process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method returns the locale for the current guest buyer or registered buyer.

SEE ALSO:

Salesforce Help Translate Storefront Text for Buyers in Different Locales

# ccrz.ccLogicl18NGetLocale.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method returns the locale for the current guest buyer or registered buyer.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiI18N.getLocale method. This method requires the following keys in the input data:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

## Inputs (Optional)

If the input data includes the following key, this method evaluates it:

### ccrz.ccApiI18N.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### **Logic Performed**

If the current buyer is a guest, this method completes the following actions:

- 1. Checks the value of the cclcl URL parameter.
- 2. Parses the cclcl URL parameter value and ensures that only one locale is specified.
- 3. Calls the ccrz.ccApiI18N.getAvailableLocales method for ensuring that the cclcl URL parameter value matches one of the storefront's supported locales.
- 4. If ccrz.ccApiI18N.getAvailableLocales doesn't return a match, this method calls ccrz.ccApiI18N.getBrowserLocales for returning the guest buyer's browser locales, and matches cclcl against the available browser locales.

If this method can't determine a locale for a guest buyer, this method sets the locale based on the site guest user record for the storefront's Experience Cloud site.

If the current buyer is registered for a storefront account, this method sets the locale based on the buyer's user record.

# Outputs

Map<String, Object> that can include the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiI18N.PARAM LOCALE

String that specifies the current buyer's locale.

### SEE ALSO:

ccrz.ccApil18N.getAvailableLocales

ccrz.ccApil18N.getBrowserLocales

Salesforce Help Translate Storefront Text for Buyers in Different Locales

Salesforce Help Parameters in Storefront Page URLs

# ccrz.ccLogicl18NSetLocale

Define the business logic for setting a new locale for the current authenticated buyer.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiI18N.setLocale

# Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method references the storefront settings and returns the list of the storefront's enabled locales.

### SEE ALSO:

Salesforce Help Translate Storefront Text for Buyers in Different Locales

# ccrz.ccLogicl18NSetLocale.process

Overrides the base ccrz.ccLogic.process method and defines all the business logic for this logic service provider. This method references the storefront settings and returns the list of the storefront's enabled locales.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiI18N.setLocale method. This method requires the following keys in the input data:

### ccrz.ccApiI18N.PARAM LOCALE

String that specifies one of your storefront's supported locales—such as  $ja\_JP$ — or generic locale—such as ja—to set for the user.

ccrz.ccLogicOrderAuthCancel

# Inputs (Optional)

If the input data includes the following key, this method evaluates it:

### ccrz.ccApiI18N.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

# Logic Performed

This method completes the following actions:

- 1. Passes ccrz.ccApiI18N.PARAM\_LOCALE as input to ccrz.ccApiI18N.getAvailableLocales method for evaluating whether the specified locale matches one of the storefront's supported locales.
- 2. Updates the LocaleSidKey field on the buyer's corresponding user record.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiI18N.PARAM\_LOCALE

String that specifies the set locale for the current buyer.



Note: If the method couldn't set the locale successfully, this key's value is null.

### SEE ALSO:

User (B2B Commerce for Visualforce)

ccrz.ccApil18N.getAvailableLocales

Salesforce Help Translate Storefront Text for Buyers in Different Locales

# ccrz.ccLogicOrderAuthCancel

Define the business logic for determining whether a buyer can cancel an order.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiOrder.canCancel

# Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicOrder Auth Cancel. process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiOrder.canCancel method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicOrderAuthCancel class in the following order:

- 1. processInput
- 2. prepReturn

This method creates a ccrz.cc\_bean\_MockOrder and passes it as input for the ccrz.cc\_api\_OutboundOrderCancel.eligibleForCancellation method's ccrz.cc\_api\_OutboundOrderCancel.ORDER\_DATA\_PARAM input.

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed. The return data also includes the result of the ccrz.cc\_api\_OutboundOrderCancel.eligibleForCancellation method.

SEE ALSO:

 $ccrz.cc\_api\_OutboundOrderCancel.eligibleForCancellation$ 

# ccrz.ccLogicOrder Auth Cancel. process Input

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processInput(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderAuthCancel.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### ccrz.ccApiOrder.PARAM ORDER STATUS

String that specifies the status of the order to pass to the

ccrz.cc api OutboundOrderCancel.eligibleForCancellation extension point method.

## Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApiOrder.PARAM STOREFRONT

String that specifies the name of a storefront.



 $\textbf{Note:} \ \ \textbf{If the input data doesn't include this key, the method falls back to \verb|ccrz.cc_CallContext.storefront|.}$ 

### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

SEE ALSO:

 $ccrz.cc\_api\_OutboundOrderCancel.eligibleForCancellation$ 

# ccrz.ccLogicOrderAuthCancel.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> prepReturn(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderAuthCancel.process method.

# Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicOrderCancel

Define the business logic for changing the status of an order to Cancelled.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiOrder.cancel

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### fetchOrder

Calls the ccrz.ccApiOrder.fetch method for returning the order to cancel.

#### updateOrder

Executes the DML update operation on the order record where the ccrz.ccLogicOrderCancel.fetchCart method set the  $ccrz\_OrderStatus\_c$  field to Cancelled.

### refetch

Calls the ccrz.ccApiOrder.fetch method for fetching the order record after it's updated.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicOrderCancel.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiOrder.cancel method.

# Logic Performed

This method invokes other methods of the ccrz.cclogicOrderCancel class in the following order:

- 1. processInput
- 2. fetchOrder
- 3. updateOrder
- 4. refetch
- 5. prepReturn

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicOrderCancel.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderCancel.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

### ccrz.ccApiOrder.PARAM ORDER ENCID

Encrypted ID of the order to cancel.

### ccrz.ccApiOrder.PARAM\_ORDER\_ENCID\_LIST

Set<String> that includes the encrypted ID of only one order to cancel.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

### ccrz.ccApiOrder.PARAM ORDER ID

Salesforce ID of the order to cancel.

### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> that includes the Salesforce ID of only one order to cancel.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicOrderCancel.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicOrderCancel.fetchOrder

Calls the ccrz.ccApiOrder.fetch method for returning the order to cancel.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchOrder(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderCancel.processInput method.

This method executes only if the working map includes one of the following keys:

### ccrz.ccApiOrder.PARAM ORDER ENCID

Encrypted ID of the order to cancel.

### ccrz.ccApiOrder.PARAM\_ORDER\_ENCID\_LIST

Set<String> that includes the encrypted ID of only one order to cancel.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

### ccrz.ccApiOrder.PARAM ORDER ID

Salesforce ID of the order to cancel.

### ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST

Set<String> that includes the Salesforce ID of only one order to cancel.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

# Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.ccApiOrder.fetch method to query order records.
- 2. Calls the ccrz.ccApiOrder.canCancel to determine whether the order is eligible for cancellation.
- 3. If the order is eligible for cancellation, sets the order's ccrz OrderStatus c field to Cancelled.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Order\_c record that the ccrz.ccApiOrder.fetch method returns.

### SEE ALSO:

ccrz\_\_E\_Order\_\_c

ccrz.ccApiOrder.fetch

ccrz.ccApiOrder.canCancel

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.ccLogicOrderCancel.updateOrder

Executes the DML update operation on the order record where the ccrz.ccLogicOrderCancel.fetchCart method set the ccrz OrderStatus c field to Cancelled.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> updateOrder(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderCancel.fetchOrder method.

This method requires the following key in the working map:

### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Order\_\_c record where the ccrz\_OrderStatus\_\_c field changed to Cancelled.



Note: Even though this key specifies a list, the method evaluates only the first item in the list.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogicOrderCancel.refetch

Calls the ccrz.ccApiOrder.fetch method for fetching the order record after it's updated.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderCancel.updateOrder method

This method requires the following key in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>,where the Map<String, Object> represents the updated ccrz\_E\_Order\_c record.

SEE ALSO:

ccrz.ccApiOrder.fetch

# ccrz.ccLogicOrderCancel.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderCancel.refetch method.

# Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccApiOrder.ORDERLIST
- ccrz.ccApiOrder.PARAM\_ORDER\_ID
- ccrz.ccApiOrder.PARAM ORDER ENCID
- ccrz.ccApiOrder.PARAM ORDER ID LIST
- ccrz.ccApiOrder.PARAM\_ORDER\_ENCID\_LIST

# ccrz.ccLogicOrderHistory

Define the business logic for searching an account's order history, and fetching order records that match the search terms. This class also replaces the legacy ccrz.cc\_hk Order.fetchOrderHistory method.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiOrder.fetchOrderHistory

## Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### fetchHistory

Calls the ccrz.ccApiOrder.search, ccrz.ccApiOrder.fetch, and ccrz.ccApiOrder.fetchOrderItems methods for searching order history for specific search terms and returning data for matching orders.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### SEE ALSO:

ccrz.cc\_hk\_Order.fetchOrderHistory

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.ccLogicOrderHistory.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiOrder.fetchOrderHistory method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicOrderHistory class in the following order:

- 1. processInput
- 2. fetchHistory
- 3. prepReturn

## Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicOrderHistory.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderHistory.process method.

## Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApiOrder.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

# ccrz.ccLogicOrderHistory.fetchHistory

Calls the ccrz.ccApiOrder.search, ccrz.ccApiOrder.fetch, and ccrz.ccApiOrder.fetchOrderItems methods for searching order history for specific search terms and returning data for matching orders.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchHistory(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderHistory.processInput method.

This method requires either of the following keys in the working map:

### ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST

Set<String> of Salesforce IDs for the orders to guery.

#### ccrz.ccService.SEARCHSTRING

String to use for searching order records.

## Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApi.API SIZING

Map<String, Object> that specifies the scope of data that this method returns, including which fields the method returns for each record that matches the guery.

#### ccrz.ccApiOrder.PARAM ORDERLIMIT

Integer that specifies the maximum number of order records to query at one time.

### ccrz.ccApiOrder.PARAM ORDER ITEM LIMIT

Integer that specifies the maximum number of order item records to query at one time.

## **Logic Performed**

This method completes the following actions:

- If the input map specifies ccrz.ccApiOrder.PARAM\_ORDERLIMIT or ccrz.ccApiOrder.PARAM\_ORDER\_ITEM\_LIMIT, this method calls ccrz.ccApiOrder.fetch and ccrz.ccApiOrder.fetchOrderItems with the specified guery limits.
- 2. If the input map doesn't specify ccrz.ccApiOrder.PARAM\_ORDERLIMIT or ccrz.ccApiOrder.PARAM\_ORDER\_ITEM\_LIMIT, this method attempts the following actions:
  - **a.** Passes ccrz.ccService.SEARCHSTRING as input for ccrz.ccApiOrder.search.
  - **b.** Aggregates the search's ccrz.ccService.SEARCHRESULTS output with this method's ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST input, and passes the full list of IDs as input for ccrz.ccApiOrder.fetch.
  - c. If the search returned no results, passes ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST as input for ccrz.ccApiOrder.fetch.

### **Outputs**

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

This method's output also includes the output of ccrz.ccApiOrder.search, ccrz.ccApiOrder.fetch, and ccrz.ccApiOrder.fetchOrderItems, if applicable.

SEE ALSO:

ccrz.ccApiOrder.fetch

ccrz.ccApiOrder.fetchOrderItems

ccrz.ccApiOrder.search

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.ccLogicOrderHistory.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderHistory.fetchHistory method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicOrderGetOrdersToSplit

Define the business logic for determining which orders to include in the ccrz.ccSplitOrderJob batch processing class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiOrder.getOrdersToSplit

# Methods

IN THIS SECTION:

process

Overrides the base ccrz.ccLogic.process method, and defines the entire logic for the class.

SEE ALSO:

ccrz\_E\_Order\_\_c ccrz.ccSplitOrderJob

# ccrz.ccLogicOrderGetOrdersToSplit.process

Overrides the base ccrz.ccLogic.process method, and defines the entire logic for the class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiOrder.getOrdersToSplit method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiOrder.PARAM STOREFRONT

String that specifies the name of the storefront to split orders for.

# Logic Performed

This method calls Database.getQueryLocator with a query that selects ccrz E Order c records where:

- The ccrz Storefront c field matches ccrz.ccApiOrder.PARAM STOREFRONT.
- The ccrz SplitProcessed c field is FALSE.

## Outputs

Map<String, Object> that includes the following key:

#### ccrz.ccApiOrder.SPLITSELECTOR

QueryLocator for the ccrz.ccSplitOrderJob batch processing class to execute against.

# ccrz.ccLogicOrderReOrder

Define the business logic for copying a completed order and its order items to a new cart and cart items. This class also replaces the legacy ccrz.cc hk Order.reorder method.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiOrder.reorder

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### fetchOrder

Calls the ccrz.ccApiOrder.fetch method for returning the order to copy.

#### fetchAddresses

Calls the ccrz.ccApiAddress.fetch method for returning billing and shipping addresses from the order and its corresponding order item groups.

#### processAddresses

Assigns a new external ID to each billing and shipping address copied from the original order. This method also returns a map that associates each original address' Salesforce ID to its new external ID.

#### insertAddresses

Calls the ccrz.ccApiAddress.createAddress method, which executes the DML insert operation on the new billing and shipping addresses. This method also updates the map of old-to-new addresses with the Salesforce IDs of the inserted address records.

#### processOrderData

Copies data from the original order, order items, and order item groups to the corresponding cart, cart items, and cart item groups. This method creates the cart-related sObjects and assigns new external IDs.

#### createCart

Calls the ccrz.ccApiCart.create method for creating the ccrz E Cart c sObject.

### insert Cart I tem Groups

Executes the DML insert operation on the new ccrz E CartItemGroup c records.

#### insertCartItems

Executes the DML insert operation on the new ccrz\_\_E\_CartItem\_\_c records and DML upsert operation on child cart items.

#### refetch

Calls the ccrz.ccApiCart.fetch method for fetching the cart record after it's created.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### ccrz.ccLogicOrderReOrder7HK Example Extension Class

The managed package provides an example extension class, ccrz.ccLogicOrderReOrder7HK, that you can use as a starting point for extending ccrz.ccLogicOrderReOrder to reference the legacy ccrz.cc hk Order class.

#### SEE ALSO:

ccrz.cc\_hk\_Order.reorder

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

Salesforce Help Show the Reorder Widget

# ccrz.ccLogicOrderReOrder.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiOrder.reorder method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicOrderReOrder class in the following order:

- 1. processInput
- 2. fetchOrder
- 3. fetchAddresses
- 4. processAddresses
- 5. insertAddresses
- 6. processOrderData

- 7. createCart
- 8. insertCartItemGroups
- 9. insertCartItems
- 10. refetch
- 11. prepReturn

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicOrderReOrder.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiOrder.PARAM ORDER ENCID

Encrypted ID of the order to copy.

### ccrz.ccApiOrder.PARAM\_ORDER\_ENCID\_LIST

Set<String> that includes the encrypted ID of only one order to copy.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

### ccrz.ccApiOrder.PARAM\_ORDER\_ID

Salesforce ID of the order to copy.

### ccrz.ccApiOrder.PARAM\_ORDER\_ID\_LIST

Set<String> that includes the Salesforce ID of only one order to copy.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicOrderReOrder.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicOrderReOrder.fetchOrder

Calls the ccrz.ccApiOrder.fetch method for returning the order to copy.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> fetchOrder(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.processInput method.

This method executes only if the working map includes one of the following keys:

#### ccrz.ccApiOrder.PARAM ORDER ENCID

Encrypted ID of the order to copy.

#### ccrz.ccApiOrder.PARAM ORDER ENCID LIST

Set<String> that includes the encrypted ID of only one order to copy.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

### ccrz.ccApiOrder.PARAM\_ORDER\_ID

Salesforce ID of the order to copy.

#### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> that includes the Salesforce ID of only one order to copy.



Note: Even though this key specifies a set, the method evaluates only the first ID in the set.

# Logic Performed

This method calls the ccrz.ccApiOrder.fetch method to query the order, order items, and order item groups records to copy. By default, this guery applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XL,
        ccrz.ccApi.SZ_ASSC => false,
        ccrz.ccApi.SZ_SKIPTRZ => true,
        ccrz.ccApi.SZ_REL => new List<String>{'E_OrderItems__r', 'E_OrderItemGroups__r'}
}
```

### **Outputs**

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous

## ccrz.ccApiOrder.ORDERITEMSBYID

Map<String, List<Map<String, Object>>>, keyed by parent ccrz\_E\_Order\_\_c, where each Map<String, Object> represents a ccrz E OrderItem c record associated with the order.

## ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Order\_\_c record that the ccrz.ccApiOrder.fetch method returns.

#### SEE ALSO:

```
ccrz_E_Order__c
ccrz_E_OrderItem__c
ccrz_E_OrderItemGroup__c
ccrz.ccApiOrder.fetch
```

# ccrz.ccLogicOrderReOrder.fetchAddresses

Calls the ccrz.ccApiAddress.fetch method for returning billing and shipping addresses from the order and its corresponding order item groups.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> fetchAddresses(Map<String, Object>)
```

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.fetchOrder method. This method requires the following keys in the working map:

## ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Order\_c record whose billing and shipping addresses this method queries.

## Logic Performed

This method completes the following actions:

- 1. Evaluates the order's ccrz\_\_BillTo\_\_c and ccrz\_\_ShipTo\_\_c fields, and adds the IDs of the referenced ccrz\_E ContactAddr\_crecords to a Set<String> of address IDs to query.
- 2. Loops through the ccrz\_E\_OrderItemGroup\_c records associated with the order, and adds their ccrz\_ShipTo\_c addresses to the Set<String> of address IDs to guery.
- 3. Passes the Set<String> of address IDs to ccrz.ccApiAddress.fetch.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record that describes a billing or shipping address associated with the order or its order item groups.

#### SEE ALSO:

```
ccrz_E_ContactAddr__c
ccrz_E_Order__c
ccrz_E_OrderltemGroup__c
ccrz.ccApiAddress.fetch
```

# ccrz.ccLogicOrder ReOrder.process Addresses

Assigns a new external ID to each billing and shipping address copied from the original order. This method also returns a map that associates each original address' Salesforce ID to its new external ID.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> processAddresses(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.fetchAddresses method. This method requires the following keys in the working map:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_\_E\_ContactAddr\_\_c record that describes a billing or shipping address associated with the order or its order item groups.

## Logic Performed

For each address in ccrz.ccApiAddress.ADDRESSLIST, this method completes the following actions:

- 1. Removes the existing sfid value.
- 2. Assigns a new, randomized contactAddrId value using the Crypto.getRandomInteger Apex method.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_ContactAddr\_c record, updated with a new contactAddrId value.

## 'origAddressToNewId'

Map<String, Object> that associates each address' original sfid to its new contactAddrId.

SEE ALSO:

ccrz\_\_E\_ContactAddr\_\_c

# ccrz.ccLogicOrderReOrder.insertAddresses

Calls the ccrz.ccApiAddress.createAddress method, which executes the DML insert operation on the new billing and shipping addresses. This method also updates the map of old-to-new addresses with the Salesforce IDs of the inserted address records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> insertAddresses(Map<String, Object>)
```

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.processAddresses method.

This method requires the following keys in the working map:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiAddress.ADDRESSLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_ContactAddr\_c record to insert.

### 'origAddressToNewId'

Map<String, Object> that associates each address' original sfid to its new contactAddrId.

# Logic Performed

This method completes the following actions:

1. Passes ccrz.ccApiAddress.ADDRESSLIST as input for the ccrz.ccApiAddress.createAddress method. By default, this method applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true,
```

```
ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
}
```

- 2. Calls ccrz.ccApiAddress.fetch—because the ccrz.ccApiAddress.createAddress input map specified ccrz.ccApi.SZ REFETCH => true—to return the inserted addresses.
- 3. Evaluates the inserted addresses returned from ccrz.ccApiAddress.fetch, and overwrites the existing 'origAddressToNewId' map with a new map of each address' original Salesforce ID to its new Salesforce ID.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiAddress.ADDRESSLIST

```
List<Map<String, Object>>, where each Map<String, Object> represents an inserted ccrz E ContactAddr c record.
```

### 'origAddressToNewId'

Map<String, Object> that associates each address' original sfid to its new sfid.

#### SEE ALSO:

ccrz.ccApiAddress.createAddress ccrz.ccApiAddress.fetch Inserting and Updating Records

# ccrz.ccLogicOrderReOrder.processOrderData

Copies data from the original order, order items, and order item groups to the corresponding cart, cart items, and cart item groups. This method creates the cart-related sObjects and assigns new external IDs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> processOrderData(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.insertAddresses method. This method requires the following keys in the working map:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiOrder.ORDERITEMSBYID

Map<String, List<Map<String, Object>>>, keyed by parent ccrz\_E\_Order\_c, where each Map<String, Object> represents a ccrz E OrderItem c record to copy.

#### ccrz.ccApiOrder.ORDERLIST

List<Map<String, Object>>, where the Map<String, Object> represents the ccrz\_E\_Order\_\_c record to copy.

#### 'origAddressToNewId'

Map<String, Object> that associates each billing and shipping address' original sfid to its new sfid.

# Logic Performed

This method completes the following actions:

- 1. Evaluates ccrz.ccApiOrder.ORDERITEMSBYID and creates an intermediate key, 'orderItemsById', for organizing the original order's items into major and minor line items.
- 2. Creates a Map<String, Object> for the new ccrz\_E\_Cart\_c record, and assigns a randomized cartId value using the Crypto.getRandomInteger Apex method.
- **3.** Evaluates 'origAddressToNewId' and assigns the cart's ccrz\_\_BillTo\_\_c and ccrz\_\_ShipTo\_\_c contact addresses.
- **4.** Evaluates the order's ccrz\_E\_OrderItemGroup\_c records, and creates corresponding ccrz\_E\_CartItemGroup\_c records. This method assigns each group a randomized cartItemGroupId value using the Crypto.getRandomInteger Apex method.
- **5.** Evaluates the order's ccrz\_E\_OrderItem\_c records, and creates corresponding ccrz\_E\_CartItem\_c records. This method assigns each item a randomized cartItemId value using the Crypto.getRandomInteger Apex method.
  - Note: This method sets each new cart item's ccrz\_\_Price\_\_c and ccrz\_\_SubAmount\_\_c values to 0.00 initially. The ccrz.ccLogicCartPrice class handles repricing the cart items.
- **6.** Prepares lists of ccrz\_E\_Cart\_\_c, ccrz\_E\_CartItem\_\_c, and ccrz\_E\_CartItemGroup\_\_c sObjects to insert.
- **7.** Assigns cart items that are minor line items, such as component products of composite products (bundles, kits, and so on), to a separate list for upsert.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiCart.CART_OBJLIST
```

List<ccrz E Cart c> that contains the cart record to create.

#### 'cartItemsToInsert'

List<ccrz E CartItem c> of sObjects, with external ID set, ready to insert.

## 'groupsToInsert'

List<ccrz E CartItemGroup c> of sObjects, with external ID set, ready to insert.

#### 'upsertList'

List<ccrz E CartItem c> of sObjects for child cart items, such as component products for composite products.

#### SEE ALSO:

```
ccrz_E_Cart__c

ccrz_E_CartItem__c

ccrz_E_CartItemGroup__c

ccrz_E_Order__c

ccrz_E_OrderItem__c

ccrz_E_OrderItemGroup__c
```

# ccrz.ccLogicOrderReOrder.createCart

Calls the ccrz.ccApiCart.create method for creating the ccrz E Cart c sObject.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> createCart(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.processOrderData method.

This method requires the following keys in the working map:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiCart.CART OBJLIST

List<ccrz\_E\_Cart\_c> that contains the cart record to create.

# Logic Performed

This method passes ccrz.ccApiCart.CART OBJLIST as in the input for ccrz.ccApiCart.create.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.MESSAGES

List<ccrz.cc\_bean\_Message>, where each ccrz.cc\_bean\_Message contains error information sent from the server to the client. Typically, these messages are included only when ccrz.ccApi.SUCCESS is FALSE.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.
	Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiCart.CART\_ENCID

String that specifies the encrypted ID of the created cart.

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the created cart.

#### SEE ALSO:

ccrz\_E\_Cart\_\_c ccrz.ccApiCart.create

# ccrz.ccLogicOrder ReOrder. insert Cart I tem Groups

Executes the DML insert operation on the new ccrz E CartItemGroup c records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> insertCartItemGroups(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.createCart method.

This method requires the following keys in the working map:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

### ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the created cart.

### 'groupsToInsert'

List<ccrz E CartItemGroup c> of sObjects, with external ID set, ready to insert.

# Logic Performed

This method assigns the ccrz.ccApiCart.CART\_ID for the ccrz\_\_Cart\_\_c field on each inserted ccrz\_\_E\_CartItemGroup\_\_c.

# Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

ccrz\_E\_CartItemGroup\_\_c
Inserting and Updating Records

# ccrz.ccLogicOrderReOrder.insertCartItems

Executes the DML insert operation on the new  $ccrz\_E\_CartItem\_c$  records and DML upsert operation on child cart items.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> insertCartItems(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderReOrder.insertCartItemGroups method

This method requires the following keys in the working map:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

## ccrz.ccApiCart.CART\_ID

String that specifies the Salesforce ID of the created cart.

#### 'cartItemsToInsert'

List<ccrz E CartItem c> of sObjects, with external ID set, ready to insert.

#### 'upsertList'

List<ccrz E CartItem c> of sObjects for child cart items, such as component products for composite products.

# Logic Performed

This method assigns the  $ccrz.ccApiCart.CART\_ID$  for the  $ccrz\_Cart\_\_c$  field on each inserted  $ccrz\_E\_CartItem\_\_c$ .

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

#### SEE ALSO:

```
ccrz_E_CartItem__c
Inserting and Updating Records
Upserting Records
```

# ccrz.ccLogicOrderReOrder.refetch

Calls the ccrz.ccApiCart.fetch method for fetching the cart record after it's created.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderReOrder.insertCartItems method.

This method requires the following keys in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true for the ccrz.ccApiCart.ENTITYNAME:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiCart.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiCart.CART ID

String that specifies the Salesforce ID of the created cart.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiCart.CART OBJLIST

List<Map<String, Object>>, where the Map<String, Object> represents the created ccrz\_E\_Cart\_c record that the ccrz.ccApiCart.fetch method returned.

SEE ALSO:

ccrz.ccApiCart.fetch

# ccrz.ccLogicOrderReOrder.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderReOrder.refetch method. This method requires the following keys in the working map:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The previous method in the logic chain completed successfully. This method executes.
false	This previous method in the logic chain failed. Execution skips this method, and continues to the next method in the logic chain.

#### ccrz.ccApiCart.CART ENCID

String that specifies the encrypted ID of the created cart.

## Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccLogic.ORIGINAL INPUT
- 'cartItemsToInsert'
- 'groupsToInsert'
- 'orderItemsById'
- 'upsertList'

# ccrz.ccLogicOrderReOrder7HK Example Extension Class

The managed package provides an example extension class, ccrz.ccLogicOrderReOrder7HK, that you can use as a starting point for extending ccrz.ccLogicOrderReOrder to reference the legacy ccrz.cc\_hk\_Order class.

# Compatibility

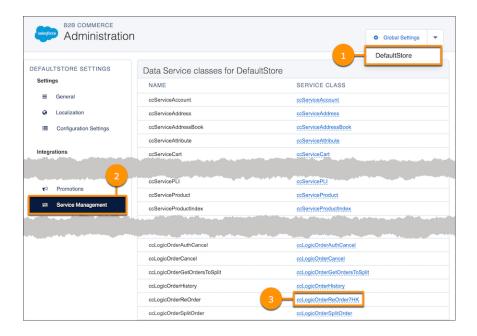
This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

This extension implements the following custom logic:

- 1. Overrides the default ccrz.ccLogicOrderReOrder.process method to call only the following inner methods:
  - processInput
  - createCart
  - prepReturn
- 2. Overrides the default processInput method to set the required order ID inputs.
- **3.** Overrides the default createCart method to call ccrz.cc\_hk\_Order.reorder.
- 4. Overrides the default prepReturn method to remove intermediate keys.

To enable this extension, update your storefront settings in CC Admin. Select your storefront (1), and then select **Service Management** in the Integrations section of the Storefront Settings menu (2). Update the ccLogicOrderReOrder class (3) with ccLogicOrderReOrder7HK.





🚺 Tip: For more help with extending a default logic service provider, including considerations and conventions, see Extend or Override a Default Logic Service Provider.

SEE ALSO:

ccrz.cc\_hk\_Order

# ccrz.ccLogicOrderRestore

Define the business logic for reopening a cart after the corresponding order fails when attempting to place the order asynchronously. This cart's status resets to Open and the cart becomes active. This logic service provider can only restore an order with a status of Error and that hasn't been restored previously.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Global API Caller

ccrz.ccApiOrder.restore

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### fetchOrder

Calls the ccrz.ccApiOrder.fetch method for returning the order that failed to place.

### reOpenCart

Calls the ccrz.ccApiCart.fetch method for returning the cart that corresponds to the failed order, and updates values on both the cart and order records.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicOrderRestore.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiOrder.restore method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicOrderRestore class in the following order:

- 1. processInput
- 2. fetchOrder
- 3. reOpenCart
- 4. prepReturn

## Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicOrderRestore.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderCancel.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiOrder.PARAM ORDER ENCID

String that specifies the encrypted ID of the order to restore.

#### ccrz.ccApiOrder.PARAM ORDER ID

String that specifies the Salesforce ID of the order to restore.

## Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicOrderRestore.prepReturn method removes this intermediate key from the working map.

This method also instantiates the following return data keys:

#### ccrz.ccApi.SUCCESS

Boolean that's assigned an intermediate value of true. Subsequent methods in the logic chain update this value.

# ccrz.ccLogicOrderRestore.fetchOrder

Calls the ccrz.ccApiOrder.fetch method for returning the order that failed to place.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

global virtual Map<String, Object> fetchOrder(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicOrderRestore.processInput method completes.

This method requires either of the following keys in the working map:

#### ccrz.ccApiOrder.PARAM ORDER ENCID

String that specifies the encrypted ID of the order to restore.

## ccrz.ccApiOrder.PARAM ORDER ID

String that specifies the Salesforce ID of the order to restore.

# Logic Performed

This method completes the following actions:

- 1. Passes ccrz.ccApiOrder.PARAM\_ORDER\_ENCID or ccrz.ccApiOrder.PARAM\_ORDER\_ID as input for the ccrz.ccApiOrder.fetch method.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiOrder.ORDERLIST

List<ccrz E Order c> that contains the order that failed to place.

SEE ALSO:

ccrz\_E\_Order\_\_c ccrz.ccApiOrder.fetch

# ccrz.ccLogicOrderRestore.reOpenCart

Calls the ccrz.ccApiCart.fetch method for returning the cart that corresponds to the failed order, and updates values on both the cart and order records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

## Signature

```
global virtual Map<String, Object> reOpenCart(Map<String, Object>)
```

## Inputs (Required)

This method accepts the Map<String, Object> after the ccrz.ccLogicOrderRestore.fetchOrder method completes.

This method requires the following key in the working map:

### ccrz.ccApiOrder.ORDERLIST

List<ccrz E Order c> that contains the order that failed to place.



Note: By default, this method expects only one order record in the list.

# Logic Performed

This method completes the following actions:

- 1. Parses ccrz.ccApiOrder.ORDERLIST for the first ccrz E Order c record included in the list.
- **2.** Evaluates whether the order satisfies the following criteria:
  - The order isn't null.
  - The order's ccrz\_\_CartRestored\_\_c field is false, which indicates that the order hasn't already been restored
    previously.
  - The order's ccrz OrderStatus c field value is Error.
  - The order's ccrz\_\_OriginatedCart\_\_c field specifies some value, which indicates that the order was placed from a cart
- **3.** Passes the order's ccrz\_OriginatedCart\_c as the ccrz.ccApiCart.CART\_ID input for the ccrz.ccApiCart.fetch method.
- **4.** Parses the fetched cart data for the first ccrz E Cart c record.
- 5. Calls the ccrz.ccApiCart.revise method to reset the cart's ccrz CartStatus c field to Open.
- 6. Updates the order's ccrz CartRestored c field to true.
- 7. Stores the encrypted ID of the reopened cart in the 'originatedCart' output.
- 8. Calls the ccrz.ccApiCart.setActive method to make the reopened cart active.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'originatedCart'

String that specifies the encrypted ID of the reopened cart that corresponds to the order that failed to place.

#### SEE ALSO:

```
ccrz_E_Cart__c
ccrz_E_Order__c
ccrz.ccApiCart.fetch
ccrz.ccApiCart.revise
ccrz.ccApiCart.setActive
```

# ccrz.ccLogicOrderRestore.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

# **Signature**

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderRestore.reOpenCart method completes.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicOrderSplitOrder

Define the business logic for splitting orders by seller. To split orders by other criteria, extend this logic service provider class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiOrder.splitOrder

# Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### retrieveOrderData

Calls the ccrz.ccApiOrder.fetch method for returning the orders to split.

#### prepareSplits

Splits order items into a map that describes the split criteria, and builds a map of seller IDs and seller representative users.

#### retrieveAdditionalData

Calls the ccrz.ccApiAddress.fetch method to return the ccrz\_\_E\_ContactAddr\_\_c records to set for each split order's billing and shipping addresses. To fetch other data to apply to split orders, override this method in your subscriber extension code.

#### createNewOrders

Creates ccrz E Order c records based on the specified split order criteria.

#### copyOrder

Copies the original order data to a new ccrz E Order c record.

#### setOrderOwner

Assigns an owner to a new order that the ccrz.ccLogicOrderSplitOrder.copyOrder method created.

#### updateOrders

Executes the DML update operation on the original order records that the

 $\verb|ccrz.ccLogicOrderSplitOrder.createNewOrders| method split into child orders.$ 

#### createAdditionalData

Calls the ccrz.ccApiAddress.createAddress method to create ccrz\_E\_ContactAddr\_c records from the copies of the original order's billing and shipping addresses. To create other data to apply to split orders, override this method in your subscriber extension code.

#### insertNewOrders

Assigns billing and shipping addresses on the new ccrz\_E\_Order\_c records, and executes the DML insert operation on the ccrz\_E\_Order\_c records.

### createNewOrderItems

Creates ccrz E OrderItem c records for the new orders, based on the specified split order criteria.

#### copyOrderItem

Copies an original order item data to a new ccrz E OrderItem c record.

#### insertNewOrderItems

Executes the DML insert operation on the new ccrz E OrderItem c records.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

ccrz.ccSplitOrderJob

# ccrz.ccLogicOrderSplitOrder.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiOrder.splitOrder method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicOrderSplitOrder class in the following order:

- 1. processInput
- 2. retrieveOrderData
- 3. prepareSplits
- 4. retrieveAdditionalData
- 5. createNewOrders, which calls into copyOrder, which calls into setOrderOwner
- 6. updateOrders
- 7. createAdditionalData
- 8. insertNewOrders
- 9. createNewOrderItems, which calls into copyOrderItem
- 10.insertNewOrderItems
- 11. prepReturn

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicOrderSplitOrder.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicOrderSplitOrder.process method.

This method checks that the input map specifies the following keys, and returns a ccrz.ccApi.MissingInputException if any key is missing:

### ccrz.ccApiOrder.PARAM ORDER ID LIST

Set<String> that includes the Salesforce IDs of the orders to split.

### ccrz.ccApiOrder.PARAM STOREFRONT

String that specifies the name of the storefront to split orders for.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicOrderSplitOrder.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicOrderSplitOrder.retrieveOrderData

Calls the ccrz.ccApiOrder.fetch method for returning the orders to split.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> retrieveOrderData(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.processInput method completes.

This method requires the following keys in the working map:

```
ccrz.ccApiOrder.PARAM ORDER ID LIST
```

Set<String> that includes the Salesforce IDs of the orders to split.

#### ccrz.ccApiOrder.PARAM STOREFRONT

String that specifies the name of the storefront to split orders for.

## Logic Performed

This method calls the ccrz.ccApiOrder.fetch method to query the order records to split, including the associated order items. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiOrder.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XL,
        ccrz.ccApi.SZ_SKIPTRZ => true,
        ccrz.ccApi.SZ_REL => new List<String>{'E_OrderItems__r'}
}
```

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiOrder.ORDERITEMSBYID
    Map<String, List<ccrz_E_OrderItem__c>> of the original order's items, keyed by parent ccrz_E_Order__c.
ccrz.ccApiOrder.ORDERLIST
    List<ccrz_E_Order__c> that the ccrz.ccApiOrder.fetch method returns.
```

SEE ALSO:

ccrz.ccApiOrder.fetch

# ccrz.ccLogicOrderSplitOrder.prepareSplits

Splits order items into a map that describes the split criteria, and builds a map of seller IDs and seller representative users.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> prepareSplits(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.retrieveOrderData method completes.

This method requires the following keys in the working map:

```
ccrz.ccApiOrder.ORDERITEMSBYID
```

Map<String, List<ccrz E OrderItem c>> of the original order's items, keyed by parent ccrz E Order c.

#### ccrz.ccApiOrder.ORDERLIST

List<ccrz E Order c> of the original orders to split.

# Logic Performed

This method completes the following actions:

- 1. Evaluates each order and builds ccrz.ccApiOrder.SPLORDITM, which is a map of maps, where:
  - The outer map's key is the original order ID.
  - Each inner map's key is the criteria for splitting ccrz.ccApiOrder.ORDERITEMSBYID, such as the ID of the referenced ccrz\_E\_Seller\_c from each ccrz\_E\_OrderItem\_c record's ccrz\_Seller\_c field.
  - Each inner map's value is the list of corresponding ccrz E OrderItem c data.

Consider the following example, where:

- Original Order A contains two order items: one order item from Seller X and another order item from Seller Y.
- Original Order B contains three order items: two order items from Seller X and another order item from Seller Y.

The resulting ccrz.ccApiOrder.SPLORDITM map resembles the following serialized JSON:

```
"Order A" : {
    "Seller X" : [Order Item 1],
    "Seller Y" : [Order Item 2]
},
"Order B" : {
    "Seller X" : [Order Item 3,Order Item 4],
    "Seller Y" : [Order Item 5]
}
```

- 2. Passes the seller IDs associated the order items as input for the ccrz.ccApiSeller.fetch method.
- 3. Evaluates the ccrz.ccApiSeller.SELLERLIST output from ccrz.ccApiSeller.fetch and adds each seller's ID and ccrz\_\_DefaultRep\_\_c user to ccrz.ccApiOrder.OWNERPERSPLT, a map for other downstream methods to evaluate.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiOrder.OWNERPERSPLT

Map<String, String> that associates each seller ID to its ccrz\_\_DefaultRep c user.

#### ccrz.ccApiOrder.SPLORDITM

Map<String, Map<String, List<ccrz\_E\_OrderItem\_\_c>>> of the split order items, keyed first by order ID and then by split criteria, such as seller ID.

```
SEE ALSO:
```

```
ccrz__E_OrderItem__c
ccrz__E_Seller__c
ccrz.ccApiSeller.fetch
```

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogicOrderSplitOrder.retrieveAdditionalData

Calls the ccrz.ccApiAddress.fetch method to return the ccrz\_E\_ContactAddr\_c records to set for each split order's billing and shipping addresses. To fetch other data to apply to split orders, override this method in your subscriber extension code.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> retrieveAdditionalData(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.prepareSplits method completes.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.ORDERLIST

List<ccrz E Order c> of the original orders to split.

### ccrz.ccApiOrder.SPLORDITM

Map<String, Map<String, List<ccrz\_E\_OrderItem\_\_c>>> of the split order items, keyed first by order ID and then by split criteria, such as seller ID.

# Logic Performed

This method completes the following actions:

- 1. Evaluates each order in ccrz.ccApiOrder.ORDERLIST, and builds a list of billing and shipping address IDs to fetch.
- 2. Passes the list of address IDs to the ccrz.ccApiAddress.fetch method for returning the ccrz\_E\_ContactAddr\_c records for billing and shipping addresses to set on the split orders.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

## ccrz.ccApiOrder.ADDRIDMAP

Map<String, Object>, where:

- Each key is the ID of a ccrz\_\_E\_ContactAddr\_\_c record.
- Each value is a Map<String, Object> represents the corresponding ccrz\_E\_ContactAddr\_\_c record that ccrz.ccApiAddress.fetch returned.

### SEE ALSO:

```
ccrz__E_ContactAddr__c
ccrz.ccApiAddress.fetch
```

# ccrz.ccLogicOrderSplitOrder.createNewOrders

Creates ccrz E Order c records based on the specified split order criteria.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> createNewOrders(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.retrieveAdditionalData method completes.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.ADDRIDMAP

Map<String, Object>, where:

- Each key is the ID of a ccrz\_E\_ContactAddr\_c record for an order's billing or shipping address.
- Each value is a Map<String, Object> represents the corresponding ccrz E ContactAddr c record.

### ccrz.ccApiOrder.ORDERLIST

List<ccrz E Order c> of the original orders to split.

### ccrz.ccApiOrder.OWNERPERSPLT

Map<String, String> that associates each seller ID to its ccrz DefaultRep c user.

### ccrz.ccApiOrder.SPLORDITM

Map<String, Map<String, List<ccrz\_E\_OrderItem\_c>>> of the split order items, keyed first by order ID and then by split criteria, such as seller ID.

### Logic Performed

This method evaluates the ccrz.ccApiOrder.SPLORDITM map and calls the ccrz.ccLogicOrderSplitOrder.copyOrder inner method, which creates a ccrz\_E\_Order\_c record for each combination of original order ID and seller ID.

 $Recall the following example from the \verb|ccrz.ccLogicOrderSplitOrder.prepareSplits| method reference, where: \\$ 

- Original Order A contains two order items: one order item from Seller X and another order item from Seller Y.
- Original Order B contains three order items: two order items from Seller X and another order item from Seller Y.

The ccrz.ccApiOrder.SPLORDITM map resembles the following serialized JSON:

```
"Order A" : {
        "Seller X" : [Order Item 1],
        "Seller Y" : [Order Item 2]
    "Order B" : {
        "Seller X" : [Order Item 3,Order Item 4],
        "Seller Y" : [Order Item 5]
}
```

From this map, this method creates the following child orders:

Child Order Number	Parent Order	Seller	Order Items
1	Order A	X	Order Item 1
2	Order A	Υ	Order Item 2
3	Order B	X	Order Item 3, Order Item 4
4	Order B	Υ	Order Item 5

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiOrder.NEWORDLST

List<ccrz E Order c> of the new orders that the ccrz.ccLogicOrderSplitOrder.copyOrder method

### ccrz.ccApiOrder.OLDADDRDATA

List<Map<String, Object>>, where each Map<String, Object> describes a ccrz E ContactAddr c record that the original order referenced for a billing or shipping address.



Note: The ccrz.ccLogicOrderSplitOrder.copyOrder method copies these addresses, and the ccrz.ccLogicOrderSplitOrder.insertNewOrders method assigns the copies to the new order records.

### ccrz.ccApiOrder.ORDCLNMAP

Map<String, Map<String, ccrz E Order c>>, where:

- The outer map's key is the original order ID.
- Each inner map's key is the criteria for splitting order items: seller ID.
- Each inner map's value is the list of created child ccrz E Order c records.

#### SEE ALSO:

```
ccrz E ContactAddr c
ccrz__E_Seller__c
ccrz E Order c
```

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogicOrderSplitOrder.copyOrder

Copies the original order data to a new ccrz E Order c record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> copyOrder(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderSplitOrder.createNewOrders method.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.ADDRIDMAP

Map<String, Object>, where:

- Each key is the ID of a ccrz E ContactAddr c record for an order's billing or shipping address.
- Each value is a Map<String, Object>represents the corresponding ccrz E ContactAddr c record.

### ccrz.ccApiOrder.OLDADDRDATA

List<Map<String, Object>>, where each Map<String, Object> describes a ccrz\_\_E\_ContactAddr\_\_c record that the original order referenced for a billing or shipping address.



- This method copies these addresses, and the ccrz.ccLogicOrderSplitOrder.insertNewOrders method assigns the copies to the new order records.
- If you override this method in an extension and add other address data, be sure to set each address' ownerId to the same value as ccrz.ccApiOrder.PARAM OWNERID.

### ccrz.ccApiOrder.PARAM\_OWNERID

String that specifies the owner for the new order.

### ccrz.ccApiOrder.SPLITID

String that specifies the criteria to split the original order by, such as seller ID.

### ccrz.ccApiOrder.SRCORD

ccrz E Order c, which specifies the original order record to copy.

## Logic Performed

The ccrz.ccLogicOrderSplitOrder.createNewOrders method calls into this method for creating each new order. This method completes the following actions for each new order:

- 1. Calls the sObject clone method to create a duplicate of the original ccrz E Order c.
- **2.** Sets the following field values on the new order:

Field	Value
ccrzAdjustmentReasonc	null
ccrzEncryptedIdc	null
ccrzOrderNumberc	null
ccrzOrderSellerc	The seller ID.
ccrzSplitParentOrderc	The ID of ccrz.ccApiOrder.SRCORD
ccrzSplitProcessedc	Note: When this field is FALSE, the order remains eligible for future ccrz.ccSplitOrderJob batch processing.

- **3.** Calls the ccrz.ccLogicOrderSplitOrder.setOrderOwner method for setting the new order's owner to ccrz.ccApiOrder.PARAM\_OWNERID.
- **4.** Creates copies of the address data, which the ccrz.ccLogicOrderSplitOrder.insertNewOrders method assigns to the new orders.
- **5.** Sets initial values of 0.00 for the new order's amounts and charges.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiOrder.NEWORD

```
ccrz E Order c for the new order, ready to insert.
```

### SEE ALSO:

```
ccrz_E_ContactAddr__c
ccrz_E_Seller__c
ccrz_E_Order__c
```

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogicOrderSplitOrder.setOrderOwner

Assigns an owner to a new order that the ccrz.ccLogicOrderSplitOrder.copyOrder method created.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> setOrderOwner(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderSplitOrder.copyOrder method.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.NEWORD

ccrz E Order c for the new order, which ccrz.ccLogicOrderSplitOrder.copyOrder created.

## ccrz.ccApiOrder.PARAM\_OWNERID

String that specifies the owner for the new order.

### ccrz.ccApiOrder.SPLITID

String that specifies the criteria to split the original order by, such as seller ID.

### ccrz.ccApiOrder.SRCORD

ccrz E Order c, which specifies the original order record to copy.

### **Logic Performed**

By default, this method assigns the ccrz\_\_DefaultRep\_\_c user from the order's corresponding ccrz\_\_E\_Seller\_\_c as the new order's owner.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiOrder.NEWORD

ccrz E Order c for the new order, updated with the owner ID and ready to insert.

SEE ALSO:

ccrz\_\_E\_Seller\_\_c

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogicOrderSplitOrder.updateOrders

Executes the DML update operation on the original order records that the ccrz.ccLogicOrderSplitOrder.createNewOrders method split into child orders.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> updateOrders(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.createNewOrders method completes.

This method requires the following key in the working map:

### ccrz.ccApiOrder.ORDERLIST

List<ccrz E Order c> of the original orders to split.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogicOrderSplitOrder.createAdditionalData

Calls the ccrz.ccApiAddress.createAddress method to create ccrz\_E\_ContactAddr\_c records from the copies of the original order's billing and shipping addresses. To create other data to apply to split orders, override this method in your subscriber extension code.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> createAdditionalData(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.updateOrders method completes.

This method requires the following keys in the working map:

#### ccrz.ccApiOrder.ADDRIDMAP

Map<String, Object>, where:

- Each key is the ID of a ccrz E ContactAddr c record for an order's billing or shipping address.
- Each value is a Map<String, Object> represents the corresponding ccrz E ContactAddr c record.

#### ccrz.ccApiOrder.OLDADDRDATA

List<Map<String, Object>>, where each Map<String, Object> describes a ccrz\_\_E\_ContactAddr\_\_c record that the original order referenced for a billing or shipping address.

### **Logic Performed**

This method completes the following actions:

1. Passes ccrz.ccApiOrder.OLDADDRDATA as input for the ccrz.ccApiAddress.createAddress method. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAddress.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
```

```
}
```

- 2. Calls ccrz.ccApiAddress.fetch—because the ccrz.ccApiAddress.createAddress input map specified ccrz.ccApi.SZ\_REFETCH => true—to return the created addresses.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiOrder.NEWADDRDATA

Map<String, List<String>>, where:

- Each key is the ID of an original ccrz E ContactAddr c record.
- Each value is a list of IDs of each created ccrz\_E\_ContactAddr\_c record that corresponds to the original ccrz\_E\_ContactAddr\_c record.
- Note: The order of each address list corresponds to the order in which the child orders were split from the parent order.

### SEE ALSO:

```
ccrz_E_ContactAddr__c
ccrz.ccApiAddress.createAddress
ccrz.ccApiAddress.fetch
```

# ccrz.ccLogicOrderSplitOrder.insertNewOrders

Assigns billing and shipping addresses on the new ccrz\_E\_Order\_c records, and executes the DML insert operation on the ccrz\_E\_Order\_c records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> insertNewOrders(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.createAdditionalData method completes.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.NEWADDRDATA

Map<String, List<String>>, where:

- Each key is the ID of an original ccrz E ContactAddr c record.
- Each value is a list of IDs of each created ccrz\_E\_ContactAddr\_c record that corresponds to the original ccrz E ContactAddr c record.
- Note: The order of each address list corresponds to the order in which the child orders were split from the parent order.

#### ccrz.ccApiOrder.NEWORDLST

List<ccrz E Order c> of the new orders to insert.

## Logic Performed

This method executes the following actions:

- 1. Loops through the ccrz.ccApiOrder.NEWORDLST, and sets the appropriate ccrz\_\_BillTo\_\_c and ccrz\_\_ShipTo\_\_c addresses.
- 2. Executes the DML insert operation on the new ccrz E Order c records.

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

```
SEE ALSO:
```

```
ccrz_E_ContactAddr__c
ccrz_E_Order__c
Inserting and Updating Records
```

# ccrz.ccLogicOrderSplitOrder.createNewOrderItems

Creates ccrz E OrderItem c records for the new orders, based on the specified split order criteria.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> createNewOrderItems(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.insertNewOrders method completes.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.ORDCLNMAP

Map<String, Map<String, ccrz\_E\_Order\_c>>, where:

- The outer map's key is the original order ID.
- Each inner map's key is the criteria for splitting order items: seller ID.
- Each inner map's value is the list of created child ccrz E Order c records.

#### ccrz.ccApiOrder.ORDERLIST

List<ccrz\_E\_Order\_\_c> of the original orders to split.

### ccrz.ccApiOrder.SPLORDITM

Map<String, Map<String, List<ccrz E OrderItem c>>>, where:

- The outer map's key is the original order ID.
- Each inner map's key is the criteria for splitting order items: seller ID.
- Each inner map's value is the list of corresponding ccrz E OrderItem c data.

## Logic Performed

This method completes the following actions:

- 1. Evaluates the list of created child orders in ccrz.ccApiOrder.ORDCLNMAP.
- 2. Evaluates the list of order items, split by criteria, in ccrz.ccApiOrder.SPLORDITM.
- 3. Calls the ccrz.ccLogicOrderSplitOrder.copyOrderItem inner method on each order item, and adds the created ccrz E OrderItem c to a list to insert.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiOrder.NEWORDITMLST

```
List<ccrz_E_OrderItem__c> of the new order items that the ccrz.ccLogicOrderSplitOrder.copyOrderItem method creates.
```

#### SEE ALSO:

```
ccrz__E_OrderItem__c
```

# ccrz.ccLogicOrderSplitOrder.copyOrderItem

Copies an original order item data to a new ccrz E OrderItem c record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> copyOrderItem(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicOrderSplitOrder.createNewOrderItems method.

This method requires the following keys in the working map:

### ccrz.ccApiOrder.NEWORD

ccrz E Order c, which specifies the new order record to assign the new order item to.

### ccrz.ccApiOrder.SPLITID

String that specifies the criteria to split the original order by, such as seller ID.

### ccrz.ccApiOrder.SRCORD

ccrz E Order c, which specifies the original order record that the original order item belonged to.

### ccrz.ccApiOrder.SRCORDITM

ccrz E OrderItem c, which specifies the original order item record to copy.

### **Logic Performed**

The ccrz.ccLogicOrderSplitOrder.createNewOrderItems method calls into this method for creating each new order item. This method completes the following actions for each new order item:

- 1. Calls the sObject clone method to create a duplicate of the original ccrz\_E\_OrderItem\_c.
- **2.** Sets the following field values on the new order item:

Field	Value
ccrzOrderc	The ID of ccrz.ccApiOrder.NEWORD

Field	Value
ccrzOrderItemIdc	null
ccrzSplitSourcec	The ID of ccrz.ccApiOrder.SRCORDITM.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiOrder.NEWORDITM

ccrz E OrderItem c for the new order item, ready to insert.

SEE ALSO:

ccrz\_\_E\_OrderItem\_\_c

# ccrz.ccLogicOrderSplitOrder.insertNewOrderItems

Executes the DML insert operation on the new  $\mathtt{ccrz}\_\mathtt{E}\_\mathtt{OrderItem}\_\mathtt{c}$  records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> insertNewOrderItems(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.createNewOrderItems method completes.

This method requires the following key in the working map:

### ccrz.ccApiOrder.NEWORDITMLST

List<ccrz E OrderItem c> of the new order items to insert.

## Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

```
ccrz__E_OrderItem__c
Inserting and Updating Records
```

# ccrz.ccLogicOrderSplitOrder.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicOrderSplitOrder.insertNewOrderItems method completes.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiOrder.ADDRIDMAP
- ccrz.ccApiOrder.NEWADDRDATA
- ccrz.ccApiOrder.NEWORDITMLST
- ccrz.ccApiOrder.NEWORDLST
- ccrz.ccApiOrder.OLDADDRDATA
- ccrz.ccApiOrder.ORDCLNMAP
- ccrz.ccApiOrder.ORDERITEMSBYID

- ccrz.ccApiOrder.ORDERLIST
- ccrz.ccApiOrder.OWNERPERSPLT
- ccrz.ccApiOrder.SPLORDITM
- ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicPlCreate

Define the business logic for creating product index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiProductIndex.create

# Methods

### IN THIS SECTION:

### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### fetchLocaleData

Queries data for specific locales, if specified, or all locales for the storefront.

### fetchPriceListItems

Calls the ccrz.ccApiPriceList.fetchPriceListItems method for returning price list items to create product index records for. This method returns data only when the original input data doesn't already specify ccrz.ccApiProductIndex.PRICE LIST ITEMS.

### processPriceListItems

Organizes price list by items by product ID and currency.

#### fetchProductIndices

Calls the ccrz.ccApiProductIndex.fetch method for returning existing product index records for the products that corresponding to processed price list items.

### updateProductIndices

Updates any existing product index records that previous iterations of the batch job created and ensures that each record's index price is set.

#### buildIndex

Iterates over each locale and calls inner methods for returning product records and creating product index records.

### fetchProducts

Begins the For loop within the ccrz.ccLogicPICreate.buildIndex method by returning product records for a specific locale.

#### createProductIndices

Concludes the For loop within the ccrz.ccLogicPICreate.buildIndex method by creating product index records for the fetched products.

#### upsertProductIndices

Executes the DML upsert operation for the created product index records, which assigns IDs to each record. This operation updates existing product index records with new price and price list information, and inserts new records that this logic provider chain created.

### refetch

Calls the ccrz.ccApiProductIndex.fetch method for fetching the created product index records.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### SEE ALSO:

Salesforce Help Maintain Product Index Records

# ccrz.ccLogicPlCreate.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProductIndex.create method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicPICreate class in the following order:

- 1. processInput
- 2. fetchLocaleData
- 3. fetchPriceListItems
- 4. fetchProductIndices
- 5. updateProductIndices
- 6. buildIndex, which executes a For loop that calls into the following inner methods for each locale:
  - a. fetchProducts
  - **b.** createProductIndices
- 7. upsertProductIndices
- 8. refetch
- 9. prepReturn

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicPlCreate.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> processInput(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPICreate.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

### ccrz.ccApiProductIndex.PRICE LIST ITEM IDS

Set<String> of Salesforce IDs of price list item records that you want to create product index records for.

```
new Set<String>{'Price_List_Item_ID_1', 'Price_List_Item_ID_2'}
```

#### ccrz.ccApiProductIndex.PRICE LIST ITEMS

Map<String, Object> of price list item records, keyed by ID, that you want to create product index records for.

### ccrz.ccApiProductIndex.PRODUCT IDS

Set<String> of Salesforce IDs of product records that you want to create product index records for.

```
new Set<String>{'Product_ID_1', 'Product_ID_2'}
```

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicPICreate.prepReturn method removes this intermediate key from the working map.

### SEE ALSO:

```
ccrz_E_PricelistItem__c
ccrz_E_Product__c
```

Salesforce Help Maintain Product Index Records

# ccrz.ccLogicPlCreate.fetchLocaleData

Queries data for specific locales, if specified, or all locales for the storefront.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> fetchLocaleData(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPICreate.processInput method completes.

## Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiProductIndex.LOCALES

Set<String> of locales that you want to create product index records for.

new Set<String>{'en US', 'ja JP'}



Note: If the input data doesn't specify this key, this method queries all locales.

## Logic Performed

This method evaluates whether the input data includes ccrz.ccApiProductIndex.LOCALES:

- If the input data includes ccrz.ccApiProductIndex.LOCALES, this method returns those locales in the output data.
- If the input data doesn't include ccrz.ccApiProductIndex.LOCALES, this method queries the storefront settings object, ccrz\_E\_StorefrontSettings\_\_c, for its specified locales. This return data includes the storefront's enabled full locales (such as en\_US and ja\_JP) and language-only locales (such as en or ja).

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiProductIndex.LOCALES

Set<String> of specific locales, if specified, or all locales.

#### SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

# ccrz.ccLogicPlCreate.fetchPriceListItems

Calls the ccrz.ccApiPriceList.fetchPriceListItems method for returning price list items to create product index records for. This method returns data only when the original input data doesn't already specify ccrz.ccApiProductIndex.PRICE\_LIST\_ITEMS.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchPriceListItems(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPICreate.fetchLocaleData method completes.

## Logic Performed

If the input data already specified ccrz.ccApiProductIndex.PRICE\_LIST\_ITEMS, this method returns the input data, and execution continues to the next method in the logic chain.

If the input data didn't specify ccrz.ccApiProductIndex.PRICE\_LIST\_ITEMS, this method completes the following actions:

1. Calls ccrz.ccApiPriceList.fetchPriceListItems using the following inputs, depending on which key was specified in the original input data:

Logic Chain Input	ccrz.ccApiPriceList.fetchPriceListItems Input
ccrz.ccApiProductIndex.PRICE_LIST_ITEM_IDS	ccrz.ccApiPriceList.PLI_IDS
ccrz.ccApiProductIndex.PRODUCT_IDS	ccrz.ccApiPriceList.PRODUCTIDS

2. Parses the ccrz.ccApiPriceList.PRICELISTITEMS output from ccrz.ccApiPriceList.fetchPriceListItems.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccApiProductIndex.PRICE LIST ITEMS
```

Map<String, Object> of ccrz\_E\_PriceListItem\_c records that the ccrz.ccApiPriceList.fetchPriceListItems method returned.

SEE ALSO:

ccrz\_E\_PricelistItem\_\_c
ccrz.ccApiPriceList.fetchPriceListItems

# ccrz.ccLogicPlCreate.processPriceListItems

Organizes price list by items by product ID and currency.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

```
global virtual Map<String, Object> processPriceListItems(Map<String, Object>)
```

### Inputs (Required)

 $This method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, \, after \, the \, \texttt{ccrz.ccLogicPICreate.fetchPriceListItems} \, \, method \, completes.$ 

This method requires the following key in the working map:

## Inputs (Optional)

If the working map includes the following key, this method evaluates it:

```
ccrz.ccApiProductIndex.MASTER_PRICE_LIST
```

String that specifies the ID of the storefront's master price list, if applicable.

# Logic Performed

If the input data specified ccrz.ccApiProductIndex.MASTER\_PRICE\_LIST, this method calls the private inner method, processPriceListItemsMasterPriceList, which completes the following actions:

If the input data didn't specify ccrz.ccApiProductIndex.MASTER\_PRICE\_LIST, this method calls the private inner method, processPriceListItemsWithOutMasterPriceList.

Each inner method completes the following actions:

- 1. Parses ccrz.ccApiProductIndex.PRICE LIST ITEMS.
- 2. Sets an indexed price for each product:
  - When ccrz.ccApiProductIndex.MASTER\_PRICE\_LIST is specified, the indexed price is the product's price in the master price list.
  - When ccrz.ccApiProductIndex.MASTER\_PRICE\_LIST isn't specified, the indexed price is the product's *lowest* price from all the price list items assigned to the product in that currency.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiProductIndex.CURRENCIES

Set<String> of currency codes for the price list items.



Note: When ccrz.ccApiProductIndex.MASTER PRICE LIST is specified, this key's value is 'GLOBAL'.

## ccrz.ccApiProductIndex.PRODUCT PRICING DATA

Map<String, Map<String, Object>>> of pricing data for the price list items, where:

- The outer map is keyed by product ID
- The second-level map is keyed by currency ISO code
- The inner map describes the indexed price and its corresponding price list

SEE ALSO:

ccrz\_\_E\_PricelistItem\_\_c

Salesforce Help Strategies for Managing Price List Item Currencies with Product Index Records

# ccrz.ccLogicPlCreate.fetchProductIndices

Calls the ccrz.ccApiProductIndex.fetch method for returning existing product index records for the products that corresponding to processed price list items.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> fetchProductIndices(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPICreate.processPriceListItems method completes.

This method requires the following keys in the working map:

### ccrz.ccApiProductIndex.CURRENCIES

Set<String> of currency codes for the price list items.

### ccrz.ccApiProductIndex.PRODUCT PRICING DATA

Map<String, Map<String, Object>>> of pricing data for the price list items, where:

- The outer map is keyed by product ID
- The second-level map is keyed by currency ISO code
- The inner map describes the indexed price and its corresponding price list

## Logic Performed

This method passes the following inputs to ccrz.ccApiProductIndex.fetch

Logic Chain Input	ccrz.ccApiProductIndex.fetch <b>Input</b>
ccrz.ccApiProductIndex.PRODUCT_PRICING_DATA using the keySet method of the Apex Map class	ccrz.ccApiProductIndex.PRODUCT_IDS
ccrz.ccApiProductIndex.CURRENCIES	ccrz.ccApiProductIndex.CURRENCIES

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz E ProductIndex c> that the ccrz.ccApiProductIndex.fetch method returned.

### SEE ALSO:

```
ccrz_E_ProductIndex_c
ccrz.ccApiProductIndex.fetch
keySet()
```

# ccrz.ccLogicPICreate.updateProductIndices

Updates any existing product index records that previous iterations of the batch job created and ensures that each record's index price is set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> updateProductIndices(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPICreate.fetchProductIndices method completes.

This method requires the following keys in the working map:

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz\_E\_ProductIndex\_c> of existing product index records that match the products included in ccrz.ccApiProductIndex.PRODUCT\_PRICING\_DATA.

### ccrz.ccApiProductIndex.PRODUCT PRICING DATA

Map<String, Map<String, Object>>> of pricing data for the price list items, where:

- The outer map is keyed by product ID
- The second-level map is keyed by currency ISO code
- The inner map describes the indexed price and its corresponding price list

## Logic Performed

For each ccrz\_\_E\_ProductIndex\_\_c record in ccrz.ccApiProductIndex.PRODUCT\_INDICES, this method completes the following actions:

1. Evaluates whether the product's current price from ccrz.ccApiProductIndex.PRODUCT\_PRICING\_DATA is less than the existing ccrz\_\_IndexPrice\_\_c on the product index record, and sets ccrz\_\_IndexPrice\_\_c to that current price.

- 2. Checks the length of the ccrz\_\_PriceLists\_\_c field on a product index record where ccrz\_\_IndexType\_\_c is SEARCH. When the length exceeds the allowed field size, this method creates another product index record for the remaining price lists.
  - Note: This method doesn't evaluate the length of the ccrz\_\_PriceLists\_\_c field for any other ccrz IndexType c value.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

```
ccrz.ccApiProductIndex.PRODUCT INDICES
```

List<ccrz E ProductIndex c> of updated product index records, ready to upsert.

SEE ALSO:

ccrz\_\_E\_ProductIndex\_\_c

keySet()

Salesforce Help Strategies for Managing Price List Item Currencies with Product Index Records

# ccrz.ccLogicPlCreate.buildIndex

Iterates over each locale and calls inner methods for returning product records and creating product index records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> buildIndex(Map<String, Object>)

### Inputs (Required)

 $This method accepts the working \verb|Map| < String|, | Object| > after the \verb|ccrz.ccLogicPICreate.updateProductIndices| \\ method completes.$ 

This method requires the following key in the working map:

### ccrz.ccApiProductIndex.LOCALES

Set<String> of locales that the ccrz.ccLogicPICreate.fetchLocaleData method returned.

## Logic Performed

For each locale in ccrz.ccApiProductIndex.LOCALES, this method completes the following actions:

- 1. Instantiates an input key, ccrz.ccApiProductIndex.LOCALE, for the current locale and calls the ccrz.ccLogicPICreate.fetchProducts inner method for returning product records for the locale.
- 2. Calls the ccrz.ccLogicPICreate.createProductIndices inner method for creating product index records for the fetched products.

### Outputs

This method returns the working Map<String, Object> after the inner loop methods complete.

# ccrz.ccLogicPlCreate.fetchProducts

Begins the For loop within the ccrz.ccLogicPICreate.buildIndex method by returning product records for a specific locale.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchProducts(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPICreate.buildIndex method. This method requires the following keys in the working map:

### ccrz.ccApiProductIndex.LOCALE

String that specifies the current locale evaluated in the ccrz.ccLogicPICreate.buildIndex For loop.

## ccrz.ccApiProductIndex.PRODUCT\_PRICING\_DATA

Map<String, Map<String, Object>>> of pricing data for the price list items, where:

- The outer map is keyed by product ID
- The second-level map is keyed by currency ISO code
- The inner map describes the indexed price and its corresponding price list

## Logic Performed

This method passes the following inputs to ccrz.ccApiProduct.fetch:

Logic Chain Input	ccrz.ccApiProduct.fetch <b>Input</b>
ccrz.ccApiProductIndex.PRODUCT_PRICING_DATA using the keySet method of the Apex Map class	ccrz.ccApiProduct.PRODUCTIDLIST
ccrz.ccApiProductIndex.LOCALE	ccrz.ccApiProduct.PRODUCTLOCALE

By default, this query applies the following data size request parameters:

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiProduct.PRODUCTLIST
```

SEE ALSO:

```
ccrz_E_Product__c
ccrz.ccApiProduct.fetch
```

# ccrz.ccLogicPlCreate.createProductIndices

Concludes the For loop within the ccrz.ccLogicPICreate.buildIndex method by creating product index records for the fetched products.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> createProductIndices(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPICreate.buildIndex method. This method requires the following keys in the working map:

### ccrz.ccApiProduct.PRODUCTLIST

List<Object> of ccrz\_E\_Product\_c records that the ccrz.ccApiProduct.fetch method returned during ccrz.ccLogicPICreate.fetchProducts.

### ccrz.ccApiProductIndex.PRODUCT PRICING DATA

Map<String, Map<String, Map<String, Object>>> of pricing data for the price list items, where:

- The outer map is keyed by product ID
- The second-level map is keyed by currency ISO code
- The inner map describes the indexed price and its corresponding price list

### **Logic Performed**

For each product in ccrz.ccApiProduct.PRODUCTLIST, this method completes the following actions:

- 1. Finds the corresponding product ID in ccrz.ccApiProductIndex.PRODUCT PRICING DATA.
- 2. Evaluates whether the product has any related ccrz\_E\_ProductCategory\_c assignments, and creates a product index record each category assignment. These product index records provide results on the Product List page when a buyer selects a specific category.
- 3. Creates a product index record for the product's result on the Product List page when a buyer searches the storefront by keyword.
- **4.** Adds the created product index records to ccrz.ccApiProductIndex.PRODUCT INDICES.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz E ProductIndex c> of updated product index records, ready to upsert.

#### SEE ALSO:

```
ccrz__E_ProductCategory__c
ccrz__E_ProductIndex__c
Salesforce Help Product List Page
```

# ccrz.ccLogicPICreate.upsertProductIndices

Executes the DML upsert operation for the created product index records, which assigns IDs to each record. This operation updates existing product index records with new price and price list information, and inserts new records that this logic provider chain created.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> upsertProductIndices(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPICreate.buildIndex method completes.

This method requires the following key in the working map:

```
ccrz.ccApiProductIndex.PRODUCT INDICES
```

```
List<ccrz E ProductIndex c> of product index records to upsert.
```

### **Outputs**

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiProductIndex.IDS

Set<String> of the upserted product index records.

SEE ALSO:

```
ccrz__E_ProductIndex__c
Upserting Records
```

# ccrz.ccLogicPlCreate.refetch

Calls the ccrz.ccApiProductIndex.fetch method for fetching the created product index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> refetch(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPICreate.upsertProductIndices method completes.

This method requires the following keys in the working map:

Set<String> of the upserted product index records.

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProductIndex.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ REFETCH => true
    }
}
```

ccrz.ccApiProductIndex.IDS

Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

# Outputs

This method returns the working Map<String, Object>, which includes the ccrz.ccApiProductIndex.fetch outputs.

```
SEE ALSO:
```

```
ccrz__E_ProductIndex__c
ccrz.ccApiProductIndex.fetch
```

# ccrz.ccLogicPlCreate.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

 $This \, method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, \text{after the } \texttt{ccrz.ccLogicPICreate.refetch} \, \text{method completes}.$ 

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiProduct.PRODUCTLIST
- ccrz.ccApiProductIndex.CURRENCIES
- ccrz.ccApiProductIndex.LOCALE
- ccrz.ccApiProductIndex.LOCALES
- ccrz.ccApiProductIndex.PRICE LIST ITEMS
- ccrz.ccApiProductIndex.PRICE LIST ITEM IDS
- ccrz.ccApiProductIndex.PRODUCT\_PRICING\_DATA
- ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicPlFetchEntitled

Define the business logic for returning a buyer's entitled product IDs that correspond to product index records queried from a search string or specified categories.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiProductIndex.fetchEntitled

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### fetchSpecFilters

Evaluate any specs and spec values included in the input map for an extra layer of filtering entitled products. This method invokes the ccrz.ccApiSpec.fetchProductSpecIndices method to query product spec index records and return a map of specs and entitled products that have values for those specs.

### fetchEntitledPriceLists

Call the ccrz.ccApiPriceList.fetchEntitled method for returning the buyer's entitled price lists, which filter the product index query for only those records that reference those price lists.

### performIndexSearch

Call the ccrz.ccApiProductIndex.search method for performing a SOSL search of product index records that match a search string specified in the working map.

## performIndexFetch

Call the ccrz.ccApiProductIndex.fetch method for performing a SOQL query of product index records that match category IDs specified in the working map.

### processProductIndices

Determine how many entitled product index records exist that match the product index query. Evaluate whether subsequent calls are necessary for returning the full set of results, and identify the last product index record in the current set of results.

### rankSearchResultsAndProcess

Rank the products that correspond to product index records returned from a search string query. This method determines how search results sort on the Product List page when a buyer sorts by relevance. This method determines relevance by evaluating the product's name, short description, and SKU for occurrences of the search string.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicPlFetchEntitled.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProductIndex.fetchEntitled method.

## Logic Performed

This method invokes other methods of the ccrz.cclogicPIFetchEntitled class in the following order:

- 1. processInput
- 2. fetchSpecFilters
- 3. fetchEntitledPriceLists
- 4. performIndexSearch Or performIndexFetch
- 5. processProductIndices, Which can call into rankSearchResultsAndProcess
- 6. prepReturn

## Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicPIFetchEntitled.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

### ccrz.ccApiProductIndex.CATEGORY IDS

Set<String> of specific category IDs passed to the ccrz.ccApiProductIndex.fetch method, which executes a SOQL query of product index records that reference the specified category IDs.

### ccrz.ccService.SEARCHSTRING

String passed to the ccrz.ccApiProductIndex.search method for executing a SOSL query of product index records.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

## ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicPIFetchEntitled.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicPIFetchEntitled.fetchSpecFilters

Evaluate any specs and spec values included in the input map for an extra layer of filtering entitled products. This method invokes the ccrz.ccApiSpec.fetchProductSpecIndices method to query product spec index records and return a map of specs and entitled products that have values for those specs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> fetchSpecFilters(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.processInput method.

This method requires the following key in the working map:

### ccrz.ccApiProductIndex.PRODUCT SPEC FILTERS

List<Map<String, Object>> or List<Object> of specs and spec values to pass to the ccrz.ccApiSpec.PRODUCT\_SPEC\_INDICES key for the ccrz.ccApiSpec.fetchProductSpecIndices method. Include each spec's ID and the values that you want to filter by, such as:

```
[ {
    "specValues" : [ {
        "value" : "Blue"
    } ],
    "sfid" : "alh6A00000045s5QAA"
} ]
```

Note: If you specify multiple values for the same spec, the method applies an OR condition for evaluating all values.

For a spec where Filter Type is Slider, you can specify a filterMin and filterMax range for filtering:

```
[ {
    "sfid" : "a1h6A00000045s5QAA",
    "filterMin" : "1.0",
    "filterMax" : "10.0"
} ]
```



**Note**: This method checks the value of the Spec Value Query Limit setting of the Product List storefront configuration module. By default, the method queries at most 20,000 spec values. You can override this default value with a custom limit. The complexity of your product data can also affect the scope of the query, regardless of a limit that you specify.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiProductIndex.PRODUCT FILTERS

Map<String, List<String>> that relates each matching spec ID with a list of entitled product IDs that have spec values for that spec.

SEE ALSO:

ccrz.ccApiSpec.fetchProductSpecIndices

# ccrz.ccLogicPIFetchEntitled.fetchEntitledPriceLists

Call the ccrz.ccApiPriceList.fetchEntitled method for returning the buyer's entitled price lists, which filter the product index query for only those records that reference those price lists.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchEntitledPriceLists(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.fetchSpecFilters method.

This method executes only if the working map doesn't already specify the following key:

### ccrz.ccApiProductIndex.PRICE\_LISTS

Set<String> of price list IDs, which filters the product index query for only those records that reference the specified price lists. If you exclude this key from the input map, the method invokes the ccrz.ccApiPriceList.fetchEntitled method and filters the query by all the user's entitled price lists.

### Outputs

This method returns the working Map<String, Object>, and adds the following intermediate key:

#### ccrz.ccApiProductIndex.PRICE LISTS

Set<String> of price list IDs that the buyer is entitled to.

The ccrz.ccLogicPIFetchEntitled.prepReturn method removes this intermediate key from the working map.

SEE ALSO:

ccrz.ccApiPriceList.fetchEntitled

# ccrz.ccLogicPIFetchEntitled.performIndexSearch

Call the ccrz.ccApiProductIndex.search method for performing a SOSL search of product index records that match a search string specified in the working map.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> performIndexSearch(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.fetchEntitledPriceLists method.

This method executes only if the working map includes both of the following keys:

### ccrz.ccService.SEARCHSTRING

String passed to the ccrz.ccApiProductIndex.search method for executing a SOSL query of product index records.

### ccrz.ccApiProductIndex.PRICE\_LISTS

Set<String> of price list IDs, which filters the product index query for only those records that reference the specified price lists. If you exclude this key from the input map, the method invokes the ccrz.ccApiPriceList.fetchEntitled method and filters the query by all the user's entitled price lists.



Note: If the working map includes ccrz.ccApiProductIndex.CATEGORY IDS instead of ccrz.ccService.SEARCHSTRING, this method is skipped and execution continues to the ccrz.ccLogicPIFetchEntitled.performIndexFetch method.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz E ProductIndex c> of entitled product index records that match the search string.

SEE ALSO:

ccrz.ccApiProductIndex.search

# ccrz.ccLogicPlFetchEntitled.performIndexFetch

Call the ccrz.ccApiProductIndex.fetch method for performing a SOQL query of product index records that match category IDs specified in the working map.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> performIndexFetch(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.performIndexSearch method.

This method executes only if the working map includes both of the following keys:

### ccrz.ccApiProductIndex.CATEGORY IDS

Set<String> of specific category IDs passed to the ccrz.ccApiProductIndex.fetch method, which executes a SOQL query of product index records that reference the specified category IDs.

#### ccrz.ccApiProductIndex.PRICE LISTS

Set<String> of price list IDs, which filters the product index query for only those records that reference the specified price lists. If you exclude this key from the input map, the method invokes the ccrz.ccApiPriceList.fetchEntitled method and filters the query by all the user's entitled price lists.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz E ProductIndex c> of entitled product index records that match the specified category IDs.

SEE ALSO:

ccrz.ccApiProductIndex.fetch

# ccrz.ccLogicPIFetchEntitled.processProductIndices

Determine how many entitled product index records exist that match the product index query. Evaluate whether subsequent calls are necessary for returning the full set of results, and identify the last product index record in the current set of results.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> processProductIndices(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.performIndexSearch Or ccrz.ccLogicPIFetchEntitled.performIndexFetch method.

This method requires the following key in the working map:

#### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz\_E\_ProductIndex\_c> of entitled product index records that match either a search string or specified category IDs.

# Inputs (Optional)

This method also evaluates the following optional keys, which are included in the working map if specified in the ccrz.ccApiProductIndex.fetchEntitled method's input map.

### ccrz.ccApiProductIndex.INCLUDE COUNT

Boolean

Value	Usage
true	Include the ccrz.ccApiProductIndex.COUNT key in the return data, which indicates the total number of product index records that match the query.
false (default)	Don't include the ccrz.ccApiProductIndex.COUNT key in the return data.

### ccrz.ccApiProductIndex.INDEX LIMIT

Integer that specifies a maximum number of product index records to query, which affects how many product IDs are returned.

### ccrz.ccApiProductIndex.PRODUCT\_IDS\_ONLY

Boolean

Value	Usage
true	Return only ccrz.ccApiProductIndex.PRODUCT_IDS, and skip calculating ccrz.ccApiProductIndex.CURRENT_INDEX.
false (default)	Calculate ccrz.ccApiProductIndex.CURRENT_INDEX for the return data.

### ccrz.ccService.ORDERBY

String that specifies a key, which indicates how you want to sort product index records. For example:

ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY\_NAME

Value	Usage	
ccrz.ccApiProductIndex.BY_NAME	Sort by the localized name of the product that the product index record references.	
ccrz.ccApiProductIndex.BY_PRICE	Sort by the Index Price field on the product index record.	
ccrz.cc4piProductIndex.BY_RELEVANCE	Sort by occurrences of the search string in the product's name, short description, and SKU.  Note:	
	<ul> <li>Relevance sorting is available only for product index records that match a search string.</li> <li>When this key is specified, this method calls into the ccrz.cclogicPIFetchEntitled.rankSearchResultsAndProcess method for executing the relevance sorting.</li> </ul>	

Value	Usage	
ccrz.ccApiProductIndex.BY_SEQUENCE	Sort by the Sequence field on the product category record that the product index record references.	
	Note:	
	<ul> <li>Sequence sorting is available only for product index records that match specified category IDs.</li> </ul>	
	<ul> <li>B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Sequence value. The product index record includes a Product Category Sequence field, whose value is copied from the corresponding product category record's Sequence field.</li> </ul>	
ccrz.cc4piProductIndex.BY_START_DATE	Sort by the value of the Start Date field on the product that the product index record references.	
	Note: B2B Commerce for Visualforce Summer '19 (managed package version 4.11, API version 10) or later flattens the data model required for referencing this Start Date value. The product index record includes a Product Start Date field, whose value is copied from the corresponding product record's Start Date field.	

# Outputs

This method returns the working Map<String, Object>, and adds the following keys:

### ccrz.ccApiProductIndex.CURRENT INDEX

Map<String, Object> that specifies the last product index record within the current set of sorted results. You can pass this map to subsequent ccrz.ccApiProductIndex.fetch, ccrz.ccApiProductIndex.search, or ccrz.ccApiProductIndex.fetchEntitled method calls for querying the next set of results. This map specifies the following subkeys:

Key	Usage
primary	The value that the ccrz.ccService.ORDERBY input key used for sorting product index records.
secondary	The ID of the referenced product index record.

### For example:

```
{
   "primary":"sort value, such as index price or product name",
   "secondary":"Product_Index_ID"
}
```

## ccrz.ccApiProductIndex.HAS\_MORE

Boolean

Value	Usage
true	The method returned more results than the limit that the ccrz.ccApiProductIndex.INDEX_LIMIT input key specified.
false	The method returned fewer results than the limit that the ccrz.ccApiProductIndex.INDEX_LIMIT input key specified.

#### ccrz.ccApiProductIndex.PRODUCT CATEGORY SEQUENCE

Map<String, Decimal> that relates each entitled product ID to its corresponding product category sequence value. This key is returned only when the input data includes:

ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY\_SEQUENCE

#### ccrz.ccApiProductIndex.PRODUCT IDS

List<String> of entitled product IDs from the queried product index records. The number of product IDs included in this list depends on whether the input data specified a ccrz.ccApiProductIndex.INDEX LIMIT value.

SEE ALSO:

Salesforce Help Factors That Affect Sorting by Price on the Product List Page

# ccrz.ccLogicPIFetchEntitled.rankSearchResultsAndProcess

Rank the products that correspond to product index records returned from a search string query. This method determines how search results sort on the Product List page when a buyer sorts by relevance. This method determines relevance by evaluating the product's name, short description, and SKU for occurrences of the search string.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> rankSearchResultsAndProcess(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.processProductIndices method.

This method executes only if the working map includes the following keys:

#### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz\_E\_ProductIndex\_\_c> of entitled product index records that match a search string. The ccrz.ccLogicPIFetchEntitled.performIndexSearch method returns this key.

#### ccrz.ccService.ORDERBY

String that specifies that search results sort by relevance:

```
ccrz.ccService.ORDERBY => ccrz.ccApiProductIndex.BY_RELEVANCE
```

If this key specifies a different sorting method, the method doesn't execute.

#### ccrz.ccService.SEARCHSTRING

String passed to the ccrz.ccApiProductIndex.search method for executing a SOSL query of product index records.

### Inputs (Optional)

This method also evaluates the following optional keys, which are included in the working map if specified in the ccrz.ccApiProductIndex.fetchEntitled method's input map.

### ccrz.ccApiProductIndex.INCLUDE COUNT

Boolean

Value	Usage
true	Include the ccrz.ccApiProductIndex.COUNT key in the return data, which indicates the total number of product index records that match the query.
false (default)	Don't include the ccrz.ccApiProductIndex.COUNT key in the return data.

#### ccrz.ccApiProductIndex.INDEX LIMIT

Integer that specifies a maximum number of product index records to query, which affects how many product IDs are returned.

### Outputs

This method returns the working Map<String, Object>, and adds the following keys:

### ccrz.ccApiProductIndex.CURRENT INDEX

Map<String, Object> that specifies the last product index record within the current set of sorted results. You can pass this map to subsequent method calls for querying the next set of results. This map specifies the following subkeys:

Key	Usage
primary	The rank determined for the product index record.
secondary	The ID of the referenced product index record.

For example:

```
"primary":"250",
    "secondary":"an18digitProductID"
}
```

### ccrz.ccApiProductIndex.HAS MORE

Boolean

Value	Usage
true	The method returned more results than the limit that the ccrz.ccApiProductIndex.INDEX_LIMIT input key specified.
false	The method returned fewer results than the limit that the ccrz.ccApiProductIndex.INDEX_LIMIT input key specified.

#### ccrz.ccApiProductIndex.PRODUCT IDS

List<String> of entitled product IDs from the queried product index records. The number of product IDs included in this list depends on whether the input data specified a ccrz.ccApiProductIndex.INDEX\_LIMIT value.

### ccrz.ccApiProductIndex.PRODUCT SEARCH RANKINGS

Map<String, Integer> that relates each entitled product ID to its determined relevance rank. For example:

```
"an18digitProductID" : 100,
"an18digitProductID" : 200,
"an18digitProductID" : 250,
"an18digitProductID" : 50
}
```

# ccrz.cc Logic PIF etch Entitle d.prep Return

Overrides the base ccrz.cclogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIFetchEntitled.processProductIndices method.

## Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>.

- ccrz.ccApiProductIndex.PRICE LISTS
- ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicPlRemove

Define the business logic for deleting product index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiProductIndex.remove

# Methods

IN THIS SECTION:

### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### fetchProductIndices

Calls the ccrz.ccApiProductIndex.fetch method for returning the product index records that you want to delete.

#### deleteProductIndices

Executes the DML delete operation for the product index records.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

#### SEE ALSO:

Salesforce Help Maintain Product Index Records

# ccrz.ccLogicPIRemove.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProductIndex.remove method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicPIRemove class in the following order:

- processInput
- 2. fetchProductIndices
- 3. deleteProductIndices

### 4. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicPlRemove.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> processInput(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPIRemove.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### ccrz.ccApiProductIndex.IDS

Set<String> of Salesforce IDs of product index records to delete.

```
new Set<String>{'Product Index ID 1', 'Product Index ID 2'}
```

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicPIRemove.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicPIRemove.fetchProductIndices

Calls the ccrz.ccApiProductIndex.fetch method for returning the product index records that you want to delete.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchProductIndices(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPIRemove.processInput method completes.

This method requires the following key in the working map:

### ccrz.ccApiProductIndex.IDS

Set<String> of Salesforce IDs of the product index records to delete.

# Logic Performed

This method passes ccrz.ccApiProductIndex.IDS to ccrz.ccApiProductIndex.fetch. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiProductIndex.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_S,
        ccrz.ccApi.SZ_ASSC => false
        ccrz.ccApi.SZ_SKIPTRZ => true
    }
}
```

### **Outputs**

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiProductIndex.PRODUCT INDICES

List<ccrz\_E\_ProductIndex\_c> of the product index records to delete. The ccrz.ccApiProductIndex.fetch method returned this list.

SEE ALSO:

ccrz.ccApiProductIndex.fetch

# ccrz.ccLogicPIRemove.deleteProductIndices

Executes the DML delete operation for the product index records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> deleteProductIndices(Map<String, Object>)
```

### Inputs (Required)

 $This method \, accepts \, the \, working \, \texttt{Map}{<} \texttt{String, Object}{>} \, after \, the \, \texttt{ccrz.ccLogicPIRemove.fetchProductIndices} \, method \, completes.$ 

This method requires the following key in the working map:

```
ccrz.ccApiProductIndex.PRODUCT INDICES
```

List<ccrz E ProductIndex c> of the product index records to delete.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

**Deleting Records** 

# ccrz.ccLogicPIRemove.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicPIRemove.deleteProductIndices method completes.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicPLEntLists

Define the business logic for returning an account's entitled price lists.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiPriceList.fetchEntitled

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### createPricingContext

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### fetchPriceGroupPriceListIDs

Returns the IDs of price lists associated with the account's price group, if applicable.

### fetchAccountGroupPriceListIDs

Returns the IDs of price lists associated with the account's account group, if applicable. This method invokes the ccrz.ccServiceDAO.doQuery method for executing the query.

#### performRefetch

Call the ccrz.ccApiPriceList.fetch method for fetching the price lists and price list items that correspond to the price list IDs returned from the previous methods.

# ccrz.ccLogicPLEntLists.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiPriceList.fetchEntitled method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicPLEntLists class in the following order:

- 1. createPricingContext
- 2. fetchPriceGroupPriceListIDs
- 3. fetchAccountGroupPriceListIDs
- 4. performRefetch

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicPLEntLists.createPricingContext

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> createPricingContext(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicPLEntLists.process method.

### Outputs

This method returns the working Map<String, Object>, and sets the following key values if they're not specified in the input data

#### ccrz.ccApiPriceList.ALLWMIX

Boolean

Value	Usage
true	Allow mixed pricing queries when you filter by price group. The method tries to match the specified price group when returning price list records. If a price group match isn't available, the method falls back to the specified account's account group.
false (default)	Don't allow mixed pricing queries when you filter by price group. The method only tries to match the specified price group when returning price list records.

If this key isn't specified in the input data, the method falls back to the value of the ccrz E AccountSettings c.ccrz AllowMixedPricingCarts c field.

#### ccrz.ccApiPriceList.CURRCODE

String that specifies an ISO 4217 currency code, such as *USD* or *JPY*, to filter entitled price lists by. If this key isn't specified in the input data, the method falls back to the value of the ccrz.cc CallContext.userCurrency field.

#### ccrz.ccApiPriceList.EFFACCTID

String that specifies an account ID record to filter entitled price lists by. The method returns only the price list records that are assigned to the specified account's account group. If this key isn't specified in the input data, the method falls back to the value of the ccrz.cc CallContext.currAccountId field.

### ccrz.ccApiPriceList.EFFDATE

Date to filter price lists by. The method returns only the price list records where the date is included in the Start Date and End Date range. If this key isn't specified in the input data, the method falls back to the current date.

#### ccrz.ccApiPriceList.PRGRID

String that specifies a price group ID record to filter price lists by. If this key isn't specified in the input data, the method falls back to the value of the ccrz.cc CallContext.priceGroupId field.

### ccrz.ccApiPriceList.STOREFRONT

String that specifies the name of a storefront for filtering the query.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

SEE ALSO:

```
ccrz_c_CallContext
ccrz__E_AccountSettings__c
ccrz__E_PriceGroup__c
```

# ccrz.ccLogicPLEntLists.fetchPriceGroupPriceListIDs

Returns the IDs of price lists associated with the account's price group, if applicable.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

```
global virtual Map<String, Object> fetchPriceGroupPriceListIDs(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPLEntLists.createPricingContext method.

This method requires the following key in the working map:

### ccrz.ccApiPriceList.PRGRID

String that specifies a price group ID record to filter price lists by.



**Note**: If the working map doesn't include this key, this method is skipped and execution continues to the ccrz.ccLogicPLEntLists.fetchAccountGroupPriceListIDs method.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiPriceList.PLIDS

Map<String, Set<String>> keyed by ccrz.ccApiPriceList.PGPLIDS, which contains the IDs of price lists associated with the account's price group.

SEE ALSO:

ccrz\_\_E\_PriceGroup\_\_c

# ccrz.ccLogicPLEntLists.fetchAccountGroupPriceListIDs

Returns the IDs of price lists associated with the account's account group, if applicable. This method invokes the ccrz.ccServiceDAO.doQuery method for executing the query.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchAccountGroupPriceListIDs(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPLEntLists.fetchPriceGroupPriceListIDs method.

This method executes only if either of the following conditions are true:

- The working map doesn't include the ccrz.ccApiPriceList.PRGRID key.
- The working map includes ccrz.ccApiPriceList.ALLWMIX => true.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiPriceList.PLIDS

Map<String, Set<String>> keyed by ccrz.ccApiPriceList.ACCTGRPPLIDS, which contains the IDs of price lists associated with the account's price group.

SEE ALSO:

ccrz\_\_E\_AccountGroup\_\_c

# ccrz.ccLogicPLEntLists.performRefetch

Call the ccrz.ccApiPriceList.fetch method for fetching the price lists and price list items that correspond to the price list IDs returned from the previous methods.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> performRefetch(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicPLEntLists.fetchAccountGroupPriceListIDs method.

This method requires the following key in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ\_REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```

Mote: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiPriceList.PRICELISTS

Map<String, Map<String, Object>> keyed by the IDs of the entitled price lists.

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, Object>> keyed by the IDs of the price list items that belong to the price lists in ccrz.ccApiPriceList.PRICELISTS.



### Note:

- For more information about the ccrz.ccApiPriceList.PRICELISTS and ccrz.ccApiPriceList.PRICELISTITEMS keys, see the ccrz.ccApiPriceList.fetch method.
- The returned price lists aren't in order. To help you sort the return data, compare the returned price lists with the order of price list IDs returned in parallel in the ccrz.ccApiPriceList.PLIDS.

SEE ALSO:

ccrz.ccApiPriceList.fetch

# ccrz.ccLogicProductFind

Define the business logic for returning and pricing entitled products that match a search string or that belong to a set of specified category IDs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiProduct.find

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### performProductFind

Calls the ccrz.ccApiProductIndex.fetchEntitled method for returning a list of Salesforce IDs of entitled products that match a search string or that belong to a set of specified category IDs.

#### priceProducts

Calls the ccrz.ccApiProduct.fetch method with ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true for querying product records and pricing data for the product IDs that match the category or search string.

#### processProducts

Iterates through the queried products and adds related data, including search rankings, product category assignments, quantity rules, friendly URLs, and more.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicProductFind.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProduct.find method.

### Logic Performed

This method invokes other methods of the ccrz.cclogicProductFind class in the following order:

- 1. processInput
- 2. performProductFind
- 3. priceProducts
- 4. processProducts
- 5. prepReturn

### **Outputs**

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicProductFind.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicProductFind.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiProduct.CATEGORY IDS

Set<String> of specific category IDs whose assigned products you want to return and price.

#### ccrz.ccService.SEARCHSTRING

String to use for searching product records, and whose results you want to return and price.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicProductFind.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogicProductFind.performProductFind

Calls the ccrz.ccApiProductIndex.fetchEntitled method for returning a list of Salesforce IDs of entitled products that match a search string or that belong to a set of specified category IDs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> performProductFind(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFind.processInput method completes.

This method requires one of the following keys in the working map:

### ccrz.ccApiProduct.CATEGORY IDS

Set<String> of specific category IDs whose assigned products you want to return and price.

#### ccrz.ccService.SEARCHSTRING

String to use for searching product records, and whose results you want to return and price.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiProduct.CURRENT INDEX

Map<String, Object> that specifies the product index information for the product to use as a starting point.

```
Map<String, Object> findProductsStartingFrom = new Map<String, Object> {
   primary => 'String of product's sfdcName',
   secondary => CC Product Index record ID
}
```

#### ccrz.ccApiProduct.INCLUDE COUNT

Boolean

Value	Usage
true	Return the total count of products, keyed under ccrz.ccApiProduct.COUNT.
false (default)	Don't return product count.

#### ccrz.ccApiProduct.PRODUCT FILTERS

List<Map<String, Object>>, where each Map<String, Object> specifies spec values to filter products by.

### ccrz.ccApiProduct.PRODUCT LIMIT

Integer that specifies the maximum number of product IDs to return.

Note: If you specify a lower limit than the actual number of results, the return data includes the index information for the next indexed product. For example, if you specify a limit of five, the return data includes the index information for the sixth product that matches the find criteria.

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The method returns internationalized product values in the ccrz.ccApiProduct.PRODUCTLIST return key. The service layer translates the values from ccrz E ProductItemI18N c records and handles fallback languages, if necessary.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

#### ccrz.ccApiProduct.PRODUCTSTOREFRONT

String that specifies the name of a storefront for filtering the guery.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

#### ccrz.ccService.ORDERBY

String that specifies the field to order results by. Possible values include:

- ccrz.ccApiProductIndex.BY NAME
- ccrz.ccApiProductIndex.BY PRICE
- ccrz.ccApiProductIndex.BY START DATE
- ccrz.ccApiProductIndex.BY RELEVANCE
- ccrz.ccApiProductIndex.BY SEQUENCE (default)

#### ccrz.ccService.SORTDESC

Boolean

Value	Usage
true	Sort returned products by the field that the ccrz.ccService.ORDERBY key specifies, in descending order.
false (default)	Sort returned products in ascending order.

# Logic Performed

This method passes the input keys to ccrz.ccApiProductIndex.fetchEntitled, and parses that method's output.

### Outputs

This method returns the working Map<String, Object>,including the ccrz.ccApiProductIndex.fetchEntitled outputs.

SEE ALSO:

ccrz.ccApiProductIndex.fetchEntitled

# ccrz.ccLogicProductFind.priceProducts

Calls the ccrz.ccApiProduct.fetch method with ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true for querying product records and pricing data for the product IDs that match the category or search string.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> priceProducts(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFind.performProductFind method completes.

This method requires the following key in the working map:

### ccrz.ccApiProductIndex.PRODUCT IDS

List<String> of entitled product IDs that the ccrz.ccApiProductIndex.fetchEntitled method returned during the ccrz.ccLogicProductFind.performProductFind method's execution.

# Logic Performed

This method completes the following actions:

- 1. Passes ccrz.ccApiProductIndex.PRODUCT\_IDS for the ccrz.ccApiProduct.PRODUCTLIST input for ccrz.ccApiProduct.fetch.
- 2. Specifies the ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING => true key in the input map for ccrz.ccApiProduct.fetch.
- 3. Checks the values of the Show List Price (pl.dspllistprc) and Show Savings (pl.dsplsvprc) configurations in the Product List storefront configuration module. When these configurations are TRUE, the method sets ccrz.ccApiProduct.INCLUDEBASE => true in the input data.

### Outputs

This method returns the working Map<String, Object>, including the ccrz.ccApiProduct.fetch outputs.

SEE ALSO:

ccrz.ccApiProduct.fetch

ccrz.ccLogicProductPricing

Salesforce Help Configure Product Tile Details and Options on the Product List Page

# ccrz.ccLogicProductFind.processProducts

Iterates through the queried products and adds related data, including search rankings, product category assignments, quantity rules, friendly URLs, and more.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processProducts(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFind.performProductFind method completes.

This method requires the following key in the working map:

## ccrz.ccApiProduct.PRODUCTLIST

List<Object> of ccrz\_E\_Product\_c records that the ccrz.ccApiProduct.fetch method returned during the ccrz.ccLogicProductFind.priceProducts method's execution.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiProductIndex.PRODUCT CATEGORY SEQUENCE

Map<String, Decimal> that relates each entitled product ID to its corresponding product category sequence value.

Note: The ccrz.ccApiProductIndex.fetchEntitled method returns this key during the ccrz.ccLogicProductFind.performProductFind method's execution.

#### ccrz.ccApiProductIndex.PRODUCT SEARCH RANKINGS

Map<String, Integer> that relates each entitled product ID to its determined relevance rank. For example:

```
"an18digitProductID" : 100,
"an18digitProductID" : 200,
"an18digitProductID" : 250,
"an18digitProductID" : 50
```

Note: The ccrz.ccApiProductIndex.fetchEntitled method returns this key during the ccrz.ccLogicProductFind.performProductFind method's execution.

### Logic Performed

For each product in ccrz.ccApiProduct.PRODUCTLIST, this method completes the following actions:

- 1. Checks for the product's ID in ccrz.ccApiProductIndex.PRODUCT\_SEARCH\_RANKINGS, and adds the search ranking to the product. Otherwise, this method finds the product's ID in ccrz.ccApiProductIndex.PRODUCT CATEGORY SEQUENCE, and adds the category sequence to the product.
- **2.** Evaluates the product's ccrz\_\_ProductStatus\_\_c field. If the status is Released, this method sets a Boolean, canAddToCart, that indicates that the product can be added to the cart.
  - Note: For more information about product status, see https://help.salesforce.com/articleView?id=b2b commerce product create.htm.
- 3. Invokes the ccrz.cc\_api\_ProductQuantityRule extension point class for evaluating whether any applicable quantity rules exist for the product.
- 4. Calls the ccrz.ccApiProduct.getUrlFor method for returning the product's friendly URL.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiProduct.PRODUCTLIST

List<Object> of ccrz\_\_E\_Product\_\_c records passed into this method and updated with the results of this method's evaluations.

#### SEE ALSO:

ccrz.ccApiProduct.fetch ccrz.ccApiProduct.getUrlFor ccrz.ccApiProductIndex.fetchEntitled ccrz.cc\_api\_ProductQuantityRule

# ccrz.ccLogicProductFind.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFind.processProducts method.

## Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicProductFindFilters

Define the business logic for returning filters and spec values for entitled products that match a search string or that belong to a set of specified category IDs.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Global API Caller

ccrz.ccApiProduct.findFilters

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### fetchEntitledProducts

Calls the ccrz.ccApiProductIndex.fetchEntitled method for returning a list of Salesforce IDs of entitled products that match a search string or that belong to a set of specified category IDs.

#### fetchFilters

Calls the ccrz.ccApiSpec.fetchProductSpecIndices method for returning  $ccrz\_E\_ProductSpecIndex\_c$  records that correspond to the entitled products.

#### processFilterData

Aggregates ccrz E ProductSpecIndex c filter data, keyed by spec.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicProductFindFilters.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProduct.findFilters method

## Logic Performed

This method invokes other methods of the ccrz.ccLogicProductFindFilters class in the following order:

- 1. processInput
- 2. fetchEntitledProducts
- 3. fetchFilters
- 4. processFilterData
- 5. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicProductFindFilters.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicProductFindFilters.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

#### ccrz.ccApiProduct.CATEGORY IDS

Set<String> of specific category IDs whose assigned products you want to return product filters for.

#### ccrz.ccService.SEARCHSTRING

String to use for searching product index records for returning product filters.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicProductFindFilters.prepReturn method removes this intermediate key from the working map.

# ccrz.ccLogic Product Find Filters. fetch Entitle d Products

Calls the ccrz.ccApiProductIndex.fetchEntitled method for returning a list of Salesforce IDs of entitled products that match a search string or that belong to a set of specified category IDs.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> fetchEntitledProducts(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFindFilters.processInput method completes.

This method requires one of the following keys in the working map:

### ccrz.ccApiProduct.CATEGORY IDS

Set<String> of specific category IDs whose assigned products you want to return product filters for.

#### ccrz.ccService.SEARCHSTRING

String to use for searching product index records for returning product filters.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiProduct.PRODUCT FILTERS

List<Map<String, Object>>, where each Map<String, Object> specifies a spec ID and product spec value to filter products by:

```
[ {
    "specValues" : [ {
        "value" : "Blue"
    } ],
    "sfid" : "alh6A00000045s5QAA"
} ]
```

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### ccrz.ccApiProduct.PRODUCTSTOREFRONT

String that specifies the name of a storefront for filtering the query.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

# Logic Performed

This method passes the input keys to ccrz.ccApiProductIndex.fetchEntitled, and parses that method's output.

### Outputs

This method returns the working Map<String, Object>, including the following ccrz.ccApiProductIndex.fetchEntitled output:

#### ccrz.ccApiProductIndex.PRODUCT IDS

List<String> of entitled product IDs that the ccrz.ccApiProductIndex.fetchEntitled method returned.

SEE ALSO:

ccrz.ccApiProductIndex.fetchEntitled

# ccrz.ccLogicProductFindFilters.fetchFilters

Calls the ccrz.ccApiSpec.fetchProductSpecIndices method for returning ccrz\_E\_ProductSpecIndex\_c records that correspond to the entitled products.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> fetchFilters(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFindFilters.fetchEntitledProducts method completes.

This method requires the following key in the working map:

### ccrz.ccApiProductIndex.PRODUCT\_IDS

List<String> of entitled product IDs that the ccrz.ccApiProductIndex.fetchEntitled method returned during the ccrz.ccLogicProductFindFilters.fetchEntitledProducts method's execution.

## Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### Logic Performed

This method passes the input keys to ccrz.ccApiSpec.fetchProductSpecIndices, and parses that method's output.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiProduct.PRODUCT FILTERS

List<Map<String, Object>> that corresponds to the ccrz.ccApiSpec.PRODUCT\_SPEC\_INDICES output from ccrz.ccApiSpec.fetchProductSpecIndices, where each Map<String, Object> specifies a spec ID and product spec value:

SEE ALSO:

```
ccrz__E_ProductSpecIndex__c
ccrz.ccApiSpec.fetchProductSpecIndices
```

# ccrz.ccLogicProductFindFilters.processFilterData

Aggregates ccrz E ProductSpecIndex c filter data, keyed by spec.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> processFilterData(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFindFilters.fetchFilters method completes.

This method requires the following key in the working map:

### ccrz.ccApiProduct.PRODUCT FILTERS

List<Map<String, Object>>, where each Map<String, Object> specifies a spec ID and product spec value:

# Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiProduct.PRODUCT FILTERS

Map<String, Map<String, Object>> of aggregated product filters, keyed by spec value. When serialized to JSON, this map of filters uses the following format:

```
],
    "filterType": "Checkbox",
    "sequence": 200,
    "sfid": "alh6A000001ERMvQAO",
        "name": "SpecAO"
}
```

# ccrz.ccLogicProductFindFilters.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductFindFilters.processFilterData method.

# Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicProductPricing

Define the business logic for pricing products.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Global API Caller

ccrz.ccApiProduct.fetch when the input data specifies ccrz.ccApiProduct.PARAM\_INCLUDE\_PRICING =>
true.

# Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.cclogic.process method, and invokes the other methods for this class.

### processInputData

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### processProductList

Determines the complete list of entitled products for the pricing evaluation, including component products that belong to composite products such as bundles and dynamic kits.

### fetchPriceListsAndItems

Calls the ccrz.ccApiPriceList.fetchEntitled and ccrz.ccApiPriceList.fetchPriceListItems methods for returning the entitled price list items for the set of product IDs. This method doesn't query price list items for the storefront's base price list, or query tiered pricing or attribute pricing JSON data. Later methods in the logic chain execute those queries.

# processPriceListItems

Organizes price list items data by sellers, subscriptions, and entitlement.

#### fetchBasePriceListsAndItems

Calls the ccrz.ccApiPriceList.fetch method for returning the storefront's base price list and price list items. This query is separate from the ccrz.ccLogicProductPricing.fetchPriceListsAndItems method because a buyer's entitled price list can be the same price list as the base price list. This logic chain maintains separate data sets for entitled and base price list data.

#### evaluatePricing

Loops through each product and calls an appropriate inner method for pricing the product based on its product type.

#### evaluateBasicPricing

Evaluates criteria for pricing a standard product, including entitled price lists, base price lists, seller data, and subscription data. This method also calculates a buyer's savings from an entitled price list compared to a base price list.

### evaluateBundlePricing

Evaluates criteria for pricing a bundle product, including entitled price lists, base price lists, and subscription data. A bundle product doesn't support sellers. This method also calculates a buyer's savings from an entitled price list compared to a base price list.

#### evaluateKitPricing

Evaluates criteria for pricing a kit product, including entitled price lists, base price lists, and subscription data. A kit product doesn't support sellers.

### evaluateDynamicKitPricing

Evaluates criteria for pricing a dynamic kit product, including entitled price lists, base price lists, and subscription data. A dynamic kit product doesn't support sellers.

### evaluateAggregatePricing

Evaluates criteria for pricing an aggregated product, including entitled price lists and base price lists. An aggregated product doesn't support sellers or subscriptions.

### evaluateAssemblyPricing

Evaluates criteria for pricing an assembly product, including entitled price lists and base price lists. An assembly product doesn't support sellers or subscriptions.

### evaluateCustomProductPricing

Provides an extension point for evaluating criteria for pricing a product type other than the default types.

#### evaluateSellersPricing

Evaluates criteria for pricing a standard product associated with a seller.

### evaluateSubProdTermPricing

Evaluates criteria for pricing a standard product, bundle, or dynamic kit associated with a subscription.

#### evaluateKitProductSubscriptions

Evaluates criteria for pricing a kit associated with a subscription.

### determinePrice

Sets a price for any product when called from another evaluation method. This method is the primary logic for applying a price from an entitled price list, base price list, seller, or subscription. This method also evaluates any price list items associated with a contract pricing's price group, which take priority over an entitled price list.

### processSelectedPLIs

Queries attributes or tiers pricing data for the price list items whose prices the ccrz.ccLogicProductPricing.determinePrice method applied.

### processPricingTiersForPLI

Evaluates product pricing data for an individual price list item and calculates the unit price.

### processAttributes

Queries attributes data processed by the ccrz.ccLogicProductPricing.processSelectedPLIs method.

### prepReturnData

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicProductPricing.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> process(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProduct.fetch method.

# Logic Performed

This method invokes other methods of the ccrz.ccLogicProductPricing class in the following order:

- 1. processInputData
- 2. processProductList
- 3. fetchPriceListsAndItems
- 4. processPriceListItems
- 5. fetchBasePriceListsAndItems
- **6.** evaluatePricing, which calls the appropriate inner method for pricing the product based on its product type:
  - evaluateBasicPricing, which calls into one of the following inner methods:
    - evaluateSellersPricing, which calls into determinePrice
    - evaluateSubProdTermPricing, which calls into determinePrice
    - determinePrice, which can call into processPricingTiersPLI
  - evaluateBundlePricing, which calls into one of the following inner methods:
    - determinePrice
    - evaluateSubProdTermPricing, which calls into determinePrice
  - evaluateKitPricing, which calls into one of the following inner methods:
    - determinePrice
    - evaluateKitProductSubscriptions, which calls into determinePrice
  - evaluateDynamicKitPricing, which calls into one of the following inner methods:

- determinePrice
- evaluateSubProdTermPricing, which calls into determinePrice
- evaluateAggregatePricing, which calls into determinePrice
- evaluateAssemblyPricing, which calls into determinePrice
- evaluateCustomProductPricing
- 7. processSelectedPLIs, which can call into processPricingTiersPLI
- 8. processAttributes
- 9. prepReturnData

# Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogic Product Pricing. process Input Data

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processInputData(Map<String, Object>)

# Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicProductPricing.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz E Product c that the ccrz.ccServiceProduct data service provider returned for the ccrz.ccApiProduct.fetch call.

# Logic Performed

This method evaluates the input data and sets required key values. This method applies fallback values for any values that the input data doesn't specify.

# **Outputs**

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

### ccrz.ccApiProduct.COMPPARENTTYPES

Set<String> that's initially empty. Later methods in the logic chain evaluate this key.

### ccrz.ccApiProduct.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY, for filtering price list items. By default, this method sets the value from ccrz.cc CallContext.userCurrency unless the input data explicitly specifies a different value.

### ccrz.ccApiProduct.EFFDATE

Date for filtering by price list item Start Date and End Date values. If the input data doesn't specify a date, this method falls back to System.now().

### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
cerz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.



Note: If the input data doesn't specify this value, this method falls back to ccrz.cc CallContext.entAccountGroup.PriceListSelectionMethod c.

### ccrz.ccApiProduct.INCLUDE ATTRIBUTE PRICING

Boolean

Value	Usage
true	Query for ccrz_E_Attributec records that are related to each product, and return the attribute pricing JSON applied to the product's entitled price list item.
false (default)	Don't return any attribute pricing.



Note: When this value is false but ccrz.ccApiProduct.INCLUDE\_TIER\_PRICING is true, the logic chain queries tiered pricing JSON data.

# ccrz.ccApiProduct.INCLUDE\_TIER\_PRICING

Boolean

Value	Usage
true	Query tiered pricing JSON. For more information about tiered pricing, see https://help.salesforce.com/articleView?id=sf.b2b_commerce_tiered_pricing.htm.
false (default)	Don't return any tiered pricing.



Note: When this value is false but ccrz.ccApiProduct.INCLUDE ATTRIBUTE PRICING is true, the logic chain queries attribute pricing JSON data.

### ccrz.ccApiProduct.INCLUDEBASE

Boolean

Value	Usage
true (default)	Evaluate the base price list. By default, this method returns true unless the input data explicitly sets false for this key.
false	Ignore the base price list.

# ccrz.ccApiProduct.PARAM\_INCLUDE\_SELLERS

Boolean

Value	Usage
true (default)	Evaluate seller price lists. By default, this method returns true unless the input data explicitly sets false for this key.
false	Skip seller price lists.

### ccrz.ccApiProduct.PARSE ATTRIBUTE PRICING

Boolean

Value	Usage
true (default)	Parse the attribute pricing JSON. By default, this method returns true unless the input data explicitly sets false for this key.
false	Skip attribute pricing.

# ccrz.ccApiProduct.PRODUCTIDQTYMAP

Map<String, Object> that maps product IDs to their quantities to price.

### ccrz.ccApiProduct.SELLERS

Set<String> of Salesforce IDs ccrz E Seller c records for filtering price list items.

### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> that maps subscription terms to their product IDs.

### ccrz.ccApiSubProdTerm.SUBPRODTERMS

Set<String> of Salesforce IDs for subscription terms

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

#### 'prodPLIsToFullyQuery'

Set<String> that's initially empty. Later methods in the logic chain evaluate this key.

#### 'selectedPLIs'

Set<String> that's initially empty. Later methods in the logic chain evaluate this key.

# ccrz.ccLogicProductPricing.processProductList

Determines the complete list of entitled products for the pricing evaluation, including component products that belong to composite products such as bundles and dynamic kits.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> processProductList(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.processInputData method completes.

This method requires the following keys in the working map:

### ccrz.ccApiProduct.PRODUCTLIST

List<ccrz\_E\_Product\_\_c> that the ccrz.ccServiceProduct data service provider returned for the original ccrz.ccApiProduct.fetch call.

### 'prodPLIsToFullyQuery'

Set<String> that's initially empty.

# Logic Performed

This method completes the following actions:

- 1. Evaluates ccrz.ccApiProduct.PRODUCTLIST and add each product ID to a set of IDs, which later methods use for querying price list items.
- 2. For each composite product included in the compositeProductsS field of ccrz.ccApiProduct.PRODUCTLIST, this method adds the ID of each component product to the set of IDs.
- **3.** When a composite product is a kit, this method adds its composite product ID to 'prodPLIsToFullyQuery', which later methods use for querying price list items.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiPriceList.PRODUCTIDS

Set<String> of Salesforce IDs for all products to price, including component products that belong to composite products.

#### 'prodPLIsToFullyQuery'

Set<String> of Salesforce IDs of kit products to price. These IDs are in a separate set for querying tiered pricing information for the kit.

SEE ALSO:

ccrz.ccApiProduct.fetch

# ccrz.ccLogic Product Pricing. fetch Price Lists And Items

Calls the ccrz.ccApiPriceList.fetchEntitled and ccrz.ccApiPriceList.fetchPriceListItems methods for returning the entitled price list items for the set of product IDs. This method doesn't query price list items for the storefront's base price list, or query tiered pricing or attribute pricing JSON data. Later methods in the logic chain execute those queries.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

```
global virtual Map<String, Object> fetchPriceListsAndItems(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.processProductList method completes.

This method requires the following keys in the working map:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.



Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPriceList.PRODUCTIDS

Set<String> of Salesforce IDs for all products to price, including component products that belong to composite products.

#### ccrz.ccApiProduct.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY, for filtering price list items.

### ccrz.ccApiProduct.EFFDATE

Date for filtering by price list item Start Date and End Date values.

# Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

# ccrz.ccApiProduct.SELLERS

Set<String> of Salesforce IDs ccrz E Seller c records for filtering price list items.

### $\verb"ccrz.ccApiSubProdTerm.SUBPRODTERMS"$

Set<String> of Salesforce IDs for subscription terms

### 'prodPLIsToFullyQuery'

Set<String> of Salesforce IDs of kit products to price. These IDs are in a separate set for querying tiered pricing information for the kit.

# **Logic Performed**

This method completes the following actions:

1. Passes ccrz.ccApiPriceList.PRODUCTIDS and other available input keys (except 'prodPLIsToFullyQuery') to ccrz.ccApiPriceList.fetchEntitled. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAttribute.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XL
    },
    ccrz.ccApiPriceList.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    },
    ccrz.ccApiPriceList.ENTITYNAME_PLI => new Map<String, Object> {
```

```
ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XL
}
```

- 2. Parses the ccrz.ccApiPriceList.fetchEntitled return data for the returned price list items.
- 3. Passes 'prodPLIsToFullyQuery' and other available input keys (except ccrz.ccApiPriceList.PRODUCTIDS) to ccrz.ccApiPriceList.fetchPriceListItems. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiPriceList.ENTITYNAME_PLI => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XL
    }
}
```

**4.** Parses the ccrz.ccApiPriceList.fetchPriceListItems return data for the returned price list items, and adds them to the list of price list items returned from ccrz.ccApiPrice.fetchEntitled.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiPriceList.PRICELISTITEMS
```

Map<String, Object> of ccrz\_E\_PriceListItem\_c data, keyed by ID, that the ccrz.ccApiPrice.fetchEntitled and ccrz.ccApiPriceList.fetchPriceListItems methods returned.

### ccrz.ccApiPriceList.PRICELISTS

```
Map<String, Object> of ccrz_E_PriceList_c data, keyed by ID, that the ccrz.ccApiPriceList.fetchEntitled method returned.
```

```
SEE ALSO:
```

```
ccrz_E_Pricelist__c
ccrz_E_Pricelistltem__c
ccrz.ccApiPriceList.fetchEntitled
ccrz.ccApiPriceList.fetchPriceListItems
Salesforce Help Host a Seller Marketplace on Your Storefront
```

# ccrz.ccLogic Product Pricing. process Price List I tems

Organizes price list items data by sellers, subscriptions, and entitlement.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> processPriceListItems(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.fetchPriceListsAndItems method completes.

This method requires the following keys in the working map:

```
ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Object> of ccrz__E_PriceListItem__c data, keyed by ID.
```

```
ccrz.ccApiPriceList.PRICELISTS
```

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiProduct.PARAM INCLUDE SELLERS

Boolean

Value	Usage
true (default)	Evaluate seller price lists.
false	Skip seller price lists.

# Logic Performed

This method completes the following actions:

- 1. Instantiates an empty Map<String, Map<String, List<Map<String, Object>>>> for organizing price list items
- 2. Evaluates each ccrz\_\_E\_PriceListItem\_\_c in ccrz.ccApiPriceList.PRICELISTITEMS, and completes the following actions:
  - a. If the price list item is associated with a seller, this method adds the item to a List<Map<String, Object>>, which groups price list items associated with sellers. This method adds the list to a Map<String, List>, keyed by a string that indicates that the list includes seller-related price list items.
  - **b.** If the item is associated with a subscription, this method adds the item to the List<Map<String, Object>>, which groups price list items associated with subscriptions. This method adds the list to a Map<String, List>, keyed by a string that indicates that the list includes subscription-related price list items.

- C. Otherwise, this method adds the item to the List<Map<String, Object>>, which groups entitled price list items. This method adds the list to a Map<String, List>, keyed by a string that indicates that the list includes entitled price list items.
- 3. Adds each second-level Map, keyed by price list item type, to the outer Map, keyed by product ID.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

- The outer Map is keyed by a string that specifies a product ID.
- Each second-level Map is keyed by a string that specifies a type of price list item: 'entitledPLIs', 'sellersPLIs', or 'subProdTermPLIs'.
- Each inner List<Map<String, Object>> is a list of entitled, seller, or subscription price list items.
- Mote: This key replaces the ccrz.ccApiPriceList.PRICELISTITEMS input.

#### SEE ALSO:

```
ccrz__E_Pricelist__c
ccrz__E_Pricelistltem__c
Salesforce Help Manage Prices for Storefront Products with Price Lists
Salesforce Help Host a Seller Marketplace on Your Storefront
```

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogic Product Pricing. fetch Base Price Lists And Items

Calls the ccrz.ccApiPriceList.fetch method for returning the storefront's base price list and price list items. This query is separate from the ccrz.ccLogicProductPricing.fetchPriceListsAndItems method because a buyer's entitled price list can be the same price list as the base price list. This logic chain maintains separate data sets for entitled and base price list data.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

```
global virtual Map<String, Object> fetchBasePriceListsAndItems(Map<String, Object>)
```

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.processPriceListItems method completes.

This method requires the following keys in the working map:

### ccrz.ccApi.API VERSION

The version of the B2B Commerce for Visualforce API to reference for the method call. We recommend that you use the ccrz.ccApi.CURRENT\_VERSION constant whenever possible, and only reference a specific version for compatibility if necessary.

**6** 

Note: If this key isn't specified, the method returns a ccrz.ccApi.NoApiVersionException.

### ccrz.ccApiPriceList.INCLSELLERS

Boolean set to false.

### ccrz.ccApiPriceList.NAME

String that specifies the name of the storefront's base price list. This method references the value from ccrz.cc\_CallContext.basePriceList.

### ccrz.ccApiPriceList.PRODUCTIDS

Set<String> of Salesforce IDs for all products to price, including component products that belong to composite products.

### ccrz.ccApiProduct.CURRCODE

String that specifies an ISO 4217 currency code, such as USD or JPY, for filtering price list items.

#### ccrz.ccApiProduct.EFFDATE

Date for filtering by price list item Start Date and End Date values.

# **Logic Performed**

This method completes the following actions:

1. Passes the input keys to ccrz.ccApiPriceList.fetch. By default, this query applies the following data size request parameters:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiAttribute.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_XL
    },
    ccrz.ccApiPriceList.ENTITYNAME_PLI => new Map<String, Object> {
        ccrz.ccApi.SZ_DATA => ccrz.ccApi.SZ_L
    }
}
```

- 2. Parses the ccrz.ccApiPriceList.PRICELISTITEMS output from ccrz.ccApiPriceList.fetch, and builds a map of price list items in the base price list, keyed by product ID.
  - Note: This map excludes subscription-related price list items in the base price list.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### 'basePriceListItems'

Map<String, Object> ofccrz\_E\_PriceListItem\_\_cdata, keyed by ID, that the ccrz.ccApiPrice.fetch method returned.

#### 'basePriceLists'

Map<String, Object> of ccrz\_E\_PriceList\_c data, keyed by ID, that the ccrz.ccApiPrice.fetch method returned.

#### SEE ALSO:

ccrz\_\_E\_PricelistItem\_\_c
ccrz.ccApiPriceList.fetch

Salesforce Help Specify Your Storefront's Base Price List

# ccrz.ccLogicProductPricing.evaluatePricing

Loops through each product and calls an appropriate inner method for pricing the product based on its product type.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> evaluatePricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.fetchBasePriceListsAndItems method completes.

This method requires the following key in the working map:

### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>, where each Map<String, Object> represents a ccrz\_E\_Product\_c that the ccrz.ccServiceProduct data service provider returned for the original ccrz.ccApiProduct.fetch Call.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> that maps subscription terms to their product IDs.

# Logic Performed

This method completes the following actions for each product in ccrz.ccApiProduct.PRODUCTLIST:

- 1. Instantiates an intermediate key, 'product', for the ccrz E Product c record to evaluate.
- 2. Evaluates whether subscription terms exist for the product, and adds subscription terms data to an intermediate Map<String, Object>, 'subProdTerms'.
- 3. Calls the appropriate inner method for pricing the product, depending on its product type. If subscription terms exist for the product, this method passes 'subProdTerms' to the inner method.

Product Type	Method
Standard product	evaluateBasicPricing
Bundle	evaluateBundlePricing
Kit	evaluateKitPricing
Dynamic Kit	evaluateDynamicKitPricing
Aggregated	evaluateAggregatePricing
Assembly	evaluateAssemblyPricing
Other	evaluateCustomProductPricing



**Note**: If the appropriate inner method doesn't return any price data for the product, this method determines that the buyer isn't entitled to the product. The method removes the product from ccrz.ccApiProduct.PRODUCTLIST, which excludes the product from further evaluation in this logic chain.

# Outputs

This method returns the working Map<String, Object> after the inner loop methods complete, with the following key set:

### ccrz.ccApiProduct.PRODUCTLIST

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data.

This method also removes the following intermediate keys from the working map:

- ccrz.ccApiPriceList.PRICELISTITEMS
- ccrz.ccApiPriceList.PRICELISTS
- 'product'

'subProdTerms'

# ccrz.ccLogicProductPricing.evaluateBasicPricing

Evaluates criteria for pricing a standard product, including entitled price lists, base price lists, seller data, and subscription data. This method also calculates a buyer's savings from an entitled price list compared to a base price list.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateBasicPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method

This method requires the following keys in the working map:

### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

- The outer Map is keyed by a string that specifies a product ID.
- Each second-level Map is keyed by a string that specifies a type of price list item: 'entitledPLIs', 'sellersPLIs', or 'subProdTermPLIs'.
- Each inner List<Map<String, Object>> is a list of entitled, seller, or subscription price list items.

### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

# $\verb"ccrz.ccApiProduct.EVALUATIONMODE"$

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESTPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.

Value	Usage
ccrz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

#### 'basePriceListItems'

Map<String, Object> of ccrz\_E\_PriceListItem\_c data, keyed by ID, that belong to the storefront's base price list.

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to this method.

#### 'product'

```
ccrz E Product c to price.
```

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiAttribute.ATTRIBUTEIDS

Map<String, Object> where each key is a parent attribute ID and each value is a List<String> of child attribute IDs:

### ccrz.ccApiProduct.INCLUDE\_ATTRIBUTE\_PRICING

Boolean

Value	Usage
true	Query for ccrz_E_Attributec records that are related to each product, and return the attribute pricing JSON applied to the product's entitled price list item.
false (default)	Don't return any attribute pricing.

### ccrz.ccApiProduct.PARSE ATTRIBUTE PRICING

Boolean

Value	Usage
true (default)	Parse the attribute pricing JSON. By default, this method returns true unless the input data explicitly sets false for this key.
false	Skip attribute pricing.

#### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> that maps subscription terms to their product IDs.

# Logic Performed

This method completes the following actions:

- 1. If any sellers data exists for the product, this method calls the ccrz.ccLogicProductPricing.evaluateSellersPricing method to handle the sellers pricing.
- 2. If any subscription data exists for the product, this method calls the ccrz.ccLogicProductPricing.evaluateSubProdTermPricinginnermethod to handle the subscription pricing.
- **3.** To evaluate product's pricing in the buyer's entitled price list, this method calls the ccrz.ccLogicProductPricing.determinePrice inner method.
- **4.** To evaluate product's pricing in the storefront's base price list, this method calls the ccrz.ccLogicProductPricing.determinePrice inner method.
- **5.** Calculates the buyer's savings from the entitled price list compared to the base price list.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, keyed by product ID, that results from the inner method calls.

SEE ALSO:

Salesforce Help Create a Product for Your Storefront
Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogic Product Pricing. evaluate Bundle Pricing

Evaluates criteria for pricing a bundle product, including entitled price lists, base price lists, and subscription data. A bundle product doesn't support sellers. This method also calculates a buyer's savings from an entitled price list compared to a base price list.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> evaluateBundlePricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method

This method requires the following keys in the working map:

### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

- The outer Map is keyed by a string that specifies a product ID.
- Each second-level Map is keyed by a string that specifies a type of price list item: 'entitledPLIs' or 'subProdTermPLIs'.
- Each inner List<Map<String, Object>> is a list of entitled or subscription price list items.

### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

#### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
ccrz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

### 'basePriceListItems'

Map<String, Object> of ccrz\_\_E\_PriceListItem\_\_c data, keyed by ID, that belong to the storefront's base price list.

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to this method.

### 'product'

ccrz E Product c to price.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> that maps subscription terms to their product IDs.

# Logic Performed

This method completes the following actions:

- 1. For each component product included in a bundle's compositeProductsS related list, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from the storefront's base price list.
- 2. For the bundle product itself, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the bundle's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the bundle's price from the storefront's base price list.
  - c. If any subscription data exists for the product, this method calls the ccrz.ccLogicProductPricing.evaluateSubProdTermPricing inner method for handling the bundle's subscription pricing.
- **3.** Calculates the buyer's savings from the entitled price list compared to the base price list.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, keyed by product ID, that results from the inner method calls.

SEE ALSO:

Salesforce Help Create a Bundle

# ccrz.ccLogic Product Pricing. evaluate Kit Pricing

Evaluates criteria for pricing a kit product, including entitled price lists, base price lists, and subscription data. A kit product doesn't support sellers.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> evaluateKitPricing(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method

This method requires the following keys in the working map:

### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

- The outer Map is keyed by a string that specifies a product ID.
- Each second-level Map is keyed by a string that specifies a type of price list item: 'entitledPLIs' or 'subProdTermPLIs'.
- Each inner List<Map<String, Object>> is a list of entitled or subscription price list items.

### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

#### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
ccrz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

### 'basePriceListItems'

Map<String, Object> of ccrz\_\_E\_PriceListItem\_\_c data, keyed by ID, that belong to the storefront's base price list.

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to this method.

### 'product'

ccrz E Product c to price.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> that maps subscription terms to their product IDs.

# **Logic Performed**

This method completes the following actions:

- 1. For each component product included in a kit's compositeProductsS related list, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from the storefront's base price list.
- **2.** For the kit product itself, this method completes the following actions:
  - **a.** Calculates the subtotal of all component products' prices from an entitled price list.
  - **b.** Calculates the subtotal of all component products' prices from the storefront's base price list.
  - c. If any subscription data exists for the kit, this method calls the ccrz.ccLogicProductPricing.evaluateKitProductSubscriptions inner method for handling the kit's subscription pricing.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, keyed by product ID, that results from the inner method calls.

SEE ALSO:

Salesforce Help Create a Kit

# ccrz.ccLogic Product Pricing. evaluate Dynamic Kit Pricing

Evaluates criteria for pricing a dynamic kit product, including entitled price lists, base price lists, and subscription data. A dynamic kit product doesn't support sellers.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateDynamicKitPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method.

This method requires the following keys in the working map:

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

- The outer Map is keyed by a string that specifies a product ID.
- Each second-level Map is keyed by a string that specifies a type of price list item: 'entitledPLIs' or 'subProdTermPLIs'.
- Each inner List<Map<String, Object>> is a list of entitled or subscription price list items.

#### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
carz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

#### 'basePriceListItems'

Map<String, Object> of ccrz\_E\_PriceListItem\_\_c data, keyed by ID, that belong to the storefront's base price list

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to this method.

#### 'product'

ccrz E Product c to price.

# Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiSubProdTerm.SPTBYPRODID

Map<String, Object> that maps subscription terms to their product IDs.

# Logic Performed

This method completes the following actions:

- 1. For each component product included in a dynamic kit's compositeProductsS related list, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from an entitled price list.

- **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from the storefront's base price list.
- **2.** For the dynamic kit product itself, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the dynamic kit's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the dynamic kit's price from the storefront's base price list.
  - c. If any subscription data exists for the kit, this method calls the ccrz.ccLogicProductPricing.evaluateSubProdTermPricing inner method for handling the dynamic kit's subscription pricing.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, keyed by product ID, that results from the inner method calls.

SEE ALSO:

Salesforce Help Create a Dynamic Kit

# ccrz.ccLogicProductPricing.evaluateAggregatePricing

Evaluates criteria for pricing an aggregated product, including entitled price lists and base price lists. An aggregated product doesn't support sellers or subscriptions.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateAggregatePricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method.

This method requires the following keys in the working map:

#### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

- The outer Map is keyed by a string that specifies a product ID.
- Each second-level Map is keyed by a string that specifies a type of price list item. For an aggregated product, only 'entitledPLIs' is supported.
- Each inner List<Map<String, Object>> is a list of entitled price list items.

#### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

#### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
cerz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

#### 'basePriceListItems'

Map<String, Object> of ccrz\_E\_PriceListItem\_\_c data, keyed by ID, that belong to the storefront's base price list

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to this method.

#### 'product'

ccrz E Product c to price.

# **Logic Performed**

This method completes the following actions:

- 1. For each component product included in an aggregated product's compositeProductsS related list, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from the storefront's base price list.
- **2.** For the aggregated product itself, this method completes the following actions:

- **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the aggregated product's price from an entitled price list.
- **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the aggregated product's price from the storefront's base price list.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, keyed by product ID, that results from the inner method calls.

SEE ALSO:

Salesforce Help Create an Aggregated Product

# ccrz.ccLogicProductPricing.evaluateAssemblyPricing

Evaluates criteria for pricing an assembly product, including entitled price lists and base price lists. An assembly product doesn't support sellers or subscriptions.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateAssemblyPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method.

This method requires the following keys in the working map:

### ccrz.ccApiPriceList.PRICELISTITEMS

Map<String, Map<String, List<Map<String, Object>>>> where:

• The outer Map is keyed by a string that specifies a product ID.

- Each second-level Map is keyed by a string that specifies a type of price list item. For an assembly product, only 'entitledPLIs' is supported.
- Each inner List<Map<String, Object>> is a list of entitled price list items.

### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

#### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.cc4piProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
cerz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

#### 'basePriceListItems'

Map<String, Object> of ccrz\_E\_PriceListItem\_\_c data, keyed by ID, that belong to the storefront's base price list.

#### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to this method.

#### 'product'

ccrz E Product c to price.

# Logic Performed

This method completes the following actions:

- 1. For each component product included in an assembly product's compositeProductsS related list, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the component product's price from the storefront's base price list.
- **2.** For the assembly product itself, this method completes the following actions:
  - **a.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the assembly product's price from an entitled price list.
  - **b.** Calls the ccrz.ccLogicProductPricing.determinePrice inner method for setting the assembly product's price from the storefront's base price list.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, keyed by product ID, that results from the inner method calls.

SEE ALSO:

Salesforce Help Create an Assembly Product

# ccrz.ccLogicProductPricing.evaluateCustomProductPricing

Provides an extension point for evaluating criteria for pricing a product type other than the default types.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateCustomProductPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluatePricing method.

By default, this method doesn't evaluate any keys in the working map.

# Logic Performed

By default, this method contains only a call to ccrz.ccLogicProductPricing.evaluateBundlePricing.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

# ccrz.ccLogicProductPricing.evaluateSellersPricing

Evaluates criteria for pricing a standard product associated with a seller.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateSellersPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluateBasicPricing method.

This method requires the following keys in the working map:

### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
cerz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed to ccrz.ccLogicProductPricing.evaluateBasicPricing.

#### 'priceListItems'

List<Map<String, Object>> of ccrz\_\_E\_PriceListItem\_\_c data to evaluate. The price list items all apply to the same seller and the same product.

# Logic Performed

This method passes the input data to ccrz.ccLogicProductPricing.determinePrice, which returns the best price for the product from among the seller price list items.

# Outputs

This method returns the output from ccrz.ccLogicProductPricing.determinePrice.

SEE ALSO:

ccrz\_\_E\_Seller\_\_c

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogicProductPricing.evaluateSubProdTermPricing

Evaluates criteria for pricing a standard product, bundle, or dynamic kit associated with a subscription.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateSubProdTermPricing(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from any of the following methods:

- ccrz.ccLogicProductPricing.evaluateBasicPricing
- ccrz.ccLogicProductPricing.evaluateBundlePricing
- ccrz.ccLogicProductPricing.evaluateDynamicKitPricing

This method requires the following keys in the working map:

```
ccrz.ccApiPriceList.PRICELISTS
```

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

## ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.cc4piProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
cerz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

#### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed in.

#### 'priceListItems'

### 'subProdTerms'

Map<String, Object> of ccrz E SubProdTerm c data to evaluate.

# Logic Performed

This method completes the following actions:

- 1. Parses 'priceListItems' for recurring and upfront (non-recurring) subscription price data.
- 2. Calculates the minimum and maximum subscription price.
- **3.** Evaluates any subscription modifiers that exist.
- **4.** Calls ccrz.ccLogicProductPricing.determinePrice, which returns the best recurring and non-recurring price for the product from among the price list items.

### Outputs

This method returns the output from ccrz.ccLogicProductPricing.determinePrice, and sets the following keys:

#### 'returnPriceData'

Map<String, Map<String, Object>> where:

- The outer map is keyed by ccrz E SubProdTerm c Salesforce ID
- The inner map contains the following keys and values:

### 'minMaxPrice'

Map<String, Object> of the subscription's upfront (non-recurring) minimum and maximum price.

#### 'modifierSubscriptions'

List<Map<String, Object>> of subscription modifier data.

#### 'nonRecurringPrice'

Decimal that specifies the subscription's upfront price.

### 'recurringPrice'

Decimal that specifies the subscription's recurring price.

#### 'subProdTerms'

Map<String, Object> of ccrz E SubProdTerm c data that was evaluated.

SEE ALSO:

ccrz\_\_E\_SubProdTerm\_\_c

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogic Product Pricing. evaluate Kit Product Subscriptions

Evaluates criteria for pricing a kit associated with a subscription.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> evaluateKitProductSubscriptions(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicProductPricing.evaluateKitPricing method.

This method requires the following keys in the working map:

#### 'compositesPricingData'

Map<String, Object> that describes the prices of the kit's component products from an entitled price list.

### 'priceListItems'

List<Map<String, Object>> of ccrz E PriceListItem c data to evaluate.

#### 'productPrice'

Map<String, Object> that describes the sum of the kit's component product entitled price list items.

### 'subProdTerms'

Map<String, Object> of ccrz E SubProdTerm c data to evaluate.

# Logic Performed

This method completes the following actions:

- 1. Parses 'priceListItems' for recurring and upfront (non-recurring) subscription price data.
- 2. Loops through price list items, and sets the recurring and non-recurring price for the kit.
- **3.** Calculates the minimum and maximum subscription price.
- **4.** Evaluates any subscription modifiers that exist.

# Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'returnPriceData'

Map<String, Map<String, Object>> where:

- The outer map is keyed by ccrz E SubProdTerm c Salesforce ID
- The inner map contains the following keys and values:

#### 'minMaxPrice'

Map<String, Object> of the subscription's upfront (non-recurring) minimum and maximum price.

#### 'modifierSubscriptions'

List<Map<String, Object>> of subscription modifier data.

#### 'nonRecurringPrice'

Decimal that specifies the subscription's upfront price.

#### 'recurringPrice'

Decimal that specifies the subscription's recurring price.

#### 'subProdTerms'

Map<String, Object> of ccrz E SubProdTerm c data that was evaluated.

## SEE ALSO:

Salesforce Help Create a Dynamic Kit

Salesforce Help Offer Subscriptions for Products on Your Storefront

# ccrz.ccLogicProductPricing.determinePrice

Sets a price for any product when called from another evaluation method. This method is the primary logic for applying a price from an entitled price list, base price list, seller, or subscription. This method also evaluates any price list items associated with a contract pricing's price group, which take priority over an entitled price list.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> determinePrice(Map<String, Object>)

# Inputs (Required)

This method accepts the working Map<String, Object> from any of the following methods:

- ccrz.ccLogicProductPricing.evaluateBasicPricing
- ccrz.ccLogicProductPricing.evaluateBundlePricing
- ccrz.ccLogicProductPricing.evaluateKitPricing
- ccrz.ccLogicProductPricing.evaluateDynamicKitPricing
- ccrz.ccLogicProductPricing.evaluateAggregatePricing
- ccrz.ccLogicProductPricing.evaluateAssemblyPricing
- ccrz.ccLogicProductPricing.evaluateSellersPricing
- ccrz.ccLogicProductPricing.evaluateSubProdTermPricing

This method requires the following keys in the working map:

### ccrz.ccApiPriceList.PRICELISTS

Map<String, Object> of ccrz E PriceList c data, keyed by ID.

### ccrz.ccApiProduct.EVALUATIONMODE

String that specifies one of the following constants, which references the price list selection method for the buyer's account group:

Value	Usage
ccrz.ccApiProduct.BESIPRICE (default)	B2B Commerce for Visualforce evaluates all price lists assigned to the account group, and applies the lowest price available for each product.
carz.ccApiProduct.SEQUENCE	B2B Commerce for Visualforce evaluates the Sequence values on each assigned price list's Account Group Price List related record. For the Account Group Price List with the lowest Sequence value, B2B Commerce applies that price list's price.

# 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed in.

#### 'priceListItems'

List<Map<String, Object>> of ccrz E PriceListItem c data to evaluate.

#### 'selectedPLIs'

Set<String> that's initially empty.

### Logic Performed

This method completes the following actions for each price list item in 'priceListItems':

- 1. Evaluates whether the price list item is associated with a price group:
  - When a price group exists, this method finds the value of the sequence field in the related
     ccrz E PriceGroupPricelist c junction object.
  - Otherwise, this method finds the value of the sequence field in the related ccrz\_\_E\_AccountGroupPricelist\_\_c junction object.
- 2. Checks ccrz.ccApiProduct.EVALUATIONMODE and, depending on the specified mode, builds a map of price data from the price list item that the method applied to the product.
- 3. Adds the price list item ID to 'selectedPLIs'.
- **4.** If the price list item defines any pricing tiers, this method calls into ccrz.ccLogicProductPricing.processPricingTiersForPLI for evaluating the tiers.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'returnPriceData'

Map<String, Object> that contains the following keys and values:

#### 'itemType'

String that specifies the product type for the price list item.

#### 'price'

Decimal that specifies the applied price from the price list item.

#### 'priceList'

String that specifies the Salesforce ID of the ccrz E PriceList c that the price list item belongs to.

#### 'seller'

String that specifies the Salesforce ID of the ccrz E Seller c associated with the price list item.

#### 'sfid

#### 'selectedPLIs'

Set<String> that contains the Salesforce IDs of the applied price list items.

### SEE ALSO:

```
ccrz_E_Pricelist__c
ccrz_E_PricelistItem__c
```

Salesforce Help Host a Seller Marketplace on Your Storefront

# ccrz.ccLogicProductPricing.processSelectedPLIs

Queries attributes or tiers pricing data for the price list items whose prices the ccrz.ccLogicProductPricing.determinePrice method applied.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processSelectedPLIs(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the inner methods of the ccrz.ccLogicProductPricing.evaluatePricing method complete.

This method requires the following keys in the working map:

### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data.

#### 'selectedPLIs'

Set<String> that contains the Salesforce IDs of the applied price list items.

### Inputs (Optional)

If the working map includes the following key, this method evaluates it:

#### ccrz.ccApiProduct.INCLUDE ATTRIBUTE PRICING

Boolean

Value	Usage
true	Query for ccrz_E_Attributec records that are related to each product, and return the attribute pricing JSON applied to the selected price list items.
false (default)	Don't return any attribute pricing.

### ccrz.ccApiProduct.INCLUDE\_TIER\_PRICING

Boolean

Value	Usage
true	Query tiered pricing JSON. For more information about tiered pricing, see https://help.salesforce.com/articleView?id=sf.b2b_commerce_tiered_pricing.htm.
false (default)	Don't return any tiered pricing.

#### ccrz.ccApiProduct.PARSE ATTRIBUTE PRICING

Boolean

Value	Usage
true (default)	Parse the attribute pricing JSON.
false	Skip attribute pricing.

### Logic Performed

This method completes the following actions:

- 1. Passes 'selectedPLIs' as input for ccrz.ccApiPriceList.fetchPriceListItems.
- 2. For each price list item in the ccrz.ccApiPriceList.PRICELISTITEMS output from ccrz.ccApiPriceList.fetchPriceListItems, this method completes the following actions:
  - **a.** Evaluates whether the price list item includes attributes pricing. If so, the method builds a Map<String, Object> that contains the following keys and values:

#### 'attr20'

Map<String, List<Object>> that describes parent and child attribute IDs. This method calls the ccrz.ccLogicProductPricing.gatherAttributesToQuery utility method for building this map.

#### 'attrMap

Map<String, Object> that contains the deserialized attributes pricing JSON data.

**b.** Evaluates whether the price list item includes pricing tiers. If so, the method calls ccrz.ccLogicProductPricing.processPricingTiersForPLI for evaluating the tiers.

#### **Outputs**

This method returns the working Map<String, Object> after the inner methods complete, with the following key set:

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data, updated with attributes or tiers pricing data.

This method also removes the following intermediate keys from the working map:

• 'selectedPLIs'

#### SEE ALSO:

```
ccrz_E_PricelistItem__c
ccrz.ccApiPriceList.fetchPriceListItems
```

## ccrz.ccLogicProductPricing.processPricingTiersForPLI

Evaluates product pricing data for an individual price list item and calculates the unit price.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processPricingTiersForPLI(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from any of the following methods:

- ccrz.ccLogicProductPricing.determinePrice
- ccrz.ccLogicProductPricing.processSelectedPLIs

This method requires the following keys in the working map:

### 'completeInputData'

Map<String, Object> that contains a copy of all the input keys and values passed in.

#### 'pli

Map<String, Object> that describes the ccrz E PriceListItem c to evaluate.

#### 'productPrice'

Map<String, Object> that contains the product pricing data to evaluate.

### **Logic Performed**

This method completes the following actions:

- 1. Deserializes the pricing tiers JSON data from the pricingTiers field in 'pli' to a Map<String, Object>.
- **2.** Parses the pricing tiers and calculates the unit price for the price list item.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### 'productPrice'

Map<String, Object> that contains the updated product pricing data with the unit price set.

SEE ALSO:

Salesforce Help Adjust Product Prices Based on Tiered Quantities

## ccrz.ccLogicProductPricing.processAttributes

Queries attributes data processed by the ccrz.ccLogicProductPricing.processSelectedPLIs method.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processAttributes(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.processSelectedPLIs method completes.

This method requires the following keys in the working map:

#### attributesToQuery

Map<String, List<Object>> that describes the parent and child attribute IDs to query. The ccrz.ccLogicProductPricing.gatherAttributesToQuery utility method, called from ccrz.ccLogicProductPricing.processSelectedPLIs, builds this map.

### ccrz.ccApiProduct.PARSE\_ATTRIBUTE\_PRICING

Boolean

Value	Usage
true (default)	Parse the attribute pricing JSON. This method executes only when this value is <code>true</code> .
false	Skip attribute pricing.

#### ccrz.ccApiProduct.PRODUCTPRICINGDATA

Map<String, Object> of product pricing data.

### Logic Performed

This method completes the following actions:

- 1. Passes attributesToQuery as input for ccrz.ccApiAttribute.fetch.
- 2. Parses the ccrz.ccApiPriceList.ATTRIBUTES output from ccrz.ccApiAttribute.fetch and applies the attribute pricing to ccrz.ccApiProduct.PRODUCTPRICINGDATA.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiAttribute.IDS

List<String> of Salesforce IDs of attributes that were evaluated.

SEE ALSO:

ccrz.ccApiAttribute.fetch

## ccrz.ccLogicProductPricing.prepReturnData

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> prepReturnData(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicProductPricing.processAttributes method completes.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicProductUrlFor

Define the business logic for returning the friendly URLs for products.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

## Global API Caller

ccrz.ccApiProduct.getUrlFor

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

#### processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

#### fetchProductCategories

Queries for product categories and categories when the original input data already specifies ccrz.ccApiProduct.PRODUCTLIST.

#### fetchProducts

Queries for products and categories when the original input data doesn't specify ccrz.ccApiProduct.PRODUCTLIST.

#### fetchCategoryURLs

Calls the ccrz.ccApiCategory.getUrlFor method for returning  $ccrz\_E\_SiteIndex\_c$  records, which associate each category to its friendly URL.

#### mapProductUrl

Creates a map that associates the Salesforce ID of each product to its friendly URL.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

SEE ALSO:

Salesforce Help Serve Friendly URLs for Storefront Pages

## ccrz.ccLogicProductUrlFor.process

Overrides the base ccrz.ccLogic.process method, and invokes the other methods for this class.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiProduct.getUrlFor method.

### Logic Performed

 $This \ method \ invokes \ other \ methods \ of \ the \ \texttt{ccrz.cclogicProductUrlFor} \ class \ in \ the \ following \ order:$ 

- 1. processInput
- 2. fetchProductCategories Or fetchProducts
- 3. fetchCategoryUrls
- 4. mapProductUrl
- 5. prepReturn

### Outputs

This method returns the resulting Map<String, Object> after all inner methods have completed.

Ø

Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicProductUrlFor.processInput

Copies the original input data to a new working map to pass through other downstream methods in the process chain. This method also parses the original input data for keys that downstream methods require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicProductUrlFor.process method.

This method checks that the input map specifies one of the following keys, and returns a ccrz.ccApi.MissingInputException if none of these keys are included:

#### ccrz.ccApiProduct.PRODUCTIDLIST

List<String> of Salesforce IDs for specific products whose friendly URLs you want to return.

#### ccrz.ccApiProduct.PRODUCTLIST

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz\_\_E\_Product\_\_c whose friendly URL you want to return.

### ccrz.ccApiProduct.PRODUCTSKULIST

List<String> of specific product SKUs whose friendly URLs you want to return.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The logic chain returns internationalized friendly URL values for the locale.

### ccrz.ccApiProduct.PRODUCTLOCALES

Set<String> of your storefront's supported locales. The logic chain returns internationalized friendly URL values for the locales.

### ccrz.ccApiProduct.STOREFRONT

String that specifies the name of a storefront.

### **Logic Performed**

This method completes the following actions:

- 1. Looks for ccrz.ccApiProduct.PRODUCTLIST, and completes the following actions:
  - a. Adds each product ID to the ccrz.ccApiProduct.PRODUCTIDLIST output.
  - **b.** Sets ccrz.ccApiProduct.PRODUCT\_URL\_FOR\_QUERYSTRING to a query of ccrz\_\_E\_ProductCategory\_\_c records.

- **4.** Evaluates the optional inputs and sets fallback values, if necessary.

### Outputs

This method returns a Map<String, Object>, which is a copy of the original input data that other downstream methods can process. This map is known as the working map. This method also adds the following keys to the working map.

#### ccrz.ccApiCategory.CATEGORYLOCALE

String based on the value of the ccrz.ccApiProduct.PRODUCTLOCALE input.

Note: If the input data doesn't specify ccrz.ccApiProduct.PRODUCTLOCALE, the method falls back to ccrz.cc CallContext.userLocale.

#### ccrz.ccApiCategory.CATEGORYLOCALES

String based on the value of the ccrz.ccApiProduct.PRODUCTLOCALES input.

#### ccrz.ccApiProduct.PRODUCTIDLIST

List<String> of Salesforce IDs for specific products whose friendly URLs you want to return.

#### ccrz.ccApiProduct.PRODUCT URL FOR QUERYSTRING

String that specifies a query of product or product category records.

#### ccrz.ccApiProduct.STOREFRONT

String based on the value of the ccrz.ccApiProduct.STOREFRONT input.

Note: If the input data doesn't specify this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

# ccrz.ccLogic Product Url For. fetch Product Categories

Queries for product categories and categories when the original input data already specifies ccrz.ccApiProduct.PRODUCTLIST.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10

### **Signature**

```
global virtual Map<String, Object> fetchProductCategories(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working map Map<String, Object> after the ccrz.ccLogicProductUrlFor.processInput method completes.



Mote: This method executes only when the working map includes the ccrz.ccApiProduct.PRODUCTLIST input.

This method requires the following keys in the working map:

#### ccrz.ccApiProduct.PRODUCT URL FOR QUERYSTRING

String that specifies a query of product or product category records.

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The logic chain returns internationalized friendly URL values for the locale

## Logic Performed

This method completes the following actions:

- 1. Executes a query of ccrz E ProductCategory c records using ccrz.ccApiProduct.PRODUCT URL FOR QUERYSTRING.
- 2. Parses each queried ccrz E ProductCategory c record for the referenced ccrz E Category c.

#### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiCategory.CATEGORYIDLIST
```

### ccrz.ccLogicProductUrlFor.PRODUCT CATEGORIES

```
Map<String, List<ccrz E ProductCategory c>>, keyed by product ID.
```

SEE ALSO:

```
ccrz__E_Category__c
ccrz__E_ProductCategory__c
```

# ccrz.ccLogicProductUrlFor.fetchProducts

Queries for products and categories when the original input data doesn't specify ccrz.ccApiProduct.PRODUCTLIST.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### **Signature**

global virtual Map<String, Object> fetchProducts(Map<String, Object>)

### Inputs (Required)

This method accepts the working map Map<String, Object> after the ccrz.ccLogicProductUrlFor.processInput method completes.



**Note**: This method executes only when the working map doesn't include the ccrz.ccApiProduct.PRODUCTLIST input.

This method requires the following keys in the working map:

#### ccrz.ccApiProduct.PRODUCT URL FOR QUERYSTRING

String that specifies a query of product or product category records.

### Inputs (Optional)

If the working map includes the following keys, this method evaluates them:

#### ccrz.ccApiProduct.PRODUCTLOCALE

String that specifies one of your storefront's supported locales. The logic chain returns internationalized friendly URL values for the locale.

#### ccrz.ccApiProduct.PRODUCTLOCALES

Set<String> of your storefront's supported locales. The logic chain returns internationalized friendly URL values for the locales.

### Logic Performed

This method completes the following actions:

- 1. Evaluates ccrz.ccApiProduct.PRODUCTLOCALE or ccrz.ccApiProduct.PRODUCTLOCALES into a single input, ccrz.ccApiProduct.PRODUCTLOCALES.
- 2. Executes a query of ccrz E Product crecords using ccrz.ccApiProduct.PRODUCT URL FOR QUERYSTRING.
- **3.** Parses each queried product's list of related ccrz\_E\_ProductCategory\_c records for the referenced ccrz\_E Category\_c.

#### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

```
ccrz.ccApiCategory.CATEGORYIDLIST
```

#### ccrz.ccApiProduct.PRODUCTLIST

List<ccrz E Product c> of the products whose friendly URLs you want to return.

SEE ALSO:

```
ccrz_E_Category__c
ccrz_E_Product__c
ccrz_E_ProductCategory__c
```

## ccrz.ccLogicProductUrlFor.fetchCategoryURLs

Calls the ccrz.ccApiCategory.getUrlFor method for returning ccrz\_\_E\_SiteIndex\_\_c records, which associate each category to its friendly URL.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

```
global virtual Map<String, Object> fetchCategoryURLs(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working map Map<String, Object> after the ccrz.ccLogicProductUrlFor.fetchProductCategoriesOrccrz.ccLogicProductUrlFor.fetchProducts method completes.

This method requires the following key in the working map:

### ccrz.ccApiCategory.CATEGORYIDLIST

This method also requires one of the following keys in the working map:

#### ccrz.ccApiCategory.CATEGORYLOCALE

String that specifies one of your storefront's supported locales.

#### ccrz.ccApiCategory.CATEGORYLOCALES

Set<String> of your storefront's supported locales.

### Logic Performed

This method completes the following actions:

- If the input data includes ccrz.ccApiCategory.CATEGORYLOCALE, the method returns the ccrz.ccApiCategory.CATEGORYURLMAP or ccrz.ccApiCategory.SITEINDICES output from ccrz.ccApiCategory.getUrlFor.
- 2. If the input data includes ccrz.ccApiCategory.CATEGORYLOCALES, the method returns the ccrz.ccApiCategory.LOCALECATEGORYURLMAP or ccrz.ccApiCategory.LOCALESITEINDICES output from ccrz.ccApiCategory.getUrlFor.

### Outputs

This method returns the working Map<String, Object>, updated with the ccrz.ccApiCategory.getUrlFor output:

#### ccrz.ccApiCategory.CATEGORYURLMAP

Map<String, Object> for a single locale, where each key is a category ID and each value is the category's friendly URL.

#### ccrz.ccApiCategory.LOCALECATEGORYURLMAP

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by category ID.
- Each inner map is keyed by locale.
- Each inner map's value is the category's friendly URL for the locale.

#### ccrz.ccApiCategory.LOCALESITEINDICES

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by category ID.
- Each inner map is keyed by locale.
- Each inner map's value is the category's corresponding ccrz E SiteIndex c record for the locale.

### ccrz.ccApiCategory.SITEINDICES

```
Map<String, Object> for a single locale, where each key is a category ID and each value is the corresponding ccrz E SiteIndex c record.
```

#### SEE ALSO:

```
ccrz__E_SiteIndex__c
ccrz.ccApiCategory.getUrlFor
ccrz.ccLogicCategoryUrlFor.fetchSiteIndices
Salesforce Help Serve Friendly URLs for Storefront Pages
```

# ccrz.ccLogic Product Url For. map Product Url

Creates a map that associates the Salesforce ID of each product to its friendly URL.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

## Signature

global virtual Map<String, Object> mapProductUrl(Map<String, Object>)

### Inputs (Required)

This method accepts the working map Map<String, Object> after the ccrz.ccLogicProductUrlFor.fetchCategoryURLs method completes.

### Logic Performed

This method completes the following actions:

- If the original input data included ccrz.ccApiProduct.PRODUCTLIST, the ccrz.ccLogicProductUrlFor.fetchProductCategories method executed, and the working map includes ccrz.ccLogicProductUrlFor.PRODUCT\_CATEGORIES, this method calls the private mapProductUrlByProductCategory method, which:
  - **a.** Evaluates the following keys:
    - ccrz.ccApiCategory.CATEGORYURLMAP
    - ccrz.ccApiCategory.SITEINDICES
    - ccrz.ccApiProduct.PRODUCTLIST
    - ccrz.ccLogicProductUrlFor.PRODUCT\_CATEGORIES
  - b. Returns ccrz.ccapiProduct.SITEINDEX PRODUCT MAP and ccrz.ccapiProduct.PRODUCTURLMAP
- 2. Otherwise, the ccrz.ccLogicProductUrlFor.fetchProducts method executed, and this method calls the private mapProductUrlByProduct method, which:
  - **a.** Evaluates the following keys:
    - ccrz.ccApiCategory.LOCALECATEGORYURLMAP
    - ccrz.ccApiCategory.LOCALESITEINDICES
    - ccrz.ccApiProduct.PRODUCTLIST
    - ccrz.ccApiProduct.PRODUCTSKULIST
    - ccrz.ccApiProduct.PRODUCTLOCALES
  - **b.** Returns ccrz.ccApiProduct.LOCALE\_SITEINDEX\_PRODUCT\_MAP and ccrz.ccApiProduct.LOCALE PRODUCTURLMAP

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiProduct.LOCALE SITEINDEX PRODUCT MAP

Map<String, Object> for multiple locales, where:

- Each key is a product ID. If the input data includes ccrz.ccApiProduct.PRODUCTSKULIST, each key is a SKU instead.
- each value is the ccrz E SiteIndex c record that corresponds to the product's category for a specific locale.

#### ccrz.ccApiProduct.LOCALE PRODUCTURLMAP

Map<String, Map<String, Object>> for multiple locales, where:

- The outer map is keyed by product ID. If the input data includes ccrz.ccApiProduct.PRODUCTSKULIST, the outer map is keyed by SKU instead.
- Each inner map is keyed by locale.
- Each inner map's value is the product's friendly URL for the locale.

#### ccrz.ccApiProduct.PRODUCTURLMAP

Map<String, Object> for a single locale, where each key is a product ID and each value is the product's friendly URL.

#### ccrz.ccApiProduct.SITEINDEX PRODUCT MAP

Map<String, Object> for a single locale, where each key is a product ID and each value is the ccrz\_E\_SiteIndex\_c record that corresponds to the product's category.

SEE ALSO:

Salesforce Help Serve Friendly URLs for Storefront Pages

## ccrz.ccLogicProductUrlFor.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working map Map<String, Object> after the ccrz.ccLogicProductUrlFor.mapProductUrl method completes.

### Outputs

This method removes the following intermediate keys from the working map, and returns the final Map<String, Object>:

- ccrz.ccApiCategory.CATEGORYIDLIST
- ccrz.ccApiCategory.CATEGORYLOCALE
- ccrz.ccApiCategory.CATEGORYLOCALES
- ccrz.ccApiCategory.CATEGORYURLMAP
- ccrz.ccApiCategory.LOCALECATEGORYURLMAP
- ccrz.ccApiCategory.LOCALESITEINDICES
- ccrz.ccApiProduct.PRODUCT URL FOR QUERYSTRING
- ccrz.ccApiProduct.PRODUCTIDLIST
- ccrz.ccApiProduct.STOREFRONT
- ccrz.ccLogic.ORIGINAL INPUT
- ccrz.ccLogicProductUrlFor.PRODUCT CATEGORIES

# ccrz.ccLogicSlCreate

Define the business logic for creating site index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Global API Caller

ccrz.ccApiSiteIndex.create

### Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

#### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### processCategoryData

Returns a data structure of the parent categories for the category IDs that you specified for the ccrz.ccApiSiteIndex.create method. The method calls the ccrz.ccLogicSICreate.fetchCategories and

 $\verb|ccrz.ccLogicSICreate.processCategoryNodes| methods in a loop to traverse up the category tree to the store front's root category.$ 

#### fetchCategories

Returns the category records and up to five levels of parent category relationships for each category in the ccrz.ccApiSiteIndex.CATEGORY IDS set.

#### processCategoryNodes

Determines whether more parent categories—up to five levels of parent hierarchy—exist for the current node in the category tree. If more parent categories exist, those parent categories are added to the ccrz.ccApiSiteIndex.CATEGORY\_IDS set for further loop processing.

#### fetchLocalizedData

Queries each category's internationalized records.

#### createSiteIndices

Creates the site index sObjects, including assigning the category's friendly URL and creating the breadcrumb path.

#### insertSiteIndices

Executes the DML insert operation for the created site index records, which assigns IDs to each record.

#### refetch

Call the ccrz.ccApiSiteIndex.fetch method for fetching the site index records after they're created and inserted.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

# ccrz.ccLogicSlCreate.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiSiteIndex.create method.

### Logic Performed

This method invokes other methods of the ccrz.ccLoqicSICreate class in the following order:

- 1. processInput
- 2. processCategoryData, which calls fetchCategories and processCategoryNodes in a loop
- 3. fetchLocalizedData
- 4. createSiteIndices
- 5. processSiteIndices
- 6. insertSiteIndices
- 7. refetch
- 8. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicSICreate.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicSICreate.process method.

This method checks that the input map specifies the following keys, and returns a ccrz.ccApi.MissingInputException if any key is missing:

#### ccrz.ccApiSiteIndex.CATEGORY IDS

Set<String> of category IDs to create site index records for.

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales to create site index records for. Typically, you want to create site index records for all the locales that your storefront supports.

#### ccrz.ccApiSiteIndex.ROOT CATEGORY ID

String that specifies the ID of the storefront's root category.



Note: If this key isn't specified, the method doesn't return an exception. But, this key ensures that the created site index records specify the correct storefront and reflect the storefront's category tree.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront to create site index records for.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicSICreate.prepReturn method removes this intermediate key from the working map.

#### SEE ALSO:

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce

# ccrz.ccLogicSICreate.processCategoryData

Returns a data structure of the parent categories for the category IDs that you specified for the ccrz.ccApiSiteIndex.create method. The method calls the ccrz.ccLogicSICreate.fetchCategories and

ccrz.ccLogicSICreate.processCategoryNodes methods in a loop to traverse up the category tree to the storefront's root category.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processCategoryData(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.processInput method. This method requires the following key in the working map:

#### ccrz.ccApiSiteIndex.CATEGORY IDS

Set<String> of category IDs. Typically, these categories are *leafs* in the category tree: categories with no child categories. The method calls the ccrz.ccLogicSICreate.fetchCategories and

 $\verb|ccrz.ccLogicSICreate.processCategoryNodes| methods in a loop to traverse up the category tree to the storefront's root category.$ 

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### 'processedCategoryNodes'

Map<String, ccrz\_E\_Category\_c> where each entry contains a category in the category tree. By default, each entry can specify up to five levels of parent categories.



**Note:** What happens if the ccrz.ccApiSiteIndex.CATEGORY\_IDS key includes a category ID that's more than five levels deep in the category tree? In this case, the default ccrz.ccLogicSICreate class can't create its site index record successfully.

SEE ALSO:

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce

## ccrz.ccLogicSlCreate.fetchCategories

Returns the category records and up to five levels of parent category relationships for each category in the ccrz.ccApiSiteIndex.CATEGORY IDS set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchCategories(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.processCategoryData method.

This method requires the following key in the working map:

#### ccrz.ccApiSiteIndex.CATEGORY IDS

Set<String> of category IDs, either originally passed in to the ccrz.ccApiSiteIndex.create method or returned from the loop process with the ccrz.ccLogicSICreate.processCategoryNodes method.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### 'categoryNodes'

Map<String, ccrz\_E\_Category\_c> where each entry contains a category (or *node*) in the category tree, keyed by category ID. By default, each entry can specify up to five levels of parent categories.

SEE ALSO:

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce

## ccrz.ccLogicSlCreate.processCategoryNodes

Determines whether more parent categories—up to five levels of parent hierarchy—exist for the current node in the category tree. If more parent categories exist, those parent categories are added to the ccrz.ccApiSiteIndex.CATEGORY\_IDS set for further loop processing.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> processCategoryNodes(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.fetchCategories method.

This method requires the following key in the working map:

#### 'categoryNodes'

Map<String, ccrz\_E\_Category\_c> where each entry contains a category (or *node*) in the category tree, keyed by category ID. By default, each entry can specify up to five levels of parent categories.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiSiteIndex.CATEGORY IDS

Set<String> of the available parent category IDs to continue processing with the ccrz.ccLogicSICreate.fetchCategories method. When the current node being processed no longer has any parent

category, the method determines that the loop process has reached the storefront's root category. At that point, the method removes the ccrz.ccApiSiteIndex.CATEGORY IDS key from the working map.

#### 'completeCategoryIdSet'

Set<String> of all category IDs and their parent categories. Each iteration of the ccrz.ccLogicSICreate.processCategoryNodes method updates this set.

SEE ALSO:

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce

## ccrz.ccLogicSICreate.fetchLocalizedData

Queries each category's internationalized records.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchLocalizedData(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.processCategoryData method.

This method requires the following keys in the working map:

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales to query internationalized category data for. Typically, you want to create site index records for all the locales that your storefront supports.

#### 'completeCategoryIdSet'

Set<String> of all category IDs and their parent categories. The method queries ccrz\_\_E\_CategoryI18N\_\_c records that correspond to these category IDs.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### 'localizedCategoryData'

Map<String, Map<String, ccrz\_E\_CategoryI18N\_c>> where each entry contains an internationalized category record, keyed by locale and category ID:

```
<Locale<Category ID, ccrz__E_CategoryI18N__c>>
```

#### SEE ALSO:

Salesforce Help Localize Categories for an Internationalized Storefront Salesforce Help Translate Storefront Text for Buyers in Different Locales

## ccrz.ccLogicSICreate.createSiteIndices

Creates the site index sObjects, including assigning the category's friendly URL and creating the breadcrumb path.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> createSiteIndices(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.fetchLocalizedData method.

This method requires the following keys in the working map:

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales to create site index records for. Typically, you want to create site index records for all the locales that your storefront supports.

#### ccrz.ccApiSiteIndex.ROOT CATEGORY ID

String that specifies the ID of the storefront's root category.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront to create site index records for.

#### 'localizedCategoryData'

Map<String, Map<String, ccrz\_E\_CategoryI18N\_c>> where each entry contains an internationalized category record, keyed by locale and category ID:

```
<Locale<Category ID, ccrz__E_CategoryI18N__c>>
```

The ccrz.ccLogicSICreate.fetchLocalizedData method returns this key.

#### 'processedCategoryNodes'

Map<String, ccrz\_E\_Category\_c> where each entry contains a category in the category tree, keyed by category ID. By default, each entry can specify up to five levels of parent categories. The ccrz.ccLogicSICreate.processCategoryData method returns this key.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, ccrz\_E\_SiteIndex\_c>> of the created site index sObjects, ready to insert with the ccrz.ccLogicSICreate.insertSiteIndices method.



#### Note:

- Each new site index record doesn't have an ID until inserted.
- Each new site index record's locale depends on the locales that your storefront supports and the locales that you've created internationalized category records for. If necessary, this method assigns a fallback locale to a site index record instead of a full locale.

#### SEE ALSO:

Salesforce Help Localize Categories for an Internationalized Storefront Salesforce Help Translate Storefront Text for Buyers in Different Locales

# ccrz.ccLogicSlCreate.insertSiteIndices

Executes the DML insert operation for the created site index records, which assigns IDs to each record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

```
global virtual Map<String, Object> insertSiteIndices(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.createSiteIndices method.

This method requires the following key in the working map:

#### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, ccrz\_E\_SiteIndex\_c>> of the site index sObjects to insert. The ccrz.ccLogicSICreate.createSiteIndices method returns this key.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiSiteIndex.CATEGORY IDS

Set<String> of category IDs that site index records were created for.

#### ccrz.ccApiSiteIndex.IDS

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogicSICreate.refetch

Call the ccrz.ccApiSiteIndex.fetch method for fetching the site index records after they're created and inserted.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> refetch(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.insertSiteIndices method.

This method requires the following key in the working map:

#### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiSiteIndex.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, Object> Ofccrz\_E\_SiteIndex\_\_crecords that the the ccrz.ccApiSiteIndex.fetch method returns.

SEE ALSO:

ccrz.ccApiSiteIndex.fetch

# ccrz.ccLogicSlCreate.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSICreate.refetch method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicSIMapUrl

Define the business logic for returning the category or product default URL that corresponds to a specified friendly URL.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiSiteIndex.mapUrl

## Methods

IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### processUrl

Parses a specified friendly URL into separate pieces of data.

#### fetchSiteIndices

Calls the ccrz.ccApiSiteIndex.fetch method to query site index records for matches against the hashed root and partial URL values.

#### processSiteIndices

Evaluates the hashed URL portions, and attempts to match the URL with a category's default URL used on the Product List page.

#### fetchProducts

Evaluates product category records and the SEO ID field on product records to find a product whose Product Detail page URL corresponds to the hashed URL portions. This method executes only when the

ccrz.ccLogicSIMapUrl.processSiteIndices method can't exactly match the working map's friendly URL with a category URL.

#### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicSIMapUrl.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> process(Map<String, Object>)

### Inputs (Required)

This method accepts a Map < String, Object >, which was the input data for the ccrz.ccApiSiteIndex.mapUrl method.

### Logic Performed

This method invokes other methods of the ccrz.ccLogicSIMapUrl class in the following order:

- 1. processInput
- 2. processUrl

- 3. fetchSiteIndices
- 4. processSiteIndices
- 5. fetchProducts
- 6. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicSIMapUrl.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

#### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicSIMapUrl.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

#### ccrz.ccApiSiteIndex.FULL URL

String that specifies the friendly URL for a product or category whose default URL you want to return. This value can be a URL that the ccrz.ccApiProduct.getUrlFor or ccrz.ccApiCategory.getUrlFor method returns.

### Inputs (Optional)

This method can also process the following keys, if specified, in the Map<String, Object> from the ccrz.ccLogicSIMapUrl.process method.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of a storefront.



#### ccrz.ccApiSiteIndex.URL LOCALE

String that specifies one of your storefront's supported locales.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userLocale.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicSIMapUrl.prepReturn method removes this intermediate key from the working map.



#### Example: Example

Prefix the ccrz.ccApiSiteIndex.FULL URL with the user's locale.

```
global virtual with sharing class customSiteIndexMapUrlLogic extends ccrz.ccLogicSIMapUrl
    global virtual override Map<String, Object> processInput(Map<String, Object>
inputData) {
        Map<String,Object> returnData = super.processInput(inputData);
        String fullUrl = (String) inputData.get(ccrz.ccApiSiteIndex.FULL URL);
        String locale = ccrz.cc CallContext.userLocale;
        fullUr1 = fullUr1.removeStart('/' + locale);
        returnData.put(ccrz.ccApiSiteIndex.FULL URL, fullUrl)
        return returnData;
```

#### SEE ALSO:

ccrz.ccApiCategory.getUrlFor ccrz.ccApiProduct.getUrlFor

# ccrz.ccLogicSIMapUrl.processUrl

Parses a specified friendly URL into separate pieces of data.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Map<String, Object> processUrl(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIMapUrl.process method. This method requires the following key in the working map:

#### ccrz.ccApiSiteIndex.FULL URL

String that specifies the friendly URL for a product or category whose default URL you want to return. This value can be a URL that the ccrz.ccApiProduct.getUrlFor or ccrz.ccApiCategory.getUrlFor method returns.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiSiteIndex.URL HASH LIST

List<String> of the 'rootUrl' and 'partialUrl' values, passed through the Apex String.hashCode method.

#### ccrz.ccApiSiteIndex.URL PARAMS

String that specifies any URL parameters that appeared after a question mark character (?) in the ccrz.ccApiSiteIndex.FULL URL input value.

#### 'checkProductSEOId'

String that matches the final portion of the path from 'rootUrl'. For example, if 'rootUrl' is /Coffee/Medium/MediumRoast, the 'checkProductSEOId' portion is /MediumRoast.

#### 'partialUrl'

String that matches 'rootUrl' but excludes the final portion of the path. For example, if 'rootUrl' is /Coffee/Medium/MediumRoast, the 'partialUrl' portion is /Coffee/Medium. The remaining portion of the path, such as /MediumRoast, is the value of 'checkProductSEOId'.

#### 'rootUrl'

String that specifies the portion of the ccrz.ccApiSiteIndex.FULL\_URL value that precedes a question mark character (?). Any values that follow the question mark character are considered URL parameters and are included in the ccrz.ccApiSiteIndex.URL PARAMS key.

#### SEE ALSO:

ccrz.ccApiCategory.getUrlFor ccrz.ccApiProduct.getUrlFor

Salesforce Help Specify SEO Metadata for Products and Categories

Salesforce Help Serve Friendly URLs for Storefront Pages

## ccrz.ccLogicSIMapUrl.fetchSiteIndices

Calls the ccrz.ccApiSiteIndex.fetch method to query site index records for matches against the hashed root and partial URL values.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchSiteIndices(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicSIMapUrl.processUrl method.

This method requires the following keys in the working map:

### ccrz.ccApiSiteIndex.URL\_HASH\_LIST

List<String> of the 'rootUrl' and 'partialUrl' values returned from, passed through the Apex String.hashCode method. The ccrz.ccLogicSIMapUrl.processUrl method returns this key.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

#### ccrz.ccApiSiteIndex.SITE\_INDICES

Map<String, ccrz E SiteIndex c> of site index records, keyed by ID, that match the query.

SEE ALSO:

ccrz.ccApiSiteIndex.fetch

## ccrz.ccLogicSIMapUrl.processSiteIndices

Evaluates the hashed URL portions, and attempts to match the URL with a category's default URL used on the Product List page.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> processSiteIndices(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIMapUrl.fetchSiteIndices method.

This method requires the following keys in the working map:

#### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, ccrz\_E\_SiteIndex\_c> of site index records, keyed by ID, to evaluate. The ccrz.ccLogicSIMapUrl.fetchSiteIndices method returns this key.

### ccrz.ccApiSiteIndex.URL\_LOCALE

String that specifies the storefront locale to evaluate URLs against.

#### 'rootUrlHash'

String that specifies the friendly URL's 'rootUrl' value, passed through the Apex String.hashCode method.

### Inputs (Optional)

This method can also process the following keys, if specified, in the working Map<String, Object>.

#### 'partialUrlHash'

String that specifies the friendly URL's 'partialUrl' value, passed through the Apex String.hashCode method.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

#### ccrz.ccApiSiteIndex.MAPPED URL

String that specifies the category default URL that corresponds to the specified friendly URL. This key is returned when 'rootUrlHash' matches a queried site index record, which indicates that the friendly URL corresponds to a category.

#### 'checkProductCategory'

String that specifies a category ID. This key is returned when 'partialUrlHash' matches on the queried site index records. Because the URL only partially matched, the friendly URL doesn't definitively correspond to a category or product. The ccrz.ccLogicSIMapUrl.fetchProducts method attempts to match the friendly URL with a product by querying ccrz E ProductCategory c records for this category ID.

#### SEE ALSO:

ccrz\_E\_ProductCategory\_\_c

Salesforce Help Specify SEO Metadata for Products and Categories

Salesforce Help Serve Friendly URLs for Storefront Pages

## ccrz.ccLogicSIMapUrl.fetchProducts

Evaluates product category records and the SEO ID field on product records to find a product whose Product Detail page URL corresponds to the hashed URL portions. This method executes only when the ccrz.ccLogicSIMapUrl.processSiteIndices method can't exactly match the working map's friendly URL with a category URL.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> fetchProducts(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIMapUrl.processSiteIndices method.

This method requires the following keys in the working map:

### 'checkProductCategory'

String that specifies a category ID to match against ccrz\_\_E\_ProductCategory\_\_c. The ccrz.ccLogicSIMapUrl.processSiteIndices method returns this key when 'partialUrlHash' matches on the queried site index records. Because the URL only partially matched, the friendly URL doesn't definitively correspond to a category or product.

#### 'checkProductSEOId'

String that matches the final portion of the path from 'rootUrl', which the method tries to match against the SEO ID field on ccrz\_E\_Product\_c records. For example, if 'rootUrl' is /Coffee/Medium/MediumRoast, the 'checkProductSEOId' portion is /MediumRoast. The ccrz.ccLogicSIMapUrl.processUrl method returns this key.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApiSiteIndex.MAPPED URL

String that specifies the product default URL that corresponds to the specified friendly URL.

```
SEE ALSO:
```

```
ccrz__E_Product__c
ccrz__E_ProductCategory__c
Salesforce Help Specify SEO Metadata for Products and Categories
Salesforce Help Serve Friendly URLs for Storefront Pages
```

## ccrz.ccLogicSIMapUrl.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIMapUrl.fetchProducts method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicSIRemove

Define the business logic for deleting site index records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiSiteIndex.remove

## Methods

#### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

#### fetchSiteIndices

Calls the ccrz.ccApiSiteIndex.fetch method to return the site index records that you want to delete.

### deleteSiteIndices

Executes the DML delete operation for the site index records.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicSIRemove.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiSiteIndex.remove method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicSIRemove class in the following order:

- 1. processInput
- 2. fetchSiteIndices
- 3. deleteSiteIndices
- 4. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.

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**Note:** This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicSIRemove.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicSIRemove.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### ccrz.ccApiSiteIndex.IDS

List<String> of site index IDs to remove.

## Outputs

This method returns the working Map<String, Object>, and sets the following keys:

## ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicSIRemove.prepReturn method removes this intermediate key from the working map.

## ccrz.ccLogicSIRemove.fetchSiteIndices

Calls the ccrz.ccApiSiteIndex.fetch method to return the site index records that you want to delete.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> fetchSiteIndices(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIRemove.processInput method. This method requires the following key in the working map:

### ccrz.ccApiSiteIndex.IDS

List<String> of site index IDs to fetch.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

## ccrz.ccApiSiteIndex.SITE\_INDICES

Map<String, ccrz E SiteIndex c> of site index records, keyed by ID, that match the query.

SEE ALSO:

ccrz.ccApiSiteIndex.fetch

# ccrz.ccLogicSIRemove.deleteSiteIndices

Executes the DML delete operation for the site index records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> deleteSiteIndices(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIRemove.fetchSiteIndices method.

This method requires the following key in the working map:

### ccrz.ccApiSiteIndex.SITE INDICES

Map<String, ccrz E SiteIndex c> of site index records, keyed by ID, to delete.

### Outputs

This method returns the working Map<String, Object>, and doesn't add or remove any keys.

SEE ALSO:

**Deleting Records** 

## ccrz.ccLogicSIRemove.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

### Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicSIRemove.deleteSiteIndices method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicStoredPaymentCreate

Define the business logic for creating a stored payment record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiStoredPayment.create

## Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### decorateStoredPayment

Evaluates the input fields and values and creates a corresponding ccrz E StoredPayment c record, ready to insert.

### insertStoredPayment

Executes the DML insert operation for the created stored payment record, which assigns an ID to the record.

### refetch

Calls the ccrz.ccApiStoredPayment.fetch method for fetching the stored payment record after it's created and inserted.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicStoredPaymentCreate.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiStoredPayment.create method.

### Logic Performed

This method invokes other methods of the ccrz.ccLoqicStoredPaymentCreate class in the following order:

- 1. processInput
- 2. decorateStoredPayment
- 3. insertStoredPayment
- 4. refetch
- 5. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



**Note**: This method doesn't catch any exceptions that occur as the method executes.

# ccrz.ccLogicStoredPaymentCreate.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicStoredPaymentCreate.process method.

This method checks that the input map specifies the following key, and returns a ccrz.ccApi.MissingInputException if the key is missing:

### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<Map<String, Object>>,where the Map<String, Object> represents the ccrz\_\_E\_StoredPayment\_\_c record to create. You can specify the following fields:

account	endDate	startDate
accountNumber	expMonth	storefront
accountType	expYear	subaccountNumber
displayName	paymentType	token
enabled	sequence	user



**Note:** By default, this method evaluates only one cart record at one time. Even though this key specifies a list, the method evaluates only the first item in the list.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccLogic.ORIGINAL INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicStoredPaymentCreate.prepReturn method removes this intermediate key from the working map.

SEE ALSO:

ccrz\_\_E\_StoredPayment\_\_c

## ccrz.ccLogicStoredPaymentCreate.decorateStoredPayment

Evaluates the input fields and values and creates a corresponding ccrz E StoredPayment c record, ready to insert.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> decorateStoredPayment(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicStoredPaymentCreate.processInput method.

This method requires the following key in the working map:

### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<Map<String, Object>>, where the Map<String, Object> represents the stored payment fields and values to set on a ccrz\_E\_StoredPayment\_c record.



**Note**: By default, this method evaluates only one cart record at one time. Even though this key specifies a list, the method evaluates only the first item in the list.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<ccrz\_E\_StoredPayment\_\_c> of the created stored payment record, ready to insert. If the input data didn't specify values for the following fields, this method sets default values:

Field	Source for Value
ccrzAccountc	ccrz.cc_CallContext.currAccountId
ccrzEffectiveAccountIDc	ccrz.cc_CallContext.effAccountId
ccrzOwnerIdc	The current user's ID
ccrzStorefrontc	ccrz.cc_CallContext.storefront
ccrzUserc	The current user's ID

SEE ALSO:

ccrz\_\_E\_StoredPayment\_\_c

# ccrz.ccLogicStoredPaymentCreate.insertStoredPayment

Executes the DML insert operation for the created stored payment record, which assigns an ID to the record.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> insertStoredPayment(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the

 $\verb|ccrz.ccLogicStoredPaymentCreate.decorateStoredPayment method|.$ 

This method requires the following key in the working map:

## ccrz.ccApiStoredPayment.STOREDPAYMENTSLIST

List<ccrz E StoredPayment c> of the created stored payment record, ready to insert.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### ccrz.ccApiStoredPayment.ID

ID of the new ccrz E StoredPayment c record.

SEE ALSO:

Inserting and Updating Records

# ccrz.ccLogicStoredPaymentCreate.refetch

Calls the ccrz.ccApiStoredPayment.fetch method for fetching the stored payment record after it's created and inserted.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> refetch(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicStoredPaymentCreate.insertStoredPayment method.

This method requires the following key in the working map:

### ccrz.ccApi.SIZING

Map<String, Object> that specifies options for how the method returns data. For this method to execute, this key must include ccrz.ccApi.SZ REFETCH => true:

```
ccrz.ccApi.SIZING => new Map<String, Object> {
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object> {
        ccrz.ccApi.SZ_REFETCH => true
    }
}
```



Note: This method respects any other data size keys specified in the original input's ccrz.ccApi.SIZING key.

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiStoredPayment.STOREDPAYMENTLIST

```
List<Map<String, Object>>, where the Map<String, Object> represents the created ccrz_E_StoredPayment_crecord, which the ccrz.ccApiStoredPayment.fetch method returns.
```

SEE ALSO:

ccrz.ccApiStoredPayment.fetch

## ccrz.ccLogicStoredPaymentCreate.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> prepReturn(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> from the ccrz.ccLogicStoredPaymentCreate.refetch method.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

ccrz.ccLogic.ORIGINAL\_INPUT

# ccrz.ccLogicStoredPaymentRemove

Define the business logic for deleting stored payment records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Global API Caller

ccrz.ccApiStoredPayment.remove

## Methods

### IN THIS SECTION:

#### process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

### processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

### fetchStoredPayment

Calls the ccrz.ccApiStoredPayment.fetch method to return the stored payment records that you want to delete.

### deleteStoredPayment

Executes the DML delete operation for the stored payment records.

### prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## ccrz.ccLogicStoredPaymentRemove.process

Overrides the base ccrz.ccLogic.process method, sets up an intermediate working map, and invokes the other methods for this class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> process(Map<String, Object>)

## Inputs (Required)

This method accepts a Map<String, Object>, which was the input data for the ccrz.ccApiStoredPayment.remove method.

## Logic Performed

This method invokes other methods of the ccrz.ccLogicStoredPaymentRemove class in the following order:

- 1. processInput
- 2. fetchStoredPayment
- 3. deleteStoredPayment
- 4. prepReturn

### Outputs

This method creates a Map<String, Object> that contains a copy of the original input data. This method passes this working map through the inner methods, and returns the final map after all inner methods have completed.



Note: This method doesn't catch any exceptions that occur as the method executes.

## ccrz.ccLogicStoredPaymentRemove.processInput

Parses the working map for keys that downstream methods in the process chain require, and verifies that appropriate values are set.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> processInput(Map<String, Object>)

## Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccLogicStoredPaymentRemove.process method.

This method checks that the input map specifies either of the following keys, and returns a ccrz.ccApi.MissingInputException if either key is missing:

### ccrz.ccApiStoredPayment.ID

String that specifies the ID of a stored payment to remove.

### ccrz.ccApiStoredPayment.IDS

List<String> that specifies the IDs of stored payments to remove.

### Outputs

This method returns the working Map<String, Object>, and sets the following keys:

### ccrz.ccApi.API VERSION

Integer that indicates which API version was used for the query.

### ccrz.ccApi.SUCCESS

Boolean that's assigned an intermediate value of false. Subsequent methods in the logic chain update this value to true when the logic completes successfully.

## ccrz.ccLogic.ORIGINAL\_INPUT

Map<String, Object> of the original, unmodified input data.

The ccrz.ccLogicStoredPaymentRemove.prepReturn method removes intermediate keys from the working map.

## ccrz.ccLogicStoredPaymentRemove.fetchStoredPayment

Calls the ccrz.ccApiStoredPayment.fetch method to return the stored payment records that you want to delete.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> fetchStoredPayment(Map<String, Object>)
```

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicStoredPaymentRemove.processInput method completes.

This method can accept either of the following parameters:

### ccrz.ccApiStoredPayment.ID

String that specifies the ID of a stored payment to remove.

### ccrz.ccApiStoredPayment.IDS

List<String> that specifies the IDs of stored payments to remove.

### Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApiStoredPayment.STOREDPAYMENTLIST

List<Map<String, Object>>,where each Map<String, Object> represents a ccrz\_E\_StoredPayment\_c record, which the ccrz.ccApiStoredPayment.fetch method returns.

### ccrz.ccApiSubscription.SUBSCRIPTIONS



Note: This output is returned only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), and only when the original input data specifies ccrz.ccApi.SZ ASSOC => true:

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_ASSOC => true
```

```
}
```

SEE ALSO:

ccrz.ccApiStoredPayment.fetch

## ccrz.ccLogicStoredPaymentRemove.deleteStoredPayment

Executes the DML delete operation for the stored payment records.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global virtual Map<String, Object> deleteStoredPayment(Map<String, Object>)
```

### Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicStoredPaymentRemove.fetchStoredPayment method completes.

This method requires the following key in the working map:

### ccrz.ccApiStoredPayment.STOREDPAYMENTLIST

```
List<ccrz_E_StoredPayment__c>, where each Map<String, Object> represents a ccrz_E_StoredPayment__c record to delete.
```

## Inputs (Optional)

If the working map includes the following key, this method evaluates it:

### ccrz.ccApiSubscription.SUBSCRIPTIONS

```
List<Map<String, Object>>, where each Map<String, Object> represents a ccrz_E_Subscription_c record associated with a returned ccrz_E StoredPayment c record.
```



Note: This input is evaluated only in B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), and only when the original input data specifies ccrz.ccApi.SZ ASSOC => true:

```
ccrz.ccApi.SIZING => new Map<String, Object>{
    ccrz.ccApiStoredPayment.ENTITYNAME => new Map<String, Object>{
        ccrz.ccApi.SZ_ASSOC => true
    }
}
```

## Outputs

This method returns the working Map<String, Object>, and sets the following key:

### ccrz.ccApi.SUCCESS

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

### SEE ALSO:

Extension Examples for Stored Payments Deleting Records

# ccrz.ccLogicStoredPaymentRemove.prepReturn

Overrides the base ccrz.ccLogic.prepReturn method, removes intermediate keys added to the working map by the preceding methods, and returns the final return data keys.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> prepReturn(Map<String, Object>)

## Inputs (Required)

This method accepts the working Map<String, Object> after the ccrz.ccLogicStoredPaymentRemove.deleteStoredPayment method completes.

### Outputs

This method removes the following intermediate key from the working map, and returns the final Map<String, Object>.

• ccrz.ccLogic.ORIGINAL INPUT

# ccrz.ccLogicUserCreateUser

Define the business logic for creating a user record from the fields and values that you specify. This class doesn't insert the user. Instead, the ccrz.ccLogicUserRegister logic service provider class invokes the Site.createExternalUser method.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicUserCreateUser



Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiUser.createUser ccrz.ccLogicUserRegister

# ccrz.ccLogicUserGetProfileData

Define the business logic for returning user, contact, and account record data for populating fields on a buyer's My Account page. This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicUserGetProfileData



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiUser.getProfileData

# ccrz.ccLogicUserLogin

Define the business logic for authenticating a user into a storefront.

This content is available only as an archived PDF from CloudCraze documentation:

### (PDF) ccrz.ccLogicUserLogin



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiUser.login

# ccrz.ccLogicUserRegister

Define the business logic for creating the user, contact, and account records for a buyer who's registering on your storefront.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicUserRegister



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiUser.registerUser

# ccrz.ccLogicUserUpdateProfileData

Define the business logic for updating user or contact records with new values that a buyer specifies on the My Account page.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicUserUpdateProfileData



Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiUser.updateProfileData

## ccrz.ccLogicWLAddTo

Define the business logic for adding products to a wish list.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLAddTo



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccLogicWLCreate

Define the business logic for creating a wish list.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLCreate



[1] Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccLogicWLCreateCart

Define the business logic for creating a cart record from an existing wish list.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLCreateCart



Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

# ccrz.ccLogicWLGetActive

Define the business logic for resolving which wish list is active for the current user, account (including effective accounts), storefront, and currency.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLGetActive



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SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccLogicWLRemove

Define the business logic for deleting a wish list.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLRemove



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

## ccrz.ccLogicWLRemoveFrom

Define the business logic for deleting wish list items from a specified wish list.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLRemoveFrom



Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

# ccrz.ccLogicWLSetActive

Define the business logic for setting a single wish list as the active wish list for a particular owner, and updating all the owner's other wish lists to inactive.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccLogicWLSetActive



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccApiWishList

Salesforce Help Allow a Buyer to Create a Wish List of Items for a Future Cart

# **REST API Endpoints for B2B Commerce for Visualforce**

B2B Commerce for Visualforce provides REST API endpoints for most of its global Apex API methods.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) B2B Commerce for Visualforce REST APIs



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

## Create Subscriber APIs for B2B Commerce for Visualforce

As part of your organization's customization and extension strategy, you can develop custom APIs that build on the default Apex classes and methods that B2B Commerce for Visualforce provides.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Creating Subscriber APIs



Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# Global Extension Point Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides several global extension points: Apex classes that are called from other code in the managed package and execute specific business logic for certain storefront functionality. For example, several extension point classes define behavior for loading data during checkout.



- Some extension point classes are deprecated, but are still available in the managed package for compatibility with legacy subscriber code.
- Sometimes, B2B Commerce for Visualforce updates extension point classes in a new version of the B2B Commerce managed package. In subscriber code, you reference the latest version of these classes that's available in your version of the managed package.

### IN THIS SECTION:

#### Extend a Global Extension Point Class

To implement custom business logic for your organization, you can write subscriber code that extends a default extension point class.

### ccrz.cc\_api\_CartExtension

Implement subscriber-defined behavior for processing and validating cart data. This class defines a mixture of legacy and current behavior, and the ccrz.ccLogicCartValidate logic service provider class replaces the legacy functionality from this class.

#### ccrz.cc\_api\_DeliveryDate

Implement subscriber-defined behavior for showing an account's available delivery dates during checkout. On the storefront, the Checkout page calls this extension point class before rendering shipping options.

### ccrz.cc\_api\_OutboundOrderCancel

Implement subscriber-defined behavior for determining whether a buyer can cancel an order from the My Orders section of the My Account page.

### ccrz.cc\_api\_PriceAdjustment

Implement subscriber-defined behavior for customizing price information on legacy versions of the Shopping Cart page or Checkout page.

### ccrz.cc\_api\_ProductQuantityRule

Define the quantity increments that a buyer can only use when adding or updating cart items. For example, maybe you want to require buyers to purchase a certain product only in increments of five.

### ccrz.cc\_api\_ShippingAndHandling

Implement subscriber-defined behavior for populating the available shipping methods during checkout. On the storefront, the Checkout page calls this extension point class before rendering shipping options.

### ccrz.cc hk Catalog

Return info from your product catalog used for populating autocomplete suggestions on the storefront.

### ccrz.cc\_hk\_Category (Deprecated)

Dynamically construct the category tree for a storefront by querying cached category data.

### ccrz.cc hk DynamicTheme

Load a unique storefront theme based on the current buyer's account group.

### ccrz.cc\_hk\_EffectiveAccount

Return and filter effective accounts that a buyer can access other than the buyer's default assigned account. Update the active shopping cart for a selected effective account.

### ccrz.cc\_hk\_Invoice

Create and return data for an invoice after a buyer completes a storefront purchase, and process payments associated with invoices.

#### ccrz.cc hk Menu

Dynamically construct the menu hierarchy for a storefront's navigation bar by querying cached menu data.

### ccrz.cc\_hk\_Order

Implement subscriber-defined behavior for placing an order, reordering, and showing order history. This class defines a mixture of legacy and current behavior, and the order logic service provider classes replace the legacy functionality from this class.

### ccrz.cc hk Payment

Evaluate and maintain stored payments and transaction payments.

### ccrz.cc\_hk\_Pricing

Implement subscriber-defined behavior for pricing products, including entitlements, contracts, and other price rules. This class defines a legacy behavior. For new implements, extend the ccrz.ccLogicProductPricing logic service provider instead.

### ccrz.cc hk SSO

Implement subscriber-defined behavior for overriding default storefront URLs, such as to add a single sign-on (SSO) service for logging in.

### ccrz.cc\_hk\_Subscriptions

Implement subscriber-defined behavior for overriding the default business logic for processing subscriptions and creating installment orders.

#### ccrz.cc hk TaxCalculation

Calculate the tax amount on a particular cart from the Order Review section of the storefront's Checkout page. The calculated tax is based on the taxable products included in the cart and the cart's shipping address.

### ccrz.cc\_hk\_UserInterface

Specify the JavaScript and CSS libraries referenced in each storefront page, including standard includes, proprietary libraries, and theme-specific files in a static resource.

## Extend a Global Extension Point Class

To implement custom business logic for your organization, you can write subscriber code that extends a default extension point class. For example, let's say that you want to extend the default behavior for returning a user's available effective accounts.

1. In your org, create an Apex class for your customization.

```
global with sharing class cc_example_hk_EffectiveAccount extends
ccrz.cc_hk_EffectiveAccount { }
```



#### Tip:

- We recommend that you define and adopt a consistent naming convention for your organization's subscriber code. Include
  a common prefix, your project's name, and the name of the default class, such as
  cc projectName defaultClassName.
- Specify an appropriate sharing keyword, depending on the availability and permissions that you want the class to have.
- Use the extends keyword since you're extending a default extension point class.
- 2. Inside the class definition, override the specific method of the ccrz.cc\_hk\_EffectiveAccount extension point class whose behavior you want to customize.

Let's say that you want to override the fetchAccounts method, which returns the list of accounts that a buyer can access.

```
global with sharing class cc_example_hk_EffectiveAccount extends
ccrz.cc_hk_EffectiveAccount {
    global override Map<String, Object> fetchAccounts(Map<String, Object> inputData) {
    }
}
```

Because each extension point method accepts a Map<String, Object>, your method override must also accept a Map<String, Object> for input data.

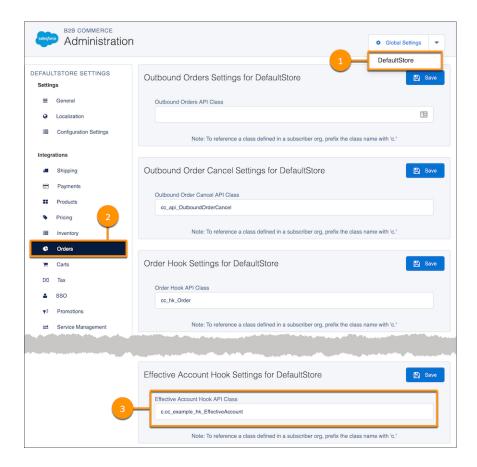
**3.** Inside your method override, add your custom business logic. Make sure that you include a return statement at the end of your method override.

```
global with sharing class cc_example_hk_EffectiveAccount extends
ccrz.cc_hk_EffectiveAccount {
    global virtual override Map<String, Object> fetchAccounts(Map<String, Object>
    inputData) {
        // Your custom logic
        return inputData;
    }
}
```

- Tip:
  - Since you're overriding a virtual method, you can invoke the super keyword in your custom logic.
  - To help you understand what data a method expects and returns by default, check out the reference for that particular method. During development, you can also serialize the default input and output data within your method override. This step can help you make sure that your extension code handles all expected inputs and outputs correctly so that your code executes successfully.

```
global with sharing class cc_example_hk_EffectiveAccount extends
ccrz.cc_hk_EffectiveAccount {
    global virtual override Map<String, Object> fetchAccounts(Map<String, Object>
    inputData) {
        System.debug('-- inputData ' + JSON.serialize(inputData));
        Map<String,Object> returnData = super.fetchAccounts(inputData);
        System.debug('-- returnData ' + JSON.serialize(returnData));
        return returnData;
    }
}
```

- **4.** Save your class, and resolve any compilation errors.
- **5.** Update your storefront settings so that B2B Commerce for Visualforce references your override instead of the default extension point class.



- **a.** On the CC Admin tab in your org, select your storefront (1).
- **b.** In the Storefront Settings menu, scroll the section under Integrations that corresponds to the extension point that you're customizing (2). For example, for the ccrz.cc\_hk\_EffectiveAccount extension point class, select **Orders** from the Storefront Settings menu.
  - Tip: For help with locating which section of your storefront settings contains the extension point you're modifying, see the reference for that extension point class.
- c. Find the settings for the extension point you're modifying, such as Effective Account Hook API Class (3).
- d. Enter the name of your custom class, prefixed with c., such as c.cc\_example\_hk\_EffectiveAccount, and click Save.

# ccrz.cc\_api\_CartExtension

Implement subscriber-defined behavior for processing and validating cart data. This class defines a mixture of legacy and current behavior, and the ccrz.ccLogicCartValidate logic service provider class replaces the legacy functionality from this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

In these versions of the managed package, the ccrz.ccLogicCartValidate class provides methods that replace some methods of this extension point class:

Legacy Method	Replacement Method
ccrz.cc_api_CartExtension.allowCheckout	ccrz.ccLogicCartValidate.processValidate
ccrz.cc_api_CartExtension.getCartMessages	ccrz.ccLogicCartValidate.processValidate
ccrz.cc_api_CartExtension.preprocess	None. This functionality remains current in the managed package.
ccrz.cc_api_CartExtension.prepareForSave	None. This functionality remains current in the managed package.
getInstance	None. This functionality remains current in the managed package.

To continue referencing the legacy <code>ccrz.cc\_api\_CartExtension.allowCheckout</code> or <code>ccrz.cc\_api\_CartExtension.getCartMessages</code> methods when loading cart data on your storefront's Shopping Cart page, override the default <code>ccrz.ccLogicCartValidate.processValidate</code> method. In the subscriber code for your override, call these legacy methods. The managed package provides an <code>example extension</code>, <code>ccrz.ccLogicCartValidate7Hk</code>, that you can use as a starting point for overriding <code>ccrz.ccLogicCartValidate.processValidate</code>.

() Important: In general, we recommend that new solutions extend methods of ccrz.ccLogicCartValidate instead of extending methods of the ccrz.cc\_api CartExtension class.

## Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Carts** in the Integrations section of the Storefront Settings menu (2). Update the Cart Extension API Class field (3) with your custom class name, prefixed with c., such as c.cc example api CartExtension.



?

Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

### Methods

### IN THIS SECTION:

#### allowCheckout

Determines whether the current user can check out from the Shopping Cart page.

#### getCartMessages

Provides an extension point for showing errors, warnings, or informational messages on the Shopping Cart page.

#### preprocess

Provides an extension point for evaluating any rules, requirements, or considerations that you want to enforce before the Shopping Cart page loads or updates cart data. For example, maybe you want to automatically add or remove items from the cart based on the cart's current contents.

### prepareForSave

Provides an extension point for saving and processing custom data when the buyer clicks Update or Checkout on the Shopping Cart page. For example, override this method to save data from custom fields or objects, apply surcharges, or trigger other actions or services.

### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_CartExtension class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# ccrz.cc\_api\_CartExtension.allowCheckout

Determines whether the current user can check out from the Shopping Cart page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Important:

- This method defines legacy behavior, and by default the managed package instead references the
   ccrz.ccLogicCartValidate.processValidate method. To reference this method in your solution, override
   the default ccrz.ccLogicCartValidate.processValidate method so that it calls this method. The managed
   package provides an example extension, ccrz.ccLogicCartValidate7Hk, that you can use as a starting point for
   overriding ccrz.ccLogicCartValidate.processValidate.
- When you use ccrz.ccLogicCartValidate7Hk or your own extension, the Shopping Cart page calls this method when the page first loads. The page also calls this method when a buyer clicks Update or Checkout.

## Signature

global virtual Boolean allowCheckout(Map<String, Object>)

### Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api CartExtension.PARAM CARTBEAN

ccrz.cc bean CartSummary that represents the current ccrz E Cart c record.

#### ccrz.cc api CartExtension.PARAM STOREFRONT

String that specifies the name of a storefront.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.cc api CartExtension.PARAM USERID

ID of the user assigned to the cart:

- When an authenticated buyer is logged in, this value is the ID of their user record.
- When a customer service representative (CSR) is logged in on behalf of a buyer, this value is the buyer's user ID.

### Outputs

Boolean

Value	Usage
true	The current user is allowed to check out.
false	The current user isn't allowed to check out.

### SEE ALSO:

ccrz.ccLogicCartValidate.processValidate
ccrz.ccLogicCartValidate7Hk Example Extension Class
ccrz.cc\_bean\_CartSummary

## ccrz.cc\_api\_CartExtension.getCartMessages

Provides an extension point for showing errors, warnings, or informational messages on the Shopping Cart page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Important:

- This method defines legacy behavior, and by default the managed package instead references the ccrz.ccLogicCartValidate.processValidate method. To reference this method in your solution, override the default ccrz.ccLogicCartValidate.processValidate method so that it calls this method. The managed package provides an example extension, ccrz.ccLogicCartValidate7Hk, that you can use as a starting point for overriding ccrz.ccLogicCartValidate.processValidate.
- When you use ccrz.ccLogicCartValidate7Hk or your own extension, the Shopping Cart page calls this method when the page first loads. The page also calls this method when a buyer clicks Update or Checkout.

## Signature

global virtual List<ccrz.cc bean Message> getCartMessages(Map<String, Object>)

### Inputs (Optional)

Map<String, Object> that can include the following keys:

### ccrz.cc\_api\_CartExtension.PARAM\_CARTBEAN

ccrz.cc bean CartSummary that represents the current ccrz E Cart c record.

#### ccrz.cc api CartExtension.PARAM STOREFRONT

String that specifies the name of a storefront.



**Note**: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.cc api CartExtension.PARAM USERID

ID of the user assigned to the cart:

- When an authenticated buyer is logged in, this value is the ID of their user record.
- When a customer service representative (CSR) is logged in on behalf of a buyer, this value is the buyer's user ID.

## Outputs

List<ccrz.cc\_bean\_Message> of messages to show to the buyer.

### SEE ALSO:

```
ccrz.ccLogicCartValidate.processValidate
ccrz.ccLogicCartValidate7Hk Example Extension Class
ccrz.cc_bean_CartSummary
ccrz.cc_bean_Message
```

## ccrz.cc\_api\_CartExtension.preprocess

Provides an extension point for evaluating any rules, requirements, or considerations that you want to enforce before the Shopping Cart page loads or updates cart data. For example, maybe you want to automatically add or remove items from the cart based on the cart's current contents.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: This method defines current behavior, and isn't replaced by any ccrz.ccLogicCartValidate method. When you use the ccrz.ccLogicCartValidate7Hk example extension or your own extension, the Shopping Cart page still calls this method when the page first loads. The page also calls this method when a buyer clicks Update or Checkout.

## Signature

```
global virtual Map<String, Object> preprocess(Map<String, Object>)
```

## Inputs (Optional)

Map<String, Object> that can include the following keys:

### ccrz.cc api CartExtension.PARAM CART

ccrz E Cart c that represents the cart to load or update.

### ccrz.cc api CartExtension.PARAM CARTITEMS

List<ccrz E CartItem c that represents the items to load or update in the cart.

### ccrz.cc api CartExtension.PARAM STOREFRONT

String that specifies the name of a storefront.

Mote: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.cc api CartExtension.PARAM USERID

ID of the user assigned to the cart:

- When an authenticated buyer is logged in, this value is the ID of their user record.
- When a customer service representative (CSR) is logged in on behalf of a buyer, this value is the buyer's user ID.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc api CartExtension.PARAM CART

ccrz E Cart c that represents the loaded or updated cart.

### ccrz.cc api CartExtension.PARAM CARTITEMS

List<ccrz\_E\_CartItem\_c that represents the loaded or updated cart items. This list is the same list that you specified in the input map, but updated with any changes that the method completed. For example:

- If you increment the quantity for some of the passed-in cart items, return the updated cart items in this key.
- If you add cart items within this method, we recommend that you include the added items in this key. However, the method doesn't strictly require that you do so.
- ① Tip:
  - To modify the cart or cart items within this method, use Data Manipulation Language (DML) operations.

#### SEE ALSO:

```
ccrz__E_Cart__c
ccrz__E_CartItem__c
ccrz.ccApiCart.price
ccrz.ccLogicCartValidate7Hk Example Extension Class
```

## ccrz.cc\_api\_CartExtension.prepareForSave

Provides an extension point for saving and processing custom data when the buyer clicks Update or Checkout on the Shopping Cart page. For example, override this method to save data from custom fields or objects, apply surcharges, or trigger other actions or services.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** This method defines current behavior. However, for new implementations, we recommend that you override the ccrz.ccLogicCartSave.updateBeforeSave method instead.

## Signature

```
global virtual Map<String, Object> prepareForSave(Map<String, Object>)
```

### Inputs (Optional)

Map<String, Object> that can include the following keys:

```
ccrz.cc_api_CartExtension.PARAM_CART
```

ccrz E Cart c that represents the cart to update.

### ccrz.cc api CartExtension.PARAM CARTBEAN

ccrz.cc bean CartSummary that represents the current ccrz E Cart c record.

### ccrz.cc api CartExtension.PARAM CARTITEMS

List<ccrz E CartItem c that represents the items to update in the cart.

#### ccrz.cc api CartExtension.PARAM STOREFRONT

String that specifies the name of a storefront.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### ccrz.cc\_api\_CartExtension.PARAM\_USERID

ID of the user assigned to the cart:

- When an authenticated buyer is logged in, this value is the ID of their user record.
- When a customer service representative (CSR) is logged in on behalf of a buyer, this value is the buyer's user ID.

## Outputs

None

```
SEE ALSO:
```

```
ccrz_ccLogicCartSave.updateBeforeSave
ccrz_E_Cart__c
ccrz_E_CartItem__c
```

## ccrz.cc\_api\_CartExtension.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_CartExtension class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global static ccrz.cc_api_cartExtension getInstance(Map<String, Object>)
```

## Inputs (Optional)

Map<String, Object> that can include the following keys:

### ccrz.cc\_api\_CartExtension.PARAM\_STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### Outputs

This method returns an instance of ccrz.cc api CartExtension, or your custom extension point class.

# ccrz.cc\_api\_DeliveryDate

Implement subscriber-defined behavior for showing an account's available delivery dates during checkout. On the storefront, the Checkout page calls this extension point class before rendering shipping options.

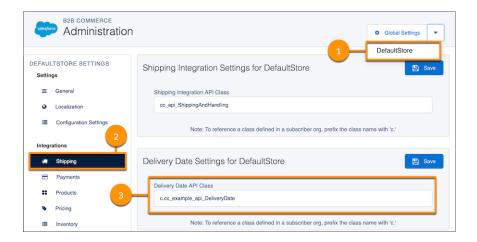
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Shipping** in the Integrations section of the Storefront Settings menu (2). Update the Delivery Date API Class field (3) with your custom class name, prefixed with c., such as c.cc example api DeliveryDate.





Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

# Front-End Input

On the storefront, a buyer selects dates from a date picker widget, which by default uses the bootstrap-datepicker.js library, referenced from the  $ccrz.cc_hk_UserInterface$  extension point class. To define rules for which dates are available for a buyer to select from the widget, use the getDeliveryDates method of this class.



Note: This library replaced the zebra datepicker.js in B2B Commerce for Visualforce Summer '18 (version 4.9). If you've migrated from a version that's older than Summer '18, update the Date\_Format page label to use the bootstrap-datepicker.js standard date format.

## Methods

#### IN THIS SECTION:

#### getDeliveryDates

Returns available delivery dates for the date picker widget on the storefront. To specify your solution's rules for available delivery dates, override this method in your subscriber code.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc api DeliveryDate class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### SEE ALSO:

ccrz.cc\_hk\_UserInterface

Salesforce Help Set Up the Requested Delivery Date Picker on the Checkout Page

Salesforce Help Default JavaScript Libraries for Storefront Pages

bootstrap-datepicker Documentation

Zebra Datepicker Documentation

# ccrz.cc\_api\_DeliveryDate.getDeliveryDates

Returns available delivery dates for the date picker widget on the storefront. To specify your solution's rules for available delivery dates, override this method in your subscriber code.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

qlobal virtual Map<String, Object> getDeliveryDates(ID, String, ccrz.cc\_bean\_MockContactAddress)

## Inputs (Required)

Map<String, Object> that can include the following keys:

### ccrz.cc api DeliveryDate.ACCOUNT ID

ID of the account record used for checkout.

#### ccrz.cc api DeliveryDate.CART ID

String that specifies the ID of the cart record used for checkout.

#### ccrz.cc api DeliveryDate.SHIP ADDRESS

ccrz.cc bean MockContactAddress that represents the shipping address selected for checkout.

#### **Outputs**

Map<String, Object> that can include the following keys:



🕜 Note: In B2B Commerce for Visualforce Summer '18 (version 4.9), the bootstrap-datepicker.js library replaced the zebra datepicker.js library for rendering the date picker widget on the storefront. The return data keys of this method still specify delivery date options that correspond to zebra datepicker.js configuration options. The cc CheckoutShippingRD.component Visualforce component in the managed package translates the data that this method returns into a format that bootstrap-datepicker.js can use.

#### ccrz.cc api DeliveryDate.API ERROR

Boolean

Value	Usage
true	An error occurred when constructing the delivery date data. When this key is true and the Validate Delivery Date setting of the Shipping Options storefront configuration is also true, the checkout flow doesn't continue.
false (default)	The method returned the delivery date data successfully.

#### ccrz.cc api DeliveryDate.DURATION

Integer that specifies the number of days, after the offset value, when dates are no longer selectable in the date picker widget. For example, a duration value of 365 specifies that the final selectable date is one year after the first selectable date.

#### ccrz.cc api DeliveryDate.EXCLUDED DATES

List<String> of values for the disabled dates parameter of the zebra datepicker.js library. This list specifies dates that you want to disable in the date picker widget. Each date uses the format dd MM yyyy, such as 31 12 2020.



#### Note:

- The cc CheckoutShippingRD.component Visualforce component converts these values to the mm/dd/yyyy format, such as 12/31/2020, and sets the corresponding datesDisabled option of the bootstrap-datepicker.js library.
- You can provide either ccrz.cc api DeliveryDate.EXCLUDED DATES or ccrz.cc api DeliveryDate.INCLUDED DATES, but not both.

#### ccrz.cc api DeliveryDate.INCLUDED DATES

List<String> of values for the enabled dates parameter of the zebra datepicker.js library. This list specifies dates that you want to enable in the date picker widget. Each date uses the format dd MM yyyy, such as 31 12 2020.

## Mote:

- The cc\_CheckoutShippingRD.component Visualforce component converts these values to the *mm/dd/yyyy* format, such as 12/31/2020. Because the bootstrap-datepicker.js library doesn't provide a corresponding option, cc\_CheckoutShippingRD.component includes a workaround to set these values.
- You can provide either ccrz.cc\_api\_DeliveryDate.EXCLUDED\_DATES or ccrz.cc api DeliveryDate.INCLUDED DATES, but not both.

#### ccrz.cc api DeliveryDate.MESSAGES

List<ccrz.cc bean Message> of messages to show to the buyer.

#### ccrz.cc\_api\_DeliveryDate.OFFSET

Integer that specifies the number of days from today until the first selectable date in the date picker widget. For example, an offset value of 1 specifies that the first selectable date is tomorrow.

The managed package also defines the following keys, but doesn't use them for returning any data:

- ccrz.cc api DeliveryDate.DAYS FILTER
- ccrz.cc api DeliveryDate.MAX DATE
- ccrz.cc api DeliveryDate.MIN DATE

## Example: Examples

Allow a buyer to select only Monday, Wednesday, or Friday for a delivery date. The range begins tomorrow, and is available for one year.

```
global class cc_example_api_DeliveryDateMWF extends ccrz.cc_api_DeliveryDate{
    global override Map<String, Object> getDeliveryDates(Map<String, Object> deliveryDatesInputData) {
    return new Map<String, Object> {
        ccrz.cc_api_DeliveryDate.OFFSET => 1,
        ccrz.cc_api_DeliveryDate.DURATION => 365,
        ccrz.cc_api_DeliveryDate.INCLUDED_DATES => new List<String>{'* * * 1,3,5'}
    }
};
}
```

Tip: The value '\* \* \* 1,3,5' uses syntax for the enabled\_dates parameter of the zebra\_datepicker.js library. For more examples and other supported syntax, see the zebra\_datepicker.js documentation.

Allow a buyer to select any weekday for a delivery date. The range begins the day after tomorrow, and is available for 90 days.

```
global class cc_example_api_DeliveryDateWeekdays extends ccrz.cc_apiDeliveryDate{
    global override Map<String, Object> getDeliveryDates(Map<String, Object>
    deliveryDatesInputData) {
        return new Map<String, Object> {
            ccrz.cc_api_DeliveryDate.OFFSET => 2,
            ccrz.cc_api_DeliveryDate.DURATION => 90,
            ccrz.cc_api_DeliveryDate.EXCLUDED_DATES => new List<String>{'* * * 0,6'}
        };
    }
}
```



🁔 Tip: The value '\* \* \* 0,6' uses syntax for the disabled\_dates parameter of the zebra\_datepicker.js library. The cc\_CheckoutShippingRD.component Visualforce component converts these values for the corresponding datesDisabled option of the bootstrap-datepicker.js library.

#### SEE ALSO:

ccrz.ccApiCart.getDeliveryDates

ccrz.ccLogicCartGetDeliveryDates

Salesforce Help Set Up the Requested Delivery Date Picker on the Checkout Page

Salesforce Help List of Configuration Modules and Settings

Salesforce Help Default JavaScript Libraries for Storefront Pages

bootstrap-datepicker Documentation

Zebra Datepicker Documentation

## ccrz.cc\_api\_DeliveryDate.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc api DeliveryDate class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global static ccrz.cc api DeliveryDate getInstance(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api DeliveryDate.STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc\_api\_DeliveryDate, or your custom extension point class.

# ccrz.cc\_api\_OutboundOrderCancel

Implement subscriber-defined behavior for determining whether a buyer can cancel an order from the My Orders section of the My Account page.

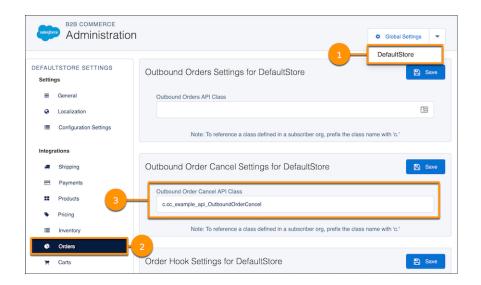
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Orders** in the Integrations section of the Storefront Settings menu (2). Update the Outbound Order Cancel API Class field (3) with your custom class name, prefixed with c., such as c.cc example api OutboundOrderCancel.



Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

# Front-End Input

On the storefront, a buyer clicks Cancel on an order from the My Orders section of the My Account page. For help with configuring the shipping options on the Checkout page, see

https://help.salesforce.com/articleView?id=b2b\_commerce\_page\_my\_account\_my\_orders.htm.

## Methods



🕜 Note: In addition to the following methods, this class defines another method, cancelOrder, that is deprecated. Instead, use the ccrz.ccApiOrder.cancel global API method.

#### IN THIS SECTION:

eligibleForCancellation

Determines whether a buyer can cancel an order.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc api OutboundOrderCancel class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### SEE ALSO:

ccrz.ccApiOrder.canCancel

ccrz.ccApiOrder.cancel

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.cc\_api\_OutboundOrderCancel.eligibleForCancellation

Determines whether a buyer can cancel an order.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global virtual Boolean eligibleForCancellation(Map<String, Object>)

## Inputs (Required)

```
Map<String, Object> that can include the following keys:
```

## Outputs

#### Boolean

Value	Usage
true	The buyer can cancel the order. By default, this method returns true when the order's ccrzOrderStatusc field specifies one of the following values:
	Cancelled
	Pending Cancel
	• Shipped
false	The buyer can't cancel the order.

SEE ALSO:

ccrz\_\_E\_Order\_\_c ccrz.cc\_bean\_MockOrder

# $ccrz.cc\_api\_OutboundOrderCancel.getInstance$

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_OutboundOrderCancel class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global static ccrz.cc api OutboundOrderCancel getInstance(Map<String, Object>)

### Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api OutboundOrderCancel.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

### Outputs

This method returns an instance of ccrz.cc api OutboundOrderCancel, or your custom extension point class.

# ccrz.cc\_api\_PriceAdjustment

Implement subscriber-defined behavior for customizing price information on legacy versions of the Shopping Cart page or Checkout page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

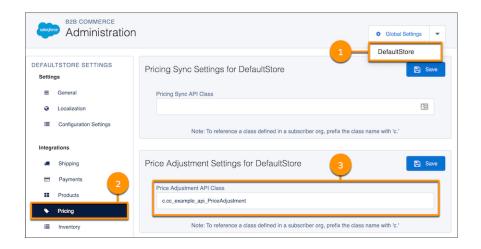
This class is compatible only with the following storefront page versions:

- Shopping Cart page version 1.0. Version 2.0 was introduced in B2B Commerce for Visualforce Spring '19 (version 4.10), but version 1.0 remains available for compatibility.
- Version 1.0 of the Order Review section of the Checkout page. Version 2.0 was introduced in B2B Commerce for Visualforce Summer '19 (version 4.11), but version 1.0 remains available for compatibility.

When you use version 2.0 of the Shopping Cart page or Order Review section of the Checkout page, extend the ccrz.ccLogicCartPrice logic service provider class instead.

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Pricing** in the Integrations section of the Storefront Settings menu (2). Update the Price Adjustment API Class field (3) with your custom class name, prefixed with c., such as c.cc\_example api\_PriceAdjustment.



Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

# Front-End Input

On the storefront, the methods of this class are called:

- When the Shopping Cart page version 1.0 first loads, and whenever the cart is updated.
- Before version 1.0 of the Order Review section of the Checkout page renders.

### Methods

#### IN THIS SECTION:

#### computePricingCart

Evaluates a ccrz.cc\_bean\_CartSummary input object when the Shopping Cart page loads, and sets the bean's price information. This method executes after the standard price logic.

#### computePricingReview

Evaluates a cart when the Order Review section of the Checkout page loads, and returns any applicable error messages to show to the buyer.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_PriceAdjustment class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### SEE ALSO:

### ccrz.ccLogicCartPrice

Salesforce Help Show Fees and Charges in the Order Review Section of the Checkout Page

## ccrz.cc\_api\_PriceAdjustment.computePricingCart

Evaluates a ccrz.cc\_bean\_CartSummary input object when the Shopping Cart page loads, and sets the bean's price information. This method executes after the standard price logic.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

() Important: This method defines legacy behavior, and by default the managed package instead references the methods of the ccrz.ccLogicCartPrice class.

#### Signature

global virtual Map<String, Object> computePricingCart(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api PriceAdjustment.PARAM CARTBEAN

ccrz.cc bean CartSummary that represents the current ccrz E Cart c record.

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#### ccrz.cc api PriceAdjustment.PARAM CURRENCYCODE

String that specifies an ISO 4217 currency code, such as USD or JPY.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.userCurrency.

#### ccrz.cc\_api\_PriceAdjustment.PARAM\_STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.cc api PriceAdjustment.PARAM USERID

ID of the user assigned to the cart:

- When an authenticated buyer is logged in, this value is the ID of their user record.
- When a customer service representative (CSR) is logged in on behalf of a buyer, this value is the buyer's user ID.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc api PriceAdjustment.PARAM CARTBEAN



#### Example: Example

Apply a discount to a cart associated with a particular account, based on a value specified in a custom field, Account Discount, on the standard account object.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) subsc\_cc\_hk\_PricingCartAcctDisc



[] Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.cc\_bean\_CartSummary ccrz.ccLogicCartPrice

# ccrz.cc\_api\_PriceAdjustment.computePricingReview

Evaluates a cart when the Order Review section of the Checkout page loads, and returns any applicable error messages to show to the buyer.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

() Important: This method defines legacy behavior, and by default the managed package instead references the methods of the ccrz.ccLogicCartPrice class.

### Signature

global virtual Map<String, Object> computePricingReview(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api PriceAdjustment.PARAM CART

ccrz\_E\_Cart\_\_c to evaluate.

Warning: Don't execute the DML update statement on this record within this method. The record is updated after the method completes.

#### ccrz.cc api PriceAdjustment.PARAM CARTITEMS

List<ccrz E CartItem c> of the cart items included in the cart.

Warning: Don't execute the DML update statement on these records within this method. These records are updated after the method completes.

#### ccrz.cc api PriceAdjustment.PARAM CURRENCYCODE

String that specifies an ISO 4217 currency code, such as USD or JPY.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.userCurrency.

#### ccrz.cc api PriceAdjustment.PARAM STOREFRONT

String that specifies the name of a storefront.

Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### ccrz.cc api PriceAdjustment.PARAM USERID

ID of the user assigned to the cart:

- When an authenticated buyer is logged in, this value is the ID of their user record.
- When a customer service representative (CSR) is logged in on behalf of a buyer, this value is the buyer's user ID.

#### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.cc api PriceAdjustment.PARAM EXTRINSIC

Map<String, String> that contains custom cart data to include in the Handlebars.js template that renders the Order Review section of the Checkout page. This information has the extrinsic attribute set.

#### ccrz.cc\_excn\_BeanMessagesException

ccrz.cc\_bean\_Message or List<ccrz.cc\_bean\_Message> that describe errors to show to the buyer on the Checkout
page.

SEE ALSO:

ccrz.ccLogicCartPrice

Inserting and Updating Records

## ccrz.cc\_api\_PriceAdjustment.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_PriceAdjustment class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Signature**

global static ccrz.cc api PriceAdjustment getInstance(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc\_api\_PriceAdjustment.PARAM\_STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc api PriceAdjustment, or your custom extension point class.

# ccrz.cc\_api\_ProductQuantityRule

Define the quantity increments that a buyer can only use when adding or updating cart items. For example, maybe you want to require buyers to purchase a certain product only in increments of five.

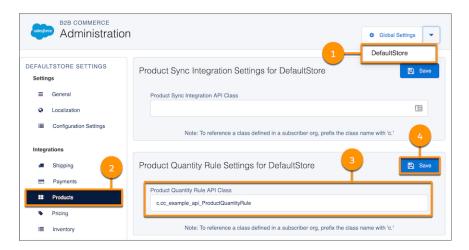
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Products** in the Integrations section of the Storefront Settings menu (2). Update the Product Quantity Rule API Class field (3) with your custom class name, prefixed with c., such as c.cc example api DeliveryDate. Then, click **Save** (4).



- Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.
- Tip: The managed package includes some example extensions of the default ccrz.cc\_api\_ProductQuantityRule class:
  - fiveAndTen, which specifies an Increment value of 5 and a Skip Increment value of 10 for all products. To enable this class in your storefront for a demo, enter cc\_api\_ProductQuantityRule:fiveAndTen for Product Quantity Rule API Class in your storefront settings.
  - single, which specifies an Increment value of 1 but no Skip Increment value. To enable this class in your storefront for a demo, enter cc\_api\_ProductQuantityRule:single for Product Quantity Rule API Class in your storefront settings. This class is available only with B2B Commerce for Visualforce Spring '20 (version 4.12) patch 3.147.8 or later.

# Front-End Input

When you extend this class to define quantity rules, the storefront provides increment controls on the Shopping Cart page. The storefront also shows increment controls for the Add to Cart or Add to Wish List button on other pages, such as the Product Detail page.

The Mini Cart and Quick Order widgets can also automatically change quantities to allowed increments, or show an error for an invalid quantity. For help with configuring the widget behavior, see the following help topics:

- Show the Mini Cart Widget
- Show the Quick Order Widget

### Methods

#### IN THIS SECTION:

#### getRules

Returns quantity increment rules for a set of product SKUs.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_ProductQuantityRule class. If you create subscriber code that extends the default class, this method returns an instance of your custom class. This method is a global static utility function and doesn't support overrides.

SEE ALSO:

Salesforce Help Enforce Quantity Rules When a Buyer Adds Products to a Cart or Wish List

# ccrz.cc\_api\_ProductQuantityRule.getRules

Returns quantity increment rules for a set of product SKUs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Map<String, Object>> getRules(List<String> SKUs)

## Inputs (Optional)

#### SKUs

List<String> of specific product SKUs to define quantity increments for.

## Outputs

Map<String, Map<String, Object>>, keyed by SKU, where each Map<String, Object> can include the following keys:

#### ccrz.cc api ProductQuantityRule.PARM INCREMENT

Integer that specifies the increment value that a buyer can increase or decrease a product's quantity by, such as 5. On the storefront, this value determines:

- The quantity that the Increment buttons apply.
- The quantity that the Mini Cart or Quick Order widget require or automatically set, depending on how you configure the widgets.

#### ccrz.cc api ProductQuantityRule.PARM SKIP INCREMENT

Integer that specifies a larger increment value that a buyer can increase or decrease a product's quantity by, such as 10. On the storefront, this value determines the quantity that the Skip Increment buttons apply.

#### ccrz.cc api ProductQuantityRule.PARM MISC DETAILS

String returned to the storefront, which you can customize and show to the buyer with some extra front-end customization.

- Tip: For more information about Increment and Skip Increment buttons on the storefront, see Enforce Quantity Rules When a Buyer Adds Products to a Cart or Wish List.
- Example: Example: Five and Ten

The managed package includes an example extension of the default ccrz.cc\_api\_ProductQuantityRule class. The extension, named fiveAndTen, specifies an Increment value of 5 and a Skip Increment value of 10 for all products. This class also returns the storefront name for ccrz.cc api ProductQuantityRule.PARM MISC DETAILS.

```
global class fiveAndTen extends ccrz.cc api ProductQuantityRule {
   private Map<String, Object> storefrontSettings;
   global fiveAndTen{}
   global override void setStorefrontSettings(New Map<String, Object> settings) {
        this.storeSettings = settings;
   qlobal override Map<String, Map<String, Object>> getRules(List<String> skus) {
        final String storefrontName = (String)storeSettings.get('Name');
       Map<String, Map<String, Object>> rulesOutputData = new Map<String, Map<String,
Object>>;
        for (String sku:skus) {
            rulesOutputData.put(sku, new Map<String, Object>{
                PARM INCREMENT => 5,
                PARM SKIP INCREMENT=>10,
                PARM MISC DETAILS=>'Storefront: ' + storefrontName}
             );
       return rulesOutputData;
    }
```

# Example: Example: Single

In B2B Commerce for Visualforce Spring '20 (version 4.12) patch 3.147.8 or later, the managed package includes another example extension of the default ccrz.cc\_api\_ProductQuantityRule class. The extension, named single, Increment value of 1 but no Skip Increment value.

```
public class single extends cc api ProductQuantityRule {
   private Map<String, Object> storefrontSettings;
    public single(){}
   public override void setStorefrontSettings(Map<String,Object> settings) {
        this.storeSettings = settings;
    public override Map<String, Map<String, Object>> getRules(List<String> skus) {
        final String storefrontName = (String)storeSettings.get('Name');
        Map<String, Map<String, Object>> rulesOutputData = new
Map<String, Map<String, Object>>();
        for(String sku:skus){
            rulesOutputData.put(sku, new Map<String,Object>{
                PARM INCREMENT=>1,
                PARM MISC DETAILS=>'Storefront: ' + storefrontName}
            );
       return rulesOutputData;
    }
```

## Example: Example: Reference Custom Fields on a Product

A subscriber has extended the ccrz\_E\_Product\_c object to add custom fields that specify the Increment (example\_Increment\_c) and Skip Increment (example\_SkipIncrement\_c) values. This example shows an extension of the default ccrz.cc api ProductQuantityRule class that references these custom fields.

```
global class cc example api ProductQuantityRule extends ccrz.cc api ProductQuantityRule{
   qlobal override Map<String, Map<String, Object>> getRules(List<String> skus) {
       // Construct the return map
       Map<String, Map<String, Object>> rulesOutputData = new Map<String, Map<String,
Object>>;
       // Iterate over product records
        for(ccrz E Product c prod: [
           SELECT example Increment c, example SkipIncrement c, ccrz SKU c
           FROM ccrz_E_Product__c
           WHERE ccrz SKU c IN :skus]){
               // For each product
               Map<String, Object> quantityRules = new Map<String, Object>;
               // Check whether the Increment and Skip Increment values have a value,
and populate the quantityRules map
               if(null != prod.example Increment c){
                   quantityRules.put(ccrz.cc api ProductQuantityRule.PARM INCREMENT,
prod.example Increment c.intValue);
               }
               if(null != prod.example SkipIncrement c) {
```

#### SEE ALSO:

Salesforce Help Enforce Quantity Rules When a Buyer Adds Products to a Cart or Wish List Salesforce Help Show the Mini Cart Widget
Salesforce Help Show the Quick Order Widget

## ccrz.cc\_api\_ProductQuantityRule.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_ProductQuantityRule class. If you create subscriber code that extends the default class, this method returns an instance of your custom class. This method is a global static utility function and doesn't support overrides.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

```
global static ccrz.cc_api_ProductQuantityRule getInstance(Map<String, Object>)
```

### Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api ProductQuantityRule.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc api ProductQuantityRule, or your custom extension point class.

# ccrz.cc\_api\_ShippingAndHandling

Implement subscriber-defined behavior for populating the available shipping methods during checkout. On the storefront, the Checkout page calls this extension point class before rendering shipping options.

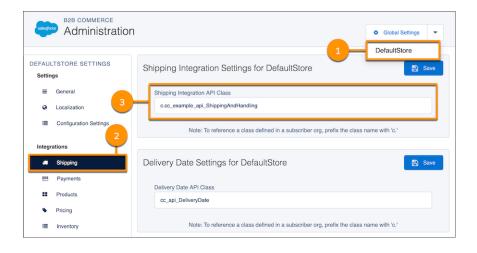
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Shipping** in the Integrations section of the Storefront Settings menu (2). Update the Shipping Integration API Class field (3) with your custom class name, prefixed with c., such as c.cc example api ShippingAndHandling.



? Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

- (1) Important: The default implementation of this class is intended for demo purposes only, and not meant to be used in a production org. This class provides a starting point that you can extend for implementing the shipping options that are specific to your solution's unique requirements.
- Tip: The managed package includes an example extension of the default ccrz.cc\_api\_ShippingAndHandling class. The extension, named fixedShippingThreeOptions, provides three flat-rate shipping options:
  - Slow shipping for \$5.00
  - Fast shipping for \$10.00
  - Fastest shipping for \$20.00

## Front-End Input

On the storefront, a buyer selects a shipping method from the Shipping Method picklist on the Checkout page. For help with configuring the shipping options on the Checkout page, see Specify Shipping Options for Standard Checkout.

### Methods

#### IN THIS SECTION:

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_ShippingAndHandling class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### getShippingOptions

Returns available options for the Shipping Method picklist on the storefront's Checkout page. To implement shipping in your production solution, such as to integrate an external shipping provider, override this method with subscriber code.

#### SEE ALSO:

Salesforce Help Specify Shipping Options for Standard Checkout Salesforce Help Specify Shipping Group Options for LLI Checkout

# ccrz.cc\_api\_ShippingAndHandling.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_api\_ShippingAndHandling class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21 4.13		12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global static ccrz.cc\_api\_ShippingAndHandling getInstance(Map<String, Object>)

### Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc api ShippingAndHandling.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc api ShippingAndHandling, or your custom extension point class.

# ccrz.cc\_api\_ShippingAndHandling.getShippingOptions

Returns available options for the Shipping Method picklist on the storefront's Checkout page. To implement shipping in your production solution, such as to integrate an external shipping provider, override this method with subscriber code.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

[] Important: The default implementation of this method is intended for demo purposes only, and not meant to be used in a production org. This method provides a starting point that you can extend for implementing the shipping options that are specific to your solution's unique requirements.

### Signature

global virtual List<ccrz.cc ctrl hlpr ShippingOption> getShippingOptions(String zipCode, String stateCode, String countryCode, ID cartID, String storeName)

## Inputs (Required)

#### zipCode

String that specifies the postal code from the cart's shipping address.

#### stateCode

String that specifies the ISO 3166-2 code for a US state or Canadian province from the cart's shipping address.

#### countryCode

String that specifies the ISO 3166-1 code for the country or territory from the cart's shipping address.

Salesforce ID (18 digits) of the cart used for checkout.

#### storeName

String that specifies a storefront name.

### **Outputs**

List<ccrz.cc ctrl hlpr ShippingOption> that represents the available shipping methods.



#### Example: Examples

The managed package includes an example extension of the default ccrz.cc api ShippingAndHandling class. The extension, named fixedShippingThreeOptions, provides three flat-rate shipping options:

- Slow shipping for \$5.00
- Fast shipping for \$10.00
- Fastest shipping for \$20.00

```
global class fixedShippingThreeOptions extends ccrz.cc api ShippingAndHandling{
    global fixedShippingThreeOptions(){}
    global override List<ccrz.cc ctrl hlpr ShippingOption> getShippingOptions(String
zipCode, String stateCode, String countryCode, Id cartId, String storeName) {
        return new <List<ccrz.cc ctrl hlpr ShippingOption> {
            new cc ctrl hlpr ShippingOption('Slow', 'Standard', 5.00),
            new cc ctrl hlpr ShippingOption('Fast', 'Standard', 10.00),
            new cc ctrl hlpr ShippingOption('Fastest', 'Standard', 20.00)
        };
    }
}
```

#### SEE ALSO:

```
ccrz__E_ContactAddr__c
ccrz.ccLogicCartGetShippingOptions
Salesforce Help Specify Shipping Options for Standard Checkout
Salesforce Help Specify Shipping Group Options for LLI Checkout
```

# ccrz.cc\_hk\_Catalog

Return info from your product catalog used for populating autocomplete suggestions on the storefront.

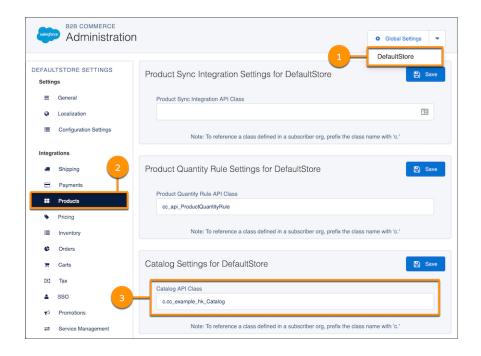
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Products** in the Integrations section of the Storefront Settings menu (2). Update the Catalog API Class field (3) with your custom class name, prefixed with c., such as c.cc\_example\_hk\_Catalog.



Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

## Methods

#### IN THIS SECTION:

#### filterCatalogData

Returns a list of product SKUs, for use with only version 1.0 of the Product List page.

#### autoComplete

Queries product records for populating SKU autocomplete suggestions in the Quick Order widget or product autocomplete suggestions in the Search Box widget.

#### modifyAutoComplete

Provides an extension point for modifying the list of autocomplete suggestions that the

ccrz.cc\_hk\_Catalog.autoComplete method returns. The default implementation of this method removes duplicate results from the list.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Catalog class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# ccrz.cc\_hk\_Catalog.filterCatalogData

Returns a list of product SKUs, for use with only version 1.0 of the Product List page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9



Note: This method is used only with version 1.0 of the Product List page.

## Signature

global virtual Map<String, Object> filterCatalogData(Map<String, Object>)

#### Inputs

Map<String, Object> that can include the following keys:

## ccrz.cc\_hk\_Catalog.PARAM\_SKU\_LIST

List<String> of product SKUs to return.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc hk Catalog.PARAM SKU LIST

List<String> of product SKUs.

# ccrz.cc\_hk\_Catalog.autoComplete

Queries product records for populating SKU autocomplete suggestions in the Quick Order widget or product autocomplete suggestions in the Search Box widget.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> autoComplete(Map<String, Object>)

### Inputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Catalog.PARAM RESULTS LIMIT

Integer that specifies the maximum number of results to return.



Note: By default, this method doesn't evaluate this limit.

#### ccrz.cc\_hk\_Catalog.PARAM\_SCOPE\_STRING

String that specifies which widget the autocomplete suggestions are for, and how the results are queried. Your version of the managed package and the version of the Product List page that you've enabled for your storefront also affect the query.

Value	Usage	Managed Package Version	Product List Page Version	Query for Results
CZCChCalogSCE_MINTSARH	Product suggestions for the Search Box widget		2.0	SOSL query of carz E ProductIndex c records

Value	Usage	Managed Package Version	Product List Page Version	Query for Results
		Summer '19 (version 4.11) or later	1.0	SOQL query of ccrz_E_Product_c records
		Spring '19 (version 4.10) or earlier	Any version	SOQL query of ccrz_E_Product_c records
cozacik@alogsce@ukkre	SKU suggestions for the Quick Order widget	Any version	Any version	SOQL query of ccrz_E_Product_c records

#### ccrz.cc hk Catalog.PARAM SEARCH STRING

String to provide autocomplete suggestions for.

### ccrz.cc\_hk\_Catalog.PARAM\_STOREFRONT\_STRING

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc\_hk\_Catalog.PARAM\_SEARCH\_RESULTS

List<String> of autocomplete suggestions that match the input criteria.

#### SEE ALSO:

Salesforce Help Considerations for Autocomplete Suggestions in Search Box and Quick Order Widgets Salesforce Help Product List Page

# $ccrz.cc\_hk\_Catalog.modify Auto Complete$

Provides an extension point for modifying the list of autocomplete suggestions that the  $ccrz.cc_hk_Catalog.autoComplete$  method returns. The default implementation of this method removes duplicate results from the list.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

global virtual Map<String, Object> modifyAutoComplete(Map<String, Object>)

## Inputs

Map<String, Object> that can include the following keys:

#### ccrz.cc\_hk\_Catalog.PARAM\_RESULTS\_LIMIT

Integer that specifies the maximum number of results to return.

#### ccrz.cc\_hk\_Catalog.PARAM\_SEARCH\_RESULTS

List<String> of autocomplete suggestions that the ccrz.cc hk Catalog.autoComplete method returns.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Catalog.PARAM SEARCH RESULTS

List<String> of modified autocomplete suggestions.

# ccrz.cc\_hk\_Catalog.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Catalog class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global static ccrz.cc\_hk\_Catalog getInstance(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Catalog.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

#### **Outputs**

This method returns an instance of ccrz.cc hk Catalog, or your custom extension point class.

# ccrz.cc\_hk\_Category (Deprecated)

Dynamically construct the category tree for a storefront by querying cached category data.

# Compatibility

This class is deprecated. For existing extensions of this class, the managed package provides an example class, ccrz.ccLogicCategoryGetTreeHk, that extends the default ccrz.ccLogicCategoryGetTree logic service provider to reference methods of this class.



- Use the ccrz.ccLogicCategoryGetTreeHk example for short-term compatibility with existing extensions of ccrz.cc hk Category. Migrate your extensions to an override of ccrz.ccLogicCategoryGetTree.
- For new solutions, extend ccrz.ccLogicCategoryGetTree.

## Methods

#### IN THIS SECTION:

#### fetch

Defines legacy behavior for calling the ccrz.ccApiPublicCache.fetch method for returning the cached category tree data.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Category class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### SEE ALSO:

ccrz.ccLogicCategoryGetTree

ccrz.ccLogicCategoryGetTreeHk Example Extension Class

# ccrz.cc\_hk\_Category.fetch

Defines legacy behavior for calling the ccrz.ccApiPublicCache.fetch method for returning the cached category tree data.

## Compatibility

This class is deprecated. For existing extensions of this class, the managed package provides an example class, ccrz.ccLogicCategoryGetTreeHk, that extends the default ccrz.ccLogicCategoryGetTree logic service provider to reference methods of this class.

# Important:

- Use the ccrz.ccLogicCategoryGetTreeHk example for short-term compatibility with existing extensions of ccrz.cc hk Category. Migrate your extensions to ccrz.ccLogicCategoryGetTree.
- For new solutions, extend ccrz.ccLogicCategoryGetTree.

## Signature

```
global virtual Map<String, Object> fetch(Map<String, Object>)
```

## Inputs (Optional)

Map<String, Object> that can include the following keys:

```
ccrz.cc_hk_Category.PARAM_CATEGORY_ID
```

String that specifies the 18-digit Salesforce ID of a category to fetch subcategories for.

#### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc\_hk\_Category.PARAM\_CATEGORIES

List<Object> of the cached category tree data, deserialized from the ccrz.ccApiPublicCache.CONTENT output of ccrz.ccApiPublicCache.fetch.

Note: This output is returned only when the input data doesn't include ccrz.cc hk Category.PARAM CATEGORY ID.

#### ccrz.cc hk Category.PRAM SUB CAT

List<ccrz\_E\_Category\_c> of one level of subcategories for the specified ccrz.cc hk Payment.PARAM CATEGORY ID.



- This output is returned only when the input data includes ccrz.cc\_hk\_Category.PARAM\_CATEGORY\_ID.
- In versions of CloudCraze earlier than 4.5, this output is a List<cc bean Category>.

# Example: Example

Override the default ccrz.cc hk Category.fetch method to rename the top-level categories.

```
global virtual override Map<String, Object> fetch(Map<String, Object> inputData {
    Map<String, Object> defaultFetchResults = super.fetch(inputData);

List<Object> categories = (List<Object>) defaultFetchResults.get(PARAM_CATEGORIES);

for(Object category:categoryTree) {
    Map<String, Object> categoryMap = (Map<String,Object>) category;
```

```
categoryMap.put('name', 'stringToRename' + categoryMap.get('name'));
}
return getTreeResults;
}
```

#### SEE ALSO:

ccrz.ccLogicCategoryGetTree
ccrz.ccLogicCategoryGetTreeHk Example Extension Class

## ccrz.cc\_hk\_Category.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Category class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This class is deprecated. For existing extensions of this class, the managed package provides an example class, ccrz.ccLogicCategoryGetTreeHk, that extends the default ccrz.ccLogicCategoryGetTree logic service provider to reference methods of this class.



- Use the ccrz.ccLogicCategoryGetTreeHk example for short-term compatibility with existing extensions of ccrz.cc\_hk\_Category. Migrate your extensions to an override of ccrz.ccLogicCategoryGetTree.
- For new solutions, extend ccrz.ccLogicCategoryGetTree.

## Signature

```
global static ccrz.cc_hk_Order getInstance(Map<String, Object>)
```

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc\_hk\_Category.PARAM\_STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc\_CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc hk Category, or your custom extension point class.

# ccrz.cc\_hk\_DynamicTheme

Load a unique storefront theme based on the current buyer's account group.

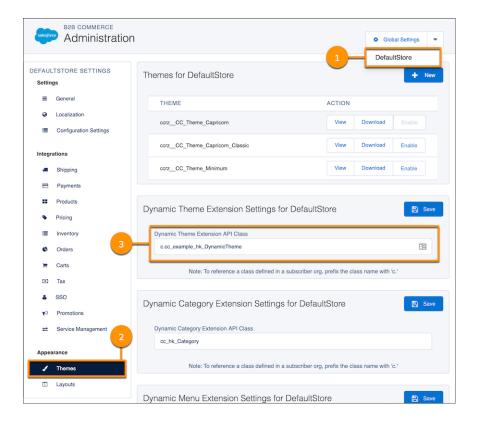
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Themes** in the Appearance section of the Storefront Settings menu (2). Update the Dynamic Theme Extension API Class field (3) with your custom class name, prefixed with c., such as c.cc\_example\_hk\_DynamicTheme.



? Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

## Methods

#### IN THIS SECTION:

#### determineTheme

Returns the value of the Theme Name field on the current buyer's account group.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default <code>ccrz.cc\_hk\_DynamicTheme</code> class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### SEE ALSO:

ccrz\_\_E\_AccountGroup\_\_c

Salesforce Help Show a Unique Storefront Theme for an Account Group

Salesforce Help Style Your Storefront with a Theme

# ccrz.cc\_hk\_DynamicTheme.determineTheme

Returns the value of the Theme Name field on the current buyer's account group.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> determineTheme(Map<String, Object>)

### Inputs

None

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc\_hk\_DynamicTheme.PARAM\_THEME\_NAME

String that specifies the name of the theme to load for the buyer's storefront session. The default implementation of this method references the value of the ThemeName\_c field on the ccrz\_E\_AccountGroup\_c record referenced by ccrz.cc\_CallContext.currAccountGroup.

#### SEE ALSO:

ccrz\_\_E\_AccountGroup\_\_c

Salesforce Help Show a Unique Storefront Theme for an Account Group

Salesforce Help Style Your Storefront with a Theme

# ccrz.cc\_hk\_DynamicTheme.getInstance

Returns an instance of this class configured for the storefront, such as the default <code>ccrz.cc\_hk\_DynamicTheme</code> class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global static ccrz.cc hk DynamicTheme getInstance(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk DynamicTheme.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### Outputs

This method returns an instance of ccrz.cc hk DynamicTheme, or your custom extension point class.

# ccrz.cc\_hk\_EffectiveAccount

Return and filter effective accounts that a buyer can access other than the buyer's default assigned account. Update the active shopping cart for a selected effective account.

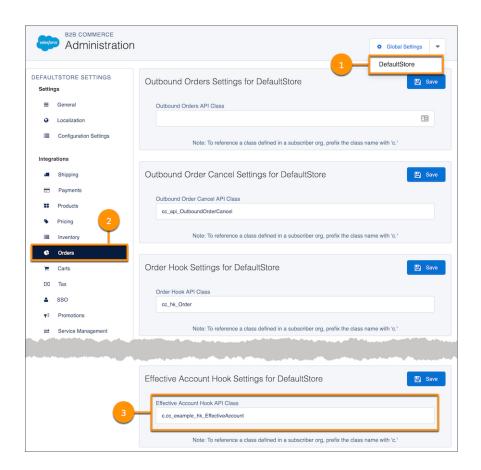
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Orders** in the Integrations section of the Storefront Settings menu (2). Update the Effective Account Hook API Class field (3) with your custom class name, prefixed with c., such as c.cc example hk EffectiveAccount.



?

Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

## Methods

#### IN THIS SECTION:

#### fetchAccounts

Returns a list of effective accounts available for the buyer.

#### build Effective Account Data

Constructs the ccrz.cc bean EffectiveAccount data within the

ccrz.cc\_hk\_EffectiveAccount.fetchAccounts method. This method is a global utility function, and supports extension and overrides.

#### filterAccounts

Provides an extension point for extra filtering logic after the ccrz.cc\_hk\_EffectiveAccount.fetchAccounts method executes. You can override this method to implement custom filtering of the available effective accounts instead of overriding the entire fetchAccounts method.

#### processDeliveryDates

Calls the ccrz.cc\_api\_DeliveryDate extension point class for determining an effective account's available delivery dates. This method returns data only when the Process Delivery Date setting of the Effective Account configuration module is TRUE for your storefront.

#### saveCart

Updates certain fields on the active shopping cart record based on the selected effective account, and returns the saved cart record.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_EffectiveAccount class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Extension Example for ccrz.cc\_hk\_EffectiveAccount

To implement custom business logic for effective accounts, create custom subscriber code that extends the default ccrz.cc\_hk\_EffectiveAccount class. The following code shows examples of overriding the fetchAccounts and saveCart methods. This example relies on a Relationship custom object, which maps accounts available for shipping with accounts that complete storefront purchases.

#### SEE ALSO:

ccrz.cc\_bean\_EffectiveAccount

Salesforce Help Allow a Buyer to Purchase for Multiple Effective Accounts

# ccrz.cc\_hk\_EffectiveAccount.fetchAccounts

Returns a list of effective accounts available for the buyer.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> fetchAccounts(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

ccrz.cc\_hk\_EffectiveAccount.PARAM\_ACCOUNT\_ID

String that specifies the ID of the buyer's assigned account.

ccrz.cc\_hk\_EffectiveAccount.PARAM\_FETCH\_MODE

String that specifies the effective account strategy you're using.

Value	Usage
FETCH_PARENT (default)	The parent-child account hierarchy strategy.
FETCH_ENTITLED	The entitled strategy.
FETCH_GROUP	The account group strategy.

#### ccrz.cc hk EffectiveAccount.PARAM ASSIGNED ACCT MODE

String that specifies when to include the buyer's assigned account in the list of available effective accounts.

Value	Usage
ASSIGNED_ACCOUNT_ALWAYS	Always include the buyer's assigned account. For the account group strategy, the buyer's assigned account is always included.
ASSIGNED_ACCOUNT_NEVER	Never include the buyer's assigned account.
ASSIGNED_ACCOUNT_ONLYEMPTY (default)	Include the buyer's assigned account only when the buyer doesn't have sharing access to any other accounts.

#### ccrz.cc hk EffectiveAccount.PARAM ADDR SOURCE

String that specifies which record type provides the shipping addresses that appear for each effective account.

Value	Usage
AddressBook	The shipping address that's selected as the <i>default</i> shipping address from the effective account's address book. This address comes from the effective account's related ccrz_E_AccountAddressBook_candccrz_E_ContactAddr_c records.
Account (default)	The shipping address specified directly on the effective account's account record.

## Outputs

Map<String, Object> that can include the following keys:

## ccrz.cc\_hk\_EffectiveAccount.PARAM\_EFFACCOUNT\_LIST

List<ccrz.cc\_bean\_EffectiveAccount> of the effective accounts that the buyer can access.

#### SEE ALSO:

 $ccrz.cc\_bean\_EffectiveAccount$ 

Salesforce Help Allow a Buyer to Purchase for Multiple Effective Accounts

Salesforce Help Include the Buyer's Assigned Account in the Effective Account Selector

# ccrz.cc\_hk\_EffectiveAccount.buildEffectiveAccountData

Constructs the ccrz.cc\_bean\_EffectiveAccount data within the ccrz.cc\_hk\_EffectiveAccount.fetchAccounts method. This method is a global utility function, and supports extension and overrides.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global List<ccrz.cc\_bean\_EffectiveAccount> buildEffectiveAccountData(List<Account>, String)

# Inputs (Optional)

Unlike most other methods of the B2B Commerce for Visualforce API, this utility method doesn't accept a Map<String, Object> of input data. Instead, this method accepts the following specific input parameters:

#### accountList

List<Account> of account records to construct ccrz.cc bean EffectiveAccount data for.

## ccrz.cc hk EffectiveAccount.PARAM ADDR SOURCE

String that specifies which record type provides the shipping addresses that appear for each effective account.

Value	Usage
AddressBook	The shipping address that's selected as the <i>default</i> shipping address from the effective account's address book. This address comes from the effective account's related ccrzE_AccountAddressBookcandccrzE_ContactAddrc records.
Account (default)	The shipping address specified directly on the effective account's account record.

# Outputs

This method returns a List<ccrz.cc bean EffectiveAccount> of the effective accounts that the buyer can access.

SEE ALSO:

ccrz.cc bean EffectiveAccount

Salesforce Help Allow a Buyer to Purchase for Multiple Effective Accounts

# ccrz.cc\_hk\_EffectiveAccount.filterAccounts

Provides an extension point for extra filtering logic after the ccrz.cc\_hk\_EffectiveAccount.fetchAccounts method executes. You can override this method to implement custom filtering of the available effective accounts instead of overriding the entire fetchAccounts method.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> filterAccounts(Map<String, Object>)

# Inputs (Optional)

Map<String, Object> that can include the following keys:

# ccrz.cc\_hk\_EffectiveAccount.PARAM\_ACCOUNT\_ID

String that specifies the ID of the buyer's assigned account.

#### ccrz.cc hk EffectiveAccount.PARAM ADDR SOURCE

String that specifies which record type provides the shipping addresses that appear for each effective account.

Value	Usage
AddressBook	The shipping address that's selected as the <i>default</i> shipping address from the effective account's address book. This address comes from the effective account's related ccrzE_AccountAddressBookcandccrzE_ContactAddrc records.
Account	The shipping address specified directly on the effective account's account record.

## ccrz.cc\_hk\_EffectiveAccount.PARAM\_ASSIGNED\_ACCT\_MODE

String that specifies when to include the buyer's assigned account in the list of available effective accounts.

Value	Usage
ASSIGNED_ACCOUNT_ALWAYS	Always include the buyer's assigned account. For the account group strategy, the buyer's assigned account is always included.
ASSIGNED_ACCOUNT_NEVER	Never include the buyer's assigned account.
ASSIGNED_ACCOUNT_ONLYEMPTY	Include the buyer's assigned account only when the buyer doesn't have sharing access to any other accounts.

#### ccrz.cc hk EffectiveAccount.PARAM FETCH MODE

String that specifies the effective account strategy you're using.

Value	Usage
FETCH_PARENT	The parent-child account hierarchy strategy. This strategy is selected by default if you don't specify a different strategy.
FETCH_ENTITLED	The entitled strategy.
FETCH_GROUP	The account group strategy.

# Outputs

Map<String, Object> that can include the following keys:

# ${\tt ccrz.cc\_hk\_EffectiveAccount.PARAM\_EFFACCOUNT\_LIST}$

List<ccrz.cc bean EffectiveAccount> of the effective accounts that the buyer can access.

SEE ALSO:

ccrz.cc\_bean\_EffectiveAccount

Salesforce Help Allow a Buyer to Purchase for Multiple Effective Accounts

# ccrz.cc\_hk\_EffectiveAccount.processDeliveryDates

Calls the ccrz.cc\_api\_DeliveryDate extension point class for determining an effective account's available delivery dates. This method returns data only when the Process Delivery Date setting of the Effective Account configuration module is TRUE for your storefront.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> processDeliveryDates(Map<String, Object>)

# Inputs (Required)

This method accepts a Map<String, Object>, which contains input data to pass to the ccrz.cc\_api\_DeliveryDate extension point class.

# Outputs

This method returns a Map<String, Object> of delivery date data from the ccrz.cc api DeliveryDate.getDeliveryDates method.

SEE ALSO:

ccrz.cc\_api\_DeliveryDate

Salesforce Help Manage Carts for Effective Accounts

# $ccrz.cc\_hk\_EffectiveAccount.saveCart$

Updates certain fields on the active shopping cart record based on the selected effective account, and returns the saved cart record.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> saveCart(Map<String, Object>)

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.cc hk EffectiveAccount.PARAM EFFACCOUNT

ccrz.cc bean EffectiveAccount that represents the buyer's selected effective account.

#### ccrz.cc hk EffectiveAccount.PARAM CART DATA

ccrz E Cart c that represents the active cart for the selected effective account.

## Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk EffectiveAccount.PARAM CART DATA

ccrz E Cart c that represents the updated cart record. This method updates the following fields on the cart:

Field N	lame	Updated Value
ccrz_	_BillToc	A clone of the effective account's default billing address.
ccrz_	_EffectiveAccountIDc	ID of the account record that corresponds to the selected effective account.
ccrz_	_RequestDatec	The selected or default delivery date returned from the ccrz.cc_api_DeliveryDate extension point class, if applicable.
ccrz_	_ShipToc	A clone of the effective account's default shipping address.

SEE ALSO:

Salesforce Help Manage Carts for Effective Accounts

# ccrz.cc\_hk\_EffectiveAccount.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_EffectiveAccount class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global static ccrz.cc\_hk\_EffectiveAccount getInstance(Map<String, Object>)

# Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk EffectiveAccount.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc hk EffectiveAccount, or your custom extension point class.

# Extension Example for ccrz.cc\_hk\_EffectiveAccount

To implement custom business logic for effective accounts, create custom subscriber code that extends the default ccrz.cc\_hk\_EffectiveAccount class. The following code shows examples of overriding the fetchAccounts and saveCart methods. This example relies on a Relationship custom object, which maps accounts available for shipping with accounts that complete storefront purchases.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.cc sample hk EffectiveAccount



**Important:** The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.cc\_hk\_EffectiveAccount.fetchAccounts ccrz.cc\_hk\_EffectiveAccount.saveCart

# ccrz.cc\_hk\_Invoice

Create and return data for an invoice after a buyer completes a storefront purchase, and process payments associated with invoices. This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.cc hk Invoice

(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# ccrz.cc\_hk\_Menu

Dynamically construct the menu hierarchy for a storefront's navigation bar by querying cached menu data.

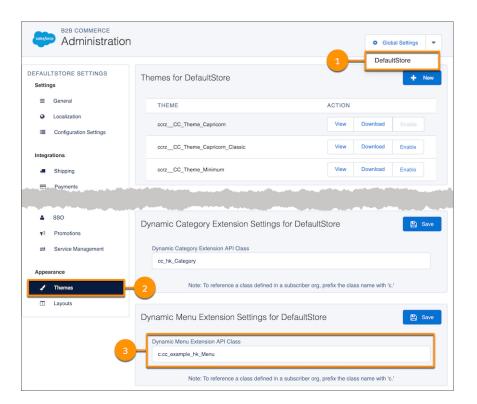
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Themes** in the Appearance section of the Storefront Settings menu (2). Update the Dynamic Menu Extension API Class field (3) with your custom class name, prefixed with c., such as c.cc\_example\_hk\_Menu.





Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

# Methods

#### IN THIS SECTION:

#### fetch

Calls the ccrz.ccApiPublicCache.fetch method to query the menu hierarchy from the cached menu data.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Menu class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# ccrz.cc\_hk\_Menu.fetch

Calls the ccrz.ccApiPublicCache.fetch method to query the menu hierarchy from the cached menu data.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Signature**

global virtual Map<String, Object> fetch(Map<String, Object>)

# Inputs

None. This method relies on ccrz.cc\_CallContext fields for information relevant for the fetch, such as storefront, account, account group, and so on.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Menu.PARAM MENU

List<ccrz.cc\_bean\_MenuItem> of the storefront's top-level menu records. If a menu contains any nested menu items, the children field specifies another List<ccrz.cc\_bean\_MenuItem> of the nested menu items.



## Example: Examples

Return only the first menu from the cached menu data.



🚺 Tip: To extend the default behavior and guery cached menu data before you add custom filtering, invoke the <code>super</code> keyword in your method override.

```
global class cc example hk Menu extends ccrz.cc hk Menu{
    global override Map<String, Object> fetch(Map<String, Object> menuInputData) {
        List<ccrz.cc bean MenuItem> menuReturnData =
(List<ccrz.cc bean MenuItem>) super.fetch (menuInputData).get(ccrz.cc hk Menu.PARAM MENU);
           new Map<String,Object>{
                ccrz.cc hk Menu.PARAM MENU => new
List<ccrz.cc bean MenuItem>{menuReturnData.get(0)}
            };
    }
```

Modify the Display Name of all top-level menus to include a custom prefix, such as Acme.

```
global class cc example hk Menu extends ccrz.cc hk Menu{
    global override Map<String, Object> fetch(Map<String, Object> menuInputData) {
        Map<String, Object> defaultMenuReturnData => super.fetch(menuInputData);
        List<ccrz.cc bean MenuItem> renamedMenuReturnData =
(List<ccrz.cc bean MenuItem>)defaultMenuReturnData.get(ccrz.cc hk Menu.PARAM MENU);
        for(ccrz.cc bean MenuItem menu:renamedMenuReturnData) {
            menu.displayName = 'Acme ' + menu.displayName;
        return renamedMenuReturnData;
    }
}
```

SEE ALSO:

ccrz.ccApiPublicCache.fetch

# ccrz.cc\_hk\_Menu.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc hk Menu class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static ccrz.cc\_hk\_Menu getInstance(Map<String, Object>)

# Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Menu.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

# Outputs

This method returns an instance of ccrz.cc hk Menu, or your custom extension point class.

# ccrz.cc\_hk\_Order

Implement subscriber-defined behavior for placing an order, reordering, and showing order history. This class defines a mixture of legacy and current behavior, and the order logic service provider classes replace the legacy functionality from this class.

# Compatibility

This reference applies to:

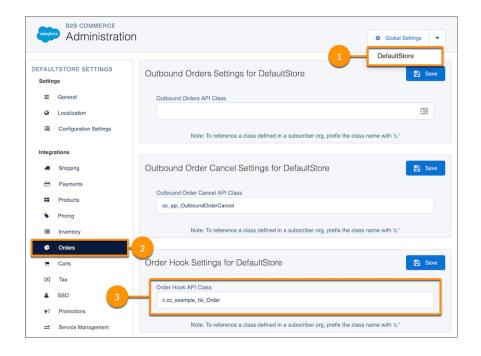
Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

In these versions of the managed package, the following logic service provider classes replace some methods of this extension point class:

Legacy Method	Replacement Class
ccrz.cc_hk_Order.createTransaction	None. This functionality remains current in the managed package.
ccrz.cc_hk_Order.fetchOrderHistory	ccrz.ccLogicOrderHistory
ccrz.cc_hk_Order.place	<ul> <li>B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12) or later—ccrz.ccLogicCartPlace</li> <li>B2B Commerce for Visualforce Spring '21 (managed package version 4.12 and API version 11) or earlier—This functionality remains current in the managed package.</li> </ul>
ccrz.cc_hk_Order.placeTarget	None. This functionality remains current in the managed package.
ccrz.cc_hk_Order.reorder	ccrz.ccLogicOrderReOrder

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Orders** in the Integrations section of the Storefront Settings menu (2). Update the Order Hook API Class field (3) with your custom class name, prefixed with c., such as c.cc\_example\_hk\_Order.



? Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

# Methods

#### IN THIS SECTION:

#### createTransaction

Creates a ccrz\_E\_TransactionPayment\_c record from transaction payment data passed from the ccrz.cc hk Payment.processPayment method.

#### fetchOrderHistory

Defines legacy behavior for populating the list of orders in the My Orders section of the My Account page. This method also supports search functionality of the order history.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default <code>ccrz.cc\_hk\_Order</code> class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### place

Specifies details for converting a cart to an order throughout the checkout process. The ccrz.cc\_api\_Cart.placeEOrder public method calls this method multiple times from the same instance of ccrz.cc\_hk\_Order. Each place call requires specific inputs for the context of the call within the overall checkout process.

#### placeTarget

Appends an order query string parameter to the URL for the storefront's Order Confirmation page. To fully customize a buyer's navigation path when they complete checkout, override this method in your extension subscriber code.

#### reorder

Defines legacy behavior for copying the data for a completed order and its order items to a new cart and cart items.

# ccrz.cc\_hk\_Order.createTransaction

Creates a ccrz\_E\_TransactionPayment\_c record from transaction payment data passed from the ccrz.cc hk Payment.processPayment method.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global virtual Map<String, Object> createTransaction(Map<String, Object>)

# Inputs (Required)

Map<String, Object> that must include the following required keys:

```
ccrz.cc hk Payment.PARAM ORDER ID
```

String that specifies the 18-digit Salesforce ID of the order.

```
ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA
```

ccrz.cc\_hk\_Payment.TransactionPaymentParams object that represents transaction payment properties and values that the ccrz.cc hk Payment.processPayment method returns.

## Outputs

Map<String, Object> that can include the following keys:

```
ccrz.cc hk Payment.PARAM TRANSACTION CREATED
```

ccrz E TransactionPayment c that represents the created transaction payment record.

SEE ALSO:

ccrz\_E\_TransactionPayment\_\_c ccrz.cc\_hk\_Payment.processPayment

# ccrz.cc\_hk\_Order.fetchOrderHistory

Defines legacy behavior for populating the list of orders in the My Orders section of the My Account page. This method also supports search functionality of the order history.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

Important: This method defines legacy behavior, and by default the managed package instead references the ccrz.ccApiOrder.fetchOrderHistory method. To reference this legacy method in your solution, set the API Fetch Orders configuration of the My Orders module in your storefront configuration settings to FALSE. However, we recommend that you set this configuration to FALSE only for compatibility with existing extensions. For new solutions, leave this configuration set to TRUE. To implement custom order history behavior in new solutions, override the ccrz.ccLogicOrderHistory.fetchHistory logic service provider method instead.

global virtual Map<String, Object> fetchOrderHistory(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Order.PARAM SEARCH FROM DATE

String that specifies a locale-specific date format that represents the start date for filtering order history results.

#### ccrz.cc\_hk\_Order.PARAM\_SEARCH\_TO\_DATE

String that specifies a locale-specific date format that represents the end date for filtering order history results.

#### ccrz.cc hk Order.PARAM SEARCH ORDER INPUT

String to search the account's order history for.

#### ccrz.cc hk Order.PARAM SEARCH ORDER STATUS

String that specifies an order status to filter order history by.

#### **Outputs**

Map<String, Object> that can include the following keys:

## ccrz.cc\_hk\_Order.PARAM\_ORDERS

List<ccrz.cc bean MockOrder> of order record data that match the search criteria.

#### SEE ALSO:

ccrz.ccApiOrder.fetchOrderHistory

ccrz.ccLogicOrderHistory

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.cc\_hk\_Order.getInstance

Returns an instance of this class configured for the storefront, such as the default <code>ccrz.cc\_hk\_Order</code> class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static ccrz.cc hk Order getInstance(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Order.PARAM STOREFRONT

String that specifies the name of a storefront.



oxdot Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

# Outputs

This method returns an instance of ccrz.cc hk Order, or your custom extension point class.

# ccrz.cc\_hk\_Order.place

Specifies details for converting a cart to an order throughout the checkout process. The ccrz.cc api Cart.placeEOrder public method calls this method multiple times from the same instance of ccrz.cc hk Order. Each place call requires specific inputs for the context of the call within the overall checkout process.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> place(Map<String, Object>)

# Inputs (Required)

Map<String, Object> that contains keys specific to the context of the current place call in the checkout process. The value of the ccrz.cc hk Order.PARAM PLACE STEP key determines which other inputs the map requires.

For example, when the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is the constant ccrz.cc hk Order.STEP START, the place method's input map requires the following values:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_START,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID
});
```

#### ccrz.cc hk Order.PARAM PLACE STEP

String that specifies the current step of the place process, which determines what other keys the place method's input map requires. This key specifies one of the following constant values, in order of execution within ccrz.cc api Cart.placeEOrder:

- 1. ccrz.cc\_hk\_Order.STEP\_START on page 1347—Called at the beginning of the process.
- 2. ccrz.cc hk Order.STEP FETCH CART on page 1348—Called after fetching the cart.
- 3. ccrz.cc hk Order.STEP FETCH COUPONS on page 1348—Called after fetching any coupons applied to the cart.
- **4.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ADDRESSES\_PRE on page 1349—Called before inserting the order's billing and shipping addresses.
- **5.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ADDRESSES\_POST on page 1349—Called after inserting the order's billing and shipping addresses.
- 6. ccrz.cc hk Order.STEP CREATE ORDER PRE on page 1350—Called before inserting the new order record.
- 7. ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_POST on page 1350—Called after inserting the new order record.
- **8.** ccrz.cc\_hk\_Order.STEP\_FETCH\_CART\_ITEMS on page 1351—Called after querying for the cart's major line items, such as standard products, composite products, or coupons.
- **9.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEMS\_PRE on page 1351—Called before inserting the new order's items that correspond to the cart's major line items.
- **10.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEMS\_POST on page 1352—Called after inserting the new order's items that correspond to the cart's major line items.
- **11.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEM\_TIERS\_PRE on page 1353—Called before inserting the new order items' pricing tiers.
- **12.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEM\_TIERS\_POST on page 1354—Called after inserting the new order items' pricing tiers.
- **13.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_CHILD\_ITEMS\_PRE on page 1354—Called before inserting the new order's items that correspond to the cart's minor line items, such as component products.
- **14.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_CHILD\_ITEMS\_POST on page 1355—Called after inserting the new order's items that correspond to the cart's minor line items, such as component products.
- **15.** ccrz.cc\_hk\_Order.STEP\_CART\_CLOSE\_PRE on page 1356—Called after setting the cart's ccrz\_\_CartStatus\_\_c field to Closed, but before updating the ccrz\_\_E\_Cart\_\_c record. This step also sets the cart's ccrz\_\_ActiveCart\_\_c field to FALSE.
- **16.** ccrz.cc\_hk\_Order.STEP\_CART\_CLOSE\_POST on page 1357—Called after setting the cart's ccrz\_CartStatus\_c field to Closed and after updating the ccrz\_E\_Cart\_c record.
- **17.** ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_TERMS\_PRE on page 1358—Called before inserting the order terms, which the buyer acknowledged and accepted during checkout.
- 18. ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_TERMS\_POST on page 1359—Called after inserting the order terms.

- **19.** ccrz.cc\_hk\_Order.STEP\_CREATE\_STORED\_PAYMENT\_PRE on page 1360—Called before creating a stored payment from the payment details specified during checkout.
- **20.** ccrz.cc\_hk\_Order.STEP\_CREATE\_STORED\_PAYMENT\_POST on page 1361—Called after creating a stored payment from the payment details specified during checkout.
- **21.** ccrz.cc\_hk\_Order.STEP\_CREATE\_SUBSCRIPTION\_PRE on page 1362—Called before creating a subscription that's included in the order.
- **22.** ccrz.cc\_hk\_Order.STEP\_CREATE\_SUBSCRIPTION\_POST on page 1363—Called after creating a subscription that's included in the order.
- **23.** ccrz.cc\_hk\_Order.STEP\_CREATE\_TRANSACTION\_PRE on page 1364—Called before creating a transaction payment record from the payment details specified during checkout.
- **24.** ccrz.cc\_hk\_Order.STEP\_CREATE\_TRANSACTION\_POST on page 1365—Called after creating a transaction payment record from the payment details specified during checkout.
- 25. ccrz.cc hk Order.STEP PAYMENT PROCESS PRE on page 1366—Called before processing the payment.
- **26.** ccrz.cc hk Order.STEP PAYMENT PROCESS POST on page 1367—Called after processing the payment.
- **27.** ccrz.cc\_hk\_Order.STEP\_UPDATE\_ORDER\_STATUS\_PRE on page 1369—Called before updating the status of the order to submitted.
- **28.** ccrz.cc\_hk\_Order.STEP\_UPDATE\_ORDER\_STATUS\_POST on page 1370—Called after updating the status of the order.
- 29. ccrz.cc hk Order.STEP INVOICE CREATE PRE on page 1371—Called before creating an invoice.
- **30.** ccrz.cc hk Order.STEP INVOICE CREATE POST on page 1372—Called after creating an invoice.
- **31.** ccrz.cc hk Order.STEP END on page 1374—Called at the end of the process.

# Other Inputs Required for ccrz.cc hk Order.STEP START

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_START, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_START,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID
});
```

## ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

Note: This key is deprecated in new solutions, but the default checkout implementation continues to pass this key for compatibility with legacy code. If you override this method in a new solution, use only the ccrz.cc\_hk\_Order.PARAM\_CART\_ID input.

# Other Inputs Required for ccrz.cc hk Order.STEP FETCH CART

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_FETCH\_CART, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_FETCH_CART,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz\_\_E\_Cart\_\_c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

# Other Inputs Required for ccrz.cc\_hk\_order.step\_fetch\_coupons

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_FETCH\_COUPONS, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_FETCH_COUPONS,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_COUPONS => coupon list
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc\_hk\_Order.PARAM\_CART\_ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc\_hk\_Order.PARAM\_COUPONS

List<ccrz\_E\_Coupon\_c> of coupon records associated with the cart.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Coupon\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

# ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

# Other Inputs Required for ccrz.cc hk Order.STEP CREATE ADDRESSES PRE

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ADDRESSES\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ADDRESSES_PRE,
    ccrz.cc_hk_Order.PARAM_BILLING_ADDR => billing address,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_SHIPPING_ADDR => shipping address
});
```

## ccrz.cc hk\_Order.PARAM\_BILLING\_ADDR

ccrz E ContactAddr c record for the order's billing address.

# ccrz.cc\_hk\_Order.PARAM\_CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, guery those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM SHIPPING ADDR

ccrz E ContactAddr c record for the order's shipping address.

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_addresses\_post

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ADDRESSES\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ADDRESSES_POST,
    ccrz.cc_hk_Order.PARAM_BILLING_ADDR => billing address,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_SHIPPING_ADDR => shipping address
});
```

#### ccrz.cc hk Order.PARAM BILLING ADDR

ccrz E ContactAddr c record for the order's billing address.

## ccrz.cc\_hk\_Order.PARAM\_CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

## ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM SHIPPING ADDR

ccrz E ContactAddr c record for the order's shipping address.

# Other Inputs Required for ccrz.cc hk Order.STEP CREATE ORDER PRE

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_PRE,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_E\_Cart\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record ready to insert.

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_order\_post

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc hk Order.STEP CREATE ORDER POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_POST,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

# ccrz.cc\_hk\_Order.PARAM\_CART\_ID String that specifies the Salesforce ID of the ccrz\_E\_Cart\_c record used for placing the order. ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID String that specifies the encrypted ID of the ccrz\_E\_Cart\_c record used for placing the order. ccrz.cc\_hk\_Order.PARAM\_ORDER

# Other Inputs Required for ccrz.cc\_hk\_order.STEP\_FETCH\_CART\_ITEMS

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_FETCH\_CART\_ITEMS, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_FETCH_CART_ITEMS,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

ccrz E Order c record that was inserted.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

```
ccrz.cc hk Order.PARAM CART ITEMS
```

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

```
ccrz.cc hk Order.PARAM ENC CART ID
```

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

```
ccrz_e_Order_c record that was inserted.
```

#### Other Inputs Required for ccrz.cc hk order.step create order items pre

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEMS\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_ITEMS_PRE,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
```

```
ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz\_E\_Cart\_\_c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order items to insert and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

# Other Inputs Required for ccrz.cc\_hk\_order.STEP\_CREATE\_ORDER\_ITEMS\_POST

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEMS\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_ITEMS_POST,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

## ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_order\_item\_tiers\_pre

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_ITEM\_TIERS\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_ITEM_TIERS_PRE,

    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

## ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

## ccrz.cc\_hk\_Order.PARAM\_CART\_ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

## ccrz.cc\_hk\_Order.PARAM\_ORDER\_ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers to insert.

# Other Inputs Required for ccrz.cc hk order.STEP CREATE ORDER ITEM TIERS POST

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP CREATE ORDER ITEM TIERS POST, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP CREATE ORDER ITEM TIERS POST,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.



🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz E Cart c custom object. If you've added any custom subscriber fields, query those fields separately.

## ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

## ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

# Other Inputs Required for ccrz.cc hk order.STEP CREATE ORDER CHILD ITEMS PRE

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP CREATE ORDER CHILD ITEMS PRE, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP CREATE ORDER CHILD ITEMS PRE,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
```

```
ccrz.cc_hk_Order.PARAM_ORDER => order,
ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order item pricing tiers
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

## ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items to insert and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_order\_child\_items\_post

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_CHILD\_ITEMS\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_CHILD_ITEMS_POST,

    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz 🛮 E Cart 💍 c custom object. If you've added any custom subscriber fields, query those fields separately.

# ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

# Other Inputs Required for ccrz.cc hk Order.STEP CART CLOSE PRE

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP CART CLOSE PRE, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP CART CLOSE PRE,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz E Cart c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

# ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

# Other Inputs Required for ccrz.cc hk Order.STEP CART CLOSE POST

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CART\_CLOSE\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CART_CLOSE_POST,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

# Other Inputs Required for ccrz.cc hk Order.STEP CREATE ORDER TERMS PRE

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_TERMS\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_TERMS_PRE,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order terms
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

## ccrz.cc\_hk\_Order.PARAM\_ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms ready to insert.

# Other Inputs Required for ccrz.cc hk Order.STEP CREATE ORDER TERMS POST

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_ORDER\_TERMS\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_ORDER_TERMS_POST,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order terms
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz\_E\_OrderItemPricingTier\_c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

# Other Inputs Required for ccrz.cc hk\_order.step\_create\_stored\_payment\_pre

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP CREATE STORED PAYMENT PRE, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP CREATE STORED PAYMENT PRE,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM TRANSACTION DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
 data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz 🛮 E Cart 🔻 c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

## ccrz.cc\_hk\_Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values to pass to ccrz.cc hk Payment.createStoredPayment.

# ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

```
ccrz.cc hk Payment.TransactionPaymentParams object to pass to
ccrz.cc hk Payment.createStoredPayment.
```

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_stored\_payment\_post

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP CREATE STORED PAYMENT POST, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP CREATE STORED PAYMENT POST,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM TRANSACTION DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
 data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.



🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the corz 🛮 E Cart 🔻 c custom object. If you've added any custom subscriber fields, query those fields separately.

# ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

# ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

## ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.cc hk Payment.createStoredPayment.

#### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc\_hk\_Payment.TransactionPaymentParams object that the ccrz.cc\_hk\_Payment.createStoredPayment method returns.

# Other Inputs Required for ccrz.cc\_hk\_order.STEP\_CREATE\_SUBSCRIPTION\_PRE

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_SUBSCRIPTION\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_SUBSCRIPTION_PRE,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order item pricing tiers,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order terms,
    ccrz.cc_hk_Order.PARAM_ORDER_TERMS => list of order terms,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA => JSON payment data,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_PROCESSED_DATA => serialized transaction payment
    data
});
```

## ccrz.cc\_hk\_Order.PARAM\_CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

## ccrz.cc\_hk\_Order.PARAM\_CART\_ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

## ccrz.cc\_hk\_Order.PARAM\_CART\_ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

## ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values to pass to ccrz.cc hk Subscriptions.onOrder.

#### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

```
\verb|ccrz.cc_hk_Payment.TransactionPaymentParams| object processed from the original | ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA. |
```

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_subscription\_post

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_SUBSCRIPTION\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_SUBSCRIPTION_POST,

    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order terms,
    ccrz.cc_hk_Order.PARAM_ORDER_TERMS => list of order terms,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA => JSON payment data,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_PROCESSED_DATA => serialized transaction payment
    data
});
```

## ccrz.cc\_hk\_Order.PARAM\_CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc\_hk\_Order.PARAM\_ORDER\_CHILD\_ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc\_hk\_Order.PARAM\_ORDER\_TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values.

#### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc\_hk\_Payment.TransactionPaymentParams object, updated with the output of the ccrz.cc hk Subscriptions.onOrder method.

# Other Inputs Required for ccrz.cc\_hk\_order.step\_create\_transaction\_pre

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_CREATE\_TRANSACTION\_PRE, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_CREATE_TRANSACTION_PRE,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
    ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
    ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
    ccrz.cc_hk_Order.PARAM_ORDER => order,
    ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order item pricing tiers,
    ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order terms,
    ccrz.cc_hk_Order.PARAM_ORDER_TERMS => list of order terms,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA => JSON payment data,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_PROCESSED_DATA => serialized transaction payment
    data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz 🛮 E Cart 💍 c custom object. If you've added any custom subscriber fields, query those fields separately.

## ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values to pass to

ccrz.cc hk Order.createTransaction.

### ccrz.cc\_hk\_Order.PARAM\_TRANSACTION\_PROCESSED\_DATA

```
ccrz.cc hk Payment.TransactionPaymentParams object to pass to
ccrz.cc hk Order.createTransaction.
```

# Other Inputs Required for ccrz.cc hk Order.STEP\_CREATE\_TRANSACTION\_POST

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is

ccrz.cc hk Order.STEP CREATE TRANSACTION POST, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP CREATE TRANSACTION POST,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM TRANSACTION DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
```

```
data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.



🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the <code>ccrz</code> E <code>Cart</code> <code>c</code> custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

# ccrz.cc\_hk\_Order.PARAM\_ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.cc hk Order.createTransaction.

### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

```
ccrz.cc hk Payment.TransactionPaymentParams object passed to
ccrz.cc hk Order.createTransaction.
```

## Other Inputs Required for ccrz.cc hk Order.STEP PAYMENT PROCESS PRE

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP PAYMENT PROCESS PRE, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP PAYMENT PROCESS PRE,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
```

```
ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order item pricing tiers,
    ccrz.cc_hk_Order.PARAM_ORDER_TERMS => list of order terms,
    ccrz.cc_hk_Order.PARAM_PAYMENT_RESULT => payment result,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA => JSON payment data,
    ccrz.cc_hk_Order.PARAM_TRANSACTION_PROCESSED_DATA => serialized transaction payment
    data
});
```

### ccrz.cc hk Order.PARAM CART

 $\verb"ccrz_E_Cart_c" record used for placing the order.$ 

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values to pass to ccrz.ccPaymentProcessor.process.

### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParamsobjecttopasstoccrz.ccPaymentProcessor.process.

## Other Inputs Required for ccrz.cc hk Order.STEP PAYMENT PROCESS POST

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc\_hk\_Order.STEP\_PAYMENT\_PROCESS\_POST, the place method's input map requires the following other inputs:

```
ccrz.cc_hk_Order.place(new Map<String, Object> {
    ccrz.cc_hk_Order.PARAM_PLACE_STEP => ccrz.cc_hk_Order.STEP_PAYMENT_PROCESS_POST,
    ccrz.cc_hk_Order.PARAM_CART => cart,
    ccrz.cc_hk_Order.PARAM_CART_ID => cart ID,
```

```
ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
ccrz.cc_hk_Order.PARAM_ENC_CART_ID => encrypted cart ID,
ccrz.cc_hk_Order.PARAM_ORDER => order,
ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order item pricing tiers,
ccrz.cc_hk_Order.PARAM_ORDER_TERMS => list of order terms,
ccrz.cc_hk_Order.PARAM_PAYMENT_RESULT => payment result,
ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA => JSON payment data,
ccrz.cc_hk_Order.PARAM_TRANSACTION_PROCESSED_DATA => serialized transaction payment
data
});
```

### ccrz.cc\_hk\_Order.PARAM\_CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

 $\verb| List < \verb| ccrz_E| Order Item Pricing Tier_c > of the order items' pricing tiers that were inserted.$ 

### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.ccPaymentProcessor.process.

### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParamsobjectpassedtoccrz.ccPaymentProcessor.process.

## Other Inputs Required for ccrz.cc hk order.STEP UPDATE ORDER STATUS PRE

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP UPDATE ORDER STATUS PRE, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP UPDATE ORDER STATUS PRE,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM ORDER W STATUS => order to submit
   ccrz.cc hk Order.PARAM PAYMENT RESULT => payment result,
   ccrz.cc hk Order.PARAM TRANSACTION DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
 data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz 🛮 E Cart 🔻 c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM ORDER W STATUS

ccrz E Order c record where the ccrz OrderStatus c field is ready to update. By default, this step sets the new status to Order Submitted.

**Note:** This method gueries the record by only its Salesforce ID.

#### ccrz.cc hk Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.ccPaymentProcessor.process.

#### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParamsobjectpassedtoccrz.ccPaymentProcessor.process.

# Other Inputs Required for ccrz.cc hk Order.STEP UPDATE ORDER STATUS POST

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP UPDATE ORDER STATUS POST, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP UPDATE ORDER STATUS POST,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM ORDER W STATUS => order to submit
   ccrz.cc hk Order.PARAM PAYMENT RESULT => payment result,
   ccrz.cc hk Order.PARAM TRANSACTION_DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz E Cart c custom object. If you've added any custom subscriber fields, guery those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

# ccrz.cc\_hk\_Order.PARAM\_ORDER\_CHILD\_ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM ORDER W STATUS

ccrz\_E\_Order\_\_c record where the ccrz\_\_OrderStatus\_\_c field updated to Order Submitted or another status that you specify when you override this method in subscriber code.

Note: This method queries the record by only its Salesforce ID.

# ccrz.cc\_hk\_Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.ccPaymentProcessor.process.

#### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

 $\verb|ccrz.cc_hk_Payment.TransactionPaymentParams| object passed to \verb|ccrz.ccPaymentProcessor.process|. |$ 

### Other Inputs Required for ccrz.cc hk Order.STEP INVOICE CREATE PRE

When the ccrz.cc\_hk\_Order.PARAM\_PLACE\_STEP input's value is ccrz.cc hk Order.STEP INVOICE CREATE PRE, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP INVOICE CREATE PRE,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM ORDER W STATUS => order to submit
   ccrz.cc hk Order.PARAM PAYMENT RESULT => payment result,
   ccrz.cc hk Order.PARAM TRANSACTION DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
 data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.



🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz 🛮 E Cart 🔻 c custom object. If you've added any custom subscriber fields, guery those fields separately.

### ccrz.cc\_hk\_Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

# ccrz.cc\_hk\_Order.PARAM\_ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

### ccrz.cc hk Order.PARAM ORDER W STATUS

ccrz E Order crecord where the ccrz OrderStatus c field updated to Order Submitted or another status that you specify when you override this method in subscriber code.

Note: This method queries the record by only its Salesforce ID.

### ccrz.cc hk Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.ccPaymentProcessor.process.

### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParamsobjectpassedtoccrz.ccPaymentProcessor.process.

## Other Inputs Required for ccrz.cc hk Order.STEP INVOICE CREATE POST

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is

ccrz.cc hk Order.STEP INVOICE CREATE POST, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP INVOICE CREATE POST,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc hk Order.PARAM CART ID => cart ID,
   ccrz.cc_hk_Order.PARAM_CART_ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
```

```
ccrz.cc_hk_Order.PARAM_INVOICE => invoice,
ccrz.cc_hk_Order.PARAM_INVOICE_ITEMS => list of invoice items
ccrz.cc_hk_Order.PARAM_ORDER => order,
ccrz.cc_hk_Order.PARAM_ORDER_CHILD_ITEMS => list of minor order items,
ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of major order items,
ccrz.cc_hk_Order.PARAM_ORDER_ITEM_TIERS => list of order item pricing tiers,
ccrz.cc_hk_Order.PARAM_ORDER_ITEMS => list of order terms,
ccrz.cc_hk_Order.PARAM_ORDER_W_STATUS => order to submit
ccrz.cc_hk_Order.PARAM_PAYMENT_RESULT => payment result,
ccrz.cc_hk_Order.PARAM_TRANSACTION_DATA => JSON payment data,
ccrz.cc_hk_Order.PARAM_TRANSACTION_PROCESSED_DATA => serialized transaction payment
data
});
```

#### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.

Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the ccrz\_\_E\_Cart\_\_c custom object. If you've added any custom subscriber fields, query those fields separately.

#### ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

#### ccrz.cc hk Order.PARAM INVOICE

ccrz\_E\_Invoice\_c record that the ccrz.cc\_hk\_Invoice.onOrder method returns in its ccrz.cc hk Invoice.PARAM INVOICE output.

#### ccrz.cc hk Order.PARAM INVOICE ITEMS

List<ccrz\_E\_InvoiceItem\_\_c> that the ccrz.cc\_hk\_Invoice.onOrder method returns in its ccrz.cc hk Invoice.PARAM INVOICE ITEMS output.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz\_E\_OrderItem\_\_c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc\_hk\_Order.PARAM\_ORDER\_ITEM\_TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

#### ccrz.cc\_hk\_Order.PARAM\_ORDER\_TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

### ccrz.cc\_hk\_Order.PARAM\_ORDER\_W\_STATUS

ccrz\_E\_Order\_\_c record where the ccrz\_\_OrderStatus\_\_c field updated to Order Submitted or another status that you specify when you override this method in subscriber code.

Note: This method queries the record by only its Salesforce ID.

#### ccrz.cc hk Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Order.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed to ccrz.ccPaymentProcessor.process.

### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParamsobjectpassedtoccrz.ccPaymentProcessor.process.

# Other Inputs Required for ccrz.cc\_hk\_Order.STEP\_END

When the ccrz.cc hk Order.PARAM PLACE STEP input's value is ccrz.cc hk Order.STEP END, the place method's input map requires the following other inputs:

```
ccrz.cc hk Order.place(new Map<String, Object> {
   ccrz.cc hk Order.PARAM PLACE STEP => ccrz.cc hk Order.STEP END,
   ccrz.cc hk Order.PARAM CART => cart,
   ccrz.cc_hk_Order.PARAM CART ID => cart ID,
   ccrz.cc hk Order.PARAM CART ITEMS => list of major cart items,
   ccrz.cc hk Order.PARAM ENC CART ID => encrypted cart ID,
   ccrz.cc hk Order.PARAM INVOICE => invoice,
   ccrz.cc hk Order.PARAM INVOICE ITEMS => list of invoice items
   ccrz.cc hk Order.PARAM ORDER => order,
   ccrz.cc hk Order.PARAM ORDER CHILD ITEMS => list of minor order items,
   ccrz.cc hk Order.PARAM ORDER ITEMS => list of major order items,
   ccrz.cc hk Order.PARAM ORDER ITEM TIERS => list of order item pricing tiers,
   ccrz.cc hk Order.PARAM ORDER TERMS => list of order terms,
   ccrz.cc hk Order.PARAM ORDER W STATUS => order to submit
   ccrz.cc hk Order.PARAM PAYMENT RESULT => payment result,
   ccrz.cc hk Order.PARAM TRANSACTION DATA => JSON payment data,
   ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA => serialized transaction payment
data
});
```

### ccrz.cc hk Order.PARAM CART

ccrz E Cart c record used for placing the order.



🕜 Note: This method evaluates only fields that B2B Commerce for Visualforce defines on the corz 🛮 E Cart 🔻 c custom object. If you've added any custom subscriber fields, guery those fields separately.

## ccrz.cc hk Order.PARAM CART ID

String that specifies the Salesforce ID of the ccrz E Cart c record used for placing the order.

### ccrz.cc hk Order.PARAM CART ITEMS

List<ccrz E CartItem c> of the cart's major line items, such as standard products, composite products, or coupons.

## ccrz.cc hk Order.PARAM ENC CART ID

String that specifies the encrypted ID of the ccrz E Cart c record used for placing the order.

### ccrz.cc hk Order.PARAM INVOICE

```
ccrz E Invoice crecord that the ccrz.cc hk Invoice.onOrder method returns in its
ccrz.cc hk Invoice.PARAM INVOICE output.
```

#### ccrz.cc hk Order.PARAM INVOICE ITEMS

List<ccrz E InvoiceItem c> that the ccrz.cc hk Invoice.onOrder method returns in its ccrz.cc hk Invoice.PARAM INVOICE ITEMS output.

#### ccrz.cc hk Order.PARAM ORDER

ccrz E Order c record that was inserted.

#### ccrz.cc hk Order.PARAM ORDER ITEMS

List<ccrz E OrderItem c> of the order items that were inserted and that correspond to the cart's major line items, such as standard products, composite products, or coupons.

#### ccrz.cc hk Order.PARAM ORDER CHILD ITEMS

List<ccrz E OrderItem c> of the order's minor line items that were inserted and that correspond to the cart's minor line items, such as component products.

#### ccrz.cc hk Order.PARAM ORDER ITEM TIERS

List<ccrz E OrderItemPricingTier c> of the order items' pricing tiers that were inserted.

### ccrz.cc hk Order.PARAM ORDER TERMS

List<ccrz E OrderTerm c> of the order terms that were inserted.

#### ccrz.cc hk Order.PARAM ORDER W STATUS

ccrz E Order crecord where the ccrz OrderStatus c field updated to Order Submitted or another status that you specify when you override this method in subscriber code.

Note: This method queries the record by only its Salesforce ID.

# ccrz.cc\_hk\_Order.PARAM PAYMENT RESULT

Map<String, Object> that represents the output from ccrz.cc hk Payment.processPayment.

# ccrz.cc hk Order.PARAM TRANSACTION DATA

 $JSON-formatted string of transaction payment properties and their values passed to \verb|ccrz.ccPaymentProcessor.process|. \\$ 

#### ccrz.cc hk Order.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParamsobjectpassedtoccrz.ccPaymentProcessor.process.

### **Outputs**

Map<String, Object> that doesn't include any new output data.

#### SEE ALSO:

```
ccrz E Cart c
ccrz__E_CartItem__c
ccrz__E_Coupon__c
ccrz_E_Order__c
ccrz__E_OrderItem__c
ccrz E StoredPayment c
ccrz__E_TransactionPayment__c
```

ccrz.ccApiCart.place ccrz.cc\_hk\_Payment

ccrz.ccPaymentProcessor

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.cc\_hk\_Order.placeTarget

Appends an order query string parameter to the URL for the storefront's Order Confirmation page. To fully customize a buyer's navigation path when they complete checkout, override this method in your extension subscriber code.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> placeTarget(Map<String, Object>)

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.cc hk Payment.PARAM ORDER

ccrz E Order c record for the order that the buyer placed.

(1) Important: Ensure that this record has the ccrz\_\_EncryptedId\_\_c field set.

# Logic Performed

This method completes the following actions:

- 1. Returns the value of the Order Confirmation URL configuration of the Checkout module (co.cnfurl) in your storefront configuration settings.
- 2. Appends the query string parameter ?o= or &o=, and adds the order's encrypted ID.

For example, let's say that the Order Confirmation URL configuration specifies the following custom URL instead of the storefront's default Order Confirmation page:

https://orders.capricorncoffee.us/processOrder

This method returns the full URL, which includes the query string parameter:

https://orders.capricorncoffee.us/processOrder?o=orderEncryptedId

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc\_hk\_Order.PARAM\_ORDER\_ID

String that specifies the encrypted ID of the order.

### ccrz.cc\_hk\_Order.PARAM\_PLACE\_TARGET

The full URL to the Order Confirmation page, including the order query string parameter.

SEE ALSO:

Salesforce Help Parameters in Storefront Page URLs

# ccrz.cc\_hk\_Order.reorder

Defines legacy behavior for copying the data for a completed order and its order items to a new cart and cart items.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Important:

- This method defines legacy behavior (by default, the managed package instead references ccrz.ccApiOrder.reorder).
  To reference this legacy method in your solution, extend the default ccrz.ccLogicOrderReOrder class so that it calls this method. The managed package provides an example extension, ccrz.ccLogicOrderReOrder7HK, that you can use as a starting point for extending ccrz.ccLogicOrderReOrder.
- When you use ccrz.ccLogicOrderReOrder7HK or your own extension, the My Orders section of the My Account page calls this method when a buyer clicks the Reorder button.

## Signature

global virtual Map<String, Object> reorder(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that must include the following required keys:

## ccrz.cc\_hk\_Payment.PARAM\_ORDER\_ID

String that specifies the 18-digit Salesforce ID of the order.

## Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc\_hk\_Order.PARAM\_ENC\_CART\_ID

String that specifies the encrypted ID of the created ccrz E Cart c record.

SEE ALSO:

ccrz.ccApiOrder.reorder

ccrz.ccLogicOrderReOrder

ccrz.ccLogicOrderReOrder7HK Example Extension Class

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.cc\_hk\_Payment

Evaluate and maintain stored payments and transaction payments.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# TransactionPaymentParams Inner Class

The ccrz.cc\_hk\_Payment extension point class defines an inner class, TransactionPaymentParams, that defines the following Apex properties. For more information about Apex properties and accessors, see Apex Properties.

### accountNumber {get; set;}

String that specifies an account number for the payment.

- For a purchase order (PO), this value is the entire PO number.
- For a credit card or bank account, this value is likely the account number's last four digits.

### accountType {get; set;}

String that specifies the method of payment, such as purchase order (PO), credit card, and so on.

#### amount {get; set;}

Decimal that specifies the transaction's actual payment amount.

# comments {get; set;}

String that specifies free text associated with the payment.

#### displayName {get; set;}

String that specifies the user-entered name for the stored payment that saves this transaction payment information.

#### expirationMonth {get; set;}

String that specifies the two-digit expiration month for the payment, such as for a credit card expiration date.

#### expirationYear {get; set;}

String that specifies the four-digit expiration year for the payment, such as for a credit card expiration date.

#### paymentType {get; set;}

String that specifies more specific payment method details for accountType. For example, if accountType is Credit Card, then this value can be the type of credit card.

#### requestAmount {get; set;}

Decimal that specifies a requested payment amount.

#### saveAsStoredPayment {get; set;}

Boolean

Value	Usage
true	Save the transaction payment information as a stored payment for the account.
false (default)	Don't save the transaction payment information as a stored payment.

#### storedPaymentId {get; set;}

String that specifies the Salesforce ID of the original ccrz E StoredPayment c for the payment, if applicable.

#### storefront {get; set;}

String that specifies the storefront for the payment.

#### subAccountNumber {get; set;}

String that specifies a subaccount used with accountNumber.

#### token {get; set;}

String that specifies the tokenized form of the payment information.

#### transactionCode {get; set;}

String that specifies a code associated with the transaction. For example, for a credit card payment, this value is the specific transaction ID

#### transactionPaymentId {get; set;}

String that specifies a unique ID that associates the record with an external system.

#### transactionSubcode {get; set;}

String that specifies a secondary code associated with the transaction. For example, if the transaction failed, this value can be failure's error code.

#### transactionType {get; set;}

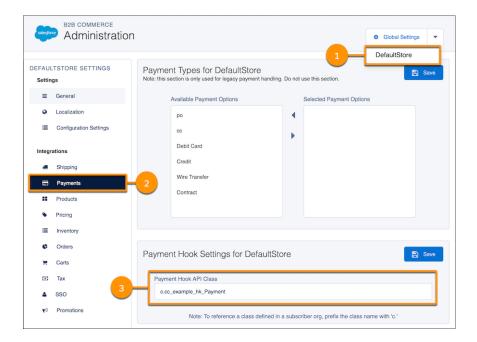
String that specifies a provider-specific type of transaction, such as AUTH or CAPTURE for a credit card payment.

#### verificationCode {get; set;}

String that specifies a secondary transactionCode.

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Payments** in the Integrations section of the Storefront Settings menu (2). Update the Payment Hook API Class field (3) with your custom class name, prefixed with c., such as c.cc example hk Payment.



- Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.
- Note: The Payment Types for *Storefront* section of the Payments integrations page is deprecated.

# Methods

#### IN THIS SECTION:

#### convertStoredPaymentToMap

Parses data on a specified ccrz E StoredPayment c record and returns a Map<String, Object>.

#### convertTxnPaymentToMap

Parses data on a specified ccrz E TransactionPayment c record and returns a Map<String, Object>.

### convertTxnPaymentRefToMap

Parses only the reference data on a specified ccrz\_E\_TransactionPayment\_c record and returns a Map<String, Object>.

#### createStoredPayment

Creates a stored payment from transaction payment details during checkout. This method is also called when a buyer creates a purchase order (PO) from the My Wallet section of the My Account page. For custom payment implementations not defined in the managed package, this method isn't called. This method does *not* support Apex callouts.

#### deserializeTransactionParams

Parses JSON input and return a ccrz.cc hk Payment.TransactionPaymentParams object.

### fetchPaymentTypes

Returns all configuration settings defined in each payment type's respective configuration module.

#### fetchStoredPayments

Returns the stored payments available for checkout, invoices, or the My Wallet section of the My Account page.

#### fetchTransactionPayment

Provides an extension point for showing transaction payment data on the storefront's Transaction Payment Detail page.

#### getApplicablePaymentTypes

Provides an extension point for overriding the allowed payment types for checkout, invoices, or the My Wallet section of the My Account page.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Payment class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### getPaymentProcessor

Creates an instance of the ccrz.ccPaymentProcessor class for the transaction's accountType.

#### processPayment

Prepares transaction payment data during checkout, and passes that payment information to the ccrz.cc\_hk\_Order.createTransaction method. This method also provides an extension point for implementing validation of a custom payment type. This method supports Apex callouts.

#### removeStoredPayment

Deletes a stored payment from the My Wallet section of the My Account page.

### SEE ALSO:

```
ccrz_E_StoredPayment__c
ccrz E_TransactionPayment_c
```

# ccrz.cc\_hk\_Payment.convertStoredPaymentToMap

Parses data on a specified ccrz E StoredPayment crecord and returns a Map<String, Object>.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static Map<String, Object> convertStoredPaymentToMap(ccrz\_E\_StoredPayment\_c)

### Inputs (Required)

ccrz E StoredPayment c record to evaluate.

## Outputs

Map<String, Object> that includes the following keys, which correspond to fields on the input ccrz\_E\_StoredPayment\_c record:

#### 'accountNumber'

String that corresponds to the ccrz AccountNumber c field.

#### 'accountType'

String that corresponds to the ccrz AccountType c field.

#### 'displayName'

String that corresponds to the ccrz DisplayName c field.

### 'expirationMonth'

Integer that corresponds to the ccrz ExpMonth c field.

#### 'expirationYear'

Integer that corresponds to the ccrz ExpYear c field.

#### 'isDefault'

Boolean that corresponds to the ccrz Default c field.

#### 'isEnabled'

Boolean that corresponds to the ccrz Enabled c field.

#### 'name

String that corresponds to the Name field.

#### 'paymentType'

String that corresponds to the ccrz\_\_PaymentType\_\_c field.

## 'readOnly'

Boolean that corresponds to the ccrz\_\_ReadOnly\_\_c field.

#### 'sequence'

Integer that corresponds to the ccrz Sequence c field.

#### 'sfid

String that corresponds to the Salesforce ID.

#### 'subaccountNumber'

String that corresponds to the ccrz SubaccountNumber c field.

#### 'token'

String that corresponds to the ccrz Token c field.

#### SEE ALSO:

ccrz\_\_E\_StoredPayment\_\_c

# ccrz.cc\_hk\_Payment.convertTxnPaymentToMap

Parses data on a specified ccrz E TransactionPayment c record and returns a Map<String, Object>.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static Map<String, Object> convertTxnPaymentToMap(ccrz E TransactionPayment c)

# Inputs (Required)

ccrz E TransactionPayment c record to evaluate.

## Outputs

Map<String, Object> that includes the following keys, which correspond to fields on the input ccrz\_E\_TransactionPayment\_c record:

#### 'account'

ID that corresponds to the ccrz Account c field.

#### 'accountNumber'

String that corresponds to the ccrz AccountNumber c field.

#### 'accountType'

String that corresponds to the ccrz AccountType c field.

#### 'amount'

Decimal that corresponds to the ccrz Amount c field.

#### 'billTo'

ID that corresponds to the ccrz BillTo c field.

### 'ccOrder'

ID that corresponds to the ccrz CCOrder c field.

### 'currencyIsoCode'

String that corresponds to the ccrz CurrencyISOCode c field.

#### 'expirationMonth'

Integer that corresponds to the ccrz ExpirationMonth c field.

'expirationYear'

# Integer that corresponds to the ccrz ExpirationYear c field. 'name' String that corresponds to the Name field. 'invoiceAppliedFor' ID that corresponds to the ccrz InvoiceAppliedFor c field. 'invoiceAppliedTo' ID that corresponds to the ccrz InvoiceAppliedTo c field. ID that corresponds to the ccrz ParentTransactionPayment c field. 'paymentTS' Datetime that corresponds to the ccrz TransactionTS c field. 'paymentTSStr' String that corresponds to the ccrz TransactionTS c field. 'paymentType' String that corresponds to the ccrz PaymentType c field. 'requestAmount' Decimal that corresponds to the ccrz RequestAmount c field. 'sfid' String that corresponds to the Salesforce ID. 'soldTo' ID that corresponds to the ccrz SoldTo c field. 'sourceTransactionPayment' ID that corresponds to the ccrz SourceTransactionPayment c field. 'subAccountNumber' String that corresponds to the ccrz SubAccountNumber c field. 'transactionPaymentId' String that corresponds to the ccrz TransactionPaymentId c field. 'transactionType' String that corresponds to the ccrz TransactionType c field. SEE ALSO: ccrz\_\_E\_TransactionPayment\_\_c Salesforce Help Generate an Invoice for a Buyer's Order

# $ccrz.cc\_hk\_Payment.convertTxnPaymentRefToMap$

Parses only the reference data on a specified ccrz\_\_E\_TransactionPayment\_\_c record and returns a Map<String, Object>.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static Map<String, Object> convertTxnPaymentRefToMap(ccrz\_\_E\_TransactionPayment\_\_c)

### Inputs (Required)

ccrz E TransactionPayment c record to evaluate.

## Outputs

Map<String, Object> that includes the following keys, which correspond to fields on the input ccrz E TransactionPayment c record:

#### 'name'

String that corresponds to the Name field.

### 'sfid'

String that corresponds to the Salesforce ID.

### 'transactionPaymentId'

String that corresponds to the ccrz TransactionPaymentId c field.

#### SEE ALSO:

ccrz\_\_E\_TransactionPayment\_\_c

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.cc\_hk\_Payment.createStoredPayment

Creates a stored payment from transaction payment details during checkout. This method is also called when a buyer creates a purchase order (PO) from the My Wallet section of the My Account page. For custom payment implementations not defined in the managed package, this method isn't called. This method does *not* support Apex callouts.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> createStoredPayment(Map<String, Object>)

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA

ccrz.cc hk Payment.TransactionPaymentParams object that contains the transaction payment details.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA

An instance of ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_PROCESSED\_DATA that contains the input transaction payment details.

This method also creates a ccrz\_E\_StoredPayment\_\_c record, sets the following fields, and executes the DML insert operation on the record:

Field	Source Value
ccrzAccountc	ccrz.cc_CallContext.currAccountId
ccrzAccountNumberc	accountNumber field of ccrz.cc_hk_Payment.TransactionPaymentParams
ccrzAccountTypec	accountType field of ccrz.cc_hk_Payment.TransactionPaymentParams
ccrzDisplayNamec	displayName field of ccrz.cc_hk_Payment.TransactionPaymentParams
ccrzEffectiveAccountIDc	ccrz.cc_CallContext.effAccountId
ccrzEnabledc	true
ccrzExpMonthc	expirationMonth field of ccrz.cc_hk_Payment.TransactionPaymentParams
ccrzExpYearc	expirationYear field of ccrz.cc_hk_Payment.TransactionPaymentParams

Field	Source Value
ccrzPaymentTypec	<pre>paymentType field of ccrz.cc_hk_Payment.TransactionPaymentParams</pre>
ccrzStorefrontc	ccrz.cc_CallContext.storefront
ccrzSubaccountNumberc	<pre>subAccountNumber field of ccrz.cc_hk_Payment.TransactionPaymentParams</pre>
ccrzTokenc	<pre>subAccountNumber field of ccrz.cc_hk_Payment.TransactionPaymentParams</pre>
ccrzUserc	ccrz.cc_CallContext.currUserId
OwnerId	ccrz.cc_CallContext.currUserId

#### SEE ALSO:

ccrz\_\_E\_StoredPayment\_\_c

Inserting and Updating Records

Salesforce Help Configure Payment Options Available on the Checkout Page

Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page

# $ccrz.cc\_hk\_Payment.deserialize Transaction Params$

Parses JSON input and return a ccrz.cc hk Payment.TransactionPaymentParams object.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

 ${\tt global\ static\ ccrz.cc\_hk\_Payment.TransactionPaymentParams\ deserializeTransactionParams\ (String)}$ 

# Inputs (Required)

#### transactionParams

JSON-formatted string of transaction payment properties and their values.

## **Outputs**

```
ccrz.cc hk Payment.TransactionPaymentParams object.
```

SEE ALSO:

ccrz.cc\_hk\_Payment

# ccrz.cc\_hk\_Payment.fetchPaymentTypes

Returns all configuration settings defined in each payment type's respective configuration module.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> fetchPaymentTypes(Map<String, Object>)
```

## Inputs (Required)

Map<String, Object> that must include the following required keys:

```
ccrz.cc_hk_Payment.PARAM_APPL_PAYMENT_TYPES
```

String that specifies a comma-separated list of payment types, such as po, credit, wire.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Payment.PARAM PAYMENT TYPES

Map<String, Map<String, Object>> where:

 Each key in the outer map corresponds to one payment type specified in ccrz.cc\_hk\_Payment.PARAM\_APPL\_PAYMENT\_TYPES, such as po. • Each inner map describes a key-value pair of a payment type's configuration and its value.

#### SEE ALSO:

Salesforce Help Manage Configuration Settings

Salesforce Help Set Up Payment Types for Storefront Purchases

Salesforce Help Configure Payment Options Available on the Checkout Page

Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.cc\_hk\_Payment.fetchStoredPayments

Returns the stored payments available for checkout, invoices, or the My Wallet section of the My Account page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

[1] Important: In B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), this method defines legacy behavior. The managed package instead references the ccrz.ccApiStoredPayment.fetch global API method by default. To continue using existing extensions of this method, change the Use Payment Hook configuration of the My Wallet module in your storefront configuration settings to TRUE. For new solutions, extend the ccrz.ccServiceStoredPayment data service provider class.

## **Signature**

global virtual Map<String, Object> fetchStoredPayments(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.cc hk Payment.PARAM PAYMENT CTX

String that specifies the one of the following values for the context of the payment:

• ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX\_CHECKOUT for a payment made during checkout. By default, this key's value is co.

- ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX\_INVOICE for a payment made against an invoice. By default, this key's value is inv.
- ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX\_WALLET for a stored payment in the My Wallet section of the My Account page. By default, this key's value is wlt.

## Logic Performed

This method completes the following actions:

- 1. Calls the ccrz.cc\_hk\_Payment.getApplicablePaymentTypes method for returning the allowed payment types for the specified ccrz.cc hk Payment.PARAM PAYMENT CTX.
- 2. Queries for ccrz E StoredPayment c records that exist for those allowed types.
- 3. Calls the ccrz.cc\_hk\_Payment.convertStoredPaymentToMap method for parsing each ccrz\_E StoredPayment c record and returning its data as a Map<String, Object>.

### Outputs

Map<String, Object> that can include the following keys:

### ccrz.cc hk Payment.PARAM STORED PAYMENTS

List<Map<String, Object>> where each Map<String, Object> represents a ccrz\_\_E\_StoredPayment\_\_c record, which can be serialized to JSON.

#### SEE ALSO:

```
ccrz_E_StoredPayment__c
ccrz.cc_hk_Payment.getApplicablePaymentTypes
ccrz.cc_hk_Payment.convertStoredPaymentToMap
Salesforce Help Configure Payment Options Available on the Checkout Page
Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page
```

# ccrz.cc\_hk\_Payment.fetchTransactionPayment

Provides an extension point for showing transaction payment data on the storefront's Transaction Payment Detail page.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> fetchTransactionPayment(Map<String, Object>)

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.cc hk Payment.PARAM PAYMENTID

ccrz E TransactionPayment c record to evaluate.

This method passes the ccrz E TransactionPayment c to the

ccrz.cc\_hk\_Payment.convertTxnPaymentToMap method, which parses the record and returns a Map<String, Object> of its data.

### Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Payment.PARAM PAYMENT

Map<String, Object> that contains the results of the ccrz.cc\_hk\_Payment.convertTxnPaymentToMap method. By default, this return data includes:

- The transaction payment.
- Any child transaction payments, which can exist when a single transaction applies to multiple records. For example, when similar
  transaction details apply to multiple payments, a parent transaction can contain the shared details, but child transactions can
  specify the individual payments.
- Any source transaction payments, which can exist for a chain of transactions. For example, in an authorization and capture chain, the authorization is the source transaction payment and the capture is the current transaction payment.

SEE ALSO:

ccrz\_\_E\_TransactionPayment\_\_c

# ccrz.cc\_hk\_Payment.getApplicablePaymentTypes

Provides an extension point for overriding the allowed payment types for checkout, invoices, or the My Wallet section of the My Account page.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global virtual Map<String, Object> getApplicablePaymentTypes(Map<String, Object>)

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.cc hk Payment.PARAM APPL PAYMENT TYPES

String that specifies a comma-separated list of allowed payment types for the specified ccrz.cc hk Payment.PARAM PAYMENT CTX, such as po,credit,wire.

#### ccrz.cc hk Payment.PARAM PAYMENT CTX

String that specifies the one of the following values for the context of the payment:

- ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX\_CHECKOUT for a payment made during checkout. By default, this key's value is co, which matches the API name for the Checkout configuration module.
- ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX\_INVOICE for a payment made against an invoice. By default, this key's value is inv, which matches the API name for the Invoices configuration module.
- ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX\_WALLET for a stored payment in the My Wallet section of the My Account page. By default, this key's value is wlt, which matches the API name for the My Wallet configuration module.

# Logic Performed

This method looks for a storefront configuration with the name pmts in the configuration module that matches the specified context. For example, for checkout, this method looks for the configuration co.pmts.

#### **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Payment.PARAM APPL PAYMENT TYPES

String that specifies a comma-separated list of allowed payment types for the specified ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX, updated with the result of the method.

#### SEE ALSO:

Salesforce Help Manage Configuration Settings

Salesforce Help Set Up Payment Types for Storefront Purchases

Salesforce Help Configure Payment Options Available on the Checkout Page

Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page

Salesforce Help Generate an Invoice for a Buyer's Order

# ccrz.cc\_hk\_Payment.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_Payment class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static ccrz.cc\_hk\_Payment getInstance(Map<String, Object>)

# Inputs (Optional)

Map<String, Object> that can include the following keys:

### ccrz.cc\_hk\_Payment.PARAM\_STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

# Outputs

This method returns an instance of ccrz.cc hk Payment, or your custom extension point class.

# ccrz.cc\_hk\_Payment.getPaymentProcessor

Creates an instance of the ccrz.ccPaymentProcessor class for the transaction's accountType.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Map<String, Object> getPaymentProcessor(Map<String, Object>)

# Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.cc hk Payment.PARAM ACCOUNT TYPE

String, based on the input data's accountType, that specifies the transaction's method of payment, such as po for purchase order or credit for credit card.

# Logic Performed

This method looks for a storefront configuration, pmt\_key.proc, where key is a configured payment type for the storefront, such as po for a purchase order, that matches ccrz.cc\_hk\_Payment.PARAM\_ACCOUNT\_TYPE. For more information about payment type configurations, see Set Up Payment Types for Storefront Purchases.

# Outputs

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Payment.PARAM PAYMENT PROCESSOR

ccrz.ccPaymentProcessor instance configured for the specified ccrz.cc\_hk\_Payment.PARAM\_ACCOUNT\_TYPE. For example, if the account type is a purchase order, this method returns the ccrz.ccPaymentProcessor for purchase orders.

#### SEE ALSO:

ccrz.ccPaymentProcessor

Salesforce Help Set Up Payment Types for Storefront Purchases

# ccrz.cc\_hk\_Payment.processPayment

Prepares transaction payment data during checkout, and passes that payment information to the ccrz.cc\_hk\_Order.createTransaction method. This method also provides an extension point for implementing validation of a custom payment type. This method supports Apex callouts.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

```
global virtual Map<String, Object> processPayment(Map<String, Object>)
```

## Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.cc hk Payment.PARAM CART

ccrz E Cart c record that's being converted to an order.

#### ccrz.cc hk Payment.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values, which the

```
ccrz.cc hk Payment.deserializeTransactionParams method parses into a
ccrz.cc hk Payment.TransactionPaymentParams Object.
```

Note: To include custom payment fields during checkout, override this method in your custom subscriber class. Be sure to deserialize the string to a different object.

# Logic Performed

This method completes the following actions:

- 1. Sets the transaction payment's amount based on the cart's ccrz TotalAmount c value.
- 2. Evaluates the transaction input data's accountType and sets the ccrz.cc hk Payment.PARAM ACCOUNT TYPE
- 3. Invokes the ccrz.cc hk Payment.getPaymentProcessor method for returning the ccrz.ccPaymentProcessor configured for the specified account Type.
- 4. Invokes the ccrz.ccPaymentProcessor.preProcess method for handling any Apex callouts for the specified accountType. If the transaction's input data specified a storedPaymentId, this method sets the ccrz.cc hk Payment.PARAM STORED PAYMENT key in the input map for ccrz.ccPaymentProcessor.preProcess.
- Important: When you implement a custom payment type, be sure to override this method in your extension implementation to include validation for the payment. The exact validation logic required depends on the conventions and requirements of the payment type.

## **Outputs**

Map<String, Object> that can include the following keys:

#### ccrz.cc hk Payment.PARAM ACCOUNT TYPE

String, based on the input data's accountType, that specifies the transaction's method of payment, such as purchase order (PO), credit card, and so on. This value is passed to the ccrz.ccPaymentProcessor.preProcess method.

### ccrz.cc hk Payment.PARAM PAYMENT PROCESSOR

ccrz.ccPaymentProcessor instance configured for the specified accountType, which the ccrz.cc hk Payment.getPaymentProcessor method returned.

### ccrz.cc hk Payment.PARAM TRANSACTION DATA

A copy of the original input ccrz.cc hk Payment.PARAM TRANSACTION DATA.

### ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_PROCESSED\_DATA

ccrz.cc\_hk\_Payment.TransactionPaymentParams object that represents the original input ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA, updated with the cart's amount set.

#### SEE ALSO:

ccrz.ccPaymentProcessor ccrz.ccPaymentProcessor.preProcess ccrz.cc\_hk\_Order.createTransaction Salesforce Help Set Up Payment Types for Storefront Purchases Invoking Callouts Using Apex

# ccrz.cc\_hk\_Payment.removeStoredPayment

Deletes a stored payment from the My Wallet section of the My Account page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

[1] Important: In B2B Commerce for Visualforce Winter '21 (managed package version 4.13 and API version 12), this method defines legacy behavior. The managed package instead references the ccrz.ccLogicStoredPaymentRemove logic service provider class by default. To continue using existing extensions of this method, change the Use Payment Hook configuration of the My Wallet module in your storefront configuration settings to TRUE. For new solutions, extend the ccrz.ccLogicStoredPaymentRemove logic service provider class.

### Signature

global virtual Map<String, Object> removeStoredPayment(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that must include the following required keys:

### ccrz.cc hk Payment.PARAM STORED PAYMENT ID

String that specifies the Salesforce ID of the ccrz\_E\_StoredPayment\_c record to delete.

## Outputs

Boolean

Value	Usage
true	The call completed.
false	The call encountered errors.  Tip: B2B Commerce for Visualforce doesn't always return an exception for any errors that can occur. When this value is false, consider rolling back the API transaction to a previous savepoint.

SEE ALSO:

ccrz\_\_E\_StoredPayment\_\_c

Salesforce Help Allow a Buyer to Manage Stored Payments on the My Account Page

# ccrz.cc\_hk\_Pricing

Implement subscriber-defined behavior for pricing products, including entitlements, contracts, and other price rules. This class defines a legacy behavior. For new implements, extend the ccrz.cclogicProductPricing logic service provider instead.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.cc\_hk\_Pricing



**Important:** The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

ccrz.ccLogicProductPricing

# ccrz.cc\_hk\_SSO

Implement subscriber-defined behavior for overriding default storefront URLs, such as to add a single sign-on (SSO) service for logging in.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.cc\_hk\_SSO



**Important:** The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# ccrz.cc\_hk\_Subscriptions

Implement subscriber-defined behavior for overriding the default business logic for processing subscriptions and creating installment orders.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.cc hk Subscriptions



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# ccrz.cc\_hk\_TaxCalculation

Calculate the tax amount on a particular cart from the Order Review section of the storefront's Checkout page. The calculated tax is based on the taxable products included in the cart and the cart's shipping address.

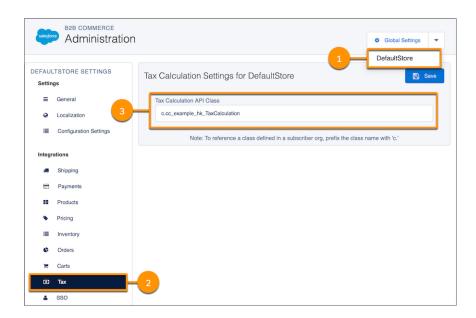
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Extension Class Setting in CC Admin

If you extend the default version of this class, update your storefront settings in CC Admin. Select your storefront (1), and then select **Tax** in the Integrations section of the Storefront Settings menu (2). Update the Tax Calculation API Class field (3) with your custom class name, prefixed with c., such as c.cc\_example hk\_TaxCalculation.



Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

# Methods

#### IN THIS SECTION:

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_TaxCalculation class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

#### getTaxAmount

Returns the tax amount for the current cart. This method only executes when the ccrz.cc\_hk\_skipTaxCalculation method returns false. To integrate an external tax service, override this method in your subscriber code.

## skipTaxCalculation

Determines whether the Checkout page calculates tax for the current cart.

### Avalara AvaTax SDK Example for ccrz.cc\_hk\_TaxCalculation

To implement the Avalara AvaTax software development kit (SDK) for storefront tax calculation, create custom subscriber code that extends the default ccrz.cc\_hk\_TaxCalculation class. The following code shows examples of overriding the getTaxAmount method.

## SEE ALSO:

Salesforce Help Show Fees and Charges in the Order Review Section of the Checkout Page

# ccrz.cc\_hk\_TaxCalculation.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_TaxCalculation class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static ccrz.cc\_hk\_TaxCalculation getInstance(Map<String, Object>)

# Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk TaxCalculation.PARAM STOREFRONT

String that specifies the name of a storefront.



Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

### Outputs

This method returns an instance of ccrz.cc hk TaxCalculation, or your custom extension point class.

# ccrz.cc\_hk\_TaxCalculation.getTaxAmount

 $Returns the {\tt tax} amount for the {\tt current} {\tt cart}. This method only executes when the {\tt ccrz.cc\_hk\_skipTaxCalculation} method$ returns false. To integrate an external tax service, override this method in your subscriber code.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Decimal getTaxAmount(Map<String, Object>)

## Inputs (Required)

Map<String, Object> that must include the following required keys:

ccrz.cc hk TaxCalculation.CART ID

String that specifies the 18-digit Salesforce ID of the cart to evaluate.

ccrz.cc\_hk\_TaxCalculation.PARAM\_SHIPADDR

ccrz.cc bean MockContactAddressthat

## Outputs

Decimal value of the calculated tax amount.



Example:

SEE ALSO:

ccrz\_\_E\_TaxRate\_\_c

# ccrz.cc\_hk\_TaxCalculation.skipTaxCalculation

Determines whether the Checkout page calculates tax for the current cart.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global virtual Boolean skipTaxCalculation(Map<String, Object>)

## Inputs (Optional)

None

## Outputs

Boolean

Value	Usage
true	<ul> <li>Either of the following conditions are true:</li> <li>The Skip Tax Calculation option in the storefront general settings is enabled.</li> <li>The current account has the ccrzTaxExemptAccountc field enabled.</li> <li>The ccrz.cc_hk_TaxCalculation.getTaxAmount method isn't called.</li> </ul>
false	<ul> <li>Both of the following conditions are true:</li> <li>The Skip Tax Calculation option in the storefront general settings is disabled.</li> <li>The current account has the ccrzTaxExemptAccountc field disabled.</li> <li>The ccrz.cc_hk_TaxCalculation.getTaxAmount method is called for returning the current cart's applicable tax amount.</li> </ul>

#### SEE ALSO:

Account (B2B Commerce for Visualforce)

Salesforce Help Storefront General Settings

## Avalara AvaTax SDK Example for ccrz.cc\_hk\_TaxCalculation

To implement the Avalara AvaTax software development kit (SDK) for storefront tax calculation, create custom subscriber code that extends the default ccrz.cc\_hk\_TaxCalculation class. The following code shows examples of overriding the getTaxAmount method.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Sample Code using Avalara AvaTax SDK



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

#### SEE ALSO:

ccrz.cc\_hk\_TaxCalculation.getTaxAmount

Salesforce Help Market Templates for B2B Commerce for Visualforce

# ccrz.cc\_hk\_UserInterface

Specify the JavaScript and CSS libraries referenced in each storefront page, including standard includes, proprietary libraries, and theme-specific files in a static resource.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## v004 Inner Class

The ccrz.cc\_hk\_UserInterface extension point class defines an inner class, v004, that specifies the most recent default libraries and logic for evaluating configuration setting values. The v004 inner class extends the v003 and v002 inner classes, which are deprecated.



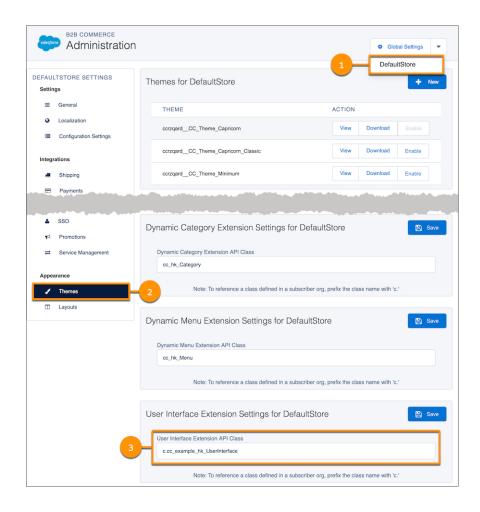
Note: The reference for each method specifies the behavior for only the v004 inner class.

# Extension Class Setting in CC Admin

If you extend the default version of this class, extend the v004 inner class:

```
global virtual with sharing class cc_example_hk_UserInterface extends
ccrz.cc_hk_UserInterface.v004 {
    global cc_example_hk_UserInterface {
        // Your custom logic
    }
}
```

Then, update your storefront settings in CC Admin. Select your storefront (1), and then select **Themes** in the Integrations section of the Storefront Settings menu (2). Update the User Interface Extension API Class field (3) with your custom class name, prefixed with c., such as  $c.cc_{example_hk_UserInterface}$ .



Tip: For more help with creating an extension, including considerations and conventions, see Extend a Global Extension Point Class.

## Methods

## IN THIS SECTION:

## headContent

Calls other inner methods of the ccrz.cc\_hk\_UserInterface class for populating the default JavaScript and CSS libraries referenced in each storefront page's <head> element.

#### metaContent

Returns a default definition for the <meta name="viewport"> element included in each storefront page's <head> element.

#### resourcePath

Returns the relative URL path from the storefront to a JavaScript or CSS file included in a static resource that the managed package installs. Other methods of the ccrz.cc\_hk\_UserInterface class reference this path when constructing <script> or link> elements for inclusion in each page's <head>.

#### themeResourcePath

Returns the relative URL path from the storefront to a JavaScript or CSS file included a static resource for the storefront's enabled theme. Other methods of the ccrz.cc\_hk\_UserInterface class reference this path when constructing <script> or nk> elements for inclusion in each page's <head>.

#### standardIncludes

Returns <script> and <link> elements that reference the default third-party JavaScript libraries and CSS files, respectively. These libraries are referenced in each storefront page's <head> element.

#### ccrzIncludes

Returns <script> elements that reference proprietary JavaScript libraries or heavily modified third-party libraries that are essential to default storefront functionality. These libraries are referenced in each storefront page's <head> element.

## pageConfigCSS3Includes

Returns < link> elements that reference custom CSS files used with a Bootstrap 3-enabled storefront theme. These files are referenced in each storefront page's <head> element.

#### pageConfigCSSIncludes

Returns <link> elements that reference custom CSS files used with a Bootstrap 2.3.2-enabled storefront theme. These files are referenced in each storefront page's <head> element.

#### standardRespondJS

Returns a <script> element that specifies the path to the third-party respond.js library, which is used with a Bootstrap 2.3.2-enabled storefront theme. This library is referenced in each storefront page's <head> element.

## pageConfigJS3Includes

Returns <script> elements that reference custom JavaScript libraries used with a Bootstrap 3-enabled storefront theme. These libraries are referenced in each storefront page's <head> element.

## pageConfigJSIncludes

Returns <script> elements that reference custom JavaScript libraries used with a Bootstrap 2.3.2-enabled storefront theme. These libraries are referenced in each storefront page's <head> element.

#### standardUIProperties

Returns <script> elements that reference the default uiproperties.js file and any theme-specific override of this file, if applicable. The uiproperties.js file defines default Handlebars templates, CSS selectors, and other properties for rendering storefront components. These files are referenced in each storefront page's <head> element.

#### endContent

Defines <script> elements that reference third-party JavaScript libraries for a Bootstrap 3-enabled storefront theme. These libraries are referenced just before the HTML Body Include End page include.

## canonicalUrlInclude

Returns the canonical and alternate language links for the Home page, Product List page, and Product Detail page.

#### getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_UserInterface class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

# ccrz.cc\_hk\_UserInterface.headContent

Calls other inner methods of the ccrz.cc\_hk\_UserInterface class for populating the default JavaScript and CSS libraries referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

```
global virtual Map<String, Object> headContent(Map<String, Object>)
```

## Inputs

None

## Outputs

Map<String, Object> that includes the following key. The exact content depends on which Bootstrap version your storefront

## ccrz.cc\_hk\_UserInterface.HEAD\_CONTENT

String that contains the HTML content to add to the page's <head> element. This content is added to the page source after the Head Include Begin and before the JavaScript that specifies page labels:

```
<head>
    <!--Head Include Begin-->
    <apex:include id="hib" pageName="{!headerBeginPage}" rendered="{!useHeaderBegin}"</pre>
/>
    <!--Core objects definitions-->
    <script type="text/javascript">
        var CCRZ = CCRZ || {};
        CCRZ.devMode = CCRZ.devMode||{!storefront.DevMode c};
    </script>
    <!--ccrz.cc hk UserInterface.HEAD CONTENT inserted here-->
    <!--Internal component that creates the JavaScript page labels-->
    <c:cc PageLabelsInclude />
    <!--Head Include End-->
```

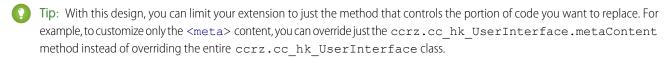
<apex:include id="hie" pageName="{!headerEndPage}" rendered="{!useHeaderEnd}" />
</head>

For a Bootstrap 3-enabled storefront, this method calls the following inner methods for populating the specific <link> and <script> elements to add:

- 1. metaContent
- 2. standardIncludes
- 3. pageConfigCSS3Includes
- 4. standardRespondJS
- 5. pageConfigJS3Includes
- 6. standardUIProperties
- 7. canonicalUrlInclude

For a Bootstrap 2.3.2-enabled storefront, this method calls the following inner methods for populating the specific <link> and <script> elements to add:

- 1. metaContent
- 2. standardIncludes
- 3. pageConfigCSSIncludes
- 4. standardRespondJS
- 5. pageConfigJSIncludes
- **6.** standardUIProperties
- 7. canonicalUrlInclude



SEE ALSO:

Salesforce Help Default JavaScript Libraries for Storefront Pages

# ccrz.cc\_hk\_UserInterface.metaContent

Returns a default definition for the <meta name="viewport"> element included in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

```
global virtual String metaContent()
```

## Inputs

None

## Outputs

String that specifies the <meta name="viewport"> content, depending on which Bootstrap version your storefront uses:

#### ccrz.cc hk UserInterface.BS3 STANDARD META VIEWPORT

String that specifies default <meta> element values when the storefront uses the Bootstrap 3 framework:

```
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
```

#### ccrz.cc hk UserInterface.STANDARD META VIEWPORT

String that specifies default <meta> element values when the storefront uses the Bootstrap 2.3.2 framework:

(1) Important: The Bootstrap 2.3.2 library is intended only for compatibility with solutions that are upgrading from older versions of the managed package. We recommend that new solutions always use the Bootstrap 3 library.

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=no"
/>
```

#### SEE ALSO:

Salesforce Help Default JavaScript Libraries for Storefront Pages

Mozilla Developers < meta>: The Document-level Metadata element

# ccrz.cc hk UserInterface.resourcePath

Returns the relative URL path from the storefront to a JavaScript or CSS file included in a static resource that the managed package installs. Other methods of the ccrz.cc\_hk\_UserInterface class reference this path when constructing <script> or nk> elements for inclusion in each page's <head>.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

```
global static String resourcePath(String, String)
```

## Inputs

#### resourceName

String that specifies the name of a static resource that contains JavaScript or CSS files, such as the CC JavaScript Framework or CCRZ JS static resources that the managed package installs.

#### elementPath

String that specifies the path to a specific file within the resourceName.



Note: This string can't begin with a forward slash character (/).

## Outputs

String that specifies the relative path from the storefront to a file in the specified static resource, prefixed with the appropriate namespace, such as ccrz.



## Example: Example

The CCRZ JS static resource that the managed package installs includes several files, such as bootstrap.css and jquery.js. To construct paths to these files, other methods of the ccrz.cc hk UserInterface class invoke the resourcePath method:

```
resourcePath(CCRZ JS, 'v004/boot3/css/bootstrap.css')
resourcePath(CCRZ JS, 'v004/boot3/jquery-3.5.1.js')
```

In a link> or <script> element, these values output as:

```
/DefaultStore/resource/1590503075000/ccrz__CCRZ_JS/v004/boot3/css/bootstrap.css
/DefaultStore/resource/1590503075000/ccrz CCRZ JS/v004/boot3/jquery-3.5.1.js
```

#### SEE ALSO:

Salesforce Help Style Your Storefront with a Theme

## ccrz.cc\_hk\_UserInterface.themeResourcePath

Returns the relative URL path from the storefront to a JavaScript or CSS file included a static resource for the storefront's enabled theme. Other methods of the ccrz.cc\_hk\_UserInterface class reference this path when constructing <script> or elements for inclusion in each page's <head>.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

global static String themeResourcePath(String)

## Inputs

#### elementPath

String that specifies the path to a specific file within the static resource for storefront's enabled theme.



Note: This string can't begin with a forward slash character (/).

## Outputs

String that specifies the relative path from the storefront to a file in the theme's static resource, prefixed with the appropriate namespace, such as ccrz.



## Example: Example

The CC\_Theme\_Capricorn static resource that the managed package installs includes several files, such as styles.css and an override of the default uiproperties.js. To construct paths to these files, other methods of the ccrz.cc hk UserInterface class invoke the themeResourcePath method:

```
themeResourcePath('css3/styles.css')
themeResourcePath(js/uiproperties.js')
```

In a link> or <script> element, these paths output as:

```
/ {\tt DefaultStore/resource/1590503075000/ccrz\_CC\_Theme\_Capricorn/css3/styles.css} / {\tt DefaultStore/resource/1590503075000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/1590503000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/1590503000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/1590503000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/1590503000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/15905000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/15905000/ccrz\_CC\_Theme\_Capricorn/js/uiproperties.js} / {\tt DefaultStore/resource/15
```

SEE ALSO:

Salesforce Help Style Your Storefront with a Theme

## ccrz.cc\_hk\_UserInterface.standardIncludes

Returns <script> and <link> elements that reference the default third-party JavaScript libraries and CSS files, respectively. These libraries are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

global virtual String standardIncludes()

## Inputs

None



**Note**: This method executes only when the Override Standard Include storefront configuration setting is FALSE (the default value).

## **Outputs**

String that specifies the <script> and <link> elements for default JavaScript libraries and CSS files, respectively. The exact string depends on:

- Which Bootstrap version your storefront uses.
- The value of the Use Minified storefront configuration setting.

#### **Bootstrap 3 (default)**

When Use Minified is TRUE (its default value), this method returns the following string:

```
<link type="text/css" rel="stylesheet"
href="CCRZ_JS_resourcePath/v004/boot3/css/ccrz-libs.min.css" />
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/ccrz-libsh-min.js"></script>
```

When Use Minified is FALSE, this method returns the following string:

```
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/boot3/css/bootstrap-datepicker3.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/boot3/css/font-awesome.min.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/boot3/css/jquery-ui-custom.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/boot3/css/bootstrap.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/boot3/css/shimbs3.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/boot3/css/nouislider.css" />
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/jquery-3.5.1.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/jquery-migrate-3.3.0.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/jquery-ui-custom.1.13.2.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/jquery.validate.1.19.5.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/underscore-1.13.1.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/backbone-1.4.0.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/accounting-0.4.2.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/boot3/handlebars-v4.7.7.js"></script>
```

Note: References to other default libraries for a Bootstrap 3-enabled storefront are returned from the ccrz.cc hk UserInterface.endContent method.

## Bootstrap 2.3.2

(1) Important: The Bootstrap 2.3.2 library is intended only for compatibility with solutions that are upgrading from older versions of the managed package. We recommend that new solutions always use the Bootstrap 3 library.

When Use Minified is TRUE, this method returns the following string:

```
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/classic/ccrz-lib-min.js"></script>
```

When Use Minified is FALSE, this method returns the following string:

```
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery-3.5.1.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery-migrate-3.3.0.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery-ui-custom.1.13.2.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery.cookie-1.4.1.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery.hoverIntent-1.10.1.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery-vertical-accordion-menu/js/jquery.dcjqaccordion.2.7.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/jquery.validate.1.19.5.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/underscore-1.13.1.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/backbone-1.4.0.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/modernizr-2.8.3.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/accounting-0.4.2.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/handlebars-v4.7.7.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/js-image-slider-2016.9.27.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/bootstrap-datepicker-1.9.0.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/js2form.2011.9.19.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/form2js-2010.9.9.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/backbone.paginator.2.0.8.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/bootstrap-2.3.2/js/bootstrap.js"></script>
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/nouislider.14.6.2.js"></script>
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/classic/css/bootstrap-datepicker.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/classic/css/jquery-ui-custom.css" />
<link type="text/css" rel="stylesheet"</pre>
href="CCRZ JS resourcePath/v004/classic/css/nouislider.css" />
```

Note: The CCRZ\_JS\_resourcePath variable represents the relative path from the storefront to the namespaced CCRZ\_JS static resource that the managed package installs, such as /DefaultStore/resource/1590503075000/ccrz CCRZ JS. The

ccrz.cc hk UserInterface.resourcePath method returns each file's path in the static resource.



Note: The specific libraries and versions of those libraries that are referenced vary depending on your version of the managed package, including patch releases. For more information, see Default JavaScript Libraries for Storefront Pages.

#### SEE ALSO:

Salesforce Help Default JavaScript Libraries for Storefront Pages Salesforce Help Exclude the Standard CSS and JavaScript Libraries

# ccrz.cc\_hk\_UserInterface.ccrzIncludes

Returns <script> elements that reference proprietary JavaScript libraries or heavily modified third-party libraries that are essential to default storefront functionality. These libraries are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

global virtual String ccrzIncludes()

## Inputs

None



Note: This method is called within the ccrz.cc hk UserInterface.standardIncludes method for appending these libraries to the other standard JavaScript and CSS libraries.

## Outputs

String that specifies <script> elements for the JavaScript libraries to include. The exact string depends on:

- Which Bootstrap version your storefront uses.
- The value of the Use Minified storefront configuration setting.

#### **Bootstrap 3 (default)**

When Use Minified is TRUE (its default value), this method returns the following string:

```
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/cc3-min.js"></script>
```

When Use Minified is FALSE, this method returns the following string:

```
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/jquery.currency.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/cloudcraze.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/CC_Backbone.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/backbone_models.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/backbone_models.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/analytics.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script
```

#### Bootstrap 2.3.2

(1) Important: The Bootstrap 2.3.2 library is intended only for compatibility with solutions that are upgrading from older versions of the managed package. We recommend that new solutions always use the Bootstrap 3 library.

When Use Minified is TRUE, this method returns the following string:

```
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/cc-min.js"></script>
```

When Use Minified is FALSE, this method returns the following string:

```
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/jquery.currency.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/controllers_new_slider.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/cloudcraze.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/CC_Backbone.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/backbone_models.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/analytics.js"></script>
<script type="text/javascript"
src="CC_JavaScript_Framework_resourcePath/js/analytics.js"></script></script></script>
</script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip
```

Note: The CC\_JavaScript\_Framework\_resourcePath variable represents the relative path from the storefront to the namespaced CC\_JavaScript\_Framework static resource that the managed package installs, such as /DefaultStore/resource/1590503075000/ccrz\_\_CC\_Javascript\_Framework. The ccrz.cc\_hk\_UserInterface.resourcePath method returns each file's path in the static resource.

#### SEE ALSO:

CC\_Backbone.js cloudcraze.js

# ccrz.cc\_hk\_UserInterface.pageConfigCSS3Includes

Returns <link> elements that reference custom CSS files used with a Bootstrap 3-enabled storefront theme. These files are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: This method returns a value only for a Bootstrap 3-enabled storefront, where the Template Version storefront configuration setting is boot3 (its default value). We recommend that new solutions always use boot3.

## Signature

global static String pageConfigCSS3Includes()

## Inputs

None

## Outputs

String that specifies <link> elements for each CSS file to include:

<link type="text/css" rel="stylesheet" href="themeResourcePath/relativePathToCSSFile />



Note: The themeResourcePath variable represents the relative path from the storefront to the namespaced static resource for the storefront's enabled theme, such as

/DefaultStore/resource/1590503075000/ccrz CC Theme Capricorn. ccrz.cc hk UserInterface.themeResourcePath method returns each file's path in the static resource.

Each CSS file also requires a corresponding CSS 3 Include configuration in your storefront's configuration settings that specifies this relative path. For help with setting up a theme static resource and defining its CSS paths, see Style Your Storefront with a Theme.



The managed package installs a CC Theme Capricorn static resource that contains files for the Capricorn Coffee demo storefront. That static resource contains a css3 directory, which contains a styles.css file. The demo storefront specifies a CSS3 Include

configuration setting, with a value of css3/styles.css. This method then returns the following <link> definition for that CSS file:

```
<link type="text/css" rel="stylesheet"</pre>
href="/DefaultStore/resource/1590503075000/ccrz CC Theme Capricorn/css3/styles.css"
```

SEE ALSO:

Salesforce Help Style Your Storefront with a Theme

# ccrz.cc\_hk\_UserInterface.pageConfigCSSIncludes

Returns <1ink> elements that reference custom CSS files used with a Bootstrap 2.3.2-enabled storefront theme. These files are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



(1) Important: This method returns a value only for a Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is classic. This configuration value is intended only for compatibility with solutions that are upgrading from older versions of the managed package. We recommend that new solutions always use boot3 instead.

## Signature

```
global static String pageConfigCSSIncludes()
```

## Inputs

None

## Outputs

String that specifies <link> elements for each CSS file to include:

```
<link type="text/css" rel="stylesheet" href="themeResourcePath/relativePathToCSSFile />
```



Note: The themeResourcePath variable represents the relative path from the storefront to the namespaced static resource for the storefront's enabled theme, such as

/DefaultStore/resource/1590503075000/ccrz CC Theme Capricorn. ccrz.cc hk UserInterface.themeResourcePath method returns each file's path in the static resource.

For help with setting up a theme static resource and defining its CSS paths, see Style Your Storefront with a Theme.

## ccrz.cc\_hk\_UserInterface.standardRespondJS

Returns a <script> element that specifies the path to the third-party respond.js library, which is used with a Bootstrap 2.3.2-enabled storefront theme. This library is referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



(1) Important: This method returns a value only for a Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is classic. This configuration value is intended only for compatibility with solutions that are upgrading from older versions of the managed package. We recommend that new solutions always use boot 3 instead.

## Signature

global virtual String standardRespondJS(String)

## Inputs

None

## Outputs

String that specifies a <script> element for the JavaScript library to include:

```
<script type="text/javascript"</pre>
src="CCRZ JS resourcePath/v004/classic/respond-1.4.2.js"></script>
```



Note: The <code>themeResourcePath</code> variable represents the relative path from the storefront to the namespaced static resource for the storefront's enabled theme, such as

/DefaultStore/resource/1590503075000/ccrz CC Theme Capricorn. ccrz.cc hk UserInterface.themeResourcePath method returns each file's path in the static resource. For a Bootstrap 3-enabled storefront, this method returns an empty string.

# ccrz.cc\_hk\_UserInterface.pageConfigJS3Includes

Returns <script> elements that reference custom JavaScript libraries used with a Bootstrap 3-enabled storefront theme. These libraries are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note**: This method returns a value only for a Bootstrap 3-enabled storefront, where the Template Version storefront configuration setting is boot3 (its default value). We recommend that new solutions always use boot3.

## Signature

global static String pageConfigJS3Includes()

## Inputs

None

#### **Outputs**

String that specifies <script> elements for each JavaScript file to include:

```
<script type="text/javascript"
src="themeResourcePath/relativePathToJavaScriptFile></script>
```



**Note**: The *themeResourcePath* variable represents the relative path from the storefront to the namespaced static resource for the storefront's enabled theme, such as

# ccrz.cc\_hk\_UserInterface.pageConfigJSIncludes

Returns <script> elements that reference custom JavaScript libraries used with a Bootstrap 2.3.2-enabled storefront theme. These libraries are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

(1) Important: This method returns a value only for a Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is classic. This configuration value is intended only for compatibility with solutions that are upgrading from older versions of the managed package. We recommend that new solutions always use boot3 instead.

## Signature

global static String pageConfigJSIncludes()

## Inputs

None

## Outputs

String that specifies <script> elements for each JavaScript file to include:

<script type="text/javascript"
src="themeResourcePath/relativePathToJavaScriptFile></script>

- Note: The themeResourcePath variable represents the relative path from the storefront to the namespaced static resource for the storefront's enabled theme, such as
  /DefaultStore/resource/1590503075000/ccrz\_\_CC\_Theme\_Capricorn.
  ccrz.cc hk UserInterface.themeResourcePath method returns each file's path in the static resource.
- (1) Important: Each JavaScript file also requires a corresponding page configuration that specifies this relative path within the static resource. Page configurations are deprecated in all versions of the managed package that are currently supported.

# $ccrz.cc\_hk\_UserInterface.standardUIP roperties$

Returns <script> elements that reference the default uiproperties.js file and any theme-specific override of this file, if applicable. The uiproperties.js file defines default Handlebars templates, CSS selectors, and other properties for rendering storefront components. These files are referenced in each storefront page's <head> element.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Note: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## Signature

```
global virtual String standardUIProperties()
```

## Inputs

None

## Outputs

String that specifies <script> elements that reference uiproperties.js. The exact string depends on the value of the Use Minified storefront configuration setting:

• When Use Minified is TRUE (its default value), this method returns the following string:

```
<script type="text/javascript" src="themeResourcePath/js/uiproperties.js />
```

• When Use Minified is FALSE, this method returns the following string:

```
<script type="text/javascript"</pre>
src="CC_JavaScript_Framework_resourcePath/js/uiproperties.js />
<script type="text/javascript" src="themeResourcePath/js/uiproperties.js />
```

- Note: The CC JavaScript Framework resourcePath variable represents the relative path from the storefront to the namespaced CC JavaScript Framework static resource that the managed package installs, such as /DefaultStore/resource/1590503075000/ccrz CC Javascript Framework. The ccrz.cc hk UserInterface.resourcePath method returns each file's path in the static resource.
- Note: The themeResourcePath variable represents the relative path from the storefront to the namespaced static resource for the storefront's enabled theme, such as

/DefaultStore/resource/1590503075000/ccrz\_\_CC\_Theme\_Capricorn.
ccrz.cc hk UserInterface.themeResourcePath method returns each file's path in the static resource.

SEE ALSO:

uiproperties.js

Salesforce Help Style Your Storefront with a Theme

## ccrz.cc\_hk\_UserInterface.endContent

Defines <script> elements that reference third-party JavaScript libraries for a Bootstrap 3-enabled storefront theme. These libraries are referenced just before the HTML Body Include End page include.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



**Note:** This method returns a value only for a Bootstrap 3-enabled storefront, where the Template Version storefront configuration setting is boot3 (its default value). We recommend that new solutions always use boot3.

## Signature

global virtual Map<String, Object> endContent(Map<String, Object>)

## Inputs

None

## Outputs

Map<String, Object> that can include the following keys:

## ccrz.cc\_hk\_UserInterface.EOB\_CONTENT

String that contains the <script> definitions to insert before the HTML Body Include End page include. The exact string depends on the value of the Use Minified storefront configuration setting:

• When Use Minified is TRUE (its default value), this method returns the following string:

```
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/ccrz-libse-min.js"></script>
```

When Use Minified is FALSE, this method returns the following string:

```
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/bootstrap-datepicker-1.9.0.js"></script>
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/js2form.2011.9.19.js"></script>
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/form2js-2010.9.9.js"></script>
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/backbone.paginator.2.0.8.js"></script>
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/backbone.paginator.2.0.8.js"></script>
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/nouislider.14.1.1.js"></script>
<script type="text/javascript"
src="CCRZ_JS_resourcePath/v004/boot3/bootstrap.3.4.1.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script
```

- Note: The CCRZ\_JS\_resourcePath variable represents the relative path from the storefront to the namespaced CCRZ\_JS static resource that the managed package installs, such as /DefaultStore/resource/1590503075000/ccrz\_\_CCRZ\_JS. The ccrz.cc hk UserInterface.resourcePath method returns each file's path in the static resource.
- Note: The specific libraries and versions of those libraries that are referenced vary depending on your version of the managed package, including patch releases. For more information, see Default JavaScript Libraries for Storefront Pages.

SEE ALSO:

Salesforce Help Default JavaScript Libraries for Storefront Pages

# ccrz.cc\_hk\_UserInterface.canonicalUrlInclude

Returns the canonical and alternate language links for the Home page, Product List page, and Product Detail page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Note: This method returns a value for either a Bootstrap 3- or Bootstrap 2.3.2-enabled storefront, where the Template Version storefront configuration setting is either boot3 or classic. We recommend that new solutions always use boot3.

## **Signature**

```
global virtual String canonicalUrlInclude()
```

## Inputs

None



**Note**: This method executes only when the Enable Canonical and Alternate Language Links storefront configuration setting is TRUE.

## Outputs

String that specifies the current page's canonical and alternate language links:

#### **Canonical link**

The authoritative path of the Home page, Product List page, or Product Detail page to present to search engine bots. This URL includes the default storefront locale for a guest user, such as en US.

```
<link rel="canonical"
href="https://www.mydomain.com/DefaultStore/ccrz_ProductList?categoryId=an18digitCategoryID&cclcl=en_US"
/>
```



**Note**: If your storefront uses friendly URLs, the canonical URL for the Product List page and Product Detail page uses the friendly URL values.

## Alternate language link

The authoritative path of Home page, Product List page, or Product Detail page for each locale that your storefront supports, including the default locale. These locale-specific URLs help search engine bots index the page for users in each locale.

```
<link rel="alternate" hreflang="en-us"
href="https://www.mydomain.com/DefaultStore/ccrz_ProductList?categoryId=an18digitCategoryID&cclcl=en_US"
/>
<link rel="alternate" hreflang="ja-jp"
href="https://www.mydomain.com/DefaultStore/ccrz_ProductList?categoryId=an18digitCategoryID&cclcl=ja_JP"
/>
```

#### SEE ALSO:

Salesforce Help Canonical URLs for Storefront Pages
Salesforce Help Alternate Language Links for Storefront Pages
Salesforce Help Insert Canonical URLs and Alternate Language URLs
Salesforce Help Serve Friendly URLs for Storefront Pages

# ccrz.cc\_hk\_UserInterface.getInstance

Returns an instance of this class configured for the storefront, such as the default ccrz.cc\_hk\_UserInterface class. If you create subscriber code that extends the default class, this method returns an instance of your custom class.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

global static ccrz.cc\_hk\_UserInterface getInstance(Map<String, Object>)

## Inputs (Optional)

Map<String, Object> that can include the following keys:

#### ccrz.cc hk UserInterface.PARAM STOREFRONT

String that specifies the name of a storefront.



 $oxed{oxed}$  Note: If the input data doesn't include this key, the method falls back to ccrz.cc CallContext.storefront.

## Outputs

This method returns an instance of ccrz.cc hk UserInterface, or your custom extension point class.

# Utility Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides several Apex classes with static fields, which effectively behave like global objects that expose certain storefront session data. Other classes and methods in the managed package can easily reference these static fields.



Note: Sometimes, B2B Commerce for Visualforce updates utility classes in a new version of the B2B Commerce managed package. In subscriber code, you reference the latest version of these classes that's available in your version of the managed package.

#### IN THIS SECTION:

```
ccrz.cc_bean_CartSummary
```

Represents a ccrz E Cart c record.

ccrz.cc\_bean\_Category

Represents a ccrz E Category c record.

ccrz.cc\_bean\_EffectiveAccount

Represents an effective account that a buyer can access other than the buyer's default assigned account. The methods of the ccrz.cc hk EffectiveAccount extension point class create and reference instances of this class.

## ccrz.cc\_bean\_MenuItem

Represents either a ccrz\_\_E\_Menu\_\_c or ccrz\_\_E\_MenuItem\_\_c record, depending on which level of menu the object corresponds to.

#### ccrz.cc\_bean\_Message

Represents an error message or other text string to pass from the server and show on a storefront page.

## ccrz.cc\_bean\_MockContactAddress

Represents a ccrz E ContactAddr c record.

#### ccrz.cc\_bean\_MockOrder

Represents a ccrz E Order c record.

#### ccrz.cc\_bean\_PromoRD

Passes promotion details between other global API method calls and returns JSON data for showing promotions on the storefront.

#### ccrz.cc ctrl hlpr ShippingOption

Represents a shipping option available in the Shipping Method picklist on the storefront's Checkout page.

#### ccrz.cc\_CallContext

Provides a standard interface for referencing the current user, storefront activity, and other session information required for B2B Commerce for Visualforce API calls.

#### ccrz.cc RemoteActionContext

Initializes ccrz.cc CallContext from an Apex remote action.

#### ccrz.cc RemoteActionResult

Returns the result of an Apex remote action.

#### ccrz.ccMultiListIterator

Iterates through multiple Apex lists and creates List<Object> representations. This class is used with batch jobs where the batched data can't be constructed with SOQL.

#### ccrz.ccMultiSetIterator

Iterates through multiple Apex sets and creates List<Object> representations. This class is used with batch jobs where the batched data can't be constructed with SOQL.

## ccrz.ccPaymentProcessor

Provides an extension point class for processing a specific payment type for all payment flows, including checkout, subscriptions, and invoices.

#### ccrz.ccProductIndexBuilder

Builds product index records by executing a series of synchronously executed Apex batch jobs. Each batch job includes a finish method that calls back into the ccrz.ccProductIndexBuilder class for starting the next batch job.

#### ccrz.ccSiteIndexBuilder

Builds site index records by executing a series of synchronously executed Apex batch jobs. Each batch job includes a finish method that calls back into the ccrz.ccSiteIndexBuilder class for starting the next batch job.

#### ccrz.ccUtil

Defines a set of static utility methods for evaluating, parsing, or hashing B2B Commerce for Visualforce object data.

# ccrz.cc\_bean\_CartSummary

Represents a ccrz E Cart c record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

## adjustment {get; set;}

Decimal that specifies the amount to adjust the order price by after the order is placed.

## allowCheckout {get; set;}

Boolean

Value	Usage
true	The buyer is allowed to check out with this cart.
false	The buyer isn't allowed to check out with this cart.

#### billingAddress {get;}

 $\verb|ccrz.cc_bean_MockContactAddress|| that represents the billing address associated with the cart.$ 

## buyerContactId {get;}

ID of the contact associated with the cart's assigned user.

## buyerEmail {get;}

String that specifies the buyer's email address.

## buyerFirstName {get;}

String that specifies the buyer's first name.

## buyerLastName {get;}

String that specifies the buyer's last name.

## buyerPhone {get;}

String that specifies the buyer's phone number.

## cartItems {get; set;}

List<ccrz.cc bean CartItem> of the items in the cart.

#### ccEmailAddresses {get;}

String that specifies email addresses to include in the CC address line of the order confirmation email.

## contractId {get;}

ID of the contract ID when the cart's payment method is Contract.

#### couponName {get; set;}

String that specifies the name of a coupon applied to the cart.

## encryptedId {get;}

String that specifies a semi-random UUID to refer to the cart in page URLs.

## extrinsic {get; set;}

Map<String, Object> that represents a placeholder for external data that you can pass to this bean and other objects that refer to this bean.

## grossTotal {get; set;}

Decimal that specifies the total cost calculated for the cart.

## hasCoupon {get;}

Boolean

Value	Usage
true	A coupon is applied to the cart.
false	No coupon has been applied to the cart.

#### isActive {get;}

Boolean

Value	Usage
true	The cart is <i>active</i> for the buyer's storefront session. Only one cart can be active per account at one time.
false	The cart is <i>inactive</i> for the buyer's storefront session.

## isValidated {get;}

Boolean

Value	Usage
true	The cart has been validated.
false	The cart hasn't been validated.

## lastModifiedDateStr {get;}

String representation of the date when the cart was most recently modified.

#### messages

List<ccrz.cc\_bean\_Message> of messages related to the cart.

#### mockContact {get;}

ccrz.cc bean MockContact that represents the contact associated with the cart's assigned user.

## name {get;}

String that specifies a name for the cart in the My Carts section of the My Account page.

#### note {get; set;}

String that specifies a shipping note entered during checkout.

## payments {get;}

List<ccrz.cc bean Payment> of the cart's available payment methods.

## paymentType {get; set;}

String that specifies the cart's selected payment method.

#### poNumber {get;}

String that specifies the purchase order (PO) number entered during checkout.

## preventBillingEdit {get;}

Boolean

Value	Usage	
true	The buyer isn't allowed to edit their billing address on the storefront.	
false	The buyer is allowed to edit their billing address on the storefront.	

#### preventContactEdit {get;}

Boolean

Value	Usage	
true	The buyer isn't allowed to edit their contact information on the storefront.	
false	The buyer is allowed to edit their contact information on the storefront.	

## preventShippingEdit {get;}

Boolean

Value	Usage	
true	The buyer isn't allowed to edit their shipping address on the storefront.	
false	The buyer is allowed to edit their shipping address on the storefront.	

#### requestedDate {get;}

Date that specifies the delivery date that the buyer requested during checkout.

## requestedDateStr {get;}

String representation of the requestedDate.

## sfid {get; set;}

Salesforce 18-digit ID of the cart record.

## shipComplete {get;}

Boolean

Value	Usage	
true	The buyer selected the Ship Complete option during checkout.	
false	The buyer didn't select the Ship Complete option during checkout.	

#### shippingAddress {get;}

ccrz.cc bean MockContactAddress that represents the shipping address associated with the cart.

## shippingCharge {get;}

Decimal that specifies the total shipping cost for the cart.

## shippingInst {get;}

String that specifies any comments or notes associated with the selected shipping method.

#### shippingMethod {get;}

String that specifies the cart's selected shipping method.

## shippingMethods {get;}

List<ccrz.cc ctrl hlpr ShippingOption> of the terms and conditions related to the cart.

#### subTotal {get; set;}

Decimal that specifies the total entitled price of all items in the cart.

#### surchargeAmount {get; set;}

Decimal that specifies charges other than taxes or shipping applied to the cart.

#### tax {get; set;}

Decimal that specifies the tax amount calculated during checkout.

#### terms {get; set;}

List<ccrz.cc\_bean\_Terms> of the terms and conditions related to the cart.

## totalDiscount {get; set;}

Decimal that specifies the total amount discounted from the cart.

#### totalInfo {get;}

String that specifies information about the cart. The managed package doesn't reference this field by default.

## Constructors

This class defines the following constructors:

## ccrz.cc bean CartSummary

Default constructor that doesn't take any parameters and doesn't set any values. When you use this constructor, make sure that you set the individual fields on bean.

#### ccrz.cc bean CartSummary(ccrz E Cart c cart)

Constructor that sets fields on the ccrz.cc bean Summary from the passed-in cart record.

## ccrz.cc bean CartSummary(ccrz E Cart c cart, Boolean fullData)

Constructor that sets fields on the  $ccrz.cc_bean_Summary$  from the passed-in cart record. The value of fullData determines how many fields are set:

Value	Usage
true	The constructor tries to set all fields on the bean.

Value	Usage
false	The fields related to the buyer, shipping information, and billing information aren't set.

## Methods

This class doesn't define any methods.

SEE ALSO:

ccrz\_\_E\_Cart\_\_c

ccrz.cc\_api\_CartExtension

Salesforce Help: Considerations for Supporting a Buyer's Cart Experience

Salesforce Help: Offer Coupons for Discounts on Storefront Purchases

# ccrz.cc\_bean\_Category

Represents a ccrz\_E\_Category\_c record.

# Compatibility

This class is deprecated and used only with the legacy ccrz.cc\_hk\_Category extension point class for versions of CloudCraze earlier than 4.5.

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

#### children {get; set;}

List<ccrz.cc\_bean\_Category> of subcategories for the current category. Each subcategory can specify its own subcategories.

#### formatter {get; set;}

```
ccrz E LocaleFormatter c
```

#### name {get; set;}

String that specifies a category name.

#### sfid {get; set;}

String that specifies the Salesforce 18-digit ID of the menu or menu item record.

## Constructors

This class defines the following constructors:

#### ccrz.cc bean Category

Default constructor that doesn't take any parameters and doesn't set any values. When you use this constructor, make sure that you set the individual fields on bean.

## ccrz.cc\_bean\_Category(String sfid, String name)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

## Methods

This class doesn't define any methods.

SEE ALSO:

ccrz\_\_E\_Category\_\_c

ccrz.cc\_hk\_Category (Deprecated)

Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce

# ccrz.cc bean EffectiveAccount

Represents an effective account that a buyer can access other than the buyer's default assigned account. The methods of the ccrz.cc\_hk EffectiveAccount extension point class create and reference instances of this class.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

## accountNumber {get; set;}

String that specifies the account number for the account record that corresponds to a selected effective account.

#### accountType {get; set;}

String that specifies the Type value for the account record that corresponds to a selected effective account.

#### billingAddress {get; set;}

ccrz.cc bean MockContactAddress that contains the selected effective account's default billing address details.

#### deliveryDateData {get; set;}

Map<String, Object> of delivery date data returned from the ccrz.cc\_api\_DeliveryDate extension point class, if applicable.

#### extrinsic {get; set;}

Map<String, Object> that represents a placeholder for external data that you can pass to this bean and other objects that refer to this bean.

#### name {get; set;}

String that specifies the name of the account record that corresponds to a selected effective account.

#### nextDelivery {get; set;}

String with the value of the Request Date field on the active shopping cart record associated with the selected effective account. This field is returned with deliveryDateData from the ccrz.cc api\_DeliveryDate extension point class, if applicable.

#### sfid {get; set;}

String that specifies the ID of this ccrz.cc bean EffectiveAccount instance.

#### shippingAddress {get; set;}

ccrz.cc bean MockContactAddress that contains the selected effective account's default shipping address details.

## Constructors

This class defines the following constructors:

#### ccrz.cc bean EffectiveAccount

Default constructor that doesn't take any parameters and doesn't set any values. When you use this constructor, make sure that you set the individual fields on bean.

#### ccrz.cc bean EffectiveAccount(account)

Constructor that sets data for the effective account from the corresponding account record, including shipping and billing address details directly from the account record.

```
ccrz.cc_bean_EffectiveAccount(Account account, ccrz__E_ContactAddr__c
contactAddressShipping, ccrz_E_ContactAddr__c contactAddressBilling)
```

Constructor that sets data for the effective account from the corresponding account record and its related ccrz\_\_E\_ContactAddr\_\_c records for shipping and billing address details.

#### SEE ALSO:

ccrz.cc bean MockContactAddress

ccrz.cc\_hk\_EffectiveAccount

Salesforce Help Allow a Buyer to Purchase for Multiple Effective Accounts

# ccrz.cc\_bean\_MenuItem

Represents either a ccrz\_\_E\_Menu\_\_c or ccrz\_\_E\_MenuItem\_\_c record, depending on which level of menu the object corresponds to.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

#### children {get; set;}

List<cc bean MenuItem> of the menu items nested within a menu, or other child menu items nested within a menu item.

#### displayName {get; set;}

String that specifies the localized text that appears on the storefront for the menu or menu item.

#### friendlyURL {get; set;}

String that specifies the friendly URL value, if specified, for a menu or menu item that links to a category or product.

#### linkURL {get; set;}

String that specifies the URL that the menu links to:

- If mType is Category, this value is the category ID.
- If mType is Product, this value is the product ID.
- If mType is URL, this value is the relative path to a Visualforce page on the storefront or an absolute path to an external website.
- If mType is None, this value is null.

## menuId {get; set;}

String that specifies the value for the data-menuid attribute of the HTML element that represents the menu or menu item.

## mType {get; set;}

String that specifies the destination for the menu's link. For link type values and use cases, see Provide Intuitive Storefront Navigation with Menus.

#### openInNewWindow {get; set;}

Boolean

Value	Usage	
true	Clicking the menu opens the URL in a new browser window or tab. This field is evaluated only when mType is URL.	
false	Clicking the menu opens the URL in a same browser window or tab.	

## sequence {get; set;}

Integer that specifies the order of the menu within the navigation bar, or order of the menu item within the menu. Lower values display first.

## sfid {get; set;}

Salesforce 18-digit ID of the menu or menu item record.

## Constructors

This class defines the following constructors:

#### ccrz.cc bean MenuItem

Default constructor that doesn't take any parameters and doesn't set any values. When you use this constructor, make sure that you set the individual fields on bean.

ccrz.cc\_bean\_MenuItem(String displayName, String linkURL, Boolean openInNewWindow)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

ccrz.cc\_bean\_MenuItem(String displayName, String linkURL, Boolean openInNewWindow,
String mType, Decimal sequence)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

ccrz.cc\_bean\_MenuItem(String sfid, String displayName, String linkURL, Boolean
openInNewWindow)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

ccrz.cc\_bean\_MenuItem(String sfid, String displayName, String linkURL, Boolean
openInNewWindow, String mType, Decimal sequence)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

ccrz.cc\_bean\_MenuItem(String sfid, String displayName, String linkURL, Boolean
openInNewWindow, String menuId)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

ccrz.cc\_bean\_MenuItem(String sfid, String displayName, String linkURL, Boolean openInNewWindow, String mType, Decimal sequence, String menuId)

Constructor that sets fields on the ccrz.cc bean MenuItem from the passed-in values.

## Methods

This class defines the following methods:

#### compareTo(ccrz.cc bean MenuItem compareTo)

Compares the current ccrz.cc\_bean\_MenuItem object's sequence value to another ccrz.cc\_bean\_MenuItem object's sequence value. This method can return the following integer values:

Return Value	Usage
-1	The comparison had either of the following results:
	• The current ccrz.cc_bean_MenuItem object's sequence value is less than the compared object's sequence value.
	• The current ccrz.cc_bean_MenuItem object's sequence value is null, but the compared object's sequence value isn't null.
0	The comparison had either of the following results:
	The current ccrz.cc_bean_MenuItem object's sequence value equals the compared object's sequence value.
	The sequence value of both objects is null.
1	The comparison had either of the following results:
	• The current ccrz.cc_bean_MenuItem object's sequence value is greater than the compared object's sequence value.

Return Value	Usage	
	The current ccrz.cc_bean_MenuItem object's sequence value isn't null, but the compared object's sequence value is null.	

SEE ALSO:

ccrz\_E\_Menu\_\_c
ccrz\_E\_Menultem\_\_c

Salesforce Help Serve Friendly URLs for Storefront Pages

Salesforce Help Serve Friendly URLs for Storefront Pages

# ccrz.cc\_bean\_Message

Represents an error message or other text string to pass from the server and show on a storefront page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

#### classToAppend {get; set;}

String that specifies an HTML class name to add to the element where the message displays, such as an error section in a specific component. Make sure to specify this value when you create subscriber code that return ccrz.cc bean Message objects.

## displayClass {get; set;}

String that specifies an extra HTML class name to add to the element where the message displays. This class name overrides the default class name returned for the message's severity value, if specified.

#### labelId {get; set;}

String that specifies the ID of an optional page label record that contains the message text to show, instead of referencing the ccrz.cc bean Message object's message field.

## message {get; set;}

String that specifies the message to show.

# messageId {get; set;}

String that specifies an optional ID for the message instance. This value isn't required to be unique.

### refersTo {get; set;}

ID of a record that the message applies to. The managed package doesn't reference this field in any default messages, but is available if you want to reference a specific record in your message.

## severity {get; set;}

ccrz.cc\_bean\_Message.MessageSeverity that specifies the importance of the message, which applies a default HTML class (which activates corresponding default CSS) to the element where the message displays. The following enumerated values are available:

- SUCCESS
- INFO
- WARN
- ERROR
- CRITICAL

# type {get; set;}

ccrz.cc\_bean\_MessageType that specifies how the storefront handles the message. The following enumerated values are available:

Value	Usage	
ALERT (default)	Show the message in a JavaScript alert window.	
STANDARD	Show the message in the <div class="default_page_message"></div> HTML element, which renders on storefront pages.	
CUSTOM	Show the message in an HTML element whose class attribute value you specify with the displayClass field. This type applies to most use cases for messages in custom subscriber code, and requires that you write front-end code to target a specific element.	

# Constructors

This class defines the following constructors:

#### ccrz.cc bean Message

Default constructor that doesn't take any parameters and creates an empty message with the following field values by default:

Field	Value
type	STANDARD
severity	INFO

## ccrz.cc bean Message(String message)

Constructor that takes a message and sets the following field values by default:

Field	Value
type	STANDARD

Field	Value
severity	INFO

ccrz.cc\_bean\_Message(String message, ccrz.cc\_bean\_MessageSeverity severity)

Constructor that takes a message and severity, and sets type to STANDARD by default.

ccrz.cc bean Message(String message, ccrz.cc bean Message.MessageType type)

Constructor that takes a message and type, and sets severity to INFO by default.

# Methods

This class doesn't define any methods.

# ccrz.cc\_bean\_MockContactAddress

Represents a  $ccrz\_E\_ContactAddr\_c$  record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

### address1 {get; set;}

String that specifies the first line of the street address.

# address2 {get; set;}

String that specifies the second line of the street address.

# address3 {get; set;}

String that specifies the third line of the street address.

### addrReadOnly {get; set;}

Boolean that specifies whether the address is read-only.

Note: If this value is null on the source ccrz E ContactAddr c record, the bean sets this value to false.

### city {get; set;}

String that specifies the city for the address.

# companyName {get; set;}

String that specifies the name of a company associated with this address.

#### country {get; set;}

String that specifies the name of the country or territory for the address.

#### countryCode {get; set;}

String that specifies an ISO 3166-1 code for the country or territory.

### dayTime {get; set;}

String that specifies the primary phone number for the address.

## email {get; set;}

String that specifies an email associated with the address.

#### firstName {get; set;}

String that specifies the first name of the person associated with the address.

## homePhone {get; set;}

String that specifies an alternative phone number for the address.

#### lastName {get; set;}

String that specifies the last name of the person associated with the address.

### mailStop {get; set;}

Unused. This property doesn't control any functionality by default.

### middleName {get; set;}

String that specifies the middle name of the person associated with the address.

#### partnerId {qet; set;}

Unused. This property doesn't control any functionality by default.

# postalCode {get; set;}

String that specifies the postal code for the address.

### sfdcName {get; set;}

String that specifies a unique, automatically assigned ID for the record.

### shippingComments {get; set;}

String that specifies optional shipping comments entered during checkout.

#### state {get; set;}

String that specifies the name of the state for an address that's located outside of the United States or Canada.

#### stateCode {get; set;}

String that specifies an ISO 3166-2 code for a US state or Canadian province.

#### sfid {qet; set;}

ID of this ccrz.cc bean MockContactAddress instance.

# Constructors

This class defines the following constructors:

## ccrz.cc\_bean\_MockContactAddress

Default constructor that doesn't take any parameters and doesn't set any values. When you use this constructor, make sure that you set the individual fields on bean.

# ccrz.cc\_bean\_MockContactAddress(ccrz\_\_E\_ContactAddr\_\_c contactAddress)

Constructor that sets fields on the ccrz.cc bean MockContactAddress from the passed-in contact address record.

SEE ALSO:

ccrz\_\_E\_ContactAddr\_\_c

# ccrz.cc bean MockOrder

Represents a ccrz E Order c record.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

## billTo {get; set;}

ccrz.cc bean MockContactAddress that represents the billing address associated with the order.

#### buyerEmail {get; set;}

String that specifies the buyer's email address.

## buyerFirstName {get; set;}

String that specifies the buyer's first name.

## buyerLastName {get; set;}

String that specifies the buyer's last name.

#### buyerPhone {get; set;}

String that specifies the buyer's phone number.

## canAmend {get; set;}

Value	Usage	
true	The buyer can cancel the order and create another cart with the same items and quantities as the canceled order.	
false	The buyer can't cancel the order and create another cart.	

# canCancel {get; set;}

Boolean

Value	Usage
true	The buyer can cancel the order.
false	The buyer can't cancel the order.

# canReorder {get; set;}

Boolean

Value	Usage
true	The buyer can create another cart with the same items and quantities as the canceled order.
false	The buyer can't create another cart with the same items and quantities as the canceled order.

# cartId {get; set;}

String that specifies the ID of the cart used for placing the order.

## currencyIsoCode {get; set;}

String that specifies the ISO 4217 currency code for the order, such as USD or JPY.

# encryptedId {get; set;}

String that specifies a semi-random UUID to refer to the order in page URLs.

## externalOrderId {get; set;}

String that specifies a unique ID that associates the record with an external system.

# extrinsic {get; set;}

Map<String, Object> that represents a placeholder for external data that you can pass to this bean and other objects that refer to this bean.

## isLL {get; set;}

Value	Usage
true	The buyer placed the order using line-level independence (LLI) checkout.
false	The buyer placed the order using standard checkout.

#### name {get; set;}

String that specifies the order's auto-numbered name.

#### orderAccountData {get; set;}

Map<String, Object> that describes the account used for placing the order.

### orderDate {get; set;}

Date that specifies the date when the buyer placed the order.

### orderDateStr {get; set;}

String representation of orderDate.

#### orderItemGroups {get; set;}

List<ccrz\_E\_OrderItemGroup\_c> that describes shipping groups for the order when the buyer used LLI checkout.

#### orderNumber {get; set;}

Decimal that specifies the digit portion of the order's name auto-number value, plus 1,000,000. For example, for an order with an auto-numbered name of 0-0000000018, the orderNumber is 1,000,018.

## orderNumberAsString {get; set;}

String representation of orderNumber.

#### orderShipAmount {get;}

String representation of shipAmount.

#### orderSubTotal {get;}

String representation of subTotalAmount.

#### orderTaxAmount {get;}

String representation of taxAmount.

# orderTotalSurcharge {get;}

String representation of totalSurcharge.

## ownerName {get; set;}

String that specifies the user that owns the order record.

#### payments {get; set;}

List<ccrz.cc\_bean\_Payment> that specifies payments applied to the cart.

#### requestDate {get; set;}

String that specifies the delivery date that the buyer requested during checkout.

#### requestDateVal {get; set;}

Date representation of requestDate.

#### sfid {qet; set;}

Salesforce 18-digit ID of the order record.

#### shipAmount {get; set;}

Double that specifies the amount calculated for shipping the order during checkout.

#### shipComplete {get; set;}

Value	Usage	
true	The buyer selected the Ship Complete option during checkout.	
false	The buyer didn't select the Ship Complete option during checkout.	

#### shippingMethod {get; set;}

String that specifies the order's selected shipping method.

### shipTo {get; set;}

ccrz.cc bean MockContactAddress that represents the shipping address associated with the order.

#### shipTrackNo {get; set;}

String that specifies a tracking number for the order's shipment.

#### status {get; set;}

String that specifies the status of the order shown in the My Orders section of the My Account page.

#### subTotalAmount {get; set;}

Double that specifies the total entitled price of all items in the order.

## taxAmount {get; set;}

Double that specifies the tax amount calculated during checkout.

#### totalAmount {get; set;}

Double that specifies the total cost calculated for the order.

# totalSurcharge {get; set;}

Double that specifies charges other than taxes or shipping applied to the cart.

#### transactionPayments {get; set;}

List<Map<String, Object>> that describes corz E TransactionPayment c records applied to the cart.

# Constructors

This class defines the following constructors:

#### ccrz.cc bean MockOrder

Default constructor that doesn't take any parameters and doesn't set any values. When you use this constructor, make sure that you set the individual fields on bean.

### ccrz.cc bean MockOrder(ccrz E Order c order)

Constructor that sets fields on the ccrz.cc bean MockOrder from the passed-in order record.

#### ccrz.cc bean MockOrder(ccrz.cc bean MyOrderItem order)

Constructor that sets fields on the ccrz.cc bean MockOrder from the passed-in ccrz.cc bean MyOrderItem.

# Methods

This class doesn't define any methods.

SEE ALSO:

```
ccrz E Order c
```

Salesforce Help Allow a Buyer to Manage Their Orders on the My Account Page

# ccrz.cc bean PromoRD

Passes promotion details between other global API method calls and returns JSON data for showing promotions on the storefront.

This content is available only as an archived PDF from CloudCraze documentation:

```
(PDF)ccrz.cc bean PromoRD
```



**Important:** The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# ccrz.cc\_ctrl\_hlpr\_ShippingOption

Represents a shipping option available in the Shipping Method picklist on the storefront's Checkout page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

## currencyCode {get; set;}

String that specifies the ISO 4217 currency code, such as USD or JPY, for the shipping option.

## discount {get; set;}

Decimal that specifies the amount of discount on the shipping cost.

## discountedShipCost {get; set;}

Decimal that specifies the cost of the shipping option after applying an applicable discount on the shipping cost.

#### price {get; set;}

Decimal that specifies the total cost of the shipping option.

#### provider {get; set;}

String that specifies the shipping service provider.

# serviceName {get; set;}

String that specifies the service name.

#### systemReference {get; set;}

String that specifies a reference to an external system.

#### uniqueId {get; set;}

String that specifies a unique ID for the shipping option. By default, this ID is created by appending provider to serviceName.



**Note**: This value is mandatory for persisting the ship method to a placed order.

# Constructors

This class defines the following constructors:

#### ccrz.cc ctrl hlpr ShippingOption

Default constructor that doesn't take any parameters and doesn't set any fields.

ccrz.cc\_ctrl\_hlpr\_ShippingOption (String provider, String serviceName, Decimal price)

Constructor that takes and sets a provider, service name, and price. This constructor also sets uniqueId.

ccrz.cc\_ctrl\_hlpr\_ShippingOption(String provider, String serviceName, Decimal price,
Decimal discountedShipCost)

Constructor that takes and sets a provider, service name, price, and discounted shipping cost. This constructor also sets unique Id.

ccrz.cc\_ctrl\_hlpr\_ShippingOption(String provider, String systemReference, String
serviceName, Decimal price, Decimal discountedShipCost)

Constructor that takes and sets a provider, external system reference, service name, price, and discounted shipping cost. This constructor also sets currencyCode to null.

ccrz.cc\_ctrl\_hlpr\_ShippingOption(String provider, String systemReference, String
serviceName, String currencyCode, Decimal price, Decimal discountedShipCost)

Constructor that takes and sets a provider, external system reference, service name, price, currency code, and discounted shipping cost.

# Methods

This class defines the following methods:

#### getNetPrice()

Returns a Decimal that results from subtracting the shipping discount (discount) from the original shipping cost (price).

SEE ALSO:

ccrz\_\_E\_ShippingRate\_\_c
ccrz.cc\_api\_ShippingAndHandling
Salesforce Help Specify Shipping Options for Standard Checkout
Salesforce Help Offer a Discount on the Total Shipping Cost

# ccrz.cc CallContext

Provides a standard interface for referencing the current user, storefront activity, and other session information required for B2B Commerce for Visualforce API calls.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Initialization

If you're calling the API from a Visualforce page, the context is already created, and you can reference the context's static fields.

If you're calling the API from an Apex remote action, you must initialize the context using ccrz.cc\_RemoteActionContext before you can reference its fields.

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

### basePriceList {get; set;}

String that specifies the storefront's base price list.

### currAccount {get; set;}

Account associated with the current user. The following fields on the account record are available:

- Id (18 digits)
- AccountNumber
- Name
- Parentld
- ccrz\_\_E\_AccountGroup\_\_\_r.ld
- ccrz\_\_TaxExemptAccount\_\_c

#### currAccountGroup {get; set;}

ccrz\_E\_AccountGroup\_ c that the current user's account belongs to.

#### currAccountId {get; set;}

String that specifies the 18-digit Salesforce ID of the account associated with the current user. For a guest user, this ID is for the account named Anonymous.

#### currCartId {get; set;}

String that specifies the encrypted ID of the current cart, if available.

## currContact {get; set;}

Contact associated with the current user. The following fields on the contact record are available:

- Id
- Email
- FirstName
- LastName
- Phone

#### currPageKey {get; set;}

String that specifies the currPageName value. If the current storefront page is a subscriber page, this value is your subscriber page's key.

#### currPageName {get; set;}

String that specifies the current storefront page without the namespace prefix, such as HomePage instead of ccrz HomePage.

### currPageParameters {get; set;}

Map<String, String> of the current page's URL parameters.

- If the context is within a Visualforce page, the parameters are returned from the ApexPages.currentPage.getParameters method.
- If the context is within an Apex remote action, the parameters are from the page where the remote action was invoked. If you're using a URL rewriter, these parameters are the original page parameters, not any rewritten parameters.

## currPageUIKey {get; set;}

String that specifies the currUIKey value. If the current storefront page is a subscriber page, this value is your subscriber page's key.

#### currUIKey {get; set;}

String that specifies the page key for the current storefront page, such as HP for the Home page.

### currURL {get; set;}

String that specifies the URL of the current storefront page.

- If the context is within a Visualforce page, the URL is returned from the ApexPages.currentPage.getUrl method.
- If the context is within an Apex remote action, the URL is from the page where the remote action was invoked.

### currUser {get; set;}

User record for the current user.



The following fields on the user record are available:

- Id
- Accountld
- Contact Id
- Email
- LanguageLocaleKey
- LocaleSidKey
- Profileld
- Username
- ccrz\_\_CC\_CurrencyCode\_\_c
- ccrz\_\_TaxExempt\_\_c

# currUserId {get; set;}

String that specifies the ID of the current user.

Note: If a CSR is logged in on behalf on a storefront user, this ID is the storefront user's ID, not the CSR user's ID.

# effAccount {get; set;}

Account associated with a currently selected Allow a Buyer to Purchase for Multiple Effective Accounts.

- If the current buyer is a quest, this value is null.
- If the current buyer is a registered user but isn't using an effective account, this value is currAccount.

The following fields on the account record are available:

- Id
- AccountNumber
- Name
- Parentld
- ccrz\_E\_AccountGroup\_\_r.ld
- ccrz\_\_TaxExemptAccount\_\_c

## effAccountGroup {get; set;}

ccrz E AccountGroup c associated with the currently selected effective account.

- If the current buyer is a guest, a request for this field returns an exception.
- If the current buyer is a registered user but isn't using an effective account, this value is currAccountGroup.

### effAccountId {get; set;}

String that specifies the account ID of the currently selected effective account.

- If the current buyer is a guest, this value is an empty string.
- If the current buyer is a registered user but isn't using an effective account, this value is curruserld.

## entAccountId {get; set;}

String that specifies the ID of the account to use for product entitlement.

- If the current user is a guest user, this value is the same as currAccountId.
- Otherwise, this value is the same as effAccountId.

# entAccount {get; set;}

Account to use for product entitlement.

- If the current user is a guest user, this value is the same as currAccount.
- Otherwise, this value is the same as effAccount.

#### entAccountGroup {get; set;}

ccrz\_\_E\_AccountGroup\_\_c associated with entAccount.

#### isGuest {get; set;}

Boolean

Value	Usage
true	The current buyer is a guest.
false	The current buyer is a registered user.

## isOnBehalf {get; set;}

Value	Usage
true	The user that's currently logged in is different than the user that the portalUser URL parameter specifies, such as when a CSR is logged in.
false	The portalUser URL parameter specifies the user that's currently logged in.

## isRemoteCall {get; set;}

Boolean

Value	Usage
true	The context is within an Apex remote action, or some other external source.
false	The context is within a Visualforce page.

### priceGroup {get; set;}

ccrz E PriceGroup c associated with the current context's account. The grid URL parameter specifies this price group.

### priceGroupId {get; set;}

String that specifies the ID of the price group associated with the current context's account. This ID matches the value of the grid URL parameter.

#### remoteContext

ccrz.cc RemoteActionContext instance when the context is within an Apex remote action.

## storefront {get; set;}

String that specifies the current storefront name.

#### storefrontSettings {get; set;}

Map<String, Object> that describes the current storefront configuration settings.

#### userCurrency {get; set;}

String that specifies the current user's currency.

# userLocale {get; set;}

String that specifies the current user's locale.

# Methods

#### IN THIS SECTION:

#### init

Wraps a call to the initRemoteContext method, which initializes the ccrz.cc\_CallContext within a passed remote context, and returns a ccrz.cc\_RemoteActionResult.

### initRemoteContext

Initializes the ccrz.cc CallContext within an Apex remote action.

#### isConfigEqual

Evaluates whether the current page has a storefront configuration setting with a specific value. This method only considers configuration settings from the most recently activated configuration cache.

### isConfigTrue

Evaluates whether the current page has a storefront configuration setting with the value TRUE. This method only considers configuration settings from the most recently activated configuration cache.

## getConfigValue

Return the current value for a particular storefront configuration setting. This method only considers configuration settings from the most recently activated configuration cache.

#### SEE ALSO:

ccrz.cc\_RemoteActionContext

Salesforce Help Allow a Buyer to Purchase for Multiple Effective Accounts

# ccrz.cc\_CallContext.init

Wraps a call to the initRemoteContext method, which initializes the ccrz.cc\_CallContext within a passed remote context, and returns a ccrz.cc RemoteActionResult.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

(1) Important: Call this method only from an Apex remote action, and not from a Visualforce page.

# Signature

global static ccrz.cc\_RemoteActionResult init(ccrz.cc\_RemoteActionContext)

## Inputs

#### ccrz.cc RemoteActionContext

The class that instantiates a new context from an Apex remote action.

# Outputs

### ccrz.cc RemoteActionResult

Initially, the result's success is false. Make sure that you set success to true before you return data from the remote action.



@RemoteAction
 global static ccrz.cc\_RemoteActionResult customRemoteActionMethod(final

```
ccrz.cc RemoteActionContext ctx, other parameters) {
       ccrz.cc RemoteActionResult result = ccrz.cc CallContext.init(ctx);
       try {
            // Your custom business logic
           result.data = result of business logic; //data to return
           result.success = true;
        } catch (Exception e) {
           // Error handling, perhaps using result.messages to return error data
       return res;
   }
```

SEE ALSO:

ccrz.cc\_RemoteActionContext ccrz.cc\_RemoteActionResult

# ccrz.cc\_CallContext.initRemoteContext

Initializes the ccrz.cc CallContext within an Apex remote action.



[] Important: Call this method only from an Apex remote action, and not from a Visualforce page.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global static void initRemoteContext(ccrz.cc_RemoteActionContext)
```

# Inputs

## ccrz.cc\_RemoteActionContext

The class that instantiates a new context from an Apex remote action.

# Outputs

This method doesn't return any data.



# Example: Example

```
@RemoteAction
   global static void customRemoteActionMethod {
       ccrz.cc RemoteActionContext ctx = new ccrz.cc RemoteActionContext;
       ctx.storefront = 'DefaultStore';
       ccrz.cc CallContext.initRemoteContext(ctx);
    }
```

SEE ALSO:

ccrz.cc\_RemoteActionContext

# ccrz.cc\_CallContext.isConfigEqual

Evaluates whether the current page has a storefront configuration setting with a specific value. This method only considers configuration settings from the most recently activated configuration cache.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global static Boolean isConfigEqual(String, String, String)
```

# Inputs



🎧 Tip: This method transforms any string values to lowercase. As a best practice, always use lowercase strings when evaluating configuration settings.

String that specifies the configuration setting API name to evaluate, such as pl.defsort for the Default Sort configuration of the Product List module.

String that specifies the configuration value to evaluate, such as price.

## pageUIKey

A specific page key to evaluate, such as plp for Product List page.

# Outputs

Boolean

Value	Usage
true	The specified configuration has a case-insensitive variation of the value to evaluate, such as PRICE, Price, or price.
false	The specified configuration doesn't exist or doesn't contain a case-insensitive variation of the value to evaluate.

SEE ALSO:

Salesforce Help Manage Configuration Settings

# ccrz.cc\_CallContext.isConfigTrue

Evaluates whether the current page has a storefront configuration setting with the value TRUE. This method only considers configuration settings from the most recently activated configuration cache.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static Boolean isConfigTrue(String, String)

# Inputs



Tip: This method transforms any string values to lowercase. As a best practice, always use lowercase strings when evaluating configuration settings.

## config

String that specifies the configuration setting API name to evaluate, such as <code>ct.enabled</code> for the Enabled configuration of the Category Tree module.

## pageUIKey

A specific page key to evaluate, such as hp for Home page.

# Outputs

## Boolean

Value	Usage
true	The specified configuration has a case-insensitive variation of TRUE, including true or True.
false	The specified configuration doesn't exist or doesn't contain a case-insensitive variation of TRUE.

## SEE ALSO:

Salesforce Help Manage Configuration Settings

# $ccrz.cc\_CallContext.getConfigValue\\$

Return the current value for a particular storefront configuration setting. This method only considers configuration settings from the most recently activated configuration cache.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static String getConfigValue(String, String)

# Inputs



Tip: This method transforms any string values to lowercase. As a best practice, always use lowercase strings when evaluating configuration settings.

#### config

String that specifies the configuration setting API name to evaluate, such as <code>ct.enabled</code> for the Enabled configuration of the Category Tree module.

#### pageUIKey

A specific page key to evaluate, such as hp for Home page.

# Outputs

String of the specified configuration setting's value. If the specified configuration doesn't exist, this value is null.

SEE ALSO:

Salesforce Help Manage Configuration Settings

# ccrz.cc\_RemoteActionContext

Initializes ccrz.cc CallContext from an Apex remote action.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

#### currentCartId {get; set;}

String that specifies the encrypted ID of the current cart, if available.

### currentPageName {get; set;}

String that specifies the current storefront page without the namespace prefix, such as HomePage instead of ccrz\_HomePage. This field is used with methods of ccrz.cc\_CallContext to determine whether any storefront configuration settings exist for the specific page.

#### currentPageURL {get; set;}

String that specifies the URL for the current storefront page.

#### effAccountId {get; set;}

String that specifies the account ID of the currently selected effective account.

• If the current buyer is a guest, this value is an empty string.

If the current buyer is a registered user but isn't using an effective account, this value is currUserId.

## portalUserId {get; set;}

String that specifies the ID of the storefront user that a customer service representative (CSR) logs in on behalf of.

## priceGroupId {get; set;}

String that specifies the ID of the price group associated with the current context's account. This ID matches the value of the grid URL parameter.

## queryParams {get; set;}

Map<String, String> that specifies the URL parameters for the current storefront page at the time of the Apex remote action call.

#### storefront {get; set;}

String that specifies the current storefront name.

#### userIsoCode {get; set;}

String that specifies the currency for the current context. If this remote action context queries cart data, match the cart's currency, or leave this field blank.

#### userLocale {get; set;}

String that specifies the locale for the current context. Any subsequent API call returns data that applies only to this locale.

# Constructors

This class defines a single constructor, ccrz.cc RemoteActionContext, which doesn't take any parameters.



# Example: Example

```
@RemoteAction
    global static ccrz.cc_RemoteActionResult customRemoteActionMethod(final
ccrz.cc_RemoteActionContext ctx, other parameters) {
        ccrz.cc_RemoteActionResult result = ccrz.cc_CallContext.init(ctx);

        try {
            // Your custom business logic
            result.data = result of business logic; //data to return
            result.success = true;
        } catch (Exception e) {
            // Error handling, perhaps using result.messages to return error data
        }
        return res;
    }
```

SEE ALSO:

ccrz.cc CallContext

# ccrz.cc\_RemoteActionResult

Returns the result of an Apex remote action.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Properties**

This class defines the following Apex global properties. For more information about Apex properties and accessors, see Apex Properties.

## data {get; set;}

Object that represents the result of the remote action to return to the user interface. You can serialize the object as JSON data.

### inputContext {get; set;}

ccrz.cc RemoteActionContext for initializing ccrz.cc CallContext within the remote action.



Note: This value is just an echo of the data passed in, and doesn't define any other functionality.

# messages {get; set;}

List<ccrz.cc\_bean\_Message> that contains error messages to return to the user interface. This list is final within the class.

#### success {get; set;}

Boolean

Value	Usage
true	The remote action completed successfully.
false	The remote action encountered errors.

# Constructors

This class defines a single constructor, ccrz.cc RemoteActionResult, which doesn't take any parameters.

The constructor creates a new ccrz.cc RemoteActionResult with the following fields:

- success is true
- data is false
- inputContext is ccrz.cc RemoteActionContext



# Example: Example

@RemoteAction
 global static ccrz.cc\_RemoteActionResult customRemoteActionMethod(final

```
ccrz.cc_RemoteActionContext ctx, other parameters) {
    ccrz.cc_RemoteActionResult result = ccrz.cc_CallContext.init(ctx);

try {
        // Your custom business logic
        result.data = result of business logic; //data to return
        result.success = true;
} catch (Exception e) {
        // Error handling, perhaps using result.messages to return error data
}
return res;
}
```

SEE ALSO:

ccrz.cc CallContext

# ccrz.ccMultiListIterator

Iterates through multiple Apex lists and creates List<Object> representations. This class is used with batch jobs where the batched data can't be constructed with SOQL.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccMultiListIterator

(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# ccrz.ccMultiSetIterator

Iterates through multiple Apex sets and creates List<Object> representations. This class is used with batch jobs where the batched data can't be constructed with SOQL.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccMultiSetIterator



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

# ccrz.ccPaymentProcessor

Provides an extension point class for processing a specific payment type for all payment flows, including checkout, subscriptions, and invoices.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

(1) Important: The information in these help topics applies only to payment processing during checkout. For information about processing payments for invoices and subscriptions, see the PDF archived from CloudCraze documentation:

(PDF) ccrz.ccPaymentProcessor

# Methods

#### IN THIS SECTION:

## preProcess

Executes the first step of any payment flow and performs Apex callouts required for processing the payment. This method supports Apex callouts.

# process

Executes the transactional step of a payment flow. This method does not support Apex callouts.

## postProcess

Handles the success or failure result of the ccrz.ccPaymentProcessor.process transaction. This method does not support Apex callouts.

# ccrz.ccPaymentProcessor.preProcess

Executes the first step of any payment flow and performs Apex callouts required for processing the payment. This method supports Apex callouts.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8



Warning: If you override this method in custom subscriber code, avoid any DML operations.

# Signature

```
global virtual Map<String, Object> preProcess(Map<String, Object>)
```

# Inputs for Checkout

The ccrz.cc\_hk\_Payment.processPayment method invokes this method when processing a payment during checkout. This method accepts a Map<String, Object> that contains the following keys:

## ccrz.cc hk Payment.PARAM ACCOUNT TYPE

String, based on the input data's accountType, that specifies the transaction's method of payment, such as purchase order (PO), credit card, and so on.

```
ccrz.cc_hk_Payment.PARAM_CART
```

ccrz E Cart c record that's being converted to an order.

## ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX

String that specifies the context of the payment. For checkout payments, this value is ccrz.cc hk Payment.PARAM PAYMENT CTX CHECKOUT.

## ccrz.cc\_hk\_Payment.PARAM\_STORED\_PAYMENT

ccrz E StoredPayment c that represents an original stored payment used for the transaction payment details.

## ccrz.cc hk Payment.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed into ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA

```
ccrz.cc_hk_Payment.TransactionPaymentParams object that represents the original input
ccrz.cc_hk_Payment.PARAM_TRANSACTION_DATA, updated with the cart's amount set.
```

# Inputs for Invoices or Subscriptions

For information about processing payments for invoices and subscriptions, see the PDF archived from CloudCraze documentation:

```
(PDF) ccrz.ccPaymentProcessor
```

## **Outputs**

```
Map<String, Object> that includes all input keys.
```

#### SEE ALSO:

```
ccrz.cc_hk_Payment.processPayment
ccrz__E_StoredPayment__c
Invoking Callouts Using Apex
```

# ccrz.ccPaymentProcessor.process

Executes the transactional step of a payment flow. This method does not support Apex callouts.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

```
global virtual Map<String, Object> process(Map<String, Object>)
```

# Inputs for Checkout

During the checkout process, this method is invoked as the final step of the transaction when placing an order. This method accepts a Map<String, Object> that contains the following keys:

## ccrz.cc hk Payment.PARAM ACCOUNT TYPE

String, based on the input data's accountType, that specifies the transaction's method of payment, such as purchase order (PO), credit card, and so on.

#### ccrz.cc hk Payment.PARAM ORDER ID

String that specifies the Salesforce ID of the ccrz E Order c record created from the cart.

## ccrz.cc hk Payment.PARAM PAYMENT CTX

String that specifies the context of the payment. For checkout payments, this value is ccrz.cc hk Payment.PARAM PAYMENT CTX CHECKOUT.

#### ccrz.cc hk Payment.PARAM PRIMARY TRANSACTION RESULTS

Map<String, Object> that contains the results from the ccrz.cc hk Order.createTransaction method.

## ccrz.cc hk Payment.PARAM SUBS RESULTS

Map<String, Object> that contains the results from the ccrz.cc hk Subscriptions.onOrder method.

#### ccrz.cc hk Payment.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed into ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA

ccrz.cc\_hk\_Payment.TransactionPaymentParams object that represents the original input ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA, updated with the cart's amount set.

# Inputs for Invoices or Subscriptions

For information about processing payments for invoices and subscriptions, see the PDF archived from CloudCraze documentation:

(PDF) ccrz.ccPaymentProcessor

# Outputs

Map<String, Object> that includes all input keys.

SEE ALSO:

ccrz.cc\_hk\_Payment.processPayment ccrz.cc\_hk Order.createTransaction

# ccrz.ccPaymentProcessor.postProcess

Handles the success or failure result of the ccrz.ccPaymentProcessor.process transaction. This method does *not* support Apex callouts.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global virtual Map<String, Object> postProcess(Map<String, Object>)

# Inputs for Successful Checkout

If the ccrz.ccPaymentProcessor.process method completed successfully, this method accepts a Map<String, Object> that contains the following keys for evaluating the successful transaction:

## ccrz.cc hk Payment.PARAM ACCOUNT TYPE

String, based on the input data's accountType, that specifies the transaction's method of payment, such as purchase order (PO), credit card, and so on.

## ccrz.cc\_hk\_Payment.PARAM\_ORDER\_ID

String that specifies the Salesforce ID of the ccrz E Order c record created from the cart.

# ccrz.cc\_hk\_Payment.PARAM\_PAYMENT\_CTX

String that specifies the context of the payment. For checkout payments, this value is ccrz.cc hk Payment.PARAM PAYMENT CTX CHECKOUT.

## ccrz.cc hk Payment.PARAM PRIMARY TRANSACTION RESULTS

Map<String, Object> that contains the results from the ccrz.cc hk Order.createTransaction method.

#### ccrz.cc hk Payment.PARAM SUBS RESULTS

Map<String, Object> that contains the results from the ccrz.cc hk Subscriptions.onOrder method.

#### ccrz.cc hk Payment.PARAM SUCCESS

Boolean that must be true.

# ccrz.cc hk Payment.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed into ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA

ccrz.cc\_hk\_Payment.TransactionPaymentParams object that represents the original input ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA, updated with the cart's amount set.

# Inputs for Failed Checkout

If the ccrz.ccPaymentProcessor.process method returned an exception, this method accepts a Map<String, Object> that contains the following keys for evaluating the failed transaction:

### ccrz.cc hk Payment.PARAM CART

ccrz E Cart c record that's being converted to an order.

#### ccrz.cc hk Payment.PARAM ERROR

The exception that ccrz.ccPaymentProcessor.process returned.

## ccrz.cc hk Payment.PARAM PAYMENT CTX

String that specifies the context of the payment. For checkout payments, this value is ccrz.cc hk Payment.PARAM PAYMENT CTX CHECKOUT.

## ccrz.cc hk Payment.PARAM SUCCESS

Boolean that must be false.

#### ccrz.cc hk Payment.PARAM TRANSACTION DATA

JSON-formatted string of transaction payment properties and their values passed into ccrz.cc hk Payment.processPayment.

#### ccrz.cc hk Payment.PARAM TRANSACTION PROCESSED DATA

ccrz.cc\_hk\_Payment.TransactionPaymentParams object that represents the original input ccrz.cc\_hk\_Payment.PARAM\_TRANSACTION\_DATA, updated with the cart's amount set.

# Inputs for Invoices or Subscriptions

For information about processing payments for invoices and subscriptions, see the PDF archived from CloudCraze documentation:

(PDF) ccrz.ccPaymentProcessor

#### Outputs

Map<String, Object> that includes all input keys.

#### SEE ALSO:

ccrz.cc\_hk\_Payment.processPayment ccrz.cc\_hk\_Order.createTransaction

# ccrz.ccProductIndexBuilder

Builds product index records by executing a series of synchronously executed Apex batch jobs. Each batch job includes a finish method that calls back into the ccrz.ccProductIndexBuilder class for starting the next batch job.

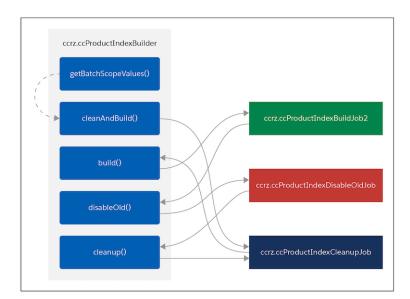
# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Execution Order**

The methods of the ccrz.ccProductIndexBuilder class execute when you refresh product index records from CC Admin. The methods of this class and the related batch job classes execute in the following order.



Your version of B2B Commerce determines where the ccrz.ccProductIndexBuilder execution begins.

<b>B2B Commerce Managed Package Version</b>	Method Where Execution Begins
Spring '20 (version 4.12)	getBachScopeValues

B2B Commerce Managed Package Version	Method Where Execution Begins
Summer '19 (version 4.11) or Spring '19 (version 4.10)	cleanAndBuild
Summer '18 (version 4.9)	build

# Methods

#### IN THIS SECTION:

#### getBatchScopeValues

Divides all the org's product records into groups for building product index records more efficiently.

#### cleanAndBuild

Executes the ccrz.ccProductIndexCleanupJob batch job before the next build process begins. The ccrz.ccProductIndexCleanupJob batch job removes existing product index records where the Active field is FALSE.

#### huild

Executes the ccrz.ccProductIndexBuildJob2 batch job for building product index records.

## disableOld

Executes the ccrz.ccProductIndexDisableOldJob batch job, which updates the Active field on existing product index records. All product index records where Active is FALSE update so that Active is TRUE, and vice versa.

#### cleanup

Executes the ccrz.ccProductIndexCleanupJob batch job, which removes existing product index records where the Active field is FALSE.

#### SEE ALSO:

Salesforce Help Maintain Product Index Records

# ccrz.cc Product Index Builder.get Batch Scope Values

Divides all the org's product records into groups for building product index records more efficiently.

# Compatibility

This utility method is available only in B2B Commerce for Visualforce Spring '20 (managed package version 4.12 and API version 11).

# Signature

global static Map<Integer, Map<String, String>> getBatchScopeValues(Map<String, Object>)

# Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccProductIndexBuilder.IS FULL REFRESH

Value	Usage
TRUE (default)	Divide all the org's product records evenly among the batch groups.
FALSE	Evaluate only the products where the Product Index Status is Not Current, and divide those products evenly among the batch groups.

## ccrz.ccProductIndexBuilder.NUMBER OF SCOPE KEY PAIRS

Integer that specifies how many groups you want to divide the product index build process into. You can specify up to five (5) groups.



Note: When an admin selects how many parallel batch jobs they want to use for refreshing product index records, this key is set for this method

# Outputs

This method returns a Map<Integer, Map<String, String>> of the specified batch groups. Each group defines a START KEY and END KEY, which is the product ID where the batch group begins and ends, respectively.



## Example: Example

Divide the product index build jobs into five groups, and evaluate only the products where Product Index Status is Not Current.

```
ccrz.ccProductIndexBuilder.getBatchScopeValues(new Map<String, Object> {
   ccrz.ccProductIndexBuilder.NUMBER_OF_SCOPE_KEY_PAIRS => 5,
    ccrz.ccProductIndexBuilder.IS FULL REFRESH => false
});
```

SEE ALSO:

Salesforce Help Values for Product Index Status

# ccrz.ccProductIndexBuilder.cleanAndBuild

Executes the ccrz.ccProductIndexCleanupJob batch job before the next build process begins. The ccrz.ccProductIndexCleanupJob batch job removes existing product index records where the Active field is FALSE.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Signature**

global static Map<String, Object> cleanAndBuild(Map<String, Object>)

# Inputs (Optional)

Map<String, Object> that can include the following keys:

### ccrz.ccApiProductIndex.CLEAN ONLY

Boolean

Value	Usage
TRUE	The next build process updates product index records only for products where Product Index Status is Not Current.
	Note: When an admin selects Update Only Outdated Products when refreshing product index records, this key value is set for this method.
FALSE (default)	The next build process updates product index records for all the org's products.

#### ccrz.ccApiProductIndex.LOCALES

Set<String> of specific storefront locales, including specific and generic locales, whose existing product index records you want to clean.

```
new Set<String>{'Locale_1', 'Locale 2'}
```

If you don't specify any locales, the method evaluates all locales across all your org's storefronts.

# ccrz.ccApiProductIndex.MASTER\_PRICE\_LIST

String that specifies the ID of the storefront's master price list, if applicable.

## ccrz.ccProductIndexBuilder.BATCH\_JOB\_PRODUCT\_SCOPE

Map<String, Object> that specifies a range of product IDs to build product index records for. The ccrz.ccProductIndexBuilder.getBatchScopeValues method determines this range. The map's START\_KEY specifies the beginning of the range, and the END KEY specifies the conclusion of the range.



Note: This key is available only in B2B Commerce for Visualforce Spring '20 (version 4.12) or later.

# Outputs

Map<String, Object>, which contains the same input data that was passed toccrz.ccProductIndexCleanupJob.

#### SEE ALSO:

Salesforce Help Values for Product Index Status

Salesforce Help Strategies for Managing Price List Item Currencies with Product Index Records

Salesforce Help Implement the Primary Index for All Currencies Strategy for Product Index Records

# ccrz.ccProductIndexBuilder.build

Executes the ccrz.ccProductIndexBuildJob2 batch job for building product index records.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static Map<String, Object> build(Map<String, Object>)

# Inputs (Optional)

This method accepts the Map<String, Object> from ccrz.ccProductIndexCleanupJob. The map can specify the following keys:

## ccrz.ccApiProductIndex.CLEAN ONLY

Boolean

Value	Usage
TRUE	Build product index records only for products where Product Index Status is Not Current.  Note: When an admin selects Update Only Outdated Products when refreshing product index records, this key value is set for this method.
FALSE (default)	Build product index records for all the org's products.

#### ccrz.ccApiProductIndex.LOCALES

Set<String> of storefront locales, including specific and generic locales, to build product index records for.

```
new Set<String>{'Locale_1', 'Locale 2'}
```

If you don't specify any locales, the method evaluates all locales across all your org's storefronts.

## ccrz.ccApiProductIndex.MASTER PRICE LIST

String that specifies the ID of the storefront's master price list, if applicable.

## ccrz.ccProductIndexBuilder.BATCH JOB PRODUCT SCOPE

Map<String, Object> that specifies a range of product IDs to build product index records for. The ccrz.ccProductIndexBuilder.getBatchScopeValues method determines this range. The map's START\_KEY specifies the beginning of the range, and the END KEY specifies the conclusion of the range.

Note: This key is available *only* in B2B Commerce for Visualforce Spring '20 (version 4.12) or later.

# Logic Performed

By default, this method applies the following formula for determining the product IDs in ccrz.ccProductIndexBuilder.BATCH JOB PRODUCT SCOPE:

```
200/(Number of locales + 1)
```

What do these values mean?

- The 200 value is an arbitrary default starting point.
- The Number of locales variable considers both specific and generic fallback locales. For example, if your storefront defines two specific locales (en US and ja JP), then this variable also considers their respective fallback locales (en and ja). In this example, the Number of locales variable evaluates to 4.
- The + 1 value accounts for a query of ccrz E ProductIndex c records.



- B2B Commerce for Visualforce **Spring '20 (version 4.12)** patch 3.147.7 or later
- B2B Commerce for Visualforce Summer '18 (version 4.9) patch 3.136.39 or later

For more information, see Control the Size of Each Product Index Batch Job.

# **Outputs**

Map<String, Object>, which contains the same input data that was passed to ccrz.ccProductIndexBuildJob2.

# **Extension Points**

You can extend ccrz.ccProductIndexBuildJob2, which is a global class that wraps calls to the following methods of the B2B Commerce for Visualforce global API:

#### ccrz.ccApiProductIndex.create

Creates product index records.

#### ccrz.ccApiProduct.revise

For each product record related to a product index record, sets the Product Index Status to Pending.



# Example: Example

Build product index records for only the en\_US locale and for only products where Product Index Status is Not Current.

```
ccrz.ccProductIndexBuilder.build(new Map<String, Object> {
   ccrz.ccApiProductIndex.LOCALES => new Set<String>{'en US','en'},
    ccrz.ccApiProductIndex.CLEAN ONLY => TRUE
});
```

# SEE ALSO:

Salesforce Help Values for Product Index Status

Salesforce Help Strategies for Managing Price List Item Currencies with Product Index Records

Salesforce Help Implement the Primary Index for All Currencies Strategy for Product Index Records

# ccrz.ccProductIndexBuilder.disableOld

Executes the ccrz.ccProductIndexDisableOldJob batch job, which updates the Active field on existing product index records. All product index records where Active is FALSE update so that Active is TRUE, and vice versa.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static Map<String, Object> disableOld(Map<String, Object>)

# Inputs (Optional)

This method accepts the Map<String, Object> from ccrz.ccProductIndexBuildJob2. The map can specify the following keys:

## ccrz.ccApiProductIndex.CLEAN ONLY

Boolean

Value	Usage
TRUE	Update product index records only for products where Product Index Status is Pending.
FALSE (default)	Update product index records for all the org's products.

# ccrz.ccProductIndexBuilder.BATCH\_JOB\_PRODUCT\_SCOPE

Map<String, Object> that specifies a range of product IDs whose product index records you want to update. The ccrz.ccProductIndexBuilder.getBatchScopeValues method determines this range. The map's START\_KEY specifies the beginning of the range, and the END KEY specifies the conclusion of the range.



Note: This key is available *only* in B2B Commerce for Visualforce Spring '20 (version 4.12).

# Outputs

Map<String, Object>, which contains the same input data that was passed to ccrz.ccProductIndexDisableOldJob.

## **Extension Points**

You can extend ccrz.ccProductIndexDisableOldJob, which is a global class that wraps calls to the following methods of the B2B Commerce for Visualforce global API:

#### ccrz.ccApiProduct.revise

For each product record related to a product index record, sets the Product Index Status to Current.

## ccrz.ccApiProductIndex.revise

Sets the Active field on each product index record to TRUE or FALSE, whichever is opposite the current value.

SEE ALSO:

Salesforce Help Values for Product Index Status

# ccrz.ccProductIndexBuilder.cleanup

Executes the ccrz.ccProductIndexCleanupJob batch job, which removes existing product index records where the Active field is FALSE.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

global static Map<String, Object> cleanup(Map<String, Object>)

# Inputs (Optional)

This method accepts the Map<String, Object> from ccrz.ccProductIndexDisableOldJob. The map can specify the following keys:

# $\verb|ccrz.ccProductIndexBuilder.BATCH_JOB\_PRODUCT\_SCOPE|$

Map<String, Object> that specifies a range of product IDs whose product index records you want to remove, if applicable. The ccrz.ccProductIndexBuilder.getBatchScopeValues method determines this range. The map's START\_KEY specifies the beginning of the range, and the END KEY specifies the conclusion of the range.

**7** 

Note: This key is available *only* in B2B Commerce for Visualforce Spring '20 (version 4.12).

# Outputs

Map<String, Object>, which contains the same input data that was passed to ccrz.ccProductIndexCleanupJob.

### **Extension Points**

You can extend ccrz.ccProductIndexCleanupJob, which is a global class that wraps calls to the following methods of the B2B Commerce for Visualforce global API:

#### ccrz.ccApiProductIndex.remove

Deletes product index records where the Active field is FALSE.

SEE ALSO:

Salesforce Help Values for Product Index Status

# ccrz.ccSiteIndexBuilder

Builds site index records by executing a series of synchronously executed Apex batch jobs. Each batch job includes a finish method that calls back into the ccrz.ccSiteIndexBuilder class for starting the next batch job.

# Compatibility

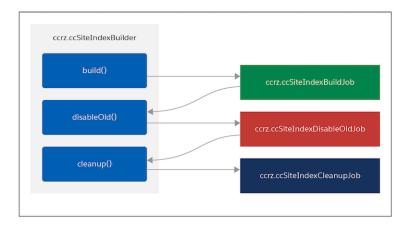
This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# **Execution Order**

The methods of the ccrz.ccSiteIndexBuilder class execute when you refresh site index records from CC Admin.

The methods of this class and the related batch job classes execute in the following order.



### Methods

#### IN THIS SECTION:

#### build

Executes the ccrz.ccSiteIndexBuildJob batch job for building site index records.

#### disableOld

Executes the ccrz.ccSiteIndexDisableOldJob batch job, which updates the Active field on existing site index records. All site index records where Active is FALSE update so that Active is TRUE, and vice versa.

### cleanup

Executes the ccrz.ccSiteIndexCleanupJob batch job, which removes existing site index records where Active is FALSE.

### ccrz.ccSiteIndexBuilder.build

Executes the ccrz.ccSiteIndexBuildJob batch job for building site index records.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static Map<String, Object> build(Map<String, Object>)

### Inputs (Required)

Map<String, Object> that must include the following required keys:

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront to create site index records for. The method first queries all the storefront's supported locales, including the default locale.



**Note**: If the storefront supports the en\_US locale, the batch job creates site index records for both the full en\_US locale and the language-only en locale.

### Outputs

This method passes the Map<String, Object>, updated with the following keys, to ccrz.ccSiteIndexBuildJob:

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales to create site index records for.

#### ccrz.ccApiSiteIndex.ROOT CATEGORY ID

String that specifies the ID of the storefront's root category.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront to create site index records for.

### **Extension Points**

You can extend ccrz.ccSiteIndexBuildJob, which is a global class that wraps calls to the ccrz.ccApiSiteIndex.create method.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

### ccrz.ccSiteIndexBuilder.disableOld

Executes the ccrz.ccSiteIndexDisableOldJob batch job, which updates the Active field on existing site index records. All site index records where Active is FALSE update so that Active is TRUE, and vice versa.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

global static Map<String, Object> disableOld(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccSiteIndexBuildJob.finish method. The map specifies the following keys:

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales whose corresponding site index records the batch job is updating.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront whose site index records the batch job is updating.

### Outputs

This method passes the Map<String, Object> to ccrz.ccSiteIndexDisableOldJob.

#### **Extension Points**

You can extend ccrz.ccSiteIndexDisableOldJob, which is a global class that wraps calls to the ccrz.ccApiSiteIndex.revise method.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

## ccrz.ccSiteIndexBuilder.cleanup

Executes the ccrz.ccSiteIndexCleanupJob batch job, which removes existing site index records where Active is FALSE.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '18	4.9	8

global static Map<String, Object> cleanup(Map<String, Object>)

### Inputs (Required)

This method accepts the Map<String, Object> from the ccrz.ccSiteIndexDisableOldJob.finish method. The map specifies the following keys:

#### ccrz.ccApiSiteIndex.LOCALES

Set<String> of locales whose corresponding site index records the batch job is removing.

#### ccrz.ccApiSiteIndex.STOREFRONT

String that specifies the name of the storefront whose site index records the batch job is removing.

### Outputs

This method returns the original Map<String, Object> input.

#### **Extension Points**

You can extend ccrz.ccSiteIndexCleanupJob, which is a global class that wraps calls to the ccrz.ccApiSiteIndex.remove method.

SEE ALSO:

Salesforce Help Select Which Locales and Currencies Your Storefront Supports

### ccrz.ccUtil

Defines a set of static utility methods for evaluating, parsing, or hashing B2B Commerce for Visualforce object data.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccUtil



**Important:** The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

## Batch Processing Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides several Apex classes that provide global, asynchronous batch jobs. Each batch processing class extends the global ccrz.ccBatchJob base class.



Note: Sometimes, B2B Commerce for Visualforce updates batch processing classes in a new version of the B2B Commerce managed package. In subscriber code, you reference the latest version of these classes that's available in your version of the managed package.



[] Tip: Some batch jobs invoke default logic or data service provider classes, such as ccrz.ccLogicPICreate and ccrz.ccLogicOrderSplitOrder. You can extend these default service provider classes to customize their behavior, but the batch jobs that invoke them execute only in the context of your org's default storefront. Batch jobs can't execute in the context of a specific storefront. When you extend a default service provider class invoked by a batch job, update the settings for your default storefront to override the class that you extended. For information about overriding a default service provider class, see Extend or Override a Default Logic Service Provider on page 652.

#### IN THIS SECTION:

#### ccrz.cc\_batch\_SubscriptionProcessor

Processes subscriptions and creates orders for subscription installments.

#### ccrz.ccBatchJob

Defines a global base class that other batch processing classes extend.

#### ccrz.ccCacheBuilder

Defines a global base class that other classes extend for building caches of specific types of data.

#### ccrz.ccCategoryCacheBuildJob

Builds a cache of category tree data for specific storefronts, storefront root categories, and locales. This class is called from the ccrz.ccCategoryCacheBuilder.build method, which extends the base ccrz.ccCacheBuilder.build method.

#### ccrz.ccPageLabelCacheBuildJob

Builds a cache of page label data for specific storefronts, pages, and locales. This class is called from the ccrz.ccPageLabelCacheBuilder.build method, which extends the base ccrz.ccCacheBuilder.build method.

#### ccrz.ccPublicCacheCleanupJob

Deletes disabled cache entries that haven't been modified in the previous seven days. The ccrz.ccCategoryCacheBuilder.cleanup and ccrz.ccPageLabelCacheBuilder.cleanup methods, which extend the base ccrz.ccCacheBuilder.cleanup method, execute this batch job.

#### ccrz.ccPublicCacheDisableJob

Disables cache entries for specific storefronts, pages, and locales. The ccrz.ccCategoryCacheBuilder.disableOld and ccrz.ccPageLabelCacheBuilder.disableOld methods, which extend the base ccrz.ccCacheBuilder.disableOld method, execute this batch job.

#### ccrz.ccSplitOrderJob

Provides batch processing for splitting orders.

#### ccrz.ccSubscriptionRenewalJob

Renews an expired subscription, which is a subscription where the installment or order count has reached zero.

## ccrz.cc\_batch\_SubscriptionProcessor

Processes subscriptions and creates orders for subscription installments.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.cc batch SubscriptionProcessor



(Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

## ccrz.ccBatchJob

Defines a global base class that other batch processing classes extend.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

None

## ccrz.ccCacheBuilder

Defines a global base class that other classes extend for building caches of specific types of data.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Methods

This class defines the following base methods that don't perform any functionality. Each method accepts a Map<String, Object>input and returns a Map<String, Object> output.

```
global virtual Map<String, Object> build(Map<String, Object>)

global virtual Map<String, Object> disableOld(Map<String, Object>)

global virtual Map<String, Object> cleanup(Map<String, Object>)
```

## ccrz.ccCategoryCacheBuildJob

Builds a cache of category tree data for specific storefronts, storefront root categories, and locales. This class is called from the ccrz.ccCategoryCacheBuilder.build method, which extends the base ccrz.ccCacheBuilder.build method.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Logic Performed

For each combination of storefronts, storefront root categories, and category locales in a batch, this class completes the following actions:

- 1. Calls the ccrz.ccApiCategory.fetchCategoryTree global API method.
- 2. Deserializes the ccrz.ccApiCategory.CATEGORYTREE output.
- 3. Calls the ccrz.ccApiPublicCache.startWrite global API method to initiate the cache build, with the following inputs:

ccrz.ccApiPublicCache.startWrite <b>Key</b>	Value
ccrz.ccApiPublicCache.BUILD_GROUP	The Salesforce ID of the batch job.
ccrz.ccApiPublicCache.CACHE_NAME	ccrz.ccCategoryCacheBuilder.CACHE_NAME, which is always ccCategoryTree.
ccrz.ccApiPublicCache.PAGENAME	all

**4.** Calls the ccrz.ccApiPublicCache.appendTo global API method to add the deserialized category data to the cache entry.

5. Calls the ccrz.ccApiPublicCache.close global API method.

When the batch job completes, old cache entries are disabled and, after seven days, deleted.

#### Constructors

This class defines the following constructors:

ccrz.ccCategoryCacheBuildJob(final Set<Object> storefronts, final Set<Object>
rootCategoryIDs, final Set<Object> locales, final Map<String, Object> inputData)
Constructor that takes:

- A set of storefronts to iterate over in the batch.
- A set of storefront root category IDs.
- A set of locales.
- General input data.

#### SEE ALSO:

ccrz.ccApiCategory.fetchCategoryTree
ccrz.ccApiPublicCache
Salesforce Help Organize Products into Categories for B2B Commerce for Visualforce
Salesforce Help Improve Storefront Performance with Platform Cache

## ccrz.ccPageLabelCacheBuildJob

Builds a cache of page label data for specific storefronts, pages, and locales. This class is called from the ccrz.ccPageLabelCacheBuilder.build method, which extends the base ccrz.ccCacheBuilder.build method.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Logic Performed

For each combination of storefronts, pages, and locales in a batch, this class completes the following actions:

- 1. Calls the ccrz.ccApiI18N.fetchPageLabels global API method.
- 2. Parses the ccrz.ccApiI18N.fetchPageLabels return data for the ccrz.ccApiI18N.PAGE\_LABELS output.

3. Calls the ccrz.ccApiPublicCache.startWrite global API method to initiate the cache build, with the following inputs:

ccrz.ccApiPublicCache.startWrite <b>Key</b>	Value
ccrz.ccApiPublicCache.BUILD_GROUP	The Salesforce ID of the batch job.
ccrz.ccApiPublicCache.CACHE_NAME	ccrz.ccPageLabelCacheBuilder.CACHE_NAME, which is always ccPageLabel.
ccrz.ccApiPublicCache.PAGENAME	The storefront page for the current batch scope.

- **4.** Calls the ccrz.ccApiPublicCache.appendTo global API method to add the ccrz.ccApiI18N.PAGE\_LABELS data to the cache entry.
- 5. Calls the ccrz.ccApiPublicCache.close global API method.

When the batch job completes, the ccrz.ccPageLabelCacheBuilder.disableOld method executes. This method ensures that only a single page label cache entry is enabled at one time for each combination of storefront, page, and locale.

### Constructors

This class defines the following constructors:

ccrz.ccPageLabelCacheBuildJob(final Set<Object> storefronts, final Set<Object> pages,
final Set<Object> locales, final Map<String, Object> inputData)

Constructor that takes:

- A set of storefronts to iterate over in the batch.
- A set of storefront pages.
- A set of locales.
- General input data that's passed to both the ccrz.ccPageLabelCacheBuilder.disableOld and ccrz.ccPageLabelCacheBuilder.cleanup methods.

### Limits

This job doesn't support a combination of storefront name, page name, or locale values that exceeds 130,000 characters. This limit is the maximum length of the ccrz Content c field on the ccrz E PublicCacheContent c object.

To verify the length of a particular combination of values, execute the following Anonymous Apex code from the Developer Console:

```
Map<String,Object> pageLabelRet = ccrz.ccApiI18N.fetchPageLabels(new Map<String,Object>{
    ccrz.ccApi.API_VERSION => ccrz.ccAPI.CURRENT_VERSION,
    ccrz.ccApiI18N.STORE_NAME => 'storefront',
    ccrz.ccApiI18N.PAGE_NAME => 'pagename',
    ccrz.ccApiI18N.LOCALE => 'locale',
    ccrz.ccApiI18N.USE_CACHE => false,
    ccrz.ccApiI18N.RETURN_SERIAL => true
});
```

```
String pageLabels = (String) pageLabelRet.get('pageLabels');
System.debug(pageLabels.length());
```

SEE ALSO:

ccrz.ccApil18N.fetchPageLabels ccrz.ccApiPublicCache Salesforce Help Customize Storefront Headings and Text with Page Labels Salesforce Help Improve Storefront Performance with Platform Cache

## ccrz.ccPublicCacheCleanupJob

Deletes disabled cache entries that haven't been modified in the previous seven days. The ccrz.ccCategoryCacheBuilder.cleanup and ccrz.ccPageLabelCacheBuilder.cleanup methods, which extend the base ccrz.ccCacheBuilder.cleanup method, execute this batch job.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Constructors

This class defines the following constructors:

ccrz.ccPublicCacheCleanupJob(final String cacheName, final Map<String, Object> inputData)
Constructor that takes:

- A cache name, such as ccCategoryTree or ccPageLabel.
- A map of general input data, which by default isn't evaluated.

ccrz.ccPublicCacheCleanupJob(final String cacheName, final Integer maxAge, final
Map<String, Object> inputData)

Constructor that takes:

- A cache name, such as ccCategoryTree or ccPageLabel.
- An integer that specifies a maximum age, in days. This batch job deletes only the cache entries that haven't been modified during this time. The default value is 7.
- A map of input data to pass to:
  - ccrz.ccApiPublicCache.disableOld

- ccrz.ccCategoryCacheBuilder.cleanup
- ccrz.ccPageLabelCacheBuilder.cleanup

SEE ALSO:

ccrz.ccApiPublicCache.disableOld

## ccrz.ccPublicCacheDisableJob

Disables cache entries for specific storefronts, pages, and locales. The ccrz.ccCategoryCacheBuilder.disableOld and ccrz.ccPageLabelCacheBuilder.disableOld methods, which extend the base ccrz.ccCacheBuilder.disableOld method, execute this batch job.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Logic Performed

For each combination of storefronts, pages, and locales in a batch, this class calls the ccrz.ccApiPublicCache.disableOld global API method.

### Constructors

This class defines the following constructors:

ccrz.ccPublicCacheDisableJob(final Set<Object> storefronts, final Set<Object> pages,
final Set<Object> locales, final String cacheName, final String builderClassName, final
Map<String, Object> inputData)

Constructor that takes:

- A set of storefronts to iterate over in the batch.
- A set of storefront pages.
- A set of locales.
- A cache name, such as ccCategoryTree or ccPageLabel.
- A cache builder class that invoked this batch job, such as ccCategoryCacheBuilder or ccPageLabelCacheBuilder. When this class name is included, this batch job calls the class' cleanup method after this batch job completes.

- A map of input data to pass to:
  - ccrz.ccApiPublicCache.disableOld
  - ccrz.ccCategoryCacheBuilder.cleanup
  - ccrz.ccPageLabelCacheBuilder.cleanup

SEE ALSO:

ccrz.ccApiPublicCache.disableOld

## ccrz.ccSplitOrderJob

Provides batch processing for splitting orders.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Logic Performed

This batch processing class completes the following actions:

- 1. Calls the ccrz.ccApiOrder.getOrdersToSplit global API method, which returns the ccrz\_E\_Order\_\_c records to split. By default, this method splits any order where the ccrz SplitProcessed c field is FALSE.
- 2. Calls the ccrz.ccApiOrder.splitOrder global API method to execute the split.

### Constructors

This class defines the following constructors:

#### ccrz.ccSplitOrderJob(final String storefront)

Constructor that specifies the name of the storefront to split orders for.

SEE ALSO:

ccrz.ccApiOrder.getOrdersToSplit ccrz.ccApiOrder.splitOrder

## ccrz.ccSubscriptionRenewalJob

Renews an expired subscription, which is a subscription where the installment or order count has reached zero.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) ccrz.ccSubscriptionRenewalJob



Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

## Trust Classes for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides some default Apex classes for authoring unit tests and logging execution data.



Note: Sometimes, B2B Commerce for Visualforce updates trust classes in a new version of the B2B Commerce managed package. In subscriber code, you reference the latest version of these classes that's available in your version of the managed package.

#### IN THIS SECTION:

#### ccrz.ccApiTestData

Create data for B2B Commerce for Visualforce unit tests. This class defines a single method, setupData, that accepts a Map<String, Map<String, Object>> or serialized JSON string of the data to create.

Write code execution information to the console for developing, troubleshooting, or debugging your storefront.

## ccrz.ccApiTestData

Create data for B2B Commerce for Visualforce unit tests. This class defines a single method, setupData, that accepts a Map<String, Map<String, Object>> or serialized JSON string of the data to create.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Global Test Data



(1) Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

## ccrz.ccLog

Write code execution information to the console for developing, troubleshooting, or debugging your storefront.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## General Usage Guidelines

Consider the following guidelines when choosing how to invoke ccrz.ccLog from your subscriber code:

- Write only the minimum log lines required for debugging an issue.
- Avoid log lines within loops or within methods called from loops, especially tight, computational loops. Instead, log the inputs to the loop and the loop's results.
- When you log a method's entry, also log the method's exit, even when the method throws an exception. Review the ccrz.ccLog examples, which use pairs of try and finally code blocks.
- When you log a method's entry or exit, log only the top-level methods, such as the initial remote action call or top-level business logic method.

## **Logging Level Conventions**

Each ccrz.ccLog method takes one of the following System.LoggingLevel enum values as an input parameter:

Enum Value	Usage
System.LoggingLevel.DEBUG	For execution status, input data to a method, or other troubleshooting information.
System.LoggingLevel.ERROR	For exceptions caught in a catch block.
System.LoggingLevel.INFO	For high-level processes, such as a method's entry or exit.
System.LoggingLevel.WARN	For unexpected data, behavior, or system status. For example, use System.LoggingLevel.WARN when a method returns a null value or other unexpected return data parameters.



Note: The ccrz.ccLog methods don't support other enum values that System.LoggingLevel defines.

## **Subject Conventions**

Each ccrz.ccLog method can take a string input parameter that specifies a subject for the log line. Use the following conventions for the subject's string, depending on the specific information that you're logging:

Data to Log	Subject Value
Exception	ERR

Data to Log	Subject Value
Method's entry	M:E
Method's exit	M:X
Method's parameter	P:parameterName
Method's return value	R
Other data	D: dataToLog, where $dataToLog$ is a string that's specific to the type of data you're logging. Or, simply use $D$ .
Custom subscriber code	To distinguish custom code from default code included in the managed package, consider including a custom prefix such as <i>S</i> . For example, to log a custom method's entry, use <i>SM:X</i> .
Local code for development only, and not intended for production	A common subject or prefix that's easy to search for, such as CUSTOM_M: X.



#### Note:

- Because the colon character (:) is a delimiter in the subject line, avoid using a colon as part of a custom prefix.
- The ccrz.ccLog methods support up to three levels (two colon delimiters) in a subject, such as A:B:C. However, we recommend that you use only two levels (one colon delimiter) whenever possible, such as A:B.
- Avoid concatenating strings for the subject line.

## **Properties**

This class defines the following Apex global static property. For more information about Apex properties and accessors, see Apex Properties.

#### logOn {get; set;}

Boolean

Value	Usage
true	Logging is enabled for the current browser session.
false	Logging isn't enabled.



Note: If your logging call requires complex calculations, check the value of this property before you execute other logic.

## Message Methods

This class defines the following methods for writing string messages to the log output. Consider the following conventions when writing strings to the log output:

Avoid concatenating strings.

• Use minimal language for the message. For example, avoid the following verbose message:

```
ccrz.ccLog.log(System.LoggingLevel.WARN, 'D:someParameter', 'Something unexpected
occurred! The expected data doesn't exist.')
```

Instead, use the following minimal message:

```
ccrz.ccLog.log(System.LoggingLevel.WARN, 'D:someParameter', 'someParameter is null')
```

Avoid method calls or other logic within the message, such as:

```
ccrz.ccLog.log(System.LoggingLevel.ERROR, 'D:someParameter', someMethodThatGetsMessage())
```

• To construct a complex message, wrap the construction within a check of the logOn property. If the message construction can throw an exception, include the appropriate try and catch code blocks. See the logOn property example.

# global static void log(System.LoggingLevel level, String subject, String message) Writes a log line with:

- System.LoggingLevel enum value that you specify
- Subject that you specify
- Message that you specify

#### global static void log(System.LoggingLevel level, String message)

Writes a log line with:

- System.LoggingLevel enum value that you specify
- Message that you specify

#### global static void log(String subject, String message)

Writes a log line with:

- System.LoggingLevel.DEBUG enum value by default
- Subject that you specify
- Message that you specify

### global static void log(String message)

Writes a log line with:

- System.LoggingLevel.DEBUG enum value by default
- Message that you specify

## **Object Methods**

This class defines the following methods for writing object data to the log output. Consider the following conventions when logging object data:

- Be careful when logging large amounts of data, which affect Apex governor limits for heap size.
- Be careful about the size of the object data that you're logging. Log only the values used within the current process, rather than the complete object.
- Avoid logging any personal identifiable information (PII) or other sensitive data.
- Avoid logging any data on the server that the client already logs, such as ccrz\_cc.RemoteActionContext and its results.

# global static void log(System.LoggingLevel level, String subject, Object object) Writes a log line with:

- System.LoggingLevel enum value that you specify
- Subject that you specify
- Object data, serialized to a string using JSON.serializePretty
- Note: If JSON serialization fails, this method falls back to a String.valueOf representation of the object data. If logging is disabled, this method passes the object and System.LoggingLevel enum value directly to System.debug.

#### global static void log(System.LoggingLevel level, Object object)

Writes a log line with:

- System.LoggingLevel enum value that you specify
- Object data that you specify

#### global static void log(String subject, Object object)

Writes a log line with:

- System.LoggingLevel.DEBUG enum value by default
- Subject that you specify
- Object data that you specify

#### global static void log(Object object)

Writes a log line with:

- System.LoggingLevel.DEBUG enum value by default
- Object data that you specify

### **Exception Methods**

This class defines the following methods for writing exceptions to the log output:

### global static void log(System.LoggingLevel level, String subject, Exception e)

Writes a log line with:

- System.LoggingLevel enum value that you specify
- Subject that you specify
- Exception caught, which invokes the following methods:
  - e.getMessage
  - 2. e.getStackTraceString

#### global static void log(System.LoggingLevel level, Exception e)

Writes a log line with:

- System.LoggingLevel enum value that you specify
- Exception caught

#### global static void log(String subject, Exception e)

Writes a log line with:

- System.LoggingLevel.DEBUG enum value by default
- Subject that you specify
- Exception caught

#### global static void log(Exception e)

Writes a log line with:

- System.LoggingLevel.DEBUG enum value by default
- Exception caught

### Example: Example: Check the Value of the logon Property

Check the value of the logOn property, and execute other logic only when logOn is true.

(!) Important: When logging is enabled, you can call other methods that query or process object data. However, we recommend that you avoid SOQL or DML operations, which can cause your org to reach Apex governor limits.

```
if(ccrz.ccLog.logOn) {
    try {
        String someString = '';
        ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:someString', someString);
} catch (Exception loggingError) {
        ccrz.ccLog.log(System.LoggingLevel.ERROR, 'ERR', loggingError);
}
}
```

### Example: Example: Log from Remote Action Methods

When you call ccrz.cclog methods within an Apex remote action, make sure that you implement the following requirements:

- Call ccrz.cc CallContext.initRemoteContext before you call ccrz.ccLog.
- Call ccrz.cc RemoteActionResult at the end of the remote action.

```
@RemoteAction
global static ccrz.cc_RemoteActionResult exampleMethod (ccrz.cc_RemoteActionContext
ctx, String exampleParameter) {
    ccrz.cc_CallContext.initRemoteContext(ctx);
    ccrz.ccLog.log(System.LoggingLevel.INFO,'M:E','exampleMethod');
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:exampleParameter',exampleParameter);

    ccrz.cc_RemoteActionResult result = new ccrz.cc_RemoteActionResult();
    result.success = false;
    try {
        // Execute business logic
        result.success = true;
    } catch (Exception e) {
        ccrz.ccLog.log(System.LoggingLevel.ERROR, 'ERR', e);
    } finally {
        ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X', 'exampleMethod');
        ccrz.ccLog.close(result);
    }
    return result;
}
```

## Example: Example: Log from a Boolean Return Apex Method

The following example shows how to call ccrz.ccLog methods within the try block of an Apex method that returns a Boolean result.

```
global static Boolean exampleMethod (final String parameter1, final Integer parameter2,
final Object parameter3) {
    ccrz.ccLog.log(System.LoggingLevel.INFO,'M:E','exampleMethod');
```

```
ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter1', parameter1);
   ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter2', parameter2);
   ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter3', parameter3);
   Boolean result = false;
   try {
       try {
           Integer someInteger = 1;
           Integer anotherInteger = 2;
           // Execute business logic
           ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:someInteger', someInteger);
           // Continue business logic
           ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:anotherInteger',
anotherInteger);
       } catch (Exception e) {
           ccrz.ccLog.log(System.LoggingLevel.ERROR, 'ERR', e);
       return result;
   } finally {
       ccrz.ccLog.log(System.LoggingLevel.INFO, 'R', result);
       ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X', 'exampleMethod');
   }
```

### Example: Example: Log from a Boolean Return Apex Method, but Don't Catch Exceptions

The following example shows how to call ccrz.ccLog methods within the try block of an Apex method that returns a Boolean result. This example doesn't catch any exceptions that occur within the try block, and only returns the result.

Note: In this example, the method doesn't log the return value, but always logs the method's exit. With this design, ensure that the calling method logs and handles exceptions.

```
global static Boolean exampleMethod (final String parameter1, final Integer parameter2,
final Object parameter3) {
   ccrz.ccLog.log(System.LoggingLevel.INFO,'M:E','exampleMethod');
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter1', parameter1);
   ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter2', parameter2);
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter3', parameter3);
    Boolean result = false;
    try {
        Integer someInteger = 1;
       Integer anotherInteger = 2;
        // Execute business logic
       ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:someInteger', someInteger);
        // Continue business logic
       ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:anotherInteger', anotherInteger);
       return result;
    } finally {
        ccrz.cclog.log(System.LoggingLevel.INFO, 'M:X', 'exampleMethod');
    }
```

### Example: Example: Log from a Void Return Apex Method

The following example shows how to call ccrz.ccLog methods within the try block of an Apex method that doesn't return any value.

```
global static void exampleMethod (final String parameter1, final Decimal parameter2)
{
    ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:E', 'exampleMethod');
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter1', parameter1);
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter2', parameter2);
    try {
        String someString = null;
        // Execute business logic
        ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:someString', someString);
    } catch (Exception e) {
        ccrz.ccLog.log(System.LoggingLevel.ERROR, 'ERR', e);
    } finally {
        ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X', 'exampleMethod');
    }
}
```

### Example: Example: Log from a Void Return Apex Method, but Don't Catch Exceptions

The following example shows how to call ccrz.ccLog methods within the try block of an Apex method that doesn't return any value. This example doesn't catch any exceptions that occur within the try block.

Note: With this design, ensure that the calling method logs and handles exceptions.

```
global static void exampleMethod (final String parameter1, final Decimal parameter2)
{
    ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:E', 'exampleMethod');
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter1', parameter1);
    ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'P:parameter2', parameter2);
    try {
        String someString = null;
        // Execute business logic
        ccrz.ccLog.log(System.LoggingLevel.DEBUG, 'D:someString', someString);
    } finally {
        ccrz.ccLog.log(System.LoggingLevel.INFO, 'M:X', 'exampleMethod');
    }
}
```

#### SEE ALSO:

```
Salesforce Help Log Storefront Code Execution
debug(logLevel, msg)
serializePretty(objectToSerialize)
Exception Class and Built-In Exceptions
```

## JavaScript Functions for B2B Commerce for Visualforce

B2B Commerce for Visualforce provides some proprietary JavaScript libraries or heavily modified third-party libraries that help render components and behavior on storefront pages. As part of your storefront's customization strategy, you can invoke, extend, or override these functions.

The ccrz.cc\_hk\_UserInterface extension point class in the API includes methods that return <script> element paths to the following libraries:

#### **CCRZ Includes**

The ccrz.cc\_hk\_UserInterface.ccrzIncludes method returns paths to the following proprietary or heavily modified third-party libraries:

- jquery.currency.js
- cloudcraze.js
- CC Backbone.js
- backbone models.js
- analytics.js

#### Theme-specific Includes

The ccrz.cc\_hk\_UserInterface.standardUIProperties method returns paths to the following proprietary libraries:

- The default uiproperties.js file, installed with your storefront's CC JavaScript Framework static resource.
- A theme-specific override of uiproperties.js included in your storefront custom theme's static resource.

## Namespace

All functions in these libraries are part of the global CCRZ JavaScript namespace.

When you create custom functions that extend or override the default functions, append the subsc sub-namespace, as in CCRZ.subsc. We recommend that any subscriber function definitions first check to validate that the subsc object exists, and create the object if it's missing:

```
CCRZ.subsc = _.extend(CCRZ.subsc||{},{
    // Subscriber-defined attributes and functions here
        customFunction : function() {
            alert('customFunction says hello');
        }
});
```

Warning: Avoid creating any other child objects in the CCRZ namespace in your subscriber code.

## Other Third-Party Libraries

B2B Commerce for Visualforce also references other unmodified or lightly modified third-party JavaScript libraries. The ccrz.cc\_hk\_UserInterface.standardIncludes method returns paths to these third-party libraries. These libraries are outside of the global CCRZ namespace. For a complete list, see Default JavaScript Libraries for Storefront Pages.

#### IN THIS SECTION:

### CC\_Backbone.js

The CC\_Backbone.js file, installed with your storefront's CC\_JavaScript\_Framework static resource, contains objects that help render components on a page.

#### cloudcraze.is

The clouldcraze.js file, installed with your storefront's CC\_JavaScript\_Framework static resource, contains objects that help render components on a page.

#### uiproperties.js

The uiproperties.js file, installed with your storefront's CC\_JavaScript\_Framework static resource, contains a single object, CCRZ.uiProperties.

### JavaScript Functions and Objects for Localized Storefront Content

When you internationalize your storefront, B2B Commerce for Visualforce uses JavaScript functions and objects defined in cloudcraze.js for showing localized content.

### Handlebars Functions and Objects for Storefront Page Templates

B2B Commerce for Visualforce uses JavaScript functions and objects defined in cloudcraze.js for calling handlebars.js functionality that renders page content.

#### SEE ALSO:

ccrz.cc\_hk\_UserInterface.ccrzIncludes ccrz.cc\_hk\_UserInterface.standardIncludes ccrz.cc\_hk\_UserInterface.standardUIProperties

## CC\_Backbone.js

The CC\_Backbone.js file, installed with your storefront's CC\_JavaScript\_Framework static resource, contains objects that help render components on a page.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

#### IN THIS SECTION:

#### CCRZ.RemoteInvocation

Represents a base object that wraps Apex remote action methods for persisting CCRZ.pagevars.remoteContext information.

#### CCRZ.CloudCrazeModel

Extends the CCRZ.RemoteInvocation base object and the default Backbone.Model object. Individual components, such as the Breadcrumb widget and Category Tree widget, extend this object.

#### CCRZ.CloudCrazeView

Extends the CCRZ.RemoteInvocation base object and the default Backbone. View object. Individual components, such as the line-level independence (LLI) checkout experience, extend this object for rendering content and responding to changes in device screen size.

#### PubSub

Represents an event channel that extends Backbone. Events and provides a central, synchronous channel across all views and models.

#### SEE ALSO:

```
ccrz.cc_hk_UserInterface.ccrzIncludes

Salesforce Help Code That Renders Storefront Components

External Link Backbone.js
```

### CCRZ.RemoteInvocation

Represents a base object that wraps Apex remote action methods for persisting CCRZ.pagevars.remoteContext information.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Example Apex Remote Action Method**

Let's say that you've defined the following subscriber class, exampleSubscriberClass, with a remote action method, exampleRemoteActionMethod:

```
global class exampleSubscriberClass {
    @RemoteAction
    global static ccrz.cc_RemoteActionResult
exampleRemoteActionMethod(ccrz.cc_RemoteActionContext ctx, String exampleInputString) {
    ccrz.cc_RemoteActionResult result = ccrz.cc_CallContext.init(ctx);
    try {
        // Execute business logic for exampleInputString
        result.success = true;
    } catch (Exception e) {
```

```
ccrz.ccLog.log(LoggingLevel.ERROR, 'Err', e);
    // Exception handling
} finally {
    ccrz.ccLog.close(result);
}
return result;
}
```

### Wrap the Apex Remote Action Method

Functions that wrap an Apex remote action method—including the default functions and any subscriber functions you author that extend CCRZ.RemoteInvocation—comply with the following design considerations:

- The wrapped remote action method must accept a ccrz.cc\_RemoteActionContext as its first parameter before any other optional parameters.
- The wrapping functions include a callback that's invoked when the remote action returns. The callback passes the following parameters:

#### result

JSON serialization of ccrz.cc RemoteActionResult.

#### event

Event object that describes the status of the remote action. See Handling the Remote Response.

- The wrapping functions can include options, a JavaScript object that contains configuration parameters for the remote action. For example, the buffer parameter can indicate whether the remote action can be combined with other remote action requests. The CCRZ.RemoteInvocation object extends options to include the parameter nmsp, which defines the ccrz namespace for the remote action call. By default, this configuration restricts remote actions in a function to those that the managed package defines. In subscriber code, you can extend the nmsp parameter to reference a different managed package or set its value to false.
- Functions that extend CCRZ. RemoteInvocation must specify the className parameter, which references the underlying Apex class that defines the wrapped remote action method. In the previous example, this class is exampleSubscriberClass.

### Methods

#### IN THIS SECTION:

#### invokeCtx

Invokes a remote action method for the current ccrz.cc RemoteActionContext and other parameters.

#### invokePageLoadingCtx

Invokes a remote action method for the current ccrz.cc\_RemoteActionContext and other parameters as a page is loading. This function causes an overlay to appear, or increment the overlay count when an overlay already appears. When the function completes, the overlay count decrements, and the overlay disappears when the count is zero.

#### SEE ALSO:

ccrz.cc\_RemoteActionContext
ccrz.cc\_RemoteActionResult
Declaring a Remote Method in Apex
Salesforce Help Code That Renders Storefront Components
External Link Backbone.js

#### CCRZ.RemoteInvocation.invokeCtx

Invokes a remote action method for the current ccrz.cc RemoteActionContext and other parameters.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Example: Example

Subscriber code defines an object, customRemoteInvocation, that:

- Extends CCRZ.RemoteInvocation
- Defines a method, exampleFunction, that:
  - Calls invokeCtx() for wrapping the remote action method, exampleRemoteActionMethod.
  - Sets the buffer parameter to false, which indicates that the remote action executes by itself.
  - Sets the nmsp parameter to false, which indicates that the remote action method is subscriber code from outside of the corz namespace.

```
CCRZ.subsc.customRemoteInvocation = _.extend(CCRZ.RemoteInvocation, {
    className: 'remoteActionApexClass',
    exampleFunction: function(exampleInputString) {
        this.invokeCtx('exampleRemoteActionMethod', exampleInputString, function(result,
        event) {
            if(event.status) {
```

### CCRZ.RemoteInvocation.invokePageLoadingCtx

Invokes a remote action method for the current ccrz.cc\_RemoteActionContext and other parameters as a page is loading. This function causes an overlay to appear, or increment the overlay count when an overlay already appears. When the function completes, the overlay count decrements, and the overlay disappears when the count is zero.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### CCRZ.CloudCrazeModel

Extends the CCRZ.RemoteInvocation base object and the default Backbone.Model object. Individual components, such as the Breadcrumb widget and Category Tree widget, extend this object.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Methods

This object doesn't define any methods.

SEE ALSO:

External Link Backbone. Model

## CCRZ.CloudCrazeView

Extends the CCRZ.RemoteInvocation base object and the default Backbone. View object. Individual components, such as the line-level independence (LLI) checkout experience, extend this object for rendering content and responding to changes in device screen size.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### **Parameters**

This object defines the following parameters:

### viewName

Boolean

Value	Usage
true	Publishes the CCRZ.pubSub event channel, view: viewName: refresh, after the view is rendered.
false (default)	Doesn't publish any event channel.

#### managedSubView

Boolean

Value	Usage
true	The view doesn't automatically re-render when the browser window size or device screen size changes. When this value is $true$ , the view expects another view or object to specify re-render behavior.
false (default)	The view automatically re-renders when the browser window size or device screen size changes.

#### Create a View

When the CCRZ.util.createView method instantiates a CCRZ.CloudCrazeView object, the CCRZ.CloudCrazeView methods execute in the following order:

- 1. initialize
- 2. render
- 3. preViewChanged
- 4. preRender
- 5. preRenderPhone, preRenderTablet, or preRenderDesktop
- **6.** renderPhone, renderTablet, or renderDesktop
- 7. postRenderPhone, postRenderTablet, Or postRenderDesktop
- 8. postRender

### Handle a Changed View Size

When the viewChanged method returns true, the CCRZ.CloudCrazeView methods execute in the following order:

- 1. renderViewChanged
- 2. render
- 3. preViewChanged
- 4. preRender
- 5. preRenderPhone, preRenderTablet, Or preRenderDesktop
- **6.** renderPhone, renderTablet, or renderDesktop
- 7. postRenderPhone, postRenderTablet, or postRenderDesktop
- 8. postRender

### Methods

#### IN THIS SECTION:

#### initialize

Creates a view before the view renders on the page.

#### render

Renders the view for any browser window or device screen size. This method calls into the render methods for specific device screen sizes and handles fallback behavior.

#### preViewChanged

Provides a placeholder for executing logic before the browser window size or device screen size changes.

#### preRender

Provides a placeholder for executing logic before the view renders on the page. This method executes for any browser window or device screen size.

#### preRenderPhone

Provides a placeholder for executing logic before the renderPhone method renders the view for mobile device screen sizes.

#### preRenderTablet

Provides a placeholder for executing logic before the renderTablet method renders the view for tablet device screen sizes.

#### preRenderDesktop

Provides a placeholder for executing logic before the renderDesktop method renders the view for desktop device screen sizes.

#### renderPhone

Renders the view specifically for mobile device screen sizes. If the view doesn't define this method but the current viewport is a mobile device screen size, the view falls back to the renderTablet and then renderDesktop methods.

#### renderTablet

Renders the view specifically for tablet device screen sizes. If the view doesn't define this method but the current viewport is a tablet device screen size, the view falls back to the renderDesktop method.

#### renderDesktop

Renders the view specifically for desktop device screen sizes. The view must define this method, which provides fallback rendering for all device screen sizes.

#### postRenderPhone

Provides a placeholder for executing logic after the renderPhone method renders the view for mobile device screen sizes.

#### postRenderTablet

Provides a placeholder for executing logic after the renderTablet method renders the view for tablet device screen sizes.

#### postRenderDesktop

Provides a placeholder for executing logic after the renderDesktop method renders the view for desktop device screen sizes.

#### postRender

Provides a placeholder for executing logic after the view renders on the page. This method executes for any browser window or device screen size.

#### viewChanged

Listens for changes in browser window or device screen size or orientation, and calls

CCRZ.CloudCrazeView.renderViewChanged when a change occurs.

### renderViewChanged

Calls CCRZ.CloudCrazeView.render to re-render the view when CCRZ.CloudCrazeView.viewChanged returns true.

#### SEE ALSO:

External Link Backbone. View

### CCRZ.CloudCrazeView.initialize

Creates a view before the view renders on the page.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

initialize: function(options)

### Inputs

#### options

JavaScript object that contains configuration parameters for the remote action. The CCRZ.RemoteInvocation object extends options to include the parameter nmsp, which defines the ccrz namespace for the remote action call.

### CCRZ.CloudCrazeView.render

Renders the view for any browser window or device screen size. This method calls into the render methods for specific device screen sizes and handles fallback behavior.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

render: function()

### Inputs

None

### Outputs

CCRZ.CloudCrazeView object for the rendered view.

### CCRZ.CloudCrazeView.preViewChanged

Provides a placeholder for executing logic before the browser window size or device screen size changes.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

preViewChanged: function(oldView, newView)

### Inputs

#### oldView

Backbone. View object that represents the view before the browser window size or device screen size changes.

### newView

Backbone. View object that represents the view after the browser window size or device screen size changes.

### SEE ALSO:

External Link Backbone. View

## CCRZ.CloudCrazeView.preRender

Provides a placeholder for executing logic before the view renders on the page. This method executes for any browser window or device screen size.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

preRender: function()

### Inputs

None

## ${\tt CCRZ.CloudCrazeView.preRenderPhone}$

Provides a placeholder for executing logic before the renderPhone method renders the view for mobile device screen sizes.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

preRenderPhone: function()

### Inputs

None

## ${\tt CCRZ.CloudCrazeView.preRenderTablet}$

Provides a placeholder for executing logic before the renderTablet method renders the view for tablet device screen sizes.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

preRenderTablet: function()

### Inputs

None

## ${\tt CCRZ.CloudCrazeView.preRenderDesktop}$

Provides a placeholder for executing logic before the renderDesktop method renders the view for desktop device screen sizes.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

preRenderDesktop: function()

### Inputs

None

### CCRZ.CloudCrazeView.renderPhone

Renders the view specifically for mobile device screen sizes. If the view doesn't define this method but the current viewport is a mobile device screen size, the view falls back to the renderTablet and then renderDesktop methods.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

renderPhone: function()

### Inputs

None

### CCRZ.CloudCrazeView.renderTablet

Renders the view specifically for tablet device screen sizes. If the view doesn't define this method but the current viewport is a tablet device screen size, the view falls back to the renderDesktop method.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

renderTablet: function()

### Inputs

None

## ${\tt CCRZ.CloudCrazeView.renderDesktop}$

Renders the view specifically for desktop device screen sizes. The view must define this method, which provides fallback rendering for all device screen sizes.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

renderDesktop: function()

### Inputs

None

## ${\tt CCRZ.CloudCrazeView.postRenderPhone}$

Provides a placeholder for executing logic after the renderPhone method renders the view for mobile device screen sizes.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

postRenderPhone: function()

### Inputs

None

### ${\tt CCRZ.CloudCrazeView.postRenderTablet}$

Provides a placeholder for executing logic after the renderTablet method renders the view for tablet device screen sizes.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

postRenderTablet: function()

### Inputs

None

## ${\tt CCRZ.CloudCrazeView.postRenderDesktop}$

Provides a placeholder for executing logic after the renderDesktop method renders the view for desktop device screen sizes.

### Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

postRenderDesktop: function()

## Inputs

None

# CCRZ.CloudCrazeView.postRender

Provides a placeholder for executing logic after the view renders on the page. This method executes for any browser window or device screen size.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

postRender: function()

## Inputs

None

# CCRZ.CloudCrazeView.viewChanged

Listens for changes in browser window or device screen size or orientation, and calls CCRZ.CloudCrazeView.renderViewChanged when a change occurs.

## Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Signature

viewChanged: function()

## Inputs

None

## Outputs

Boolean

Value	Usage
true	The current browser window or device screen size or orientation changed. Call CCRZ.CloudCrazeView.renderViewChanged.
false	The current browser window or device screen size or orientation hasn't changed, and a re-render isn't necessary.

# ${\tt CCRZ.CloudCrazeView.renderViewChanged}$

Calls CCRZ.CloudCrazeView.render to re-render the view when CCRZ.CloudCrazeView.viewChanged returns true.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

renderViewChanged: function()

## Inputs

None

## CCRZ.PubSub

Represents an event channel that extends Backbone. Events and provides a central, synchronous channel across all views and models.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) CloudCraze Event Handling



**Important**: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

External Link Backbone. Events

# cloudcraze.js

The clouldcraze.js file, installed with your storefront's CC\_JavaScript\_Framework static resource, contains objects that help render components on a page.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

#### IN THIS SECTION:

#### CCRZ.console

Provides debugging output to the browser console when the Developer Mode storefront setting is enabled.

#### CCRZ.display

Defines methods that return information about the device currently used for showing the storefront.

#### CCRZ.util

Defines utility methods that other B2B Commerce for Visualforce JavaScript methods reference.

# CCRZ.console

Provides debugging output to the browser console when the Developer Mode storefront setting is enabled.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

## Methods

#### IN THIS SECTION:

log

Writers output to the browser console.

## CCRZ.console.log

Writers output to the browser console.

## Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

 $\texttt{CCRZ.console.log}\,(\textit{message})$ 

## Inputs

message

The output to write to the developer console.

## Outputs

None

# CCRZ.display

Defines methods that return information about the device currently used for showing the storefront.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Methods

IN THIS SECTION:

isDesktop

Indicates whether the current view state is a desktop device size.

### isPhone

Indicates whether the current view state is a phone device size.

### isTablet

Indicates whether the current view state is a tablet device size.

# CCRZ.display.isDesktop

Indicates whether the current view state is a desktop device size.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# Signature

CCRZ.display.isDesktop()

### Inputs

None

## Outputs

Boolean

Value	Usage
true	The current view state is a desktop device size.
false	The current view state is a different device size.

# CCRZ.display.isPhone

Indicates whether the current view state is a phone device size.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

CCRZ.display.isPhone()

# Inputs

None

# Outputs

Boolean

Value	Usage
true	The current view state is a phone device size.
false	The current view state is a different device size.

# ${\tt CCRZ. display. is Tablet}$

Indicates whether the current view state is a tablet device size.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

CCRZ.display.isTablet()

## Inputs

None

### Outputs

Boolean

Value	Usage
true	The current view state is a tablet device size.
false	The current view state is a different device size.

# CCRZ.util

Defines utility methods that other B2B Commerce for Visualforce JavaScript methods reference.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Methods

IN THIS SECTION:

### createView

Constructs and instantiates a CCRZ.CloudCrazeView object. This method minimizes the amount of code required to create a view, especially when a Backbone.Model or Backbone.Collection isn't required.

## CCRZ.util.createView

Constructs and instantiates a CCRZ.CloudCrazeView object. This method minimizes the amount of code required to create a view, especially when a Backbone.Model or Backbone.Collection isn't required.

### Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

### Signature

CCRZ.util.createView(viewConfiguration)

#### Inputs

#### viewConfiguration

JavaScript object that represents the view to create for different device screen sizes:

#### desktop

Specifies the following details for desktop device screen sizes:

#### template

The handlebars.js template ID for desktop device screen sizes.

#### target

The HTML class for rendering content on desktop device screen sizes.

#### model

CCRZ.CloudCrazeModel object passed to the handlebars.js template for rendering content.

#### phone

Specifies the following details for mobile device screen sizes:

#### template

The handlebars.js template ID for mobile device screen sizes.

### target

The HTML class for rendering content on mobile device screen sizes.

#### tablet

Specifies the following details for tablet device screen sizes:

### template

The handlebars.js template ID for tablet device screen sizes.

#### target

The HTML class for rendering content on tablet device screen sizes.

# Note:

• This method evaluates specific views in the following fallback order:

- 1. Phone
- 2. Tablet
- 3. Desktop
- This object can also define view-specific functions or invoke CCRZ.CloudCrazeView parameters and methods.

# Example: Example

Consider the following example component that renders a handlebars.js template named exampleTemplate.

```
<div class="exampleTarget"/>
<script id="exampleTemplate" type="text/template">
This is an example template
</script>
<script>
   jQuery(function($) {
        CCRZ.util.createView({
            desktop: {
                template: 'exampleTemplate',
                target: 'exampleTarget'
            },
           phone: {
                template: 'exampleTemplate',
                target: 'phone-center-column'
            },
           preRender: function() {
                alert('Text to show before the content renders');
        });
   });
</script>
```

SEE ALSO:

CCRZ.CloudCrazeView

# uiproperties.js

The uiproperties.js file, installed with your storefront's CC\_JavaScript\_Framework static resource, contains a single object, CCRZ.uiProperties.

# Compatibility

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

#### IN THIS SECTION:

#### CCRZ.uiProperties

Defines handlebars.js templates and partials, HTML selectors, and some default properties for components on storefront pages.

#### SEE ALSO:

ccrz.cc\_hk\_UserInterface.standardUIProperties

Salesforce Help Code That Renders Storefront Components

Salesforce Help Style Your Storefront with a Theme

# CCRZ.uiProperties

Defines handlebars.js templates and partials, HTML selectors, and some default properties for components on storefront pages.

# Compatibility

This reference applies to:

Release	Managed Package Version	API Version
B2B Commerce for Visualforce Winter '21	4.13	12
B2B Commerce for Visualforce Spring '20	4.12	11
B2B Commerce for Visualforce Summer '19	4.11	10
B2B Commerce for Visualforce Spring '19	4.10	9
B2B Commerce for Visualforce Summer '18	4.9	8

# handlebars.js Component Templates and Selectors

The CCRZ.uiProperties object defines the following default information for each storefront component, such as the header, page widgets, page details, and more:

#### Desktop

- handlebars.js template to use for rendering the component on desktop devices
- Unique HTML class or ID selector in the page source where the component renders on desktop devices

#### **Phone**

handlebars.js template to use for rendering the component on mobile devices

Unique HTML class or ID selector in the page source where the component renders on mobile devices

For example, consider an example component:

```
exampleComponentView: {
    desktop: {
        tmpl: 'example-Component-View-Desktop',
        selector: '.htmlClass'
    },
    phone: {
        tmpl: 'example-Component-View-Mobile',
        selector: '#htmlID'
    }
}
```



Note: The phone template and selector information is an artifact of legacy Bootstrap 2.3.2-enabled storefront design, which specified different templates for desktop and mobile devices. We recommend that new solutions always use the Bootstrap 3 library, where a component's template is responsive for any device screen size. If you extend the default uiproperties.js file, define only desktop template and selector information, and ensure that your template is responsive for any device screen size.

### Remove Mobile-Specific Views

If your storefront uses the Bootstrap 3-enabled templates (recommended), you can optionally remove the mobile-specific template and selector information from the CCRZ.uiProperties object. The following example script modifies all phone template and selector information to use the same desktop information:

### handlebars.js Component Partials

Some components use handlebars.js partials, which are registered within CCRZ.uiProperties and define reusable template sections. A partial's template name must use the # character prefix. Consider a similar example component, which defines partials for the component's features, such as controls that a buyer interacts with or other sections:

```
exampleComponentView: {
    desktop: {
        tmpl: 'example-Component-View-Desktop',
        selector: '.htmlClass'
    },
```

```
phone: {
    tmpl: 'example-Component-View-Mobile',
    selector: '#htmlID'
},
partials: {
    componentControl: '#ComponentDisplay',
    componentSection: '#ComponentSection',
    componentSummary: '#ComponentSummary'
}
```

### **Autocomplete Properties**

The CCRZ.uiProperties object defines default properties for autocomplete suggestions for the following components:

- Search Box widget in the storefront header or in a page column in the page body
- Quick Order widget

```
autoComplete: {
   PRODUCT SEARCH: {
        search input:{
            minLength: 3,
            delay: 300,
            resultLimit: 10,
            position: {collision:'none flip'}
        },
        sidebarSearchText:{
            minLength: 3,
            delay: 300,
            resultLimit: 10,
            position: {collision:'none flip'}
        }
    },
    QUICK ORDER: {
        quickOrderField:{
            minLength: 3,
            delay: 300,
            resultLimit: 10,
            position: {collision:'none flip'}
        }
    }
}
```

These properties define the following behavior:

#### collision

Option in jquery-ui.js that describes how overflowing elements render on the page. For more information, see the jquery-ui.js documentation for the position option. This value is passed to the jQuery code that renders the suggestions on the page.

#### delay

Time (ms) before suggestions appear on the page after a buyer has entered the required minimum characters in the widget. This value is passed to the jQuery code that renders the suggestions on the page.

#### minLength

The minimum number of characters that a buyer must enter in the widget before suggestions are returned. This value is passed to the jQuery code that renders the suggestions on the page.

#### resultLimit

The maximum number of suggested results to show on the page. This value is passed to the server as part of the autocomplete request.

### Download the Default uiproperties. js File

To review all the information in the default uiproperties.js, download the CC JavaScript Framework static resource.

- 1. From Setup, enter Static Resources in the Quick Find box, and then select Static Resources.
- 2. Select CC\_JavaScript\_Framework.
- **3.** In the static resource detail, click **View file** to download it to your local system.
- **4.** Open the downloaded ZIP folder and copy the contents to a safe working directory on your local system.

## Extend the Default CCRZ.uiProperties Values

As part of your storefront's customization strategy, you can override values in the CCRZ.uiProperties object in the following ways:

#### Override from your theme

Add specific override values in the uiproperties.js file included in your storefront theme's static resource.



#### Note:

- Overrides from your theme's uiproperties.js file apply globally to all storefront pages.
- In your override, include only the specific values that you want to change.

For example, the following theme-specific uiproperties.js file overrides the default autocomplete minLength value:

```
CCRZ.uiProperties = $.extend(true, CCRZ.uiProperties, {
    autoComplete: {
        QUICK ORDER: {
            quickOrderField: {
                minLength: 5
        }
    }
```

#### Override from a page include

Add override values in a page include.



#### !mportant:

- Make sure that you specify override values before any jQuery onload functions execute.
- Make sure that the default uiproperties.js file's definitions load before your override's definitions load.

For example, the following page include also overrides the default autocomplete minLength value:

```
// Other page include code
CCRZ.uiProperties.autoComplete.QUICK ORDER.quickOrderField.minLength = 5;
```

```
// Other page include code, such as:
jQuery(function($) {
    CCRZ.pubSub.on()
};
```

## Considerations for ccrz.uiProperties Upgrades

Major releases of the B2B Commerce for Visualforce managed package can sometimes add definitions to the default CCRZ.uiProperties object. Generally, these updates don't affect any existing subscriber extensions. Occasionally, some updates can require that you manually upgrade the default CCRZ.uiProperties object. For more information about any specific required action, review the B2B Commerce for Visualforce ReleaseNotes and Upgrade Guide.



Tip: We recommend that you always upgrade the managed package in a sandbox org and review the updated uiproperties.js file before you upgrade your solution in a production org.

#### SEE ALSO:

ccrz.cc\_hk\_UserInterface.standardUIProperties

Salesforce Help Code That Renders Storefront Components

Salesforce Help Style Your Storefront with a Theme

Salesforce Help Considerations for Autocomplete Suggestions in Search Box and Quick Order Widgets

External Link Handlebars

# JavaScript Functions and Objects for Localized Storefront Content

When you internationalize your storefront, B2B Commerce for Visualforce uses JavaScript functions and objects defined in cloudcraze.js for showing localized content.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Localization Functions



**Important:** The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Salesforce Help Internationalize Your Storefront

# Handlebars Functions and Objects for Storefront Page Templates

B2B Commerce for Visualforce uses JavaScript functions and objects defined in cloudcraze.js for calling handlebars.js functionality that renders page content.

This content is available only as an archived PDF from CloudCraze documentation:

(PDF) Handlebars Functions

(Important: The content of this PDF was authored for older versions of the managed package and doesn't necessarily represent the most recent version of B2B Commerce for Visualforce. This content is updated infrequently, and only for resolving critical inaccuracies or changes in behavior.

SEE ALSO:

Salesforce Help Code That Renders Storefront Components