

ccrz.ccApiSubscription

The Subscription API provides a way to query subscription related data. Data is returned using the map-in/map-out convention found in the other global APIs. (See the *response parameters* under API method descriptions).

Data Services

- **ccServiceSubscription**—Provides support for fetch()

Subscription Data Return Format

Specific subscription data is returned in a Map<String, Object> block, describing essentially *key-value* pairs. Note that this can be cast to JSON, cast to a "bean" object, etc., and offers maximum flexibility in how the data is returned.

The field names are essentially variations of the [Force.com](#) sObject field names, camel-cased. Two possible exceptions include:

1. Multiple, leading capitalized letters are untransformed. Example: "SEOname__c" => "SEOname"
2. [Force.com](#) "Id" and "Name" fields are translated to "sfld" and "sfcdName", respectively.

Additional fields (supplied by market templates or subscribers) will surface using a similar naming convention.

Small Fields

The small dataset returns the following fields.

Field	Type	Description
sfcdName	String	Auto-numbered, SB-{0000000000}
sfld	ID	The Force.com record ID.
sequence	Integer	Used for ordering subscriptions.
SPT	ID	The sub prod term this subscription was ordered from.
parentSubscription	ID	If this subscription has a parent subscription, this field points to it.
subscriptionId	String	The external ID of the subscription. It is not functionally used by CloudCraze, but may be used when creating objects within CloudCraze.
ownerId	ID	The Force.com ID of the record owner.
storefront	String	Storefront associated with this subscription.

Medium Fields

A larger set of field data in addition to the small fields.

Field	Type	Description
account	ID	Account associated with this subscription.
autoRenew	Boolean	Specifies whether or not this subscription automatically renews.
CCOrder	ID	Reference to original order used to create this subscription.
CCOrderItem	ID	Reference to original order item used to create this subscription.
currencyISOCode	String	CloudCraze currency for this transaction.
effectiveAccountId	ID	Holds the effective account for this Subscription.

ignoreInstallmentFrequencyFields	Boolean	Copied on creation from original ccrz__E_ProdSubTerm__c object.
installmentAddress	ID	Reference to a CC Contact Address object that contains the billing address data. This will be a unique copy of the address information captured when the subscription is checked out.
installmentCountRemaining	Integer	The number of installments left in this subscription. 0 indicates no more installments left. Null indicates this is not an installment-based subscription.
installmentLastDate	DateTime	Last date that payment will be billed for this subscription. Returns a GMT formatted date.
installmentNextDate	DateTime	The date the next time payment will be processed for this subscription. Returns a GMT formatted date.
installmentStatus	String	Not currently used.
orderAddress	ID	Reference to a CC Contact Address object that contains subscription shipping address data. This will be a unique copy of the address information captured during checkout.
orderCountRemaining	Integer	The number of orders left in this subscription. 0 indicates no more orders left. Null indicates this is not an order-based subscription.
orderLastDate	DateTime	The date of the last order for this subscription. Returns a GMT formatted date.
orderNextDate	DateTime	The date of the next order for this subscription. Returns a GMT formatted date.
orderStatus	String	Not currently used.
quantity	Integer	The number of items shipped for this subscriptions.
recurringPrice	Decimal	Individual unit price for the installment.
recurringPriceSubAmt	Decimal	Sub total for the recurring price. This is the amount used for installments.
SPTInstallmentCount	Integer	The number of installments / times to repeat billing for the subscription. This is on creation from original ccrz__E_ProdSubTerm__c object.
SPTInstallmentFrequency	String	Indicates if the billing and shipping for the subscription are on the same cycle. This is copied on creation from original ccrz__E_ProdSubTerm__c object.
SPTInstallmentFrequencyUOM	String	Unit of measurement for the frequency of how often a customer is billed for the subscription. This is copied on creation from original ccrz__E_ProdSubTerm__c object.
SPTOrderCount	Integer	The number of times to repeat ordering(shipping) the product. (order count * order frequency) = number of shipments (subscription duration). This is copied on creation from original ccrz__E_ProdSubTerm__c object.
SPTOrderFrequency	Decimal	Enter the number of times you want shipping to occur per UOM. This is copied on creation from original ccrz__E_ProdSubTerm__c object.
SPTOrderFrequencyUOM	String	Unit of measurement for the frequency of how often a product is shipped. This is copied on creation from original ccrz__E_ProdSubTerm__c object.
storedPayment	ID	The stored payment method for this subscription.
subscriptionProduct	ID	The product for this subscription. When recurring orders are used, this is the product that will be ordered.
subscriptionStartDate	DateTime	The start date of the subscription. Returns a GMT formatted date.

subscriptionStatus	String	The status of the subscription.
user	ID	User associated with the subscription.

"fetch()" Method

The fetch method takes a Map<String, Object> as input data and returns a Map<String, Object>.

If data exists, the return data will contain these entities hashed under the appropriate response parameter.

Request Parameters

Parameter Key	Type	Description
ccrz.ccApi.API_VERSION	Integer	The API_VERSION defines the generally expected set of parameters and is used to ensure future backward compatibility. If not passed then a ccrz.ccApi.NoApiVersionException will be thrown.
ccrz.ccApi.SIZING	Map<String, Object>	See the Global API: Data-Sizing Conventions for usage.
ccrz.ccAPISubscription.STOREFRONT	String	The storefront to filter on. If passed, only subscriptions with the specified storefront will be returned. If no storefront is passed, the storefront will fall back on the cc_CallContext storefront.
ccrz.ccAPISubscription.ORDERIDS	List<String>	A List<String> of CC Order IDs to filter on. If passed, only subscriptions with the specified CCOOrders will be returned.
ccrz.ccAPISubscription.STOREDPAIDMENTIDS	List<String>	A List<String> of Stored Payment IDs to filter on. If passed, only subscriptions with the specified Stored Payment will be returned.
ccrz.ccAPISubscription.PRODUCTIDS	List<String>	A List<String> of Product IDs to filter on. If passed, only subscriptions with the specified Product will be returned.
ccrz.ccAPISubscription.STATUS	String	A String value of a subscription status. If passed, only subscriptions with the specified status will be returned.
ccrz.ccAPISubscription.ID	String	A Subscription SF ID. If passed, only the subscription with the specified value will be returned.
ccrz.ccAPISubscription.IDS	List<String>	A List<String> of Subscription Force.com IDs. If both ID and IDS are passed, only the ID parameter will be used.
ccrz.ccAPISubscription.BYSEQUENCE	Boolean	A Boolean value. If passed and set to TRUE, will order the subscription records by the ccrz__Sequence__c field.
ccrz.ccAPISubscription.BYLASTORDERDATE	Boolean	A Boolean value. If passed and set to TRUE, will order the subscription records by the ccrz__OrderLastDate__c field.
ccrz.ccAPISubscription.BYNEXTORDERDATE	Boolean	A Boolean value. If passed and set to TRUE, will order the subscription records by the ccrz__OrderNextDate__c field.
ccrz.ccAPISubscription.BYNAME	Boolean	A Boolean value. If passed and set to TRUE, will order the subscription records by the Name field.
ccrz.ccAPISubscription.BYASC	Boolean	A Boolean value. If passed and set to TRUE, will order the subscription records in ascending order. If not passed, default is descending order.

Response Parameters

Parameter Key	Type	Description
ccrz.ccApi.API_VERSION	Integer	The version of the return. The API_VERSION defines the generally expected set of return data and is used for backward compatibility.
ccrz.ccApi.SUCCESS	Boolean	A Boolean indicating whether the operation succeeded. Note that in some cases, an exception may not always be thrown for errors that occur. If success is FALSE, then the transaction should generally be rolled back.

ccrz.ccAPISubscription.SUBSCRIPTIONS	List<Map<String, Object>>	The list of all subscription entities as Map<String, Object> data types.
ccrz.ccAPIOrder.ORDERLIST	List<Map<String, Object>>	The list of all related order entities as Map<String, Object> data types. See the ccApiOrder documentation for more detail on what fields are returned.
ccrz.ccAPIProduct.PRODUCTLIST	List<Map<String, Object>>	The list of all related product entities as Map<String, Object> data types. See the ccApiProduct documentation for more detail on what fields are returned.
ccrz.ccAPIAddress.ADDRESSLIST	List<Map<String, Object>>	The list of all related address entities as Map<String, Object> data types. See the ccApiAddress documentation for more detail on what fields are returned.

Examples

The following is an example of the return data for the fetch() method ccrz.ccAPISubscription.SUBSCRIPTIONS parameter.

Subscription JSON fetch() return data

```
{
  "success": true,
  "addressList": [
    {
      "stateISOCode": "AL",
      "postalCode": "44444",
      "lastName": "Tester",
      "firstName": "Community",
      "country": "United States",
      "countryISOCode": "US",
      "companyName": "TestCompany",
      "city": "TestCity",
      "addressFirstline": "123 Test Address",
      "addrReadOnly": false,
      "sfdcName": "017884",
      "ownerId": "00536000000vU70AAU",
      "sfid": "a0N36000004uE5EEAU"
    }
  ],
  "productList": [
    {
      "storefront": "DefaultStore",
      "SE0Title": "CloudBurst | Accessories | Acer V193W EJb 19\" Wide
LCD",
      "startDate": "2016-03-07",
      "sfid": "a1B36000000JM5qEAG",
      "productStatus": "Released",
      "ownerId": "00536000000vTckAAE",
      "longDesc": "<span>The V193W EcoDisplay brings to the media
world a smart widescreen format within a slim design for the ultimate
viewing experience bringing more fun and enjoyment to your PC
activities. The quality V193W widescreen display maximizes the usage
of data and video applications, whether scrolling the Internet,
working on multiple office applications or digital photography in fine
details. The V193W is ideal for gamers and media fanatics whom
```

appreciate a home cinema atmosphere and appreciate space in the home PC area.",

```
    "endDate": "2099-12-31",
    "quantityperunit": 1,
    "taxable": false,
    "EProductMediasS": [
      {
        "startDate": "2016-03-07",
        "sfid": "a1636000000J8uGAAS",
        "product": "a1B36000000JM5qEAG",
        "mediaType": "Product Image",
        "enabled": true,
        "endDate": "2099-12-31",
        "sfdcName": "000036",
        "filePath": "images/products/ET.CV3WP.E05/Product_Image/ET.
CV3WP.E05_ProdImage.jpeg",
        "locale": "en_US",
        "sequence": 500,
        "productMediaSource": "Static Resource",
        "URI": "ET.CV3WP.E05_ProdImage.jpeg",
        "staticResourceName": "CC_00TBImages"
      },
      {
        "startDate": "2016-03-07",
        "sfid": "a1636000000J8uHAAS",
        "product": "a1B36000000JM5qEAG",
        "mediaType": "Product Image Thumbnail",
        "enabled": true,
        "endDate": "2099-12-31",
        "sfdcName": "000037",
        "filePath": "images/products/ET.CV3WP.E05
/Product_Image_Thumbnail/ET.CV3WP.E05_ProdThumb.jpg",
        "locale": "en_US",
        "sequence": 500,
        "productMediaSource": "Static Resource",
        "URI": "ET.CV3WP.E05_ProdThumb.jpg",
        "staticResourceName": "CC_00TBImages"
      },
      {
        "startDate": "2016-03-07",
        "sfid": "a1636000000J8uIAAS",
        "product": "a1B36000000JM5qEAG",
        "mediaType": "Product Search Image",
        "enabled": true,
        "endDate": "2099-12-31",
        "sfdcName": "000038",
        "filePath": "images/products/ET.CV3WP.E05/Product_Search_Image
/ET.CV3WP.E05_SearchImage.jpg",
        "locale": "en_US",
        "sequence": 500,
```

```

        "productMediaSource": "Static Resource",
        "URI": "ET.CV3WP.E05_SearchImage.jpg",
        "staticResourceName": "CC_00TBImages"
    }
],
    "unitOfMeasure": "Each",
    "sfdcName": "Acer V193W EJB 19\" Wide LCD",
    "availabilityMessage": null,
    "SKU": "ET.CV3WP.E05",
    "inventoryType": "STANDARD",
    "productType": "Product",
    "shortDesc": "<span>Widescreen, 19 in LCD Monitor, 1440 x 900 max
resolutio</span>",
    "averageRating": 0,
    "EProductTabsS": []
}
],
"orderList": [
    {
        "encryptedId": "f7f139e2-f321-4bee-bf9c-a478283c6a9d",
        "storefront": "DefaultStore",
        "taxAmount": 0,
        "originatedCart": "a0E360000001oBuZEAU",
        "sfid": "a0k3600000046oVaAAI",
        "shipAmount": 0,
        "EOrderItemsS": [
            {
                "lastModifiedById": "00536000000vU70AAU",
                "sfid": "a0g360000001PjxeAAC",
                "order": "a0k3600000046oVaAAI",
                "createdDate": "2016-08-23T13:35:24.000+0000",
                "isSubscription": false,
                "category": "a0I360000000jsNpEAI",
                "itemStatus": "Available",
                "systemModstamp": "2016-08-23T13:35:24.000+0000",
                "orderLineType": "Major",
                "productName": "Acer V193W EJB 19\" Wide LCD",
                "adjustmentAmount": 0,
                "isDeleted": false,
                "product": "a1B360000000JM5qEAG",
                "subscriptionStartDate": "2016-08-23",
                "orderItemId": "a0D360000009GOD4EA0",
                "createdById": "00536000000vU70AAU",
                "subAmount": 9.99,
                "unitOfMeasure": "Each",
                "sfdcName": "009235",
                "quantity": 1,
                "requestDate": "2016-08-23",
                "itemTotal": 9.99,
                "price": 9.99,
            }
        ]
    }
]

```

```
    "productType": "Product",
    "subscriptionAutoRenewal": false,
    "lastModifiedDate": "2016-08-23T13:35:24.000+0000",
    "storeId": "DefaultStore"
  }
],
"account": "00136000008SxvcAAC",
"shipComplete": false,
"orderName": "O-0000009169",
"orderTermsS": [
  {
    "sfdcName": "00399",
    "systemModstamp": "2016-08-23T13:35:24.000+0000",
    "title": "CloudBurst Terms",
    "lastModifiedById": "00536000000vU70AAU",
    "sfid": "a0j36000002EyWUAA0",
    "order": "a0k360000046oVaAAI",
    "createdDate": "2016-08-23T13:35:24.000+0000",
    "description": "CloudBurst Inc. is required by law to collect
sales tax on orders shipped to specific states. Appropriate charges
will be added to your merchandise total and displayed for your review
prior to checkout (tax displayed on this page may change if you decide
to update your shipping address). Unless otherwise noted, all products
are sold by CloudBurst Inc.",
    "createdById": "00536000000vU70AAU",
    "isDeleted": false,
    "lastModifiedDate": "2016-08-23T13:35:24.000+0000"
  }
],
"orderNumber": 1009169,
"contact": "003360000065AHxAAM",
"orderStatus": "Order Submitted",
"shipTo": "a0N36000004uE5EEAU",
"name": "Cart",
"taxSubTotalAmount": 9.99,
"taxExemptFlag": false,
"isAnonymous": false,
"orderDate": "2016-08-23",
"ownerId": "00536000000vU70AAU",
"skipTax": false,
"totalAmount": 9.99,
"sfdcName": "O-0000009169",
"currencyISOCode": "USD",
"user": "00536000000vU70AAU",
"subtotalAmount": 9.99,
"verifyExemptionFlag": false,
"owner": {
  "Name": "Community Tester",
  "Id": "00536000000vU70AAU",
  "attributes": {
```

```

        "url": "/services/data/v37.0/subjects/User
/00536000000vU70AAU",
        "type": "Name"
    }
}
],
"subscriptionList": [
{
    "user": "00536000000vU70AAU",
    "subscriptionStatus": "Active",
    "subscriptionStartDate": "2016-08-23T13:35:25.000+0000",
    "subscriptionProduct": "a1B36000000JM5qEAG",
    "subscriptionId": "a0g36000001PjxeAAC",
    "storefront": "DefaultStore",
    "storedPayment": "a1Z36000000i9IxEAI",
    "sequence": 300,
    "SPT": "a1e360000008B7nAAE",
    "SPTOrderFrequency": 1,
    "SPTOrderFrequencyUOM": "Weekly",
    "SPTOrderCount": 52,
    "SPTInstallmentFrequency": 1,
    "SPTInstallmentFrequencyUOM": "Monthly",
    "SPTInstallmentCount": 12,
    "recurringPrice": 5,
    "recurringPriceSubAmt": 5,
    "quantity": 1,
    "orderStatus": "Active",
    "orderNextDate": "2016-08-30T13:35:25.000+0000",
    "orderLastDate": "2017-08-22T13:35:25.000+0000",
    "orderCountRemaining": 52,
    "orderAddress": "a0N36000004uE5DEAU",
    "installmentStatus": "Active",
    "installmentNextDate": "2016-09-23T13:35:25.000+0000",
    "installmentLastDate": "2017-08-23T13:35:25.000+0000",
    "installmentCountRemaining": 12,
    "installmentAddress": "a0N36000004uE5DEAU",
    "ignoreInstallmentFrequencyFields": false,
    "currencyISOCode": "USD",
    "CCOrder": "a0k360000046oVaAAI",
    "CCOrderItem": "a0g36000001PjxeAAC",
    "autoRenew": true,
    "account": "001360000008SxvcAAC",
    "sfdcName": "SB-0000008033",
    "ownerId": "00536000000vU70AAU",
    "sfid": "a1g36000000pBygAAE"
}
],
"subStorePaymentList": [
    "a1Z36000000i9Ix"

```



```
]
}
```

The following example fetches Subscriptions entities by Storefront and orders by Last Ordered Date in Ascending order, assuming the default implementation.

Fetch Subscriptions

```
Map<String, Object> inputData = new Map<String, Object>{
    ccrz.ccApi.API_VERSION => 9,
    ccrz.ccAPISubscription.STOREFRONT => 'DefaultStore',
    ccrz.ccAPISubscription.BYLASTORDERDATE => TRUE,
    ccrz.ccAPISubscription.BYASC => TRUE
}

try {
    Map<String, Object> outputData = ccrz.ccAPISubscription.fetch
(inputData);
    if (outputData.get(ccrz.ccAPISubscription.SUBSCRIPTIONS) != null) {
        // The cast to List<Map<String, Object>> is necessary...
        List<Map<String, Object>> subscriptionList = (List<Map<String,
Object>>) outputData.get(ccrz.ccAPISubscription.SUBSCRIPTIONS);

        for(Map<String, Object> subscription : subscriptionList){
            // The cast, again, is necessary...
            String subscriptionName = (String)term.get('sfdcName');
        }
    }
} catch (Exception e) {
    // Error handling...
}
```