# Loyalty Management Developer Guide

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# CHAPTER 1 Loyalty Management Standard Objects

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- LoyaltyPgmPtnLdgSummary
- LoyaltyPgmPtnrPrepaidPack
- LoyaltyProgram


Loyalty Management data model provides objects and fields to create and manage loyalty programs for your organization. Use the objects to manage partners and members, track members' activities, reward members, and manage promotions.

In addition to the standard objects included with the Loyalty Management license, the standard objects included with the Salesforce platform licenses enabled in your Org are available out-of-the-box.

Warning: When you customize standard fields, we recommend that you don't change the API names of the default picklist values.

SEE ALSO:

Object Reference for the Salesforce Platform: Overview of Salesforce Platform Objects and Fields

SOAP API Developer Guide: About SOAP API

- LoyaltyProgramBadge
- LoyaltyProgramCurrency
- LoyaltyProgramCurrencyTier
- LoyaltyProgramMbrPromotion
- LoyaltyProgramMember
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- PromotionPartyUsageDetail
- PromotionProduct
- PromotionProductCategory
- PromotionRuleTemplate
- PromotionStage
- PromotionStageEmailTemplate
- TransactionJournal
- Voucher
- VoucherDefinition

# Loyalty Management Data Model

Learn about the objects and relationships within the Loyalty Management data model.

- Loyalty program data model
- Loyalty journal data model

EDITIONS

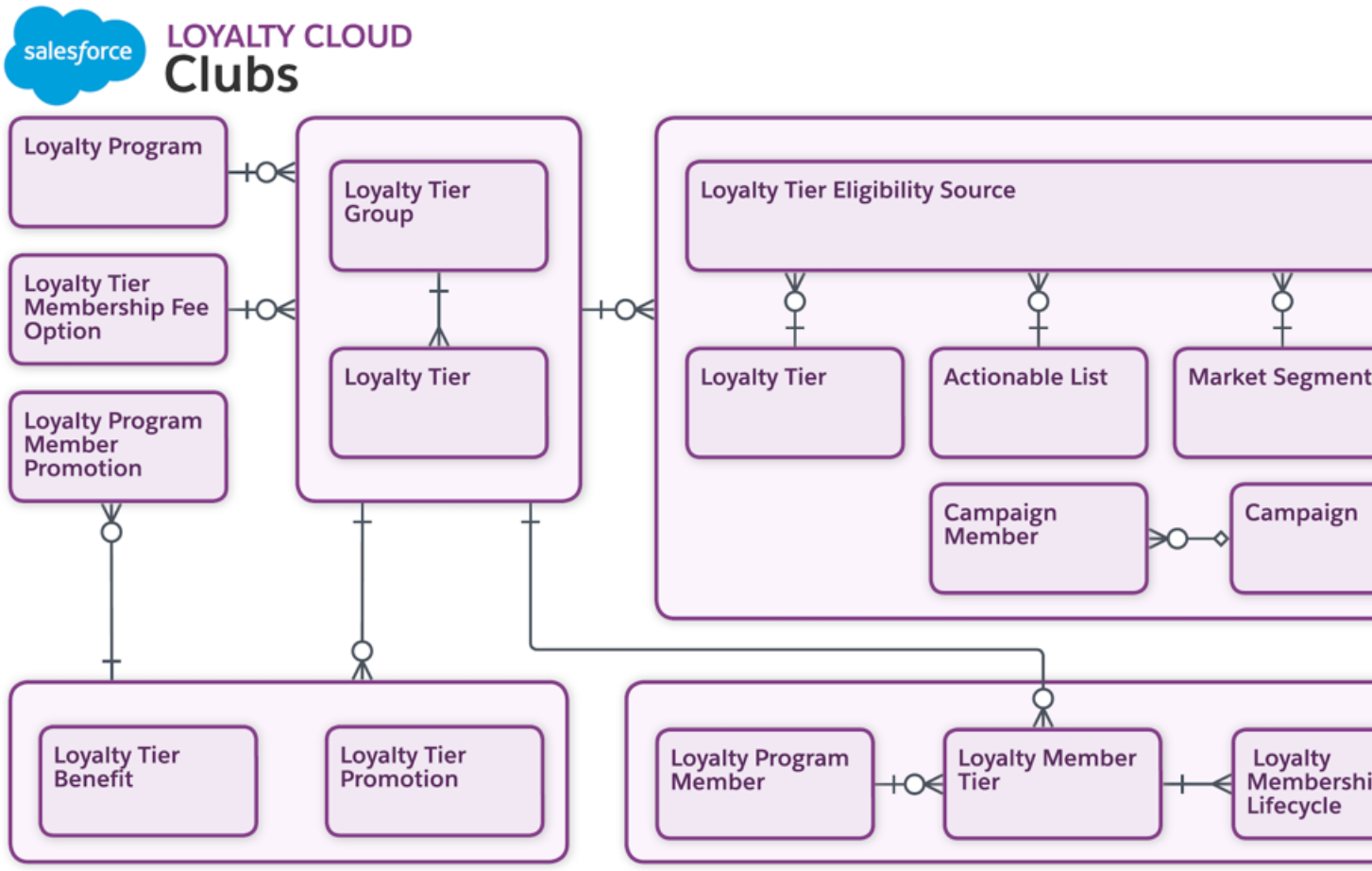
Available in: Lightning Experience in **Enterprise**, **Performance**, **Developer**, and **Unlimited** Editions that have Loyalty Management enabled.

## Loyalty Clubs Data Model

Clubs are interest-based membership initiatives designed to provide exclusive benefits and privileges to customers.

Clubs are modeled as loyalty tier groups. For every club, a loyalty tier is created with the same name. This loyalty tier is then associated with various entities, such as eligibility criteria, promotions, and enrollment processes.

Clubs are either independent or associated with existing loyalty programs. For independent clubs, a dummy loyalty program is set up.




The following objects are associated with the clubs data model:

- Loyalty Program on page 88: Represents the loyalty program that the club is a part of.
- Loyalty Tier Group on page 142: Groups all your company's clubs together.

- Loyalty Tier on page 135: Stores detailed information about each club, including its name, description, and specific attributes.
- Loyalty Tier Eligibility Source on page 140: Determines the eligibility criteria for club membership. This can be based on:
  - Loyalty Tiers: Loyalty program members from specific tiers.
  - Segments: Customers who are part of specific Data Cloud segments.
  - Campaigns: Customers who are part of specific campaigns.
  - Actionable Lists: Customers who are part of specific actionable lists.
- Loyalty Tier Membership Fee Option on page 146: Stores information about the subscription fees for each club, including the amount and payment models, such as:
  - Cash
  - Loyalty Currency
  - Cash and Loyalty Currency
- Loyalty Tier Benefit on page 138: Associates club to a benefit that the club offers.
- Loyalty Tier Promotion on page 149: Associates exclusive promotions with the club, which can be offered to members.
- Loyalty Program Member on page 102: Stores information about a club member.
- Loyalty Member Tier: on page 50 Tracks the membership tenure of each member, including the start and end dates of their club membership.
- Loyalty Program Member Promotion on page 99: Associates a club member with the promotion they are eligible for.
- LoyaltyMembershipLifecycle on page 46: Manages the stages of a member's subscription, from initial enrollment to ongoing engagement, and any changes in status.

Note: The objects and fields listed are shared between loyalty programs and clubs of your organization.

# AnalyticsDatasetDefinition

Represents the datasets used for analytics, such as those in CRM Analytics and Tableau. This object is available in API version 65.0 and later.

## Supported Calls

`create()`, `delete()`, `describeSObjects()`, `query()`, `retrieve()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `DatasetCategory` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The type of metric that the dataset is designed to support.<br>Possible values are: |

| Field | Details |
| --- | --- |
| | • `PromotionsByMembers`—Members<br>• `PromotionsByRevenue`—Revenue<br>• `PromotionsByTransactions`—Transaction Journals<br>The default value is `PromotionsByRevenue`. |
| `DatasetName` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The name of the dataset. |
| `DeveloperName` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The developer name of the dataset. |
| `Language` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The language of the dataset. |
| `MasterLabel` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The label of the dataset. |
| `NamespacePrefix` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The namespace prefix that is associated with this object. Each Developer Edition org that creates a managed package has a unique namespace prefix. Limit: 15 characters. You can refer to a component in a managed package by using the ***namespacePrefix__componentName***notation. |

| Field | Details |
| --- | --- |
| | The namespace prefix can have one of the following values:<br>• In Developer Edition organizations, the namespace prefix is set to the namespace prefix of the organization for all objects that support it. There's an exception if an object is in an installed managed package. In that case, the object has the namespace prefix of the installed managed package. This field's value is the namespace prefix of the Developer Edition organization of the package developer.<br>• In organizations that aren't Developer Edition organizations, NamespacePrefix is only set for objects that are part of an installed managed package. There's no namespace prefix for all other objects. |
| `UsageCategory` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The category of usage that uniquely identifies an agent topic.<br>Possible values are:<br>• `PromotionPerformanceInsights`<br>The default value is `PromotionPerformanceInsights`. |

# Benefit

Represents information about benefits associated with the loyalty program. Benefits are mapped to the members based on the tier or other program rules. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `BenefitActionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the benefit action. |

| Field | Details |
| --- | --- |
| | This is a relationship field.<br>**Relationship Name**<br>BenefitAction<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BenefitAction |
| `BenefitTypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the benefit type.<br>This is a relationship field.<br>**Relationship Name**<br>BenefitType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BenefitType |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Detailed description of loyalty benefit. |
| `ImageUrl` | **Type**<br>url<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The URL for the image. This field is available in API version 57.0 and later. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Required. Indicates whether the loyalty benefit is active. |
| `IsBenefitSelectionAllowed` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether a member is allowed to select the benefit (`true`) or not (`false`). This field is available in API version 57.0 and later.<br>The default value is `false`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty benefit. |
| `PrioritySequence` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Priority rating of the loyalty benefit. |
| `UnitId` | **Type**<br>reference |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The unit of measure for quantity.<br>This is a relationship field.<br>**Relationship Name**<br>Unit<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>UnitOfMeasure |
| `Value` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The quantity included in the loyalty benefit. |

# BenefitParameterValue

Represents the runtime value of a parameter that's used when executing a flow for benefit action. This object is available in API version 52.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `BenefitActionParameterId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The benefit action parameter value associated with the benefit action.<br>This is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>BenefitActionParameter<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BenefitActionParameter |
| `BenefitId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The benefit associated with the benefit action.<br>This is a relationship field.<br>**Relationship Name**<br>Benefit<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Benefit |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the benefit parameter value. |

| Field | Details |
| --- | --- |
| `ParameterValue` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The pre-defined values of the parameter. |

# BenefitType

Represents information about the type of benefits such as Support Benefits available to the loyalty program member. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `Category` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The category of the benefit type. Picklist values aren't provided for this field and must be added based on the requirements of the organization. |
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description of benefit type. |
| `ImageSource` | **Type**<br>string<br>**Properties**<br>Create, Filter, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The source of the image that represents the benefit type. This field is available in API version 62.0 and later. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the benefit type. |
| `OwnerId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ProcessType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Required. The process type associated with the loyalty benefit type.<br>Possible values are:<br>• `Loyalty`<br>• `Rebate` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**BenefitTypeChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**BenefitTypeOwnerSharingRule**
Sharing rules are available for the object.

**BenefitTypeShare**
Sharing is available for the object.

# GameDefinition

Represents information about a game that the loyalty program offers to its members. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The description of the game. |
| `EndDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date till which the game can be offered to members. |
| `ExpirationPeriod` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of days or months for which a game is valid for a member to play after the game is assigned to them. |
| `ExpirationPeriodUnit` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The unit of measure for the ExpirationPeriod field.<br>Possible values are:<br>• `Days`<br>• `Months` |
| `IsGameAssignmentRequired` | **Type**<br>boolean |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether members are eligible to play the game only if they are assigned the game (`true`) or not (`false`).<br>The default value is `false`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the game. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The owner of the record.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |

| Field | Details |
| --- | --- |
| `StartDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>The date from which the game can be offered to members. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The status of the game.<br>Possible values are:<br>• `Active`<br>• `Draft`<br>• `Inactive` |
| `TimeoutDuration` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The duration the game is valid for after a participant starts to play it. The value is specified in seconds. |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The type of game.<br>Possible values are:<br>• `Scratchcard`<br>• `SpintheWheel`—Spin The Wheel |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**GameDefinitionFeed**
Feed tracking is available for the object.

**GameDefinitionHistory**
History is available for tracked fields of the object.

**GameDefinitionShare**
Sharing is available for the object.

# GameParticipant

Represents a junction between a game definition and a participant who is either an account, a contact, or a loyalty program member. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the participant's account that's associated with the game definition.<br>This field is a relationship field.<br>**Relationship Name**<br>Account<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the participant's contact that's associated with the game definition.<br>This field is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>Contact<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Contact |
| `GameDefinitionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>ID of the game definition that has been assigned to the participant.<br>This field is a relationship field.<br>**Relationship Name**<br>GameDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>GameDefinition |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>ID of the participant's loyalty program member record that's associated with the game definition.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The owner of the record<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ParticipantId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>ID of the participant's contact, account, or loyalty program member record.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Participant |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>Account, Contact, LoyaltyProgramMember |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**GameParticipantChangeEvent on page 237 (API Version 63.0)**
Change events are available for the object.

**GameParticipantFeed**
Feed tracking is available for the object.

**GameParticipantHistory**
History is available for tracked fields of the object.

**GameParticipantShare**
Sharing is available for the object.

# GameParticipantReward

Represents the reward that's provided to a participant after they've played a game. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `ExpirationDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date till which the game is valid for the participant to play. |
| `GameParticipantId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the associated game participant.<br>This field is a relationship field.<br>**Relationship Name**<br>GameParticipant<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>GameParticipant |
| `GameRewardId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the reward offered to the participant.<br>This field is a relationship field.<br>**Relationship Name**<br>GameReward<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>GameReward |
| `IssuedRewardReferenceId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the voucher issued to the participant as a reward or the transaction journal that credits the points rewarded to the participant.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>IssuedRewardReference<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>TransactionJournal, Voucher |

| Field | Details |
| --- | --- |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `SourceActivityId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the record that represents the reason why the participant was eligible to play the game.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>SourceActivity<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>GameDefinition, Promotion, TransactionJournal |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The participant's status for the game. |

| Field | Details |
| --- | --- |
| | Possible values are:<br>• `Expired`<br>• `NoReward`<br>• `Rewarded`<br>• `YetToReward` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**GameParticipantRewardChangeEvent on page 237 (API Version 63.0)**
Change events are available for the object.

**GameParticipantRewardFeed**
Feed tracking is available for the object.

**GameParticipantRewardHistory**
History is available for tracked fields of the object.

# GameReward

The reward that's offered to participants of a game. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `Color` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The color of the segment in the Spin the Wheel board that the represents the game reward. |
| `CurrentRewardCount` | **Type**<br>int |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of times the reward has been provided to game participants until the current date. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The description of the reward. |
| `GameDefinitionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The game that the reward belongs to.<br>This field is a relationship field.<br>**Relationship Name**<br>GameDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>GameDefinition |
| `ImageUrl` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The image URL of the segment in the Spin the Wheel board that the represents the game reward. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |

| Field | Details |
| --- | --- |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `MaximumRewardCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The maximum number of times the reward can be provided to game participants. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the reward. |
| `RewardDefinitionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the voucher definition that's used to issue vouchers or the loyalty program currency that's used to credit points to participants as game reward.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>RewardDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency, VoucherDefinition |
| `RewardType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Possible values are:<br>• `CustomReward`<br>• `LoyaltyPoints`<br>• `NoReward`<br>• `Raffle`—Reseved for future use.<br>• `Voucher` |
| `RewardValue` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The value of the currency or voucher that's issued to participants as game reward. |
| `WinProbability` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The probability of the reward being provided to a participant. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**GameRewardChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**GameRewardFeed**
Feed tracking is available for the object.

**GameRewardHistory**
History is available for tracked fields of the object.

# JournalReason

Represents a view that specifies the reason for the action that created a transaction journal. This object is available in API version 51.0 and later.

Note: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

## Supported Calls

`describeSObjects(),query(),retrieve()`

## Fields

| Field | Details |
|---|---|
| `ApiName` | **Type**<br>string<br>**Properties**<br>Filter, Group, idLookup, Sort<br>**Description**<br>The unique name of the object in the API. This name can contain only underscores and alphanumeric characters, and must be unique in your org. It must begin with a letter, not include spaces, not end with an underscore, and not contain two consecutive underscores. In managed packages, this field prevents naming conflicts on package installations. With this field, a developer can change the object's name in a managed package and the changes are reflected in a subscriber's organization. |
| `IsActive` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Specifies if the Journal Reason picklist values in the Transaction Journal entity are active.<br>Possible values are:<br>• `active`<br>• `deleteInProgress`<br>• `inactive` |
| `JournalReasonType` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Provides the reason for the action that created a transaction journal.<br>Possible values are:<br>• `AccrualReversal`—Accrual Reversal<br>• `ManualPointsAdjustment`—Manual Points Adjustment<br>• `RedemptionReversal`—Redemption Reversal |

| Field | Details |
|---|---|
| `MasterLabel` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The label of the Journal Reason picklist. |

SEE ALSO:

*Salesforce Help*: Prerequisites for Managing Member Transactions

# JournalSubType

Represents the subcategory of transaction journal. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The description of journal subtype. |
| `JournalTypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the Journal Type.<br>This is a relationship field.<br>**Relationship Name**<br>JournalType |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>JournalType |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the journal subtype. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**JournalSubTypeChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**JournalSubTypeHistory**
History is available for tracked fields of the object.

SEE ALSO:

*Salesforce Help*: Prerequisites for Managing Member Transactions

# JournalType

Represents the category of transactions. For example: accrual, redemption. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Detailed description of the journal type. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the journal type. |
| `OwnerId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ProcessType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The process type associated with the journal type.<br>Possible value is:<br>• `Loyalty` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**JournalTypeChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**JournalTypeHistory**
History is available for tracked fields of the object.

**JournalTypeOwnerSharingRule**
Sharing rules are available for the object.

**JournalTypeShare**
Sharing is available for the object.

SEE ALSO:

*Salesforce Help*: Prerequisites for Managing Member Transactions

# LoyaltyAggrPointExprLedger

Represents information about non-qualifying currency points that expire based on a fixed model tier group. This object is available in API version 54.0 and later.

## Supported Calls

`create()`, `delete()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

LoyaltyAggrPointExprLedger isn't available in the Object Manager and can't be customized.

## Fields

| Field | Details |
|---|---|
| `ExpirationDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date on which the points are set to expire. |
| `ExpirationPoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The number of points that are set to expire on the expiration date. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program currency for which points are set to expire.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |

| Field | Details |
|---|---|
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program member whose points are set to expire.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `PointsStatus` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The status of the points that are set to expire.<br>Possible values are:<br>• `Active`<br>• `Inactive`<br>The default value is 'Active'. |
| `RedeemedPoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The number of points that have been redeemed by the associated loyalty program member out of the total points set to expire. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyAggrPointExprLedgerChangeEvent**
Change events are available for the object.

# LoyaltyLedger

Records the points that have been credited or debited for a member across the transactions. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`

## Fields

| Field | Details |
|---|---|
| `ActivityDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date on which the transaction was performed by the loyalty program member. |
| `AdditionalNotes` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The notes about the transactions performed by the loyalty program members. |
| `Correlation` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of any Salesforce or external record.<br>The field lets you store IDs that are up to 15 characters. If you store IDs that are fewer than 15 characters and use the field to query the object, add spaces after your query term to ensure that the query term is 15 characters. |
| `EscrowPointsCreditDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The date on which the escrow points are credited to the points balance for the loyalty ledger. This field is available in API version 53.0 and later. |
| `EventType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The type of the loyalty transaction.<br>Possible values are:<br>• `Credit`<br>• `Debit`<br>• `Expiry`<br>• `Transfer`<br>The default value is 'Credit'. |
| `ExpiryDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which the transaction expires. |
| `Flow` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The name of the flow. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyPgmCrcySubtypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Loyalty program currency subtype associated with the loyalty ledger. This field is available in API version 61.0 and later.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyPgmCrcySubtype<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyPgmCurrencySubtype |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty program currency.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty program member.<br>This is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Points` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The points available for the loyalty program member. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The promotion that's applied to the associated transaction resulting in the credit or debit of points. This field is available in API version 52.0 and later<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `TransactionJournalId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the transaction journal.<br>This is a relationship field.<br>**Relationship Name**<br>TransactionJournal<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>TransactionJournal |

# LoyaltyLedgerTraceability

Represents a tracker for the loyalty ledger. The debit ledger consumes points from the linked credit ledger for a member redemption or an accrual cancellation. This object is available in API version 62.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

LoyaltyAggrPointExprLedger isn't available in the Object Manager and can't be customized.

## Fields

| Field | Details |
| --- | --- |
| `ActionType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>Required. Specifies the action that creates an entry in the ledger.<br>Possible values are:<br>• `CreditCancellation`<br>• `CreditForArrears`<br>• `Debit`<br>• `DebitCancellation`<br>• `DebitWithArrears`<br>• `GroupTransfer`<br>The default value is `Debit`. |
| `CreditLoyaltyLedgerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Required. The credit type loyalty ledger associated with the loyalty ledger tracker. Points are consumed from the credit type ledger for the loyalty program member's debit type ledger.<br>This field is a relationship field.<br>**Relationship Name**<br>CreditLoyaltyLedger<br>**Refers To**<br>LoyaltyLedger |
| `DebitLoyaltyLedgerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The debit ledger associated with the loyalty ledger tracker. Points are consumed by the debit ledger from the loyalty program member's point balance.<br>This field is a relationship field.<br>**Relationship Name**<br>DebitLoyaltyLedger<br>**Refers To**<br>LoyaltyLedger |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyPgmCurrencySubtypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The ID of the loyalty program currency subtype associated with the related loyalty ledger.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyPgmCurrencySubtype<br>**Refers To**<br>LoyaltyPgmCurrencySubtype |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the loyalty program currency associated with the related loyalty ledger.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Refers To**<br>LoyaltyProgramCurrency |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the loyalty program member associated with the related loyalty ledger.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated number of the record. |
| `OwnerId` | **Type**<br>reference |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Refers To**<br>Group, User |
| `Points` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort<br>**Description**<br>Required. The number of points used from the credit ledger by the debit ledger. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyLedgerTraceabilityShare**
Sharing is available for the object.

# LoyaltyMemberCurrency

Represents the information about point balance for a member and a particular currency. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `BalanceBeforeReset` | **Type**<br>double |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The last balance of points before resetting the qualifying points of the member. |
| `EscrowPointsBalance` | **Type**<br>double<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The number of escrow points to be credited to the loyalty member's points balance. This field is available in API version 53.0 and later.<br>This is a calculated field. |
| `ExpirablePoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Calculates the points to be expired for unredeemed points. |
| `LastAccrualProcessedDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date when the last accrual was processed. This field indicates the date and time at which the Point Balance calculation process updated the total accrued points for a member and its currency the last time. |
| `LastEscrowProcessedDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The last date and time when the Roll Over Escrow Points to Members Data Processing Engine definition was run to calculate rollover of escrow points. This field is available in API version 53.0 and later. |
| `LastExpirationProcessRunDate` | **Type**<br>date |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The most recent date when the expired points for a member were calculated. |
| LastExpiredPtTraceabilityRunDt | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The latest date on which a process was run to trace points that have expired. This field is available in API version 65.0 and later. |
| LastPointsAggregationDate | **Type**<br>**Properties**<br>**Description**<br>The latest date on which a process was run to trace points that have expired. |
| LastReferencedDate | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| LastResetDate | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The most recent date when the qualifying points for members were reset. |
| LastViewedDate | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| LoyaltyMemberId | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the loyalty program member.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty program currency.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty member currency. |
| `NextResetDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The next date when the qualifying points for members are reset. |

| Field | Details |
| --- | --- |
| PointsBalBeforeSecondLastReset | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The points balance before the second to last points reset of the member's associated qualifying currency. This field is available in API version 55.0 and later. |
| PointsBalance | **Type**<br>double<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>Represents information about Point balance for a member and a particular currency. |
| RedemStlPendFromDateTime | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Date and time from when the member's redemption settlement is pending for the currency. This field is available in API version 61.0 and later. |
| TotalEscrowPointsAccrued | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The number of escrow points that the associated member has accrued. This field is available in API version 53.0 and later. |
| TotalEscrowRolloverPoints | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total number of escrow points that are credited to the points balance until the current date. This field is available in API version 53.0 and later. |
| TotalPointsAccrued | **Type**<br>double |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total points accrued by the member until today. |
| `TotalPointsExpired` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total points expired for a member until today. |
| `TotalPointsRedeemed` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total points redeemed by the member until today. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyMemberCurrencyChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyMemberCurrencyFeed (API version 52.0)**
Sharing rules are available for the object.

**LoyaltyMemberCurrencyHistory (API version 52.0)**
Sharing is available for the object.

# LoyaltyMembershipLifecycle

Represents information about a member's lifecycle in the loyalty program. This object is available in API version 57.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

# Fields

| Field | Details |
| --- | --- |
| `Comment` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The comments for the member's lifecycle event. |
| `EffectiveEndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date till when the member's lifecycle event is effective. |
| `EffectiveEndDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The start date and time of the lifecycle event. |
| `EffectiveStartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date from when the member's lifecycle event is effective. |
| `EffectiveStartDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The start date and time of the lifecycle event. |
| `ExternalIdentifier` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The external identifier of the member's lifecycle event. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyMemberTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the loyalty member tier associated with the loyalty membership lifecycle.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyMemberTier<br>**Refers To**<br>LoyaltyMemberTier |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program member whose lifecycle is tracked.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgramMember |
| `MembershipStatus` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Specifies the status of the member's lifecycle event. |
| `MembershipType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Specifies the type of lifecycle event of the member. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Name of the lifecycle event. |
| `OrderItemId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The order associated with the lifecycle event.<br>This field is a relationship field.<br>**Relationship Name**<br>OrderItem<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>OrderItem |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyMembershipLifecycleHistory**
History is available for tracked fields of the object.

# LoyaltyMemberTier

Represents information about the current tier of the member across tier groups. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `AreBenefitsAssigned` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether benefits are already assigned to a member tier. |
| `ChangeReasonType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Represents the information of the reason for changing a member tier.<br>Possible values are:<br>• `Based on Past Activities or Tier`<br>• `Resolve Tier Conflict`<br>• `VIP Member` |
| `EffectiveDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The date from which the tier is in effect. |
| `EnrollmentStartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which the member has enrolled in the associated tier. |
| `EffectiveTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time on which a member is assigned the associated tier. |
| `EnrollmentType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Specifies the type of enrollment for the loyalty member tier.<br>Possible values are:<br>• `Paid`<br>• `Segment`<br>• `Tier`<br>The default value is `Segment`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the loyalty program member.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `LoyaltyTierGroupId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty tier group.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyTierGroup<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyTierGroup |
| `LoyaltyTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty tier.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyTier |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyTier |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty member tier. |
| `ReasonForChange` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The reason to change a member tier. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Specifies the status of the loyalty member tier.<br>Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Trial`<br>The default value is `Active`. |
| `TierExpirationDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which the tier expires. |
| `TierExpirationTime` | **Type**<br>dateTime |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time on which the tier membership ends. |
| `TierMemberIdentifier` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Unique membership number of the member tier. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyMemberTierChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyMemberTierHistory (API version 62.0)**
Sharing is available for the object.

# LoyaltyPartnerProduct

Represents products and product categories offered by loyalty partners. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which a partner ends the offering of a product for accrual or redemption. |

| Field | Details |
| --- | --- |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the loyalty program partner.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyPartner<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgramPartner |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty partner product. |
| `PartnerCategoryDerivedFieldId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>A lookup field to show product category in Partner Product. |

| Field | Details |
| --- | --- |
| | This is a relationship field.<br>**Relationship Name**<br>PartnerCategoryDerivedField<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>ProductCategory |
| `PartnerProductCost` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The cost incurred by the partner when members redeem the product during the promotion. This field is available in API version 55.0 and later. |
| `ProductDerivedFieldId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>A lookup field to show product in Partner Product.<br>This is a relationship field.<br>**Relationship Name**<br>ProductDerivedField<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Product2 |
| `ProductId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. ID of the partner product.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Product<br>**Relationship Type**<br>Lookup |

| Field | Details |
|---|---|
| | **Refers To**<br>Product2, ProductCategory |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date on which a partner starts the offering of a product for accrual or redemption. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPartnerProductChangeEvent on page 237 (API Version 52.0)**
Change events are available for the object.

**LoyaltyPartnerProductHistory (API version 52.0)**
History is available for tracked fields of the object.

# LoyaltyPgmCurrencySubtype

Represents a subtype of a fixed-model non-qualifying loyalty program currency. This object is available in API version 61.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

This object is available only if the Loyalty Management - Advanced license is enabled in your org.

## Fields

| Field | Details |
|---|---|
| `CostPerUnit` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Monetary value of each unit of the loyalty program currency subtype. |
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Description of the loyalty program currency subtype. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Required. Indicates whether the loyalty program currency subtype is active (true) or not (false).<br>The default value is `false`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>Most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>Most recent date on which a user viewed this record. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The fixed-model non-qualifying loyalty program currency associated with the loyalty program currency subtype.<br>This field is a relationship field. |

| Field | Details |
|---|---|
| | **Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgramCurrency (the master object) |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>Required. The name of the loyalty program currency subtype. |
| `UsagePriorityNumber` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>Required. The usage priority number of the loyalty program currency subtype. The usage priority number decides the order in which the points are redeemed across currency subtypes when multiple currency subtypes expire on the same date. |

# LoyaltyPgmEngmtAttribute

Represents information about an engagement attribute for a loyalty program. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `DefaultValue` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The default value for the loyalty program engagement attribute. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description for the loyalty program engagement attribute. |
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date when the loyalty program engagement attribute ends. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program that's related to the loyalty program engagement attribute.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgram |
| `MaximumResetCountPerPeriod` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of times the current value of an engagement attribute can be reset during a period. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty program engagement attribute. |
| `ResetValueOn` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The day on which loyalty program members' current value for the engagement attribute must be reset.<br>If the reset frequency is Weekly, specify the day of the week when the current value is reset. To reset the current value on a Sunday, enter 1. To reset the current value on a Saturday, enter 7. If the reset frequency is Monthly, enter a value between 1 and 31. To reset the current value on the fifteenth of every month, enter 15. If the reset frequency is Yearly, enter a value between 1 and 12. To reset the current value on the first day of April month, enter 4. If the reset frequency is custom, enter the number of days after which the current value is reset. |
| `ShouldOverwriteAttrCurrVal` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the associated member's current value is overwritten every period (`true`) or not (`false`).<br>The default value is '`false`'. |

| Field | Details |
| --- | --- |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date when the loyalty program engagement attribute ends. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The status of the loyalty program engagement attribute.<br>Possible values are:<br>• `Active`<br>• `Draft`<br>• `Inactive`<br>The default value is '`Draft`'. |
| `TargetValue` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The value that the loyalty program member must reach to qualify for rewards of the engagement attribute. |
| `ValueResetFrequency` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The frequency at which the loyalty program member's engagement attribute value is reset.<br>Possible values are:<br>• `CustomPeriod`—Custom Period<br>• `Daily`<br>• `Monthly`<br>• `Weekly`<br>• `Yearly` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmEngmtAttributeChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyPgmEngmtAttributeHistory**
History is available for tracked fields of the object.

# LoyaltyPgmEngmtAttrProm

Represents a junction between Loyalty Program Engagement Attribute and Promotion. Associate an engagement attribute with a promotion if you want to track the engagement attribute during the promotion period. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramEngmtAttrId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program engagement attribute associated with the promotion. |

| Field | Details |
|---|---|
| | This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramEngmtAttr<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyPgmEngmtAttribute |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the loyalty program engagement attribute promotion. The name is autopopulated. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The promotion associated with the loyalty program engagement attribute.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>Promotion |

# Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmEngmtAttrPromChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyPgmEngmtAttrPromHistory**
History is available for tracked fields of the object.

# LoyaltyPgmGroupMbrRlnsp

Represents a junction between a Corporate or Individual type loyalty program member who is part of a group and the Group type loyalty program member. This object is available in API version 53.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the account with which the loyalty program member is associated.<br>This field is a relationship field.<br>**Relationship Name**<br>Account<br>**Refers To**<br>Account |
| `CanMemberRedeemFromGroup` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Required. Indicates whether the member can redeem points from a group. This field isn't used. You can customize and use this field based on your org's requirements.<br>The default value is 'false'. |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the contact with which the loyalty program member is associated.<br>This field is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>Contact<br>**Refers To**<br>Contact |
| ContributionCalculationType | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the basis on which the member's point contribution to a group is calculated.<br>Possible values are:<br>• Percentage |
| LastReferencedDate | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| LastViewedDate | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| LoyaltyProgramGroupMemberId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the Group type loyalty program member that the related Individual or Corporate type loyalty program member is a part of.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramGroupMember<br>**Relationship Type**<br>Master-detail |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgramMember |
| `MemberName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the related loyalty program member record. For an Individual type loyalty program member, it's the first name and the last name of the contact record associated with loyalty program member record. For a Corporate type loyalty program member, it's the name of the account record associated with the loyalty program member record. This field is read-only. |
| `MemberPointContributionPercent` | **Type**<br>percent<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The percentage of a group member's total accrued points that’s transferred to the group. |
| `MemberRole` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Specifies the role of the loyalty program member in a group. You can add values to the picklist. This field isn't used. You can customize and use this field based on your org's requirements.<br>Possible values are:<br>• `Primary`<br>• `Secondary` |
| `Name` | **Type**<br>string<br>**Properties**<br>Filter, Group, idLookup, Sort<br>**Description**<br>The name of the loyalty program member group relationship record. |
| `RelatedLoyaltyProgramMemberId` | **Type**<br>reference |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The related Individual or Corporate type loyalty program member associated with the loyalty program group member relationship.<br>This is a relationship field.<br>**Relationship Name**<br>RelatedLoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmGroupMbrRlnspChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyPgmGroupMbrRlnspHistory**
History is available for tracked fields of the object.

# LoyaltyPgmMbrAttributeVal

Represents information about the value reached by a loyalty program member for an engagement attribute. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`

## Fields

| Field | Details |
|---|---|
| `CumulativeValue` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The cumulative value achieved by a loyalty program member for the related loyalty program engagement attribute across all the periods. |
| `CurrentValue` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The value achieved by a loyalty program member for the related loyalty program member engagement attribute in during a specific period. |
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The end date of the period for which the member's progress towards achieving the related engagement attribute target is tracked. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastResetDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The date on which the related loyalty program member's current value was last reset. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |

| Field | Details |
| --- | --- |
| LoyaltyPgmEngmtAttributeId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The loyalty program engagement attribute that's related to the loyalty program member engagement attribute value.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyPgmEngmtAttribute<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyPgmEngmtAttribute |
| LoyaltyProgramMemberId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program member that's related to the loyalty program member engagement attribute value.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgramMember |
| Name | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the loyalty program engagements attribute related to the loyalty program member engagement attribute value. |
| ResetCount | **Type**<br>int |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The number of times the current value of the engagement attribute is reset. |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The start date of the period for which the member's progress towards achieving the related engagement attribute target is tracked. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmMbrAttributeValChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

# LoyaltyPgmMbrPromEligView

Represents a virtual object that provides a consolidated view of the loyalty program member's eligibility for a promotion and their enrollment status in eligible promotions. This object is available in API version 56.0 and later.

## Supported Calls

`create()`, `describeSObjects()`, `query()`

LoyaltyPgmMbrPromEligView isn't available in the Object Manager and can't be customized.

## Fields

| Field | Details |
|---|---|
| `CurrPromotionLiabilityAmt` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>The current liability amount of the related promotion. |

| Field | Details |
| --- | --- |
| `CurrencyIsoCode` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>The currency ISO code of the promotion. This field is only available in orgs where multiple currencies are enabled.<br>Possible values are:<br>• `USD`—U.S. Dollar<br>The default value is `USD`. |
| `CurrentPromotionPointsCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The liability amount incurred for the related promotion till date. |
| `DefaultVoucherDefinitionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The voucher definition that's used as the default in the related promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>DefaultVoucherDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>VoucherDefinition |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>The description of the LoyaltyPgmMbrPromEligView record. |
| `DoesPromHavePtWithFctr` | **Type**<br>boolean |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the related promotion has a point with factor.<br>The default value is `false`. |
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The end date of the related promotion. |
| `EndDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>End date and time of the promotion. |
| `ExternalId` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>A combination of the related loyalty program member ID and the related promotion ID. |
| `FulfillmentAction` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Specifies the fulfillment action of the related promotion.<br>Possible values are:<br>• `CreditPoints`<br>• `IssueVoucher` |
| `IsMbrEligBsdCmpnOrSgmt` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>Indicates if the member who is eligible for a promotion is part of a campaign or segment.<br>The default value is `false`. |
| `IsPromotionEnrollmentRqr` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the related promotion requires member enrollment.<br>The default value is `false`. |
| `IssuedPromotionVoucherCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The number of vouchers issued for the related promotion. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty program currency that's used to credit points for the related promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty program that's associated with the related promotion.<br>This field is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty program member associated with the related promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `LoyaltyPromotionType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Specifies the type of the related promotion.<br>Possible values are:<br>• `Cumulative`<br>• `Joint`<br>• `Standard` |
| `MaxPromotionLiabilityAmount` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>The maximum liability amount that the related promotion can incur. |
| `MaxPromotionVoucherCount` | **Type**<br>int |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The maximum vouchers that can be issued for the related promotion. |
| `MaximumPromotionRewardValue` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The maximum reward value of the related promotion. |
| `MemberEligibilityCategory` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Specifies whether the loyalty program member is eligible for the promotion.<br>Possible values are:<br>• `Eligible`<br>• `EligibleButNotEnrolled`<br>• `Ineligible` |
| `Objective` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>The objective of the related promotion. |
| `PromEnrollmentStartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The date when the enrollment in the related promotion starts. |
| `PromotionCumulativeUsageTgt` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The cumulative usage target of the related promotion. |
| PromotionEnrollmentEndDate | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The date when the enrollment in the related promotion ends. |
| PromotionId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The promotion related to the promotion related to the LoyaltyPgmMbrPromEligView record.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| PromotionImageUrl | **Type**<br>url<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The URL of the promotion's image location. This field is available in API version 58.0 and later. |
| PromotionName | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The name of the related promotion. |
| PromotionPointFactor | **Type**<br>double |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>The points factor of the related promotion. |
| `PromotionTrxnJournalType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The transaction journal type that's associated with the related promotion.<br>Possible values are:<br>• `Accrual`<br>• `Redemption` |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The start date of the related promotion. |
| `StartDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort<br>**Description**<br>The start date and time of the promotion. |
| `TotalPromotionRewardPointsVal` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The total points credited to the loyalty program member for the related promotion. |

# LoyaltyPgmPartnerCurrency

Represents a junction between a loyalty program partner and a loyalty program currency. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `AccrualConversionFactor` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The factor by which points earned by a loyalty program member for an accrual-type transaction are converted to determine the number of points to be debited from the associated loyalty program partner's points balance or balance amount. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The loyalty program currency associated with the loyalty program partner currency record.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgramCurrency |
| `LoyaltyProgramPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program partner associated with the loyalty program partner currency record.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramPartner<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgramPartner |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the loyalty program partner currency. |
| `RedemptionConversionFactor` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The factor by which points redeemed by a loyalty program member for a redemption-type transaction are converted to determine the number of points or amount to be credited to the associated loyalty program partner's points balance or balance amount. |

# Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmPartnerCurrencyHistory**
History is available for tracked fields of the object.

# LoyaltyPgmPartnerPromotion

Represents a junction between the Promotion and Loyalty Program Partner objects. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `ContributionPercentage` | **Type**<br>percent<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The percentage of contribution given by a partner to the promotion. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty program partner associated with the loyalty program partner prepaid pack or postpaid balance amount.<br>This is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>LoyaltyProgramPartner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramPartner |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the loyalty program partner promotion. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The joint promotion in which the loyalty program partner is a part of.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>Promotion |

# Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmPartnerPromotionChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyPgmPartnerPromotionHistory**
History is available for tracked fields of the object.

# LoyaltyPgmPtnrLdgrSummary

Represents the aggregated ledger used by a loyalty program to credit points to or debit points from a prepaid partner's points pack. This ledger can also be used to add or deduct the monetary value of points from the postpaid partner's bill. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `ActivityDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date on which points that are part of the associated loyalty program partner prepaid pack are debited or credited. For postpaid billing, it is the date when the postpaid amount of the loyalty program partner is debited or credited. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyPgmPtnrPrepaidPackId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The loyalty program partner prepaid pack associated with the loyalty program partner ledger. |

| Field | Details |
| --- | --- |
| | This is a relationship field.<br>**Relationship Name**<br>LoyaltyPgmPtnrPrepaidPack<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyPgmPtnrPrepaidPack |
| `LoyaltyProgramPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program partner associated with the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramPartner<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgramPartner |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the loyalty program partner ledger summary. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the status of the loyalty program partner ledger.<br>Possible values are:<br>• `Pending`<br>Partner doesn't have the adequate balance and hence the ledger is pending to be processed.<br>• `Processed` |

| Field | Details |
|---|---|
| | Partner's ledger is processed.<br>The default value is `Pending`. |
| `TotalPoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The number of points debited from or credited to the associated loyalty program partner's prepaid pack or postpaid bill amount. |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the type of the loyalty program partner ledger.<br>Possible values are:<br>• `Credit`<br>• `CreditCancellation`—Credit Cancellation<br>• `Debit`<br>• `DebitCancellation`—Debit Cancellation<br>The default value is `Credit`. |

# LoyaltyPgmPtnrPrepaidPack

Represents information about a prepaid set of points purchased by a loyalty program partner. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `EndDate` | **Type**<br>date |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date until when the loyalty program partner prepaid pack is effective. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program partner associated with the loyalty program partner prepaid pack.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramPartner<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgramPartner |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the prepaid points pack. |

| Field | Details |
| --- | --- |
| `OrderId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The order associated with the loyalty program partner prepaid pack.<br>This is a relationship field.<br>**Relationship Name**<br>Order<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Order |
| `PurchaseDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The date when the prepaid pack was purchased by the loyalty program partner. |
| `PurchasedPoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort<br>**Description**<br>Required. The number of points credited to the associated loyalty program partner when a prepaid pack of points is purchased. |
| `RemainingPoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The number of points remaining in the loyalty program partner's prepaid pack. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyPgmPtnrPrepaidPackHistory**
History is available for tracked fields of the object.

# LoyaltyProgram

Represents the loyalty program within an organization. All the information related to members, tiers, tier groups, program currencies, vouchers, benefits, partners, promotions, transactions are associated with the program. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Description of the loyalty program. |
| `EscrowPeriod` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of days after which the escrow points are credited to the existing points balance. This field is available in API version 53.0 and later. |
| `IsPrimary` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether a loyalty program is the primary program.<br>The default value is 'false'. This field is available in API version 52.0 and later. |
| `LastReferencedDate` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>Required. The name of the loyalty program. The name must contain at least one alphanumeric character and can't contain special characters such as % and +. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>ID of the owner of this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The status of the loyalty program.<br>Possible values are: |

| Field | Details |
| --- | --- |
| | • `Active`<br>• `Inactive` |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Specifies the type of loyalty program.<br>Possible values are:<br>• `LOYALTY_PROGRAM`<br>• `REFERRAL_PROGRAM`<br>The default value is `LOYALTY_PROGRAM`. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyProgramFeed**
Feed tracking is available for the object.

**LoyaltyProgramHistory**
History is available for tracked fields of the object.

**LoyaltyProgramOwnerSharingRule**
Sharing rules are available for the object.

**LoyaltyProgramShare**
Sharing is available for the object.

# LoyaltyProgramBadge

Represents information about the badge that's associated with a loyalty program. This object is available in API version 56.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

# Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description of the loyalty program badge. |
| `ImageUrl` | **Type**<br>url<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The URL of the image location for the loyalty program badge. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program that's associated with the badge.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Master-detail |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgram |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty program badge. |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date from when the loyalty program badge can be assigned to members. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the status of the loyalty program badge.<br>Possible values are:<br>• `Active`<br>• `Draft`<br>• `Inactive` |
| `ValidityDuration` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Specifies the unit of measure for the validity period. |
| `ValidityDurationUnit` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The number of days or months in the validity period. |

| Field | Details |
| --- | --- |
| | Possible values are:<br>• `Days`<br>• `Months` |
| `ValidityEndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date after which the badge is no longer assigned to members. Select a value for this field if the badge's validity type is `FixedDate`. |
| `ValidityType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the model used to determine the deration for which the badge is valid for a member.<br>Possible values are:<br>• `FixedDate`—Fixed Date<br>• `Period` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramBadgeChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyProgramBadgeHistory**
History is available for tracked fields of the object.

# LoyaltyProgramCurrency

Represents qualifying and non-qualifying currencies associated with the program. Qualifying currency represents the engagement of a member with the program and it's associated with a tier group. Non-qualifying currency represent the points that the member earns for redemption. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `CostperUnit` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The cost for each currency associated with a loyalty program. |
| `CurrencyType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>Required. Type of the loyalty program currency.<br>Possible values are:<br>• `NonQualifying`<br>• `Qualifying` |
| `DoesAllowLedgerTracing` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether points credited by accrual transactions and debited by redemption transactions for a fixed-model non-qualifying currency is traced (true) or not (false). This field is available in API version 61.0 and later.<br>The default value is `false`. |
| `DoesAllowNegativeBalance` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether a non-qualifying currency allows members to hold a negative point balance. This field is available in API version 61.0 and later. |

| Field | Details |
| --- | --- |
| | The default value is `false`. |
| `ExpiryModel` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The model evaluates the type of expiration of points based on the fixed date or customer's activity.<br>Possible values are:<br>• `Activity`<br>• `Fixed` |
| `ExpiryPeriodFrequency` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The frequency type to evaluate the expiration of currency. |
| `ExpiryPeriodUnit` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Unit of the period in which currency expiration is done.<br>Possible values are:<br>• `Days`<br>• `Months`<br>• `Years` |
| `ExtendExpiration` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The field decides if the expiration date is changed on the exact day or the last day of the month.<br>Possible values are:<br>• `None` |

| Field | Details |
| --- | --- |
| | • `TillEndOfMonth` |
| `HasEscrow` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether points can be escrowed for the loyalty program currency. This field is available in API version 53.0 and later.<br>The default value is `false`. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Required. Indicates whether the loyalty program currency is active. |
| `IsPrimary` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the loyalty program currency is primary. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgram |
| `LoyaltyTierGroupId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the loyalty tier group.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyTierGroup<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyTierGroup |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty program currency. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramCurrencyChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

# LoyaltyProgramCurrencyTier

Repesents a junction between non-qualifying loyalty program currency and loyalty tier. This object is available in API version 61.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

This object is available only if the Loyalty Management - Growth or the Loyalty Management - Advanced license is enabled in your org.

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>Most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>Most recent date on which a user viewed this record. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Non-qualifying loyalty program currency associated with the loyalty tier.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Master-detail |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgramCurrency (the master object) |
| `LoyaltyTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Loyalty tier associated with the loyalty program currency.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyTier<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyTier |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Autogenerated number of the loyalty program currency tier. |
| `NegativePointsBalanceLimit` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Maximum negative point balance that members of the loyaty tier can hold for the associated loyalty program currency. |

# LoyaltyProgramMbrPromotion

Represents details about the promotions to be applied for a loyalty program member. Tracks the enrollment status, promotion status, and progress for a promotion of a member. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `CumulativeUsageCompletePercent` | **Type**<br>percent<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The percentage of the promotion completed by the member. |
| `CumulativeUsageCompleted` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The amount of the frequency type promotion completed by the member. |
| `CumulativeUsageTarget` | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The target of the frequency type promotion that must be achieved by the member to complete the promotion. |
| `IsAutoEnrolled` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the loyalty program member is automatically enrolled in the promotion.<br>The default value is `false`. |
| `IsEnrollmentActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Indicates whether the enrollment for the promotion is active. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program member associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Unique identifier for the loyalty program member promotion. |
| `PromotionId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the loyalty program member promotion.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramMbrPromotionChangeEvent**
Change events are available for the object.

**LoyaltyProgramMbrPromotionHistory**
History is available for tracked fields of the object.

# LoyaltyProgramMember

Represents information about member who belongs to a loyalty program. The member can be individual or corporate type. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>ID of the account with which the loyalty program member is associated. This field is optional for a Group type member.<br>This is a relationship field.<br>**Relationship Name**<br>Account<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account |
| `CanReceivePartnerPromotions` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the member can receive partner promotions for the program (true) or not (false). |
| `CanReceivePromotions` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the member can receive promotions for the program (`true`) or not (`false`). |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the contact with which the loyalty program member is associated. This field is optional for a Group type member.<br>This is a relationship field.<br>**Relationship Name**<br>Contact<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Contact |

| Field | Details |
| --- | --- |
| `EnrollmentChannel` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Channel through which membership is enrolled.<br>Possible values are:<br>• `CallCenter`<br>• `Email`<br>• `Franchise`<br>• `Mobile`<br>• `Partner`<br>• `POS`<br>• `Print`<br>• `Social`<br>• `Store`<br>• `Web` |
| `EnrollmentDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Date when the member enrolled to the loyalty program. |
| `GroupCreatedByMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The Individual or Corporate type loyalty program member who created the group or requested for the group to be created. This field is available in API version 53.0 and later.<br>This is a relationship field.<br>**Relationship Name**<br>GroupCreatedByMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |

| Field | Details |
| --- | --- |
| `GroupName` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The name of the group when the type of membership in the loyalty program is Group. This field is available in API version 53.0 and later. |
| `IsEligibleForTierAssessment` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the member is eligible for tier assessment. A member is eligible for tier assessment when there is a change in their qualifying points balance. This field is available in API version 58.0 and later.<br>The default value is `false`. |
| `LastActivityDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date when the loyalty program member last performed a transaction. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `MemberStatus` | **Type**<br>picklist |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The status of the member in the loyalty program.<br>Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Merged`—This value is available in API version 56.0 and later. |
| `MemberType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>Required. The type of membership in the loyalty program.<br>Possible values are:<br>• `Corporate`<br>• `Group`<br>• `Individual` |
| `MembershipEndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which the membership ends. |
| `MembershipLastRenewalDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The most recent date when the membership was renewed. |
| `MembershipNumber` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The membership number of the loyalty program. |

| Field | Details |
| --- | --- |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>Program<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `ReferralCode` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Nillable, Sort, Update<br>**Description**<br>The code that the member can share with others who want to join the loyalty program. If no referral code is entered during enrollment, an automatic referral code is generated for the member. This field is available in API version 57.0 and later. |
| `ReferredById` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Reference to Member who referred to the program.<br>This is a relationship field.<br>**Relationship Name**<br>ReferredBy<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `RelatedCorporateMembershipId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The related corporate membership ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>RelatedCorporateMembership<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `StatementFrequency` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The frequency of loyalty balance statements.<br>Possible values are:<br>• `Monthly`<br>• `Quarterly` |
| `StatementLastGeneratedDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date on which the statement is last generated. |

| Field | Details |
|---|---|
| `StatementMethod` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The mode of loyalty balance statements.<br>Possible values are:<br>• `Email`<br>• `Mail` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramMemberChangeEvent**
Change events are available for the object.

**LoyaltyProgramMemberHistory**
History is available for tracked fields of the object.

**LoyaltyProgramMemberOwnerSharingRule**
Sharing rules are available for the object.

**LoyaltyProgramMemberShare**
Sharing is available for the object.

# LoyaltyProgramMemberBadge

Represents a badge that's assigned to a loyalty program member. This object is available in API version 56.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The date until when the loyalty program badge is assigned to the related loyalty program member. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramBadgeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The loyalty program badge that's associated with the loyalty program member.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramBadge<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramBadge |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program member that's associated with the badge.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique identifier of loyalty program member badge. |
| `Reason` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The reason why the member badge was assigned. |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date from when the loyalty program badge is assigned to the related loyalty program member. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Specifies the status of the member badge.<br>Possible values are:<br>• `Active`<br>• `Expired` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramMemberBadgeChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyProgramMemberBadgeHistory**
History is available for tracked fields of the object.

# LoyaltyProgramMemberCase

Represents a junction between a loyalty program member and a case. This object is available in API version 52.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `CaseId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The Case record associated with the loyalty program member case.<br>This is a relationship field. This field is unique within your organization.<br>**Relationship Name**<br>Case<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Case |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program member associated with the loyalty program member case.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the loyalty program member case. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The owner of the loyalty program member case.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramMemberCaseChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyProgramMemberCaseHistory**
History is available for tracked fields of the object.

**LoyaltyProgramMemberCaseOwnerSharingRule**
Sharing rules are available for the object.

**LoyaltyProgramMemberCaseShare**
Sharing is available for the object.

# LoyaltyProgramMemberMerge

Represents information about merged loyalty program memberships. This object is available in API version 56.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string |

| Field | Details |
| --- | --- |
| | **Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique identifier of LoyaltyProgramMemberMerge records. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>ID of the owner of this record.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `Reason` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The reason for merging the memberships. |
| `SourceMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program member whose membership is merged with the target loyalty program member.<br>This field is a relationship field.<br>**Relationship Name**<br>SourceMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |

| Field | Details |
| --- | --- |
| SrcMbrDataBody | **Type**<br>base64<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>The details of the source loyalty program member, such as transaction journals, ledgers, vouchers, tiers, and currencies. |
| SrcMbrDataContentType | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Specifies the format in which the source member data is stored.<br>Possible values are:<br>• application/html<br>• application/java-archive<br>• application/javascript<br>• application/json<br>• application/msword<br>• application/octet-stream<br>• application/octet-stream;type=unknown<br>• application/opx<br>• application/pdf<br>• application/postscript<br>• application/rtf<br>• application/vnd.box.notes<br>• application/vnd.google-apps.document<br>• application/vnd.google-apps.drawing<br>• application/vnd.google-apps.form<br>• application/vnd.google-apps.presentation<br>• application/vnd.google-apps.script<br>• application/vnd.google-apps.spreadsheet<br>• application/vnd.ms-excel<br>• application/vnd.ms-excel.sheet.macroEnabled.12<br>• application/vnd.ms-infopath<br>• application/vnd.ms-powerpoint<br>• application/vnd.ms-powerpoint.presentation.macroEnabled.12<br>• application/vnd.ms-word.document.macroEnabled.12 |

| Field | Details |
| --- | --- |
| | • application/vnd.oasis.opendocument.presentation<br>• application/vnd.oasis.opendocument.spreadsheet<br>• application/vnd.oasis.opendocument.text<br>• application/vnd.openxmlformats-officedocument.presentationml.presentation<br>• application/vnd.openxmlformats-officedocument.presentationml.slideshow<br>• application/vnd.openxmlformats-officedocument.presentationml.template<br>• application/vnd.openxmlformats-officedocument.spreadsheetml.sheet<br>• application/vnd.openxmlformats-officedocument.spreadsheetml.template<br>• application/vnd.openxmlformats-officedocument.wordprocessingml.document<br>• application/vnd.openxmlformats-officedocument.wordprocessingml.template<br>• application/vnd.visio<br>• application/x-gzip<br>• application/x-java-source<br>• application/x-javascript<br>• application/x-shockwave-flash<br>• application/x-sql<br>• application/x-zip-compressed<br>• application/xhtml+xml<br>• application/xml<br>• application/zip<br>• audio/mp4<br>• audio/mpeg<br>• audio/ogg<br>• audio/x-aac<br>• audio/x-ms-wma<br>• audio/x-ms-wmv<br>• audio/x-wav<br>• image/bmp<br>• image/gif<br>• image/jpeg<br>• image/jpeg;type=mobile<br>• image/png<br>• image/svg+xml<br>• image/tiff<br>• image/vnd.adobe.photoshop<br>• image/vnd.dwg<br>• image/x-photoshop<br>• message/rfc822 |

| Field | Details |
| --- | --- |
| | • model/vnd.usdz+zip<br>• text/css<br>• text/csv<br>• text/html<br>• text/plain<br>• text/rtf<br>• text/snote<br>• text/stypi<br>• text/vnd.salesforce.quip-chat<br>• text/vnd.salesforce.quip-doc<br>• text/vnd.salesforce.quip-sheet<br>• text/vnd.salesforce.quip-slides<br>• text/vnd.salesforce.quip-template<br>• text/vtt<br>• text/webviewhtml<br>• text/x-c<br>• text/x-c++<br>• text/xml<br>• video/mp4<br>• video/mpeg<br>• video/ogg<br>• video/quicktime<br>• video/x-m4v<br>• video/x-ms-asf<br>• video/x-msvideo |
| SrcMbrDataLength | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The number of characters in the SrcMbrDataBody field. |
| SrcMbrDataName | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The unique identifier of the data stored in the SrcMbrDataBody field. |

| Field | Details |
| --- | --- |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the status of merge.<br>Possible values are:<br>• `Merged`<br>• `Unmerged` |
| `TargetMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program member that the source membership was merged into.<br>This field is a relationship field.<br>**Relationship Name**<br>TargetMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramMemberMergeShare**
Sharing is available for the object.

# LoyaltyProgramPartner

Represents partners that are associated with a given loyalty program. Partners can be an accrual partner, a redemption partner, or both. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `AccrualCostperUnit` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The cost per point associated with the transactions of accrual partner. This field is available in API version 52.0 and later. |
| `AlertValue` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The value that's used to send an alert to a partner to indicate the minimum points required when the billing type is prepaid or the maximum outstanding amount when the billing type is postpaid. This field is available in API version 55.0 and later. |
| `BillingType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Specifies the method in which the loyalty program partner is billed.<br>Possible values are:<br>• `Prepaid`<br>• `Postpaid`<br>This field is available in API version 55.0 and later. |
| `CreditedPoints` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The number of points credited to partners (using prepaid billing) for member redemptions, accrual cancellations, or any custom processes. This field is available in API version 55.0 and later. |
| `DebitedPoints` | **Type**<br>double |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total number of points debited from the partner (using prepaid billing) for member accruals, redemption cancellations, or any custom processes. This field is available in API version 55.0 and later. |
| `LastProcessedDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The last date and time when the prepaid points balance or the outstanding postpaid bill amount for a partner was calculated. This field is available in API version 55.0 and later. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Account ID of the loyalty program partner.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyPartner<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>Account |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty program partner. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `PartnerCategory` | **Type**<br>picklist |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The category of the program partnership.<br>Possible values are:<br>• `Alliance`<br>• `Bilateral` |
| `PartnerIndustry` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The industry type of the program partner. Picklist values aren't provided for this field and must be added based on the requirements of the organization. |
| `PartnerStatus` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The status of the partner in the loyalty program. The default value is `Active`.<br>Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Pending` |
| `PartnerType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The type of the program partnership.<br>Possible values are:<br>• `Accrual`<br>• `Both`<br>• `Redemption` |
| `PartnershipEndDate` | **Type**<br>date |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which the partnership with the program ends. |
| PartnershipStartDate | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date on which the partnership with the program starts. |
| PointsBalance | **Type**<br>double<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The number of points available with the loyalty program partner using prepaid billing. This field is available in API version 55.0 and later.<br>This is a calculated field. |
| PostpaidBillAmount | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total amount of all credits minus debits for partner transactions from the partnership start date. A positive value indicates that the partner is liable to the program. A negative value indicates the program is liable to the partner. The total amount that either the partner is liable to pay to the program or the program is liable to pay to the partner. This field is available in API version 55.0 and later. |
| PurchasedPoints | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total number of points that the partner (using prepaid billing) has purchased across all their packs. This field is available in API version 55.0 and later. |
| RedemptionCostperUnit | **Type**<br>currency |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The cost per point associated with the transactions of redemption partner. This field is available in API version 52.0 and later. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramPartnerChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyProgramPartnerHistory (API version 52.0)**
History is available for tracked fields of the object.

**LoyaltyProgramPartnerOwnerSharingRule**
Sharing rules are available for the object.

**LoyaltyProgramPartnerShare (API version 52.0)**
Sharing is available for the object.

# LoyaltyProgramPartnerLedger

Represents the ledger used by a loyalty program to credit points to or debit points from a prepaid partner's points pack or from a postpaid partner's point balance. This ledger can also be used to add or deduct the monetary value of points from the partner's postpaid bill. This object is available in API version 55.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `ActivityDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The date on which the loyalty program member transacts with the loyalty program partner. |

| Field | Details |
| --- | --- |
| `LoyaltyLedgerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Specifies the type of the loyalty program partner ledger.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyLedger<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyLedger |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program member that's related to the loyalty program partner ledger.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `LoyaltyProgramPartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty program partner that's related to the loyalty program partner ledger.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramPartner<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgramPartner |
| `Points` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The number of points credited to or debited from the loyalty program partner's points balance or postpaid account balance. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The promotion that's related to the loyalty program partner ledger.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `TransactionJournalId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The transaction journal that's related to the loyalty program partner ledger.<br>This is a relationship field.<br>**Relationship Name**<br>TransactionJournal<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>TransactionJournal |
| `Type` | **Type**<br>picklist |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. Specifies the type of the loyalty program partner ledger.<br>Possible values are:<br>• `Credit`<br>• `CreditCancellation`—Credit Cancellation<br>• `Debit`<br>• `DebitCancellation`—Debit Cancellation<br>The default value is `Credit`. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramPartnerLedgerChangeEvent**
Change events are available for the object.

# LoyaltyProgramProcess

Represents information about loyalty program processes that determine how transaction journals are processed. This object is available in API version 54.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The description of the loyalty program process. |

| Field | Details |
| --- | --- |
| `ExecutionType` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>Specifies the method used for executing the loyalty program process. Determines how transaction journals are processed. If you select Real Time, incoming transactions are processed as soon as they're created. If you select Batch, then Run Program Process for Transaction Journal action in Flows is used to schedule when pending transaction journals are processed.<br>Possible values are:<br>• `Batch`<br>• `BatchAndRealTime`—Both<br>• `RealTime`<br>The default value is `RealTime`. |
| `JournalSubTypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the journal subtype record associated with the loyalty program process record.<br>This is a relationship field.<br>**Relationship Name**<br>JournalSubType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>JournalSubType |
| `JournalTypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the journal type record associated with the loyalty program process record.<br>This is a relationship field.<br>**Relationship Name**<br>JournalType<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>JournalType |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The loyalty program associated with the loyalty program process record.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `LoyaltyTierGroup` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The tier group of a program that's associated with the loyalty program process.<br>This field is available in API version 56.0 and later.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>Required. The name of the loyalty program process. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ProcessType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>Required. Specifies the type of loyalty program process.<br>Possible values are:<br>• `CancelVoucher`—This value is available in API version 56.0 and later.<br>• `CreditPointsToMembers`—This value is available in API version 56.0 and later.<br>• `DebitPointsFromMembers`—This value is available in API version 56.0 and later.<br>• `EnrollInPromotion`—This value is available in API version 56.0 and later.<br>• `GetMemberPromotions`—This value is available in API version 56.0 and later.<br>• `IssueVoucher`—This value is available in API version 56.0 and later.<br>• `OptOutPromotion`—This value is available in API version 58.0 and later. |

| Field | Details |
| --- | --- |
| | • `TierProcessing`—This value is available in API version 56.0 and later.<br>• `TransactionJournal`<br>• `UnenrollMember`—This value is available in API version 56.0 and later.<br>• `UpdateMemberDetails`—This value is available in API version 56.0 and later. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Specifies the status of the loyalty program process.<br>Possible values are:<br>• `Active`<br>• `Draft`<br>• `Inactive`<br>The default value is `Draft`. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramProcessHistory**
History is available for tracked fields of the object.

**LoyaltyProgramProcessOwnerSharingRule**
Sharing rules are available for the object.

**LoyaltyProgramProcessShare**
Sharing is available for the object.

# LoyaltyProgramWidget

Represents the configuration of a widget that a user can apply to the out-of-the-box widget templates and FlexCards provided by Omnistudio. The configuration helps implement custom UI changes, such as promotion type, promotion tag line, and so on for a user. This object is available in API version 57.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `CustomizedContent` | **Type**<br>textarea<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>The detail about the customization that's applied to a widget.<br>For example, promotion_title: Great Times |
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description of the widget. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the widget. |
| `OwnerId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The owner of the widget.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The identifier of the loyalty program that's associated with the widget.<br>This field is a relationship field.<br>**Relationship Name**<br>Program<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the promotion that the widget is associated with.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |

| Field | Details |
| --- | --- |
| PromotionStageId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the promotion stage that the widget is associated with.<br>This field is a relationship field.<br>**Relationship Name**<br>PromotionStage<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>PromotionStage |
| TemplateName | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The name of the widget template. |
| TemplateVersion | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Required. The version of the widget template. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyProgramWidgetShare**
Sharing is available for the object.

# LoyaltyTier

Represents information about tiers of a loyalty program. A tier group has a set of tiers in a sequential order. This object is available in API version 51.0 and later.

You can set up Loyalty Tiers to group the members based on their qualifying points. Qualifying points are awarded to members based on their activities in a loyalty program. The hierarchies are created in the tiers using the sequence number. The qualifying points are used to assess a member's tier for upgrade or downgrade.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Color` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The color that represents the tier. This field is available in API version 62.0 and later. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Detailed description of the tier. |
| `EligibleEnrollmentType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The type of enrollment for which a member is eligible.<br>Possible values are:<br>• `Free`<br>• `Paid`<br>• `SegmentBased`<br>• `TierBased`<br>• `Trial` |
| `LastReferencedDate` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the loyalty program associated with the loyalty tier. This field is available in API version 64.0 and later.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Refers To**<br>LoyaltyProgram |
| `LoyaltyTierGroupId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the loyalty tier group.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyTierGroup<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyTierGroup |
| `MaximumEligibleBalance` | **Type**<br>double |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The maximum balance that's required for loyalty program members to be eligible for the tier. This field is available in API version 58.0 and later. |
| `MinimumEligibleBalance` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The minimum balance that's required for loyalty program members to be eligible for the tier. This field is available in API version 58.0 and later. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty tier. |
| `SequenceNumber` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, idLookup, Nillable, Sort, Update<br>**Description**<br>The sequence number indicates the ranking of the tier. The tier with the highest sequence number indicates the highest tier. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyTierChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**LoyaltyTierHistory**
History is available for tracked fields of the object.

# LoyaltyTierBenefit

A junction object that associates the loyalty benefits with the loyalty program tiers. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `BenefitId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. Benefit associated with the loyalty tier benefit.<br>This is a relationship field.<br>**Relationship Name**<br>Benefit<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Benefit |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>Tier associated with the loyalty benefit. |

| Field | Details |
|---|---|
| | This is a relationship field.<br>**Relationship Name**<br>LoyaltyTier<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyTier |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty tier benefit. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyTierBenefitChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

# LoyaltyTierEligibilitySrc

Represents the customer groups that are eligible for club membership. This object is available in API version 64.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |

| Field | Details |
| --- | --- |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the parent loyalty tier for which eligibility source is associated with.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyTier<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyTier (the master object) |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Name of the loyalty tier. |
| `SourceReferenceId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the source for determining club enrollment eligibility. For example, if a customer is part of a specific campaign, they are eligible for club membership.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>SourceReference<br>**Refers To**<br>ActionableList, LoyaltyTier |

# LoyaltyTierGroup

Represents information about tier groups of a loyalty program. Tier group categorizes members based on their loyalty points. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Category` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The category of the loyalty tier group.<br>Possible values are:<br>• `Clubs`<br>• `Tier_Group - Tier Group` |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Detailed description of the tier group. |
| EndDate | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The end date of the loyalty tier group. |
| `ExtendExpiration` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>Required. The field decides if the tier is changed on the exact day or the last day of the month.<br>Possible values are:<br>• `MemberEnrollmentAnniversary`— Select this option only when TierModel is Anniversary. This change is available from API version 52.0 and later.<br>• `None`<br>• `QualifyingPointsResetDate`— This value can only be selected when TierModel is Fixed. This change is available from API version 52.0 and later.<br>• `TillEndOfMonth`— This value isn't supported in API version 52.0 and later. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Required. Indicates whether the loyalty tier group is active (`true`) or not (`false`). |
| `IsHiddenToMembers` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the loyalty tier group is hidden (`true`) or not (`false`). |
| `IsPrimary` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the loyalty tier group is primary (`true`) or not (`false`). |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyProgram |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the loyalty tier group. |
| `QpResetDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Required. Start date of the QP reset process. |
| `QpResetFrequency` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Required. The frequency at which members' qualifying points must be reset. |

| Field | Details |
| --- | --- |
| `QpResetPeriod` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Required. Unit of the period for QP reset.<br>Possible values are:<br>• `Days`—This value isn't supported in API version 52.0 and later.<br>• `Months`— This value isn't supported in API version 52.0 and later.<br>• `Years` |
| StartDate | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The start date of the loyalty tier group. |
| `TierAssessmentCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the Loyalty Program Currency that's used to assess and assign tiers to members of the loyalty program. Members are assigned tiers based on their points balance for the currency. This field is available in API version 58.0 and later.<br>This field is a relationship field.<br>**Relationship Name**<br>TierAssessmentCurrency<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |
| `TierModel` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Required. It's the model that decides the start date of the qualifying period. |

| Field | Details |
|---|---|
| | Possible values are:<br>• `Anniversary`<br>• `Fixed` |
| `TierPeriodQuantity` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Required. The period after which members' tier must be reset. |
| `TierPeriodUnit` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Required. The frequency type for the tier assessment.<br>Possible values are:<br>• `Days`—This value isn't supported in API version 52.0 and later.<br>• `Months`<br>• `Years` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**LoyaltyTierGroupChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

# LoyaltyTierMshpFeeOption

Represents the options by which members can pay for tier or club memberships. This object is available in API version 63.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

# Fields

| Field | Details |
|---|---|
| `EffectiveEndDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The end date and time of the loyalty tier membership. |
| `EffectiveStartDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The start date and time of the loyalty tier membership. |
| `FeeType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Specifies the type of payment for the membership fee. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the membership is active (true) or not (false).<br>The default value is `false`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the non-qualifying loyalty program currency associated with the loyalty tier.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Refers To**<br>LoyaltyProgramCurrency |
| `LoyaltyTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the loyalty tier associated with the membership.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyTier<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyTier (the master object) |
| `MembershipDurationType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The duration of the loyalty tier membership. |
| `MembershipFee` | **Type**<br>currency |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The amount of the loyalty tier membership. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the tier membership fee option. |
| `Points` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The points used to pay for the membership fee. |

# LoyaltyTierPromotion

Represents a junction between a member tier and a loyalty promotion. This object is available in API version 63.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |

| Field | Details |
| --- | --- |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyTierId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the loyalty tier associated with the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyTier<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>LoyaltyTier (the master object) |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the tier promotion. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the loyalty promotion associated with the tier.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Refers To**<br>Promotion |

# MemberBenefit

Represents details about a benefit that's assigned to a loyalty program member and has a benefit action that's triggered. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the account associated with the member benefit.<br>This is a relationship field.<br>**Relationship Name**<br>Account<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account |
| `BenefitId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The ID of the benefit associated with the member benefit.<br>This is a relationship field.<br>**Relationship Name**<br>Benefit<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Benefit |

| Field | Details |
| --- | --- |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the contact associated with the member benefit.<br>This is a relationship field.<br>**Relationship Name**<br>Contact<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Contact |
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description of the member benefit. |
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The end date of the member benefit. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |

| Field | Details |
| --- | --- |
| `MemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the member associated with the member benefit.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Member<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the member benefit. |
| `PrimaryRefObjectRecord` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of a record created by the member benefit. |
| `PrimaryRefObjectRecordTitle` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The title of a record created by the member benefit. |
| `SourceType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Required. The source of the benefit. |

| Field | Details |
|---|---|
| | Possible values are:<br>• `LoyaltyTierProcessing`<br>• `Manual` |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The start date of the member benefit. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The status of the member benefit.<br>Possible values are:<br>• `Expired`<br>• `ExpiredPendingProcessing`—Expired - Awaiting Processing<br>• `NewPendingProcessing`—New - Awaiting Processing<br>• `Processed`<br>• `UpdatedPendingProcessing`—Updated - Awaiting Processing<br>The default value is `NewPendingProcessing`. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**MemberBenefitChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**MemberBenefitHistory**
History is available for tracked fields of the object.

# NetworkReferencedObject

A junction object that associates the loyalty program with the Experience Cloud site. This object is available in API version 51.0 and later.

## Supported Calls

`create()`,`delete()`,`describeLayout()`,`describeSObjects()`,`getDeleted()`,`getUpdated()`,`query()`,`retrieve()`,`search()`,`undelete()`,`update()`,`upsert()`

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Unique identifier for the Network Referenced Object. |
| `NetworkId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The Id of the Experience Cloud site associated with the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>Network<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Network |

| Field | Details |
| --- | --- |
| `ReferencedObjectId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The object associated with the Experience Cloud site.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>ReferencedObject<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |

# Promotion

Represents a promotion associated with the loyalty program. It captures the information such as type of the promotion, issue of a voucher or credit points, promotion enrollment, and status of the promotion. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `BusinessUnitId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the internal organization unit that contains the details of the Marketing Cloud business unit associated with the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>BusinessUnit<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>InternalOrganizationUnit |
| `CampaignId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The campaign associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>Campaign<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Campaign |
| `CumulativeUsageTarget` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of times a member must participate or the amount of money spent to qualify for a reward. |
| `CurrentLiabilityAmount` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The liability amount incurred for the promotion until now. This field is available in API version 52.0 and later. |
| `CurrentPointCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The liability amount incurred for the promotion until now. This field is available in API version 52.0 and later. |

| Field | Details |
| --- | --- |
| DefaultVoucherDefinitionId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The voucher associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>DefaultVoucherDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>VoucherDefinition |
| Description | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Description of the promotion. |
| DisplayName | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The display name of the promotion. This field is available in API version 60.0 and later where Global Promotions Management is enabled. |
| EndDate | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>End date of the promotion. |
| EndDateTime | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The end date and time of the promotion. This field is available in API version 60.0 and later where Unified Promotions is enabled. |
| `EnrollmentEndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The last date to enroll in the promotion. |
| `EnrollmentStartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The first date to enroll in the promotion. |
| `FulfillmentAction` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>Select how a loyalty member is rewarded for fulfilling promotion requirements.<br>Possible values are:<br>• `CreditPoints`—Credit Points<br>• `IssueVoucher`—Issue Voucher |
| `GameDefinitionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the game definition associated with the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>GameDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>GameDefinition |

| Field | Details |
| --- | --- |
| `ImageUrl` | **Type**<br>url<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The URL for the promotion image. This field is available in API version 57.0 and later. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the promotion is active. This field is available in API version 52.0 and later. |
| `IsCloned` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the promotion has been created by cloning an existing promotion. This field is available in API version 61.0 and later.<br>The default value is `false`. |
| `IsEnrollmentRequired` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether enrollment is required to participate in the promotion. |
| `IsPointsWithFactor` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the promotion is applied by multiplying points with a factor or by using the fixed value in the TotalRewardPoints field. This field is available in API version 52.0 and later.<br>The default value is `False`. |

| Field | Details |
| --- | --- |
| `IsQuickPromotion` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the records represent a quick promotion (`true`) or not (`false`). This field is available in API version 57.0 and later.<br>The default value is `false`. |
| `IssuedVoucherCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of vouchers issued for the promotion until current date. This field is available in API version 52.0 and later. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The loyalty program currency associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The loyalty program associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `LoyaltyPromotionType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The type of promotion.<br>Possible values are:<br>• `Cumulative`<br>• `Standard`<br>• `Joint`<br>This field is available in API version 55.0 and later. |
| `MaximumLiabilityAmount` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The maximum liability amount that can be incurred for the promotion. |
| `MaximumRewardValue` | **Type**<br>int |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The total value that can be accumulated for the promotion. |
| `MaximumVoucherCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The maximum number of vouchers that can be issued for the promotion. This field is available in API version 52.0 and later. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>Unique identifier for the promotion. |
| `Objective` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>Business objective of the promotion. For example, launching a new product, keeping customers satisfied, or clearing stock. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |

| Field | Details |
| --- | --- |
| `PointFactor` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The factor with which points are multiplied or divided when `IsPointsWithFactor` is set to true. This field is available in API version 52.0 and later. |
| `PriorityNumber` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The priority number of the promotion. This field is available in API version 60.0 and later, where Global Promotions Management is enabled. |
| `ProductCatalogId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the product catalog associated with the promotion. This field is available in API version 60.0 and later, where Global Promotions Management is enabled.<br>This field is a relationship field.<br>**Relationship Name**<br>ProductCatalog<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>ProductCatalog |
| `PromotionCode` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Nillable, Sort, Update<br>**Description**<br>The unique code of the promotion. This field is available in API version 60.0 and later, where Global Promotions Management is enabled. |
| `PromotionConfiguration` | **Type**<br>textarea |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Nillable, Update<br>**Description**<br>The configuration of a quick promotion. This field is available in API version 57.0 and later. |
| `RelatedPromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the promotion that was cloned to create the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>RelatedPromotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `RuleLibraryId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the promotion that was cloned to create the promotion. This field is available in API version 62.0 and later.<br>This field is a relationship field.<br>**Relationship Name**<br>RelatedPromotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The start date of the promotion. |

| Field | Details |
| --- | --- |
| `StartDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The start date and time of the promotion. This field is available in API version 60.0 and later where Global Promotions Management is enabled. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The status of the promotion.<br>Possible values are:<br>• `Cancelled`<br>• `Complete`<br>• `Draft`<br>• `InProgress` |
| `TotalRewardPoints` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The points awarded on availing the promotion. |
| `TransactionJournalType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The journal type that has been applied for the promotion. This field is available in API version 52.0 and later.<br>Possible values are:<br>• `Accrual`<br>• `Redemption` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionChangeEvent**
Change events are available for the object.

**PromotionFeed**
Feed tracking is available for the object.

**PromotionHistory**
History is available for tracked fields of the object.

**PromotionOwnerSharingRule**
Sharing rules are available for the object.

**PromotionShare**
Sharing is available for the object.

# PromotionActionableList

Represent of a junction between a promotion and an actionable list. This object is available in API version 62.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

The PromotionActionableList object is available in orgs that have the Actionable Segmentation setting enabled.

## Fields

| Field | Details |
|---|---|
| `ActionableListId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the actionable list associated with the promotion actionable list.<br>This field is a relationship field.<br>**Relationship Name**<br>ActionableList<br>**Refers To**<br>ActionableList |

| Field | Details |
| --- | --- |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated number of the promotion actionable list. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the promotion associated with the promotion actionable list.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Master-detail<br>**Refers To**<br>Promotion (the master object) |

# PromotionChannel

Represents a promotion's eligible channel. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionLimit is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
|---|---|
| `EndDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date from which the channel is eligible for the promotion. |
| `EngagementChannelTypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the engagement channel type that the channel belongs to.<br>This field is a relationship field.<br>**Relationship Name**<br>EngagementChannelType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>EngagementChannelType |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the promotion for which the channel is eligible.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `RetailLocationGroupId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the retail location group that's eligible for the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>RetailLocationGroup<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>RetailLocationGroup |

| Field | Details |
| --- | --- |
| `RetailStoreId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the retail store that's eligible for the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>RetailStore<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>RetailStore |
| `StartDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date till which the channel is eligible for the promotion. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionChannelFeed**
Feed tracking is available for the object.

**PromotionChannelHistory**
History is available for tracked fields of the object.

# PromotionExecutionEvalGrp

Represents a collection of promotions that are evaluated for execution as a group. This object is available in API version 65.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

The PromotionExecutionEvalGrp object is available in orgs that have the Promotion Evaluation and Execution setting enabled.

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description of the promotion execution evaluation group. |
| `DiscountType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The type of discount the promotions in the group offer.<br>Possible values are:<br>• `CartDiscount`<br>• `CrossProductDiscount`<br>• `EligibleProductDiscount` |
| `EvaluationMethod` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The method in which the promotions in the promotion group are evaluted for execution.<br>Possible values are:<br>• `FirstEligiblePromotion`<br>• `HighestDiscount`<br>• `Stacked` |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the promotion execution evaluation group. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the owner of this record.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Refers To**<br>Group, User |
| `PricingProcedureId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The pricing procedure associated with the promotion group.<br>This field is a relationship field.<br>**Relationship Name**<br>PricingProcedure<br>**Refers To**<br>ExpressionSet |

| Field | Details |
|---|---|
| `RuleLibraryId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The rule library asscociated with the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>RuleLibrary<br>**Refers To**<br>RuleLibrary |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The status of the promotion execution evaluation group.<br>Possible values are:<br>• `Active`<br>• `Deleted`<br>• `Draft`<br>• `Inactive` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionExecutionEvalGrpShare**
Sharing is available for the object.

# PromotionExecEvalGrpItem

Represents either a promotion or a promotion group in a promotion execution evaluation group. This object is available in API version 65.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

The PromotionExecutionEvalGrp object is available in orgs that have the Promotion Evaluation and Execution setting enabled.

## Fields

| Field | Details |
|---|---|
| `CurrentItemRecordId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The ID of promotion or the promotion group that the item record belongs to.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>CurrentItemRecord<br>**Refers To**<br>Promotion, PromotionExecutionEvalGrp |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The name of the promotion execution evaluation group item. |
| `OwnerId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the owner of this record.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Refers To**<br>Group, User |
| `ParentPromEvaluationGroupId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the parent execution evaluation group<br>This field is a relationship field.<br>**Relationship Name**<br>ParentPromEvaluationGroup<br>**Refers To**<br>PromotionExecutionEvalGrp |
| `PreviousItemRecordId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the promotion or promotion group that's sequenced before the current item.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>PreviousItemRecord<br>**Refers To**<br>Promotion, PromotionExecutionEvalGrp |

# Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionExecEvalGrpItemShare**
Sharing is available for the object.

# PromotionLimit

Represents the limit of a promotion. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionLimit is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
|---|---|
| `Category` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The category of promotion limit.<br>Possible values are:<br>• `CustomerLevel`<br>• `PromotionLevel` |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramCurrencyId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the loyalty program currency for which the promotion limit is set. Specify a loyalty program currency when the limit type is PointsCredited.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramCurrency<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramCurrency |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the promotion that the limit is for.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The type of promotion limit.<br>Possible values are: |

| Field | Details |
| --- | --- |
| | • `CartItemCount`<br>• `FinancialLiability`<br>• `OrderCount`<br>• `PointsCredited`<br>• `TotalUsage`<br>• `UsagePerCustomer`<br>• `VouchersIssued`<br>• `Milestone` |
| `Value` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The value of the promotion limit. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionLimitFeed**
Feed tracking is available for the object.

**PromotionLimitHistory**
History is available for tracked fields of the object.

# PromotionLimitUsage

Represents information about the total usage of a promotion limit. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionLimitUsage is only available in orgs where Global Promotions Management is enabled.

# Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `PromotionLimitId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the promotion limit for which the usage is tracked.<br>This field is a relationship field.<br>**Relationship Name**<br>PromotionLimit<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>PromotionLimit |
| `Usage` | **Type**<br>double<br>**Properties**<br>Create, Filter, Sort, Update |

| Field | Details |
|---|---|
| | **Description**<br>Required. The usage of the promotion limit till date. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionLimitUsageFeed**
Feed tracking is available for the object.

**PromotionLimitUsageHistory**
History is available for tracked fields of the object.

# PromotionLoyaltyPtnrProdt

Represents a relationship between a promotion and a loyalty partner product. It indicates the products or product categories that are applied to a particular promotion. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |

| Field | Details |
| --- | --- |
| `LoyaltyPartnerId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty partner associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyPartner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramPartner |
| `LoyaltyPartnerProductId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The loyalty partner product associated with the promotion loyalty partner product.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyPartnerProduct<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyPartnerProduct |
| `LoyaltyProductId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty product associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProduct<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>Product2 |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Unique identifier for the promotion loyalty partner product. |
| `ProductCategoryId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The product category associated with the promotion.<br>This is a relationship field.<br>**Relationship Name**<br>ProductCategory<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>ProductCategory |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The promotion associated with the promotion loyalty partner product.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionLoyaltyPtnrProdtChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**PromotionLoyaltyPtnrProdtFeed**
Feed tracking is available for the object.

**PromotionLoyaltyPtnrProdtHistory**
History is available for tracked fields of the object.

# PromotionMarketSegment

Represents a relationship between a promotion and Data Cloud segment. It indicates the segments targeted for a particular promotion. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `CurrencyIsoCode` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The currency ISO code of the promotion. This field is only available in orgs where multiple currencies are enabled.<br>Possible values are:<br>• `USD`—U.S. Dollar<br>The default value is `USD`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |

| Field | Details |
| --- | --- |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `MarketSegmentId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the market segment associated with the promotion market segment. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>Unique identifier for the promotion market segment. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the promotion associated with the promotion market segment.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `PromotionSegmentId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The ID of the related promotion segment. This field is accessible in orgs with a Commerce Cloud license, where users have access to Promotions.<br>The field associates a promotion with its segments. Promotion segments are different from Data Cloud segments.<br>This field is a relationship field.<br>**Relationship Name**<br>PromotionSegment<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>PromotionSegment |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionMarketSegmentChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**PromotionMarketSegmentFeed**
Feed tracking is available for the object.

**PromotionMarketSegmentHistory**
History is available for tracked fields of the object.

# PromotionPartyUsage

Represents the details of number of times a promotion has been used by a customer. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionPartyUsage is only available in orgs where Global Promotions Management is enabled.

# Fields

| Field | Details |
|---|---|
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>ID of the account associated with the organization that has used the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>Account<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account |
| `AdditionalAttributeInfo` | **Type**<br>textarea<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>Specifies the details of the additional promotional attribute for Contact, Account or a member in JSON format. |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>ID of the contact associated with the person who has used the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>Contact<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Contact |
| `IssuedVoucherCount` | **Type**<br>int |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of vouchers that have been issued to the customer as the associated promotion's reward. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>ID of the loyalty program member who has used the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |

| Field | Details |
| --- | --- |
| `OrderCount` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of orders for which the customer has applied the promotion. |
| `PartyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the person or the organization that has been provided the discount.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Party<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account, Contact, LoyaltyProgramMember |
| `PointsCredited` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The number of points that have been credited to a loyalty program member as the associated promotion's reward. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. ID of the promotion for which the customer's usage is tracked.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>Promotion |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The type of customer for whom the promotion usage is tracked.<br>Possible values are:<br>• `Account`<br>• `Contact`<br>• `LoyaltyProgramMember` |
| `UsageCount` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The number of times a party has used a promotion. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionPartyUsageChangeEvent**
Change events are available for the object.

**PromotionPartyUsageFeed**
Feed tracking is available for the object.

**PromotionPartyUsageHistory**
History is available for tracked fields of the object.

# PromotionPartyUsageDetail

Represents the amount that's discounted by a promotion for a transaction journal. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionPartyUsageDetail is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
|---|---|
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>ID of the account associated with the organization that has used the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>Account<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>ID of the contact associated with the person who has used the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>Contact<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Contact |
| `DiscountAmount` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The monetary discount provided to the person or organization who has availed the promotion. |

| Field | Details |
| --- | --- |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>ID of the loyalty program member who has used the promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `PartyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>ID of the person or the organization that has been provided the discount. |

| Field | Details |
| --- | --- |
| | This field is a polymorphic relationship field.<br>**Relationship Name**<br>Party<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account, Contact, LoyaltyProgramMember |
| `PartyType` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The type of customer that has been provided the discount.<br>Possible values are:<br>• `Account`<br>• `Contact`<br>• `LoyaltyProgramMember` |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The promotion that has provided the discount to the customer.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `TransactionJournalId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>ID of the transaction journal that represents the customer activity for which the promotion has been applied. |

| Field | Details |
| --- | --- |
| | This field is a relationship field.<br>**Relationship Name**<br>TransactionJournal<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>TransactionJournal |

# PromotionProduct

Represents a junction between a promotion and an product that's eligible for the promotion. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionProduct is available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
| --- | --- |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |

| Field | Details |
| --- | --- |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |
| `ProductId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. ID of the product that's eligible for the associated promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>Product<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Product2 |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The promotion for which eligible product is selected.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionProductFeed**
Feed tracking is available for the object.

**PromotionProductHistory**
History is available for tracked fields of the object.

# PromotionProductCategory

Represents a junction between a promotion and an product category that's eligible for the promotion. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionProductCategory is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
|---|---|
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated unique number of the record. |

| Field | Details |
| --- | --- |
| ProductCategoryId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. of the product category that's eligible for the associated promotion.<br>This field is a relationship field.<br>**Relationship Name**<br>ProductCategory<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>ProductCategory |
| PromotionId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The promotion for which eligible product category is selected.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**PromotionProductCategoryFeed**
Feed tracking is available for the object.

**PromotionProductCategoryHistory**
History is available for tracked fields of the object.

# PromotionRuleTemplate

Represents the configuration of a promotion rule template. This object is available in API version 60.0 and later.

## Supported Calls

`describeSObjects()`, `query()`

## Special Access Rules

PromotionRuleTemplate is only available in orgs where Global Promotions Management is enabled. The object isn't available in the Object Manager and can't be customized.

## Fields

| Field | Details |
|---|---|
| `ApiName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The API name of the promotion rule template. |
| `Category` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The category of the promotion rule template. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The description of the promotion rule template. |
| `ExternalId` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>Reserved for internal use. |
| `IconUrl` | **Type**<br>url |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The URL of the promotion rule template's icon. |
| `JournalTypeId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the journal type that represents the type of customer activity the promotion rule template is applicable for.<br>This field is a relationship field.<br>**Relationship Name**<br>JournalType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>JournalType |
| `Label` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the promotion rule template. |
| `RuleConfiguration` | **Type**<br>textarea<br>**Properties**<br>Nillable<br>**Description**<br>The promotion rule configuration in JSON format. |
| `RuleRewardConfiguration` | **Type**<br>textarea<br>**Properties**<br>Nillable<br>**Description**<br>The rule reward configuration details in JSON format, which are applicable for the promotion rule template. |

# PromotionStage

Represents a stage when the promotion sends an email to the promotion's target audience. With Global Promotions Management, a promotion launch email is sent after the promotion is activated. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionStage is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
|---|---|
| `ApiName` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>Required. The unique name of the promotion stage. |
| `Configuration` | **Type**<br>textarea<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>The configuration of the promotion stage. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The description of the promotion stage. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the promotion stage. |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the promotion that the stage belongs to.<br>This field is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `SequenceNumber` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The sequence number of the stage in a promotion. The sequence number of the Promotion Launched stage is 1. |
| `Type` | **Type**<br>picklist |

| Field | Details |
|---|---|
| | **Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The type of promotion stage.<br>Possible values are:<br>• `Promotion Launched` |

# PromotionStageEmailTemplate

Represents a junction between a promotion stage and an email template. With Global Promotions Management, a promotion's launch email is associated with the promotion's Promotion Launched stage. You can customize the promotion launch email based on your company's branding. This object is available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

PromotionStageEmailTemplate is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
|---|---|
| `EmailCustomConfiguration` | **Type**<br>textarea<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>The customized content of an email template. |
| `EmailTemplateId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The ID of the email template associated with the promotion stage.<br>This field is a relationship field. |

| Field | Details |
| --- | --- |
| | **Relationship Name**<br>EmailTemplate<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>EmailTemplate |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The unique number of the promotion stage email template. |
| `PromotionStageId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort<br>**Description**<br>The ID of the promotion stage that the associated email template belongs to.<br>This field is a relationship field.<br>**Relationship Name**<br>PromotionStage<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>PromotionStage |

# TransactionJournal

Represents information about loyalty transactions that track activities, member behavior, and adjustments. This object is available in API version 51.0 and later.

Warning: You can add up to 50 custom fields in the TransactionJournal object.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `ActivityDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Sort, Update<br>**Description**<br>Required. The date of the transaction. |
| `BookedFareClass` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The class of ticket service that the member booked. |
| `BookedRoomType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The type of room the member booked. |
| `BookingDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date of the member booked a reservation or purchased goods or services. |

| Field | Details |
| --- | --- |
| `Brand` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The hotel chain where the member stayed or the brand of the purchased or rented goods or services. |
| `Channel` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The channel the member used for transactions. |
| `CurrencyIsoCode` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>The three-letter ISO 4217 currency code of the monetary currency in which the transaction took place.<br>Possible values are:<br>• `USD`<br>The default value is `USD`. |
| `Destination` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ending location for a member's trip or the place where an order shipped to. |
| `Distance` | **Type**<br>double<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The miles or kilometers traveled by a member or an order's shipping distance. |

| Field | Details |
| --- | --- |
| EndDate | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The end date associated with the transaction. |
| EngagementChannelTypeId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the engagement channel that the customer used for the purchase. This field is available in API version 61.0 and later.<br>This field is a relationship field.<br>**Relationship Name**<br>EngagementChannelType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>EngagementChannelType |
| ErrorDescription | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The description of the error. |
| EscrowPointsCreditDate | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date on which the escrow points are credited to the associated loyalty program member's point balance. This field is available in API version 53.0 and later. |
| Establishment | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The unique identifier for the location where the member stayed or purchased goods or services. |
| `ExternalTransactionNumber` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Nillable, Sort, Update<br>**Description**<br>The transaction number from the external systems. |
| `FlightNumber` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The airline flight number the member booked. |
| `Industry` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Specifies the type of the industry. |
| `InvoiceDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date the invoice was generated. |
| `IsParentTransaction` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the transaction journal represents the primary activity within a group of activities. This field is available in API version 60.0 and later.<br>The default value is `false`. |

| Field | Details |
| --- | --- |
| `JournalDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date of the journal. |
| `JournalReason` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Specifies the reason for the action that created a transaction journal. This field can store up to 999 values. After the field reaches 999 values, rename existing values that you no longer use instead of deleting values and adding new ones.<br>Possible values are:<br>• `Accrual Cancelation Requested by Member`<br>• `Order Canceled`<br>• `Product Returned`<br>• `Product or Service Unavailable`<br>• `Redemption Cancelation Requested by Member`<br>• `Resolve Disputed Points`<br>• `Service Recovery` |
| `JournalSubTypeId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The subtype of journal transaction.<br>This is a relationship field.<br>**Relationship Name**<br>JournalSubType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>JournalSubType |
| `JournalTypeId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The type of journal transaction.<br>This is a relationship field.<br>**Relationship Name**<br>JournalType<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>JournalType |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The loyalty program associated with the transaction.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |

| Field | Details |
| --- | --- |
| `MemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>The member associated with the transaction.<br>This field is a polymorphic relationship field.<br>**Relationship Name**<br>Member<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated number of the transaction journal. |
| `OrderId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The order associated with the transaction.<br>This is a relationship field.<br>**Relationship Name**<br>Order<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Order |
| `OrderItemId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The order items associated with the transaction. |

| Field | Details |
| --- | --- |
| | This is a relationship field.<br>**Relationship Name**<br>OrderItem<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>OrderItem |
| `Origin` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The starting location for a member's trip or the place where an order shipped from. |
| `PartnerId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>Participating partners where members can add or redeem points.<br>This is a relationship field.<br>**Relationship Name**<br>Partner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramPartner |
| `PaymentMethod` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The member's payment method. |
| `ProductCategoryId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The category of the product associated with the transaction.<br>This is a relationship field.<br>**Relationship Name**<br>ProductCategory<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>ProductCategory |
| `ProductId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The product associated with the transaction.<br>This is a relationship field.<br>**Relationship Name**<br>Product<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Product2 |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The promotion associated with the transaction journal. This field is available in API version 52.0 and later.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `Quantity` | **Type**<br>double |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The length of the booked stay or the order quantity. |
| QuantityUnitOfMeasureId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The unit of measure for the booked stay or the order quantity.<br>This is a relationship field.<br>**Relationship Name**<br>QuantityUnitOfMeasure<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>UnitOfMeasure |
| RedeemedPointsExpirationInformation | **Type**<br>textarea<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>The details of the fixed type non-qualifying points that are redeemed in a transaction journal and their corresponding expiration dates. This field is available in API version 55.0 and later.<br>RedeemedPointsExpirationInformation isn't able in the Object Manager and can't be customized. |
| ReferredMemberId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The name of the person the member referred.<br>This is a relationship field.<br>**Relationship Name**<br>ReferredMember<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>LoyaltyProgramMember |
| `ReferredPartyId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the contact or account associated with the transaction journal. The contact ID belongs to the person whose activity the transaction journal represents. This field is available in API version 60.0 and later.<br>**Relationship Name**<br>ReferredParty<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account, Contact |
| `RelatedCorporateMembershipId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The corporate membership associated with the transaction.<br>This is a relationship field.<br>**Relationship Name**<br>RelatedCorporateMembership<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |
| `RelatedJournalId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The related journal entry associated with this transaction.<br>This is a relationship field.<br>**Relationship Name**<br>RelatedJournal |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>TransactionJournal |
| `StartDate` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The start date associated with the transaction. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The status of the transaction.<br>Possible values are:<br>• `Cancelled`<br>• `Error`<br>• `Pending`<br>• `Processed` |
| `TotalPromotionDiscount` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The total discount provided by the associated promotion for the activity that the transaction journal represents. This field is available in API version 61.0 and later. |
| `TransactionAmount` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>For reservations, the total fees or prepaid balance. For goods and services, the total purchase price. |

| Field | Details |
| --- | --- |
| `TransactionLocation` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The location where the loyalty member purchased goods or services. |
| `TransactionSourceLocationId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the retail store where the activity that the transaction journal represents has taken place. This field is available in API version 60.0 and later.<br>This field is a relationship field.<br>**Relationship Name**<br>TransactionSourceLocation<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>RetailStore |
| `TraveledFareClass` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The class of ticket service that the member traveled. |
| Unique Identifier | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The unique identifier of the transaction journal. |
| `UsageType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The type of usage.<br>Possible values are:<br>• `Loyalty`<br>• `Rebates`<br>• `UnifiedPromotions`—This value is available in API version 60.0 and later. |
| `VoucherCode` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The voucher code generated by an external system. |

## Usage

You can query Transaction Journal records in your org using a combination of these indexed fields:

- ActivityDate
- ExternalTransactionNumber
- Id
- JournalTypeId
- LoyaltyProgramId
- MemberId
- OrderId
- RelatedJournalId
- UsageType

The TransactionJournal object in most orgs can store millions of records. A limited set of TransactionJournal fields are indexed to help optimize operations on the TransactionJournal object.

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**TransactionJournalChangeEvent on page 237 (API Version 63.0)**
Change events are available for the object.

# Voucher

Represents details about a voucher that's issued to a loyalty program member. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `AccountId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The ID of the account to which the voucher is issued. This field is available in API version 62.0 and later.<br>If you want to issue vouchers to accounts, set up a custom process based on the requirements of your company.<br>This field is a relationship field.<br>**Relationship Name**<br>Account<br>**Refers To**<br>Account |
| `BenefitId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The benefit associated with the voucher.<br>This is a relationship field.<br>**Relationship Name**<br>Benefit<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Benefit |
| `ContactId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The contact associated with the member.<br>This is a relationship field.<br>**Relationship Name**<br>Contact<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Contact |
| `DiscountPercent` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The discount percentage associated with the voucher. |
| `EffectiveDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date the voucher goes into effect. |
| `EffectiveDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time from when the voucher is available for redemption. This field is available in API version 62.0 and later. |
| `ExpirationDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date the voucher expires. |
| `ExpirationDateTime` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time when the voucher expires and is no longer available for redemption. This field is available in API version 62.0 and later. |
| `FaceValue` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The value of the voucher. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramMemberId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The member who has been issued the voucher.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgramMember<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgramMember |

| Field | Details |
| --- | --- |
| `Name` | **Type**<br>string<br>**Properties**<br>Autonumber, Defaulted on create, Filter, idLookup, Sort<br>**Description**<br>The autogenerated number of the voucher. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `PromotionId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The promotion associated with the voucher.<br>This is a relationship field.<br>**Relationship Name**<br>Promotion<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Promotion |
| `Reason` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The reason why the voucher was issued. |

| Field | Details |
| --- | --- |
| `RedeemedValue` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The voucher balance that was redeemed. This field is available in API version 53.0 and later. |
| `RemainingValue` | **Type**<br>currency<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The remaining value of the voucher after partial redemption. This field is available in API version 53.0 and later. |
| `ReservationKey` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The key that's used to redeem a reserved voucher. This field is available in API version 62.0 and later. |
| `ReservedDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time when the voucher is reserved for redemption. This field is available in API version 62.0 and later. |
| `ReservedValue` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The value of the voucher reserved by the customer. This field is available in API version 62.0 and later. |
| `Status` | **Type**<br>picklist |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Defaulted on create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The status of the voucher.<br>Possible values are:<br>• `Cancelled`<br>• `Expired`<br>• `Issued`<br>• `Redeemed` |
| `TransactionJournalId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The transaction journal associated with the member voucher when the voucher results from accrual of points.<br>This is a relationship field.<br>**Relationship Name**<br>TransactionJournal<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>TransactionJournal |
| `UseDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date the voucher was used. |
| `VoucherCode` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The voucher identifier generated by an external system. |
| `VoucherDefinitionId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort<br>**Description**<br>The loyalty voucher definition associated with the voucher.<br>This is a relationship field.<br>**Relationship Name**<br>VoucherDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>VoucherDefinition |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**VoucherChangeEvent on page 237 (API Version 63.0)**
Change events are available for the object.

**VoucherHistory (API version 52.0)**
History is available for tracked fields of the object.

**VoucherShare (API version 52.0)**
Sharing is available for the object.

# VoucherDefinition

Represents details about a voucher definition that's associated with a loyalty program. This object is available in API version 51.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
| --- | --- |
| `AutogeneratedCodeLength` | **Type**<br>int |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The length of the auto-generated voucher code. If no value is specified, the default is eight digits. This field is available in API version 57.0 and later. |
| `CodePrefix` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The prefix of the auto-generated voucher code. This field is available in API version 57.0 and later. |
| `CodeSuffix` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The suffix of the auto-generated voucher code. This field is available in API version 57.0 and later. |
| `CostPerVoucher` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The liability incurred for each voucher that's issued. This field is available in API version 52.0 and later. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The description of the voucher. |
| `DiscountPercent` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update |

| Field | Details |
| --- | --- |
| | **Description**<br>The discount percentage associated with the voucher. |
| `EffectiveDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Sort, Update<br>**Description**<br>Required. The date on which the voucher becomes valid. |
| `EffectiveDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time from when the vouchers issued by the voucher definition can be redeemed by customers. This field is available in API version 62.0 and later. |
| `ExpirationDate` | **Type**<br>date<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The date the voucher expires. The expiration date is only valid for the fixed date model. |
| `ExpirationDateTime` | **Type**<br>dateTime<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The date and time on which the vouchers issued by the voucher definition are no longer available for customers to redeem. This field is available in API version 62.0 and later. |
| `ExpirationPeriod` | **Type**<br>int<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The number of days or months in the expiration period. |
| `ExpirationPeriodUnit` | **Type**<br>picklist |

| Field | Details |
| --- | --- |
| | **Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The unit for the expiration period.<br>Possible values are:<br>• `Days`<br>• `Months` |
| `ExpirationType` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The type of expiration for the voucher.<br>Possible values are:<br>• `FixedDate`<br>• `Period` |
| `FaceValue` | **Type**<br>currency<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The value of the voucher. |
| `HasTimeBasedVoucherPeriod` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether vouchers issued using the definition are effective and expire at a specific date and time. This field is available in API version 62.0 and later.<br>The default value is `false`. |
| `ImageUrl` | **Type**<br>url<br>**Properties**<br>Create, Filter, Nillable, Sort, Update<br>**Description**<br>The URL for the voucher definition image. This field is available in API version 57.0 and later. |

| Field | Details |
| --- | --- |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Required. Indicates whether the voucher is active (`true`) or not (`false`).<br>The default value is `false`. |
| `IsPartialRedeemable` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>Indicates whether the voucher can be partially redeemed (`true`) or not (`false`). This field is available in API version 53.0 and later.<br>The default value is `false`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user referenced this record. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The most recent date on which a user viewed this record. |
| `LoyaltyProgramId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The ID of the loyalty program.<br>This is a relationship field.<br>**Relationship Name**<br>LoyaltyProgram |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>LoyaltyProgram |
| `Name` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, idLookup, Sort, Update<br>**Description**<br>The name of the voucher. |
| `OwnerId` | **Type**<br>reference<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The ID of the user who owns this record.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `PartnerAccountId` | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The partner associated with the voucher.<br>This is a relationship field.<br>**Relationship Name**<br>PartnerAccount<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Account |

| Field | Details |
| --- | --- |
| ProductCategoryDerivedFieldId | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>A look up to show product category in voucher definition.<br>This is a relationship field.<br>**Relationship Name**<br>ProductCategoryDerivedField<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>ProductCategory |
| ProductDerivedFieldId | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>A look up to show product in voucher definition.<br>This is a relationship field.<br>**Relationship Name**<br>ProductDerivedField<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Product2 |
| ProductId | **Type**<br>reference<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The product associated with the voucher.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Product<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>Product2, ProductCategory |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Restricted picklist, Sort, Update<br>**Description**<br>Required. The type of voucher.<br>Possible values are:<br>• `DiscountPercentage`—Discount Percentage<br>• `FixedValue`—Fixed Value<br>• `ProductOrService`—Product or Service |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**VoucherDefinitionChangeEvent on page 237 (API Version 62.0)**
Change events are available for the object.

**VoucherDefinitionHistory**
History is available for tracked fields of the object.

**VoucherDefinitionShare**
Sharing is available for the object.

# CHAPTER 2 Loyalty Management Fields on Standard Objects

In this chapter ...


- Loyalty Management Fields on EngagementChannelType
- Loyalty Management Fields on InternalOrganizationUnit


Loyalty Management has added standard fields to some standard Salesforce objects to represent information specific to a promotion. These fields are available only in orgs where Global Promotions Management is enabled.

# Loyalty Management Fields on EngagementChannelType

Standard fields extend the EngagementChannelType object for use in Loyalty Management to represent to information promotion eligibility criteria. The Loyalty Management Fields on EngagementChannelType are available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Fields

| Field | Details |
|---|---|
| `Delivery` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The type of channel that's eligible for a promotion. This field is only available in orgs where Global Promotions Management is enabled.<br>Possible values are:<br>• `Online`<br>• `Social` |

# Loyalty Management Fields on InternalOrganizationUnit

Standard fields extend the InternalOrganizationUnit object for use in Loyalty Management to represent to information about Global Promotion Management's connection with a Marketing Cloud business unit. The Loyalty Management fields on InternalOrganizationUnit are available in API version 60.0 and later.

## Supported Calls

`create()`, `delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`, `update()`, `upsert()`

## Special Access Rules

The Delivery field is only available in orgs where Global Promotions Management is enabled.

## Fields

| Field | Details |
| --- | --- |
| `BusinessUsage` | **Type**<br>picklist<br>**Properties**<br>Create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The business purpose of the record.<br>Possible values are:<br>• `UNIFIED_PROMOTIONS`—Global Promotions Management |
| `EmailConfiguration` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The send classification that's used by the connected Marketing Cloud business unit to send emails. |
| `OrganizationIdentifier` | **Type**<br>string<br>**Properties**<br>Create, Filter, Group, Nillable, Sort, Update<br>**Description**<br>The name of the company's Marketing Cloud business unit that Global Promotions Management is connected to. |

# CHAPTER 3 Coupon Objects in Loyalty Management

Global Promotions Management in Loyalty Management provides access to Coupon objects that you can use to create coupons and manage coupon redemption for your company's promotions. When Global Promotions Management is enabled, you don't need any additional license or user permission for these coupon objects.

For more information about the objects you can use to manage coupons for promotions:

- Coupon
- CouponCodeRedemption

# CHAPTER 4 Loyalty Management Associated Objects

In this chapter ...

- StandardObjectNameChangeEvent

This section provides a list of objects associated to standard objects and their standard fields.

# *StandardObjectName*ChangeEvent

A ChangeEvent object is available for each object that supports Change Data Capture. You can subscribe to a stream of change events using Change Data Capture to receive data tied to record changes in Salesforce. Changes include record creation, updates to an existing record, deletion of a record, and undeletion of a record. A change event isn't a Salesforce object—it doesn't support CRUD operations or queries. It's included in the object reference so you can discover which Salesforce objects support change events.

## Supported Calls

`describeSObjects()`

## Special Access Rules

- All objects may not be available in your org. Some objects require specific feature settings and permissions to be enabled.
- For more special access rules, if any, see the documentation for the standard object. For example, for AccountChangeEvent, see the special access rules for Account.

## Change Event Support

Change events are available for all custom objects and a subset of standard objects. Change events that correspond to custom settings are partially supported. They aren't supported in Apex triggers but are supported in other types of subscribers. For more information about standard object support, see the Objects That Support Change Events section below.

## Change Event Name

The name of a change event is based on the name of the corresponding object for which it captures the changes.

**Standard Object Change Event Name**

```
<Standard_Object_Name>ChangeEvent
```

Example: `AccountChangeEvent`

**Custom Object Change Event Name**

```
<Custom_Object_Name>__ChangeEvent
```

Example: `MyCustomObject__ChangeEvent`

## Change Event Fields

The fields that a change event can include correspond to the fields on the associated parent Salesforce object, with a few exceptions. For example, AccountChangeEvent fields correspond to the fields on Account.

The fields that a change event doesn't include are:

- The `IsDeleted` system field.
- The `SystemModStamp` system field.
- Any field whose value isn't on the record and is derived from another record or from a formula, except roll-up summary fields, which are included. Examples are formula fields. Examples of fields with derived values include `LastActivityDate` and `PhotoUrl`.

Each change event also contains header fields. The header fields are included inside the `ChangeEventHeader` field. They contain information about the event, such as whether the change was an update or delete and the name of the object, like Account.

In addition to the event payload, the event schema ID is included in the `schema` field. Also included is the event-specific field, `replayId`, which is used for retrieving past events.

## Event Message Example

This example is an event message in JSON format for a new account record creation.

```
{
  "schema": "IeRuaY6cbI_HsV8Rv1Mc5g",
  "payload": {
    "ChangeEventHeader": {
      "entityName": "Account",
      "recordIds": [
        "<record_ID>"
      ],
      "changeType": "CREATE",
      "changeOrigin": "com/salesforce/api/soap/51.0;client=SfdcInternalAPI/",
      "transactionKey": "0002343d-9d90-e395-ed20-cf416ba652ad",
      "sequenceNumber": 1,
      "commitTimestamp": 1612912679000,
      "commitNumber": 10716283339728,
      "commitUser": "<User_ID>"
    },
    "Name": "Acme",
    "Description": "Everyone is talking about the cloud. But what does it mean?",
    "OwnerId": "<Owner_ID>",
    "CreatedDate": "2021-02-09T23:17:59Z",
    "CreatedById": "<User_ID>",
    "LastModifiedDate": "2021-02-09T23:17:59Z",
    "LastModifiedById": "<User_ID>"
  },
  "event": {
    "replayId": 6
  }
}
```

## API Version and Schema

When you subscribe to change events, the subscription uses the latest API version and the event messages received reflect the latest field definitions. For more information, see API Version and Event Schema in the *Change Data Capture Developer Guide*.

## Usage

For more information about Change Data Capture, see Change Data Capture Developer Guide.

## Objects That Support Change Events

These objects have associated ChangeEvent objects.

- BenefitType
- GameParticipant
- GameParticipantReward
- GameReward
- JournalSubType
- JournalType
- LoyaltyMemberCurrency
- LoyaltyMemberTier
- LoyaltyPartnerProduct
- LoyaltyPgmEngmtAttribute
- LoyaltyPgmEngmtAttrProm
- LoyaltyPgmGroupMbrRlnsp
- LoyaltyPgmMbrAttributeVal
- LoyaltyPgmPartnerPromotion
- LoyaltyProgram
- LoyaltyProgramBadge
- LoyaltyProgramCurrency
- LoyaltyProgramMbrPromotion
- LoyaltyProgramMember
- LoyaltyProgramMemberBadge
- LoyaltyProgramMemberCase
- LoyaltyProgramPartner
- LoyaltyTier
- LoyaltyTierBenefit
- LoyaltyTierGroup
- MemberBenefit
- Promotion
- PromotionLoyaltyPtnrProdt
- PromotionMarketSegment
- PromotionPartyUsage
- TransactionJournal
- Voucher
- VoucherDefinition

# CHAPTER 5 Apex Reference

In this chapter ...


- ConnectApi Namespace
- LoyaltyManagement Namespace


This Apex reference goes into detail about the built-in Apex `ConnectApi` classes and interfaces.

For Apex-related objects and SOAP API calls, see Objects and SOAP API Calls and Headers for Apex in the *SOAP API Developer Guide*.

# `ConnectApi` Namespace

The `ConnectApi` namespace (also called Connect in Apex) provides classes for accessing the same data available in Connect REST API. Use Connect in Apex to create custom experiences in Salesforce.

For information about working with the `ConnectApi` classes, see Connect in Apex.

LoyaltyConnect Methods
This is a method for `LoyaltyConnect`. Method is static.

LoyaltyManagementConnect Methods
This is a method for `LoyaltyManagementConnect`. Method is static.

LoyaltyVoucherConnect Methods
This is a method for `LoyaltyVoucherConnect`. Method is static.

Input Classes
These are Loyalty Management Apex input classes.

Output Classes
These are Loyalty Management Apex output classes.

ConnectApi Enums
Enums specific to the `ConnectApi` namespace.

## LoyaltyConnect Methods

This is a method for `LoyaltyConnect`. Method is static.

getMemberBenefits(memberId)
Get benefits for a loyalty program member.

### `getMemberBenefits(memberId)`

Get benefits for a loyalty program member.

#### API Version

51.0

#### Requires Chatter

No

#### Signature

```
public static ConnectApi.MemberBenefitsOutput getMemberBenefits(String memberId)
```

### Parameters

*memberId*
Type: String

ID of the loyalty program member.

### Return Value

Type: ConnectApi.MemberBenefitsOutput

## LoyaltyManagementConnect Methods

This is a method for `LoyaltyManagementConnect`. Method is static.

enrollCorporateMember(loyaltyProgramName, memberDetails)
Enroll corporate members in a loyalty program.

enrollIndividualMember(loyaltyProgramName, memberDetails)
Enroll individual members in a loyalty program.

getMemberProfileUsingLoyaltyProgramMemberId(loyaltyProgramName, memberId, programCurrencyName)
Get the details of a loyalty program member using the program member ID.

getMemberProfileUsingMembershipNumber(loyaltyProgramName, membershipNumber, programCurrencyName)
Get the details of a loyalty program member using the program membership number.

### `enrollCorporateMember(loyaltyProgramName, memberDetails)`

Enroll corporate members in a loyalty program.

### API Version

55.0

### Requires Chatter

No

### Signature

```
public static ConnectApi.CorporateMemberOutput enrollCorporateMember(String
loyaltyProgramName, ConnectApi.CorporateMemberInput memberDetails)
```

### Parameters

*loyaltyProgramName*
Type: String

The name of the loyalty program in which the member is enrolled.

*memberDetails*
Type: ConnectApi.CorporateMemberInput

Input representation of the corporate member create request.

### Return Value

Type: ConnectApi.CorporateMemberOutput

### Example

```
public class TestCorporateEnrollment {
   Map<String, String> additionalDetails = new Map<String, String>();
   ConnectApi.MemberAccountInput account = new ConnectApi.MemberAccountInput();
   additionalDetails.put('BillingCity', 'Delhi');
   account.additionalAccountFieldValues = additionalDetails;
   account.name = 'BBBB';
   ConnectApi.CorporateMemberInput member = new ConnectApi.CorporateMemberInput();
   member.associatedAccountDetails = account;
   DateTime myDateTime = DateTime.newInstance(2021, 1, 31, 7, 8, 16);
   member.enrollmentDate = myDateTime;
   member.membershipNumber = 'abcdefgh';
   member.memberStatus = 'Active';
   ConnectApi.CorporateMemberOutput output =
ConnectApi.LoyaltyManagementConnect.enrollCorporateMember('Program-999',member);
}
```

## enrollIndividualMember(loyaltyProgramName, memberDetails)

Enroll individual members in a loyalty program.

### API Version

55.0

### Requires Chatter

No

### Signature

```
public static ConnectApi.IndividualMemberOutput enrollIndividualMember(String
loyaltyProgramName, ConnectApi.IndividualMemberInput memberDetails)
```

### Parameters

*loyaltyProgramName*
Type: String

The name of the loyalty program in which the member is enrolled.

*memberDetails*
Type: ConnectApi.IndividualMemberInput

Input representation of the individual member create request.

### Return Value

Type: ConnectApi.IndividualMemberOutput

### Example

```
public class TestIndividualEnrollment {
   Map<String, String> additionalDetails = new Map<String, String>();
   ConnectApi.MemberContactInput contact = new ConnectApi.MemberContactInput();
   additionalDetails.put('PersonMailingCity', 'Delhi');
   contact.additionalContactFieldValues = additionalDetails;
   contact.lastName = 'BBBB';
   ConnectApi.IndividualMemberInput member = new ConnectApi.IndividualMemberInput();
   member.associatedContactDetails = contact;
   DateTime myDateTime = DateTime.newInstance(2021, 1, 31, 7, 8, 16);
   member.enrollmentDate = myDateTime;
   member.membershipNumber = 'abcdefg';
   member.memberStatus = 'Active';
   ConnectApi.IndividualMemberOutput output =
ConnectApi.LoyaltyManagementConnect.enrollIndividualMember('Program1',member);
}
```

## getMemberProfileUsingLoyaltyProgramMemberId(loyaltyProgramName, memberId, programCurrencyName)

Get the details of a loyalty program member using the program member ID.

### API Version

55.0

### Requires Chatter

No

### Signature

```
public static ConnectApi.MemberDetailsOutput
getMemberProfileUsingLoyaltyProgramMemberId(String loyaltyProgramName, String memberId,
String programCurrencyName)
```

### Parameters

*loyaltyProgramName*
Type: String

The name of the loyalty program.

*memberId*
Type: String

The ID of the loyalty program member.The ID of the loyalty program member.

*programCurrencyName*
Type: String

The name of the loyalty program currency associated with the member.

Use this parameter to get the details of the member's points-related information for a specific currency.

### Return Value

Type: ConnectApi.MemberDetailsOutput

### Example

```
public class TestMemberId {
   ConnectApi.MemberDetailsOutput details =
ConnectApi.LoyaltyManagementConnect.getMemberProfileUsingLoyaltyProgramMemberId('program1',
 '0lMxx00000007XlEAI', 'ruble');
}
```

## getMemberProfileUsingMembershipNumber(loyaltyProgramName, membershipNumber, programCurrencyName)

Get the details of a loyalty program member using the program membership number.

### API Version

55.0

### Requires Chatter

No

### Signature

```
public static ConnectApi.MemberDetailsOutput getMemberProfileUsingMembershipNumber(String
loyaltyProgramName, String membershipNumber, String programCurrencyName)
```

### Parameters

*loyaltyProgramName*
Type: String

The name of the loyalty program.

*membershipNumber*
Type: String

The membership number of the loyalty program member.

*programCurrencyName*
Type: String

The name of the loyalty program currency associated with the member.

Use this parameter to get the details of the member's points-related information for a specific currency.

### Return Value

Type: `ConnectApi.MemberDetailsOutput`

### Example

```
public class TestMembershipNumber {
   ConnectApi.MemberDetailsOutput details =
ConnectApi.LoyaltyManagementConnect.getMemberProfileUsingMembershipNumber('program1',
'Member15', 'ruble');
}
```

## LoyaltyVoucherConnect Methods

This is a method for `LoyaltyVoucherConnect`. Method is static.

redeem(programName, membershipNumber, voucherCode)

Redeem a voucher for a program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

redeem(programName, membershipNumber, voucherCode, amount)

Redeem partial value of a voucher for a program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

redeem(programName, membershipNumber, voucherCode, voucherNumber)

Redeem the single-use voucher for a loyalty program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

redeem(programName, membershipNumber, voucherCode, voucherNumber, amount)

Redeem partial value of a voucher for a program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

### `redeem(programName, membershipNumber, voucherCode)`

Redeem a voucher for a program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

### API Version

51.0

### Requires Chatter

Yes

### Signature

```
public static ConnectApi.RedeemVoucherOutput redeem(String programName, String
membershipNumber, String voucherCode)
```

### Parameters

*programName*
Type: String

The loyalty program name.

*membershipNumber*
Type: String

The loyalty program membership number.

*voucherCode*
Type: String

The voucher code to redeem.

Note: The voucher definition associated with the voucher code must be active to redeem the voucher.

### Status Code

Returns HTTP 201 on success.

## redeem(programName, membershipNumber, voucherCode, amount)

Redeem partial value of a voucher for a program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

### API Version

53.0

### Requires Chatter

Yes

### Signature

```
public static ConnectApi.RedeemVoucherOutput redeem(String programName, String
membershipNumber, String voucherCode, ConnectApi.RedeemVoucherInput amount)
```

### Parameters

*programName*
Type: String

The loyalty program name.

*membershipNumber*
Type: String

The loyalty program membership number.

*voucherCode*
Type: String

The voucher code to redeem.

Note: The voucher definition associated with the voucher code must be active to redeem the voucher.

*amount*
Type: ConnectApi.RedeemVoucherInput on page 255

The value of the voucher to be redeemed.

### Return Value

Type: ConnectApi.RedeemVoucherOutput on page 256

### Example

```
  public class TestRedeemVoucher {
     ConnectApi.RedeemVoucherInput redeemInput = new ConnectApi.RedeemVoucherInput();
     redeemInput.redeemAmount = 10.2;
     ConnectApi.RedeemVoucherOutput output =
ConnectApi.LoyaltyVoucherConnect.redeem('DemoProgram', 'M1234', 'VC001', redeemInput);
}
```

## redeem(programName, membershipNumber, voucherCode, voucherNumber)

Redeem the single-use voucher for a loyalty program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

### API Version

55.0

### Requires Chatter

No

### Signature

```
public static ConnectApi.RedeemVoucherOutput redeem(String programName, String
membershipNumber, String voucherCode, String voucherNumber)
```

### Parameters

*programName*
Type: String

Description

*membershipNumber*
Type: String

Description

*voucherCode*
Type: String

Description

*voucherNumber*
Type: String

Description

### Return Value

Type: ConnectApi.RedeemVoucherOutput

### Example

```
  public class TestRedeemVoucher {
     ConnectApi.RedeemVoucherOutput output =
ConnectApi.LoyaltyVoucherConnect.redeem('DemoProgram', 'M1234', 'VC001', '00000006');
}
```

## redeem(programName, membershipNumber, voucherCode, voucherNumber, amount)

Redeem partial value of a voucher for a program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

### API Version

55.0

### Requires Chatter

No

### Signature

```
public static ConnectApi.RedeemVoucherOutput redeem(String programName, String
membershipNumber, String voucherCode, String voucherNumber, ConnectApi.RedeemVoucherInput
amount)
```

### Parameters

*programName*
Type: String

The loyalty program name.

*membershipNumber*
Type: String

The loyalty program membership number.

*voucherCode*
Type: String

The voucher code to redeem.

Note: The voucher definition associated with the voucher code must be active to redeem the voucher.

*voucherNumber*
Type: String

The auto-generated voucher number.

*amount*
Type: `ConnectApi.RedeemVoucherInput`

The value of the voucher to be redeemed.

### Return Value

Type: `ConnectApi.RedeemVoucherOutput`

### Example

```
  public class TestRedeemVoucher {
     ConnectApi.RedeemVoucherInput redeemInput = new ConnectApi.RedeemVoucherInput();
     redeemInput.redeemAmount = 10.2;
     ConnectApi.RedeemVoucherOutput output =
ConnectApi.LoyaltyVoucherConnect.redeem('DemoProgram', 'M1234', 'VC001', '00000006',
redeemInput);
}
```

## Input Classes

These are Loyalty Management Apex input classes.

ConnectApi.CorporateMemberInput
Input representation of the corporate member create request.

ConnectApi.IndividualMemberInput
Input representation of the individual member create request.

ConnectApi.MemberAccountInput
Input representation of the loyalty member account.

ConnectApi.MemberContactInput
Input representation of the loyalty member contact.

ConnectApi.RedeemVoucherInput
Input representation to redeem amount from a voucher.

# ConnectApi.CorporateMemberInput

Input representation of the corporate member create request.

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalMemberFieldValues` | Map<String, String> | The custom attributes of the member in the loyalty program member record.<br>• `Keys`<br>• `Values` | Optional | 55.0 |
| `associatedAccountDetails` | [illegible] | The account details of the member. | Required | 55.0 |
| `canReceivePartnerPromotions` | Boolean | Indicates whether the member can receive partner promotions for the program (`true`) or not (`false`). | Optional | 55.0 |
| `canReceivePromotions` | Boolean | Indicates whether the member can receive promotions for the program (`true`) or not (`false`). | Optional | 55.0 |
| `createTransactionJournals` | Boolean | Indicates whether to create the transaction journal records (`true`) or not (`false`).<br>The transaction journals records are created to:<br>• Credit points to the member for enrolling in the loyalty program.<br>• Credit points to the member who has referred the corporate member. | Optional | 55.0 |
| `enrollmentChannel` | `ConnectApi.EnrollmentChannelResource` | The channel used by members to enroll into the loyalty program.<br>Possible values are:<br>• `CallCenter`<br>• `Email`<br>• `Franchise`<br>• `Mobile`<br>• `Partner`<br>• `Pos`<br>• `Print`<br>• `Social`<br>• `Store`<br>• `Web` | Optional | 55.0 |

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `enrollmentDate` | Datetime | The date on which a member is enrolled. The format is: `YYYY-MM-DDTHH:MM:SS`. | Required | 55.0 |
| `memberStatus` | String | The status of the member.<br>Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Custom value` | Required | 55.0 |
| `membershipEndDate` | Datetime | The date on which the loyalty program member's membership ends. | Optional | 55.0 |
| `membershipNumber` | String | The unique membership number of the loyalty program member. | Required | 55.0 |
| `referredBy` | String | The membership number of the loyalty program member who has referred the member. | Optional | 55.0 |
| `transactionJournalStatementFrequency` | `ConnectApi.StatementFrequencyResource` | The frequency at which transaction journal statement must be delivered to the member.<br>Possible values are:<br>• `Monthly`<br>• `Quaterly` | Optional | 55.0 |
| `transactionJournalStatementMethod` | `ConnectApi.StatementMethodResource` | The method used to deliver transaction journal statements to the member.<br>Possible values are:<br>• `Email`<br>• `Mail` | Optional | 55.0 |

## ConnectApi.IndividualMemberInput

Input representation of the individual member create request.

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalMemberFieldValues` | Map<String, String> | The custom field values in the loyalty program member record.<br>• `Keys`<br>• `Values` | Required | 55.0 |

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| associatedContactDetails | ConnectApi.LoyaltyContactInputRepresentation | The contact record of the individual type member. | Required | 55.0 |
| canReceivePartnerPromotions | Boolean | Indicates whether the member can receive partner promotions for the program (true) or not (false). | Optional | 55.0 |
| canReceivePromotions | Boolean | Indicates whether the member can receive promotions for the program (true) or not (false). | Optional | 55.0 |
| createTransactionJournals | Boolean | Indicates whether to create the transaction journal records (true) or not (false).<br>The transaction journal records are created to:<br>• Credit points to the individual member for enrolling in the loyalty program.<br>• Credit points to the member who has referred the individual member. | Optional | 55.0 |
| enrollmentChannel | ConnectApi.EnrollmentChannelResource | The channel used by members to enroll into the loyalty program.<br>Possible values are:<br>• CallCenter<br>• Email<br>• Franchise<br>• Mobile<br>• Partner<br>• Pos<br>• Print<br>• Social<br>• Store<br>• Web | Optional | 55.0 |
| enrollmentDate | Datetime | The date on which a member is enrolled. The format is: YYYY-MM-DDTHH:MM:SS. | Required | 55.0 |
| memberStatus | String | The status of the member.<br>Possible values are:<br>• Active<br>• Inactive<br>• Custom value | Required | 55.0 |

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| membershipEndDate | Datetime | The date on which the loyalty program member's membership ends. | Optional | 55.0 |
| membershipNumber | String | The unique membership number of the loyalty program member. | Required | 55.0 |
| referredBy | String | The membership number of the loyalty program member who has referred the member. | Optional | 55.0 |
| relatedCorporateMembershipNumber | String | The external corporate membership of the member. | Optional | 55.0 |
| transactionJournalStatementFrequency | ConnectApi.StatementFrequencyResource | The frequency at which transaction journal statement must be delivered to the member.<br>Possible values are:<br>• Monthly<br>• Quaterly | Optional | 55.0 |
| transactionJournalStatementMethod | ConnectApi.StatementMethodResource | The method used to deliver transaction journal statements to the member.<br>Possible values are:<br>• Email<br>• Mail | Optional | 55.0 |

## ConnectApi.MemberAccountInput

Input representation of the loyalty member account.

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| additionalAccountFieldValues | Map<String, String> | The additional attribute values that must be saved in the account record. | Optional | 55.0 |
| allowDuplicateRecords | Boolean | Indicates whether a duplicate member record can be created when a record with identical details already exists (true) or not (false). | Optional | 55.0 |
| name | String | The name of the account. | Required | 55.0 |
| phone | String | The phone number associated with the account. | Optional | 55.0 |
| website | String | The website associated with the account. | Optional | 55.0 |

## ConnectApi.MemberContactInput

Input representation of the loyalty member contact.

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalContactFieldValues` | Map<String, String> | The additional attributes that must be saved in the person account. | Optional | 55.0 |
| `allowDuplicateRecords` | Boolean | Indicates whether a duplicate record can be created for a member when an existing person account record already exists (`true`) or not (`false`). | Optional | 55.0 |
| `email` | String | The email ID of the contact. | Optional | 55.0 |
| `firstName` | String | The first name of the contact. | Optional | 55.0 |
| `lastName` | String | The last name of the contact. | Required | 55.0 |

## ConnectApi.RedeemVoucherInput

Input representation to redeem amount from a voucher.

| Property | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `currencyIsoCode` | String | Three-letter ISO 4217 currency code of the monetary currency in which the voucher is redeemed. | Optional | 55.0 |
| `redeemAmount` | Double | The value of the voucher to be redeemed. Specify this amount when the associated voucher definition is partially redeemable and is of the type Fixed Value. | Optional | 53.0 |

# Output Classes

These are Loyalty Management Apex output classes.

ConnectApi.MemberBenefitsOutput
Output representation of all benefits available for a member.

ConnectApi.MemberBenefitOutput
Output representation of an individual benefit available for a member.

ConnectApi.RedeemVoucherOutput
Output representation of a voucher redemption.

ConnectApi.CorporateMemberOutput
Output representation of the corporate member enrollment create request.

ConnectApi.IndividualMemberOutput
Output representation of the individual member create request.

ConnectApi.MemberAccountOutput
Output representation of the details of a loyalty program member's associated account record.

ConnectApi.MemberContactOutput
Output representation of the details of a loyalty program member's associated contact record.

ConnectApi.MemberDetailsOutput
Output representation of the details of a loyalty program member.

ConnectApi.MemberCurrencyOutput
Output representation of the details of the loyalty program member's associated currencies.

ConnectApi.MemberTierOutput
Output representation of the details of the loyalty program member's associated tiers.

ConnectApi.TransactionJournalOutput
Output representation of the transaction journal records.

## ConnectApi.MemberBenefitsOutput

Output representation of all benefits available for a member.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| `memberBenefits` | List<`ConnectApi.MemberBenefitOutput`> | List of all benefits available for a member. | 51.0 |

## ConnectApi.MemberBenefitOutput

Output representation of an individual benefit available for a member.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| `benefitId` | String | ID of the benefit available for the member. | 51.0 |
| `benefitName` | String | The name of the benefit available for the member. | 51.0 |
| `benefitTypeId` | String | ID of the associated benefit type record. | 51.0 |
| `benefitTypeName` | String | The name of the associated benefit type. | 51.0 |
| `createdRecordId` | String | ID of the record created during benefit assignment. | 51.0 |
| `createdRecordName` | String | The display name of the record created during benefit assignment. | 51.0 |
| `isActive` | Boolean | Indicates whether the benefit is active. | 51.0 |

## ConnectApi.RedeemVoucherOutput

Output representation of a voucher redemption.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| `remainingAmount` | Double | The voucher value after redemption.<br>Note: If the complete value of the voucher is redeemed, the remaining amount is zero. | 53.0 |
| `currencyIsoCode` | String | Three-letter ISO 4217 currency code of the remaining voucher value.<br>Note: If `multicurrency` isn't enabled, the currency code is set to the default currency code of an org. | 56.0 |

## ConnectApi.CorporateMemberOutput

Output representation of the corporate member enrollment create request.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| `accountId` | String | The ID of the account record associated with the loyalty program member record. | 55.0 |
| `loyaltyProgramMemberId` | String | The ID of the loyalty program member record created for the corporate member. | 55.0 |
| `loyaltyProgramName` | String | The name of the loyalty program in which the corporate member is enrolled. | 55.0 |
| `membershipNumber` | String | The membership number created for the loyalty program member record. | 55.0 |
| `transactionJournals` | List<ConnectApi.TransactionJournalOutput> | The list of the transaction journal records created after the request is successful. | 55.0 |

## ConnectApi.IndividualMemberOutput

Output representation of the individual member create request.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| `contactId` | String | The ID of the loyalty program member record created for the individual member. | 55.0 |
| `loyaltyProgramMemberId` | String | The ID of the contact record associated with the loyalty program member record. | 55.0 |
| `loyaltyProgramName` | String | The name of the loyalty program in which the individual member is enrolled. | 55.0 |
| `membershipNumber` | String | The membership number created for the loyalty program member record. | 55.0 |

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| transactionJournals | List<ConnectApi.TransactionJournalOutput> | The list of the transaction journal records created after the request is successful. | 55.0 |

## ConnectApi.MemberAccountOutput

Output representation of the details of a loyalty program member's associated account record.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| accountId | String | The ID of the associated account record. | 55.0 |
| name | String | The name of the associated account. | 55.0 |

## ConnectApi.MemberContactOutput

Output representation of the details of a loyalty program member's associated contact record.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| contactId | String | The ID of the associated contact record. | 55.0 |
| email | String | The email of the associated contact. | 55.0 |
| firstName | String | The first name of the associated contact. | 55.0 |
| lastName | String | The last name of the associated contact. | 55.0 |

## ConnectApi.MemberDetailsOutput

Output representation of the details of a loyalty program member.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| additionalLoyaltyProgramMemberFields | Map<String, Object> | The details of the custom fields added in the loyalty program member object. | 55.0 |
| associatedAccount | ConnectApi.MemberAccountOutput | The details of the account record associated with the loyalty program member. | 55.0 |
| associatedContact | ConnectApi.MemberContactOutput | The details of the contact record associated with the loyalty program member. | 55.0 |
| canReceivePartnerPromotions | Boolean | Indicates whether the loyalty program member can receive partner promotions (`true`) or not (`false`). | 55.0 |
| canReceivePromotions | Boolean | Indicates whether the loyalty program member can receive promotions `true`) or not (`false`). | 55.0 |
| enrollmentChannel | String | The channel used by the member to enroll in the loyalty program. | 55.0 |

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| enrollmentDate | Datetime | The date on which the member enrolled in the loyalty program. | 55.0 |
| groupCreatedByMember | String | The membership number of the loyalty program member who created the group. | 55.0 |
| groupName | String | The name of the group to which the member belongs. | 55.0 |
| lastActivityDate | Datetime | The date on which the member performed their last activity. | 55.0 |
| loyaltyProgramMemberId | String | The ID of the loyalty program member. | 55.0 |
| loyaltyProgramName | String | The name of the loyalty program. | 55.0 |
| memberCurrencies | List<ConnectApi.MemberCurrencyOutput> | The currencies associated with the loyalty program member. | 55.0 |
| memberStatus | String | The status of the loyalty program member. | 55.0 |
| memberTiers | List<ConnectApi.MemberTierOutput> | The tiers associated with the loyalty program member. | 55.0 |
| memberType | String | The type of loyalty program member. | 55.0 |
| membershipEndDate | Datetime | The date on which the membership ends. | 55.0 |
| membershipLastRenewalDate | Datetime | The date on which the loyalty program member last renewed their membership. | 55.0 |
| membershipNumber | String | The membership number of the loyalty program member. | 55.0 |
| referredBy | String | The membership number of the loyalty program member who referred the member to the loyalty program. | 55.0 |
| relatedCorporateMembershipNumber | String | The membership number of the Corporate type loyalty program member associate with the member. | 55.0 |
| transactionJournalStatementFrequency | String | The frequency at which transaction journal statements must be delivered to the member. | 55.0 |
| transactionJournalStatementLastGeneratedDate | Datetime | The date on which the member's last transaction journal statement was generated. | 55.0 |
| transactionJournalStatementMethod | String | The method used to deliver transaction journal statements to the member. | 55.0 |

# ConnectApi.MemberCurrencyOutput

Output representation of the details of the loyalty program member's associated currencies.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| additionalLoyaltyMemberCurrencyFields | Map<String, Object> | The details of the custom fields added in the Loyalty Member Currency object. | 55.0 |
| escrowPointsBalance | Double | The escrow points balance of the member for the currency. | 55.0 |
| expirablePoints | Double | The number of points that the member hasn't redeemed for the currency. | 55.0 |
| lastAccrualProcessedDate | Datetime | The date on which the member's accruals for the currency were last processed. | 55.0 |
| lastEscrowProcessedDate | Datetime | The date on which the member's escrow points were last rolled over to their points balance for the currency. | 55.0 |
| lastExpirationProcessRunDate | Datetime | The date on which the member's points were last expired for the currency. | 55.0 |
| lastPointsAggregationDate | Datetime | The date on which the member's points for the fixed type non-qualifying currency were last aggregated. | 55.0 |
| lastPointsResetDate | Datetime | The date on which the member's points for the currency were last reset. | 55.0 |
| loyaltyMemberCurrencyName | String | The name of the Loyalty Member Currency record. | 55.0 |
| loyaltyProgramCurrencyId | String | The ID of the loyalty program currency associated with the member. | 55.0 |
| loyaltyProgramCurrencyName | String | The name of the loyalty program currency associated with the member. | 55.0 |
| memberCurrencyId | String | The ID of the loyalty member currency record. | 55.0 |
| nextQualifyingPointsResetDate | Datetime | The date on which the member's points balance for the qualifying currency is reset next. | 55.0 |
| pointsBalance | Double | The points balance of the member for the currency. | 55.0 |
| qualifyingPointsBalanceBeforeReset | Double | The last point balance of the member before the member's points balance was reset to zero for the qualifying currency. | 55.0 |
| totalEscrowPointsAccrued | Double | The total number of points that the member has accrued in escrow for the currency. | 55.0 |
| totalEscrowRolloverPoints | Double | The total number of points that has rolled over from the member's escrow point balance to the member's points balance for the currency. | 55.0 |

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| totalPointsAccrued | Double | The total number of points the member has accrued for the currency. | 55.0 |
| totalPointsExpired | Double | The total number of points that have expired for the member. | 55.0 |
| totalPointsRedeemed | Double | The total number of points the member has redeemed for the currency. | 55.0 |

## ConnectApi.MemberTierOutput

Output representation of the details of the loyalty program member's associated tiers.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| additionalLoyaltyMemberTierFields | Map<String, Object> | The details of the custom fields added in the Loyalty Member Tier object. | 55.0 |
| areTierBenefitsAssigned | Boolean | Indicates whether the benefits associated with the tier have been assigned to the member (`true`) or not (`false`). | 55.0 |
| loyaltyMemberTierId | String | The tier ID associated with the loyalty program member. | 55.0 |
| loyaltyMemberTierName | String | The name of the loyalty member tier. | 55.0 |
| tierChangeReason | String | The reason why the member's was assigned the current tier. | 55.0 |
| tierChangeReasonType | String | The reason type why the member's was assigned the current tier. | 55.0 |
| tierEffectiveDate | Datetime | The date on which the member was assigned the tier. | 55.0 |
| tierExpirationDate | Datetime | The date on which the member's current tier expires. | 55.0 |
| tierGroupId | String | The ID of the tier group associated with the Loyalty Tier record. | 55.0 |
| tierGroupName | String | The name of the tier group. | 55.0 |
| tierId | String | The ID of the loyalty tier record. | 55.0 |
| tierSequenceNumber | Integer | The sequence number of the tier. | 55.0 |

## ConnectApi.TransactionJournalOutput

Output representation of the transaction journal records.

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| `activityDate` | Datetime | The date and time of when the transaction journal record is created. | 55.0 |
| `journalSubType` | String | The journal subtype of the transaction journal record. | 55.0 |
| `journalType` | String | The journal type of the transaction journal record. | 55.0 |
| `loyaltyProgram` | String | The loyalty program associated with the transaction journal record. | 55.0 |
| `loyaltyProgramMember` | String | The membership number of the loyalty program member associated with the transaction journal record. | 55.0 |
| `referredMember` | String | The membership number of the loyalty program member who has referred the member. | 55.0 |
| `status` | `ConnectApi.JournalStatusResource` | The status of the transaction journal record.<br>Possible values are:<br>• `Cancelled`<br>• `Error`<br>• `Pending`<br>• `Processed` | 55.0 |
| `transactionJournalId` | String | The ID of the transaction journal record created after the request is successful. | 55.0 |

## `ConnectApi` Enums

Enums specific to the `ConnectApi` namespace.

`ConnectApi` enums inherit all properties and methods of Apex enums.

Enums are not versioned. Enum values are returned in all API versions. Clients should handle values they don't understand gracefully.

| Enum | Description |
|---|---|
| `ConnectApi.EnrollmentChannelResource` | Type of loyalty member enrollment channel.<br>• `CallCenter`<br>• `Email`<br>• `Franchise`<br>• `Mobile`<br>• `Partner`<br>• `Pos`<br>• `Print`<br>• `Social`<br>• `Store` |

| Enum | Description |
| --- | --- |
| | • `Web` |
| `ConnectApi.JournalStatusResource` | Type of journal transaction status.<br>• `Cancelled`<br>• `Error`<br>• `Pending`<br>• `Processed` |
| `ConnectApi.StatementFrequencyResource` | Type of statement generation frequency.<br>• `Monthly`<br>• `Quaterly` |
| `ConnectApi.StatementMethodResource` | Type of statement delivery method.<br>• `Email`<br>• `Mail` |

# LoyaltyManagement Namespace

The `LoyaltyManagement` namespace provides Apex classes and methods to run the Loyalty Management actions.

Use the developer console to invoke these classes and methods. For more information, see Open the Developer Console.

Tip: You can also choose to use the classes and methods of the Invocable namespace to call the Loyalty Management invocable actions from Apex.

The following are the classes in the `LoyaltyManagement` namespace.

CdpBasedLoyaltyPromotionInput Class

Use this class to retrieve promotions that are eligible for a member based on the member's market segment. This class receives the input parameter values for the Data Cloud based Loyalty Promotion action.

CdpBasedLoyaltyPromotionInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.CdpBasedLoyaltyPromotionInput` class.

CdpBasedLoyaltyPromotionOutput Class

Represents the promotion records that the member is eligible for based on the member's Data Cloud market segment.

ChangeTierInput Class

Use this class to change the tier for a given loyalty program member. This class receives the input parameter values for the Change Tier action.

ChangeTierInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.ChangeTierInput` class.

ChangeTierOutput Class

Represents the changed tier details for a loyalty program member.

CreditPointsOutput Class

Represents the details of points credited to a loyalty program member's balance.

DebitPointsOutput Class

Represents the details of points debited from a loyalty program member's balance.

GetMemberActiveSegmentsInput Class

Use this class to retrieve active Data Cloud market segments that a loyalty program member is part of. This class receives the input parameter values for the Get Member's Active Segments action.

GetMemberActiveSegmentsInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.GetMemberActiveSegmentsInput` class.

GetMemberActiveSegmentsOutput Class

Represents the ist of the active segment IDs that the specified loyalty program member is a part of.

IssueVoucherInput Class

Use this class to issue a voucher to a loyalty program member. This class receives the input parameter values for the Issue Voucher action.

IssueVoucherInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.IssueVoucherInput` class.

IssueVoucherOutput Class

Represents the voucher ID issued to a loyalty program member.

LoyaltyActionError Class

A class that contains the errors related to the execution of a Loyalty Management action.

LoyaltyActionResult Class

A class that contains the result returned by a loyalty action.

LoyaltyPromotionInput Class

Use this class to retrieve active promotions that are eligible for a transaction journal. The action can process accrual or redemption transactions. This class receives the input parameter values for the Loyalty Promotion action.

LoyaltyPromotionInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.LoyaltyPromotionInput` class.

LoyaltyPromotionOutput Class

Represents the active promotions based on the specified transaction journal.

LoyaltyResources Class

A class that executes a loyalty action and returns a result. Takes the input classes as input and returns the objects of output classes.

MemberPointBalanceInput Class

Use this class to retrieve loyalty points balance for a given loyalty program member. This class receives the input parameter values for the Get Member Points action.

MemberPointBalanceInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.MemberPointsBalanceInput` class.

MemberPointBalanceOutput Class

Represents the loyalty points balance for a specified loyalty program member.

MemberTierInput Class

Use this class to retrieve the current tier for a specified loyalty program member. This class receives the input parameter values for the Get Member Tier action.

MemberTierInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.MemberTierInput` class.

MemberTierOutput Class

Represents the tier details for a specified loyalty program member.

PointsInput Class

Use this class to credit loyalty points to a loyalty program member's balance or debit loyalty points from a loyalty program member's balance. This class receives the input parameter values for the Credit and Debit point actions.

PointsInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.PointsInput` class.

TransferMemberPointsToGroupsInput Class

Use this class to transfer points from an individual member or a corporate member to the member's associated group. This class receives the input parameter values for the Transfer Member Points To Groups action.

TransferMemberPointsToGroupsInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.TransferMemberPointsToGroupsInput` class.

UpdateCumulativeUsageCompletedInput Class

Use this class to update the progress made by a loyalty program member towards attaining a Cumulative type promotion. The action creates a Loyalty Program Member Promotion record if the promotion isn't associated with the member. This class receives the input parameter values for the Update Cumulative Usage Completed action.

UpdateCumulativeUsageCompletedOutput Class

Represents the details of the progress made by a loyalty program member towards attaining a Cumulative type promotion.

# CdpBasedLoyaltyPromotionInput Class

Use this class to retrieve promotions that are eligible for a member based on the member's market segment. This class receives the input parameter values for the Data Cloud based Loyalty Promotion action.

## Namespace

LoyaltyManagement

## Example

```
public static void getCdpBasedLoyaltyPromotionsTest() {
   //...Create a list with LoyaltyManagement.CdpBasedLoyaltyPromotionInput as a datatype
   List<LoyaltyManagement.CdpBasedLoyaltyPromotionInput> loyaltyPromotionInputList = new
List<LoyaltyManagement.CdpBasedLoyaltyPromotionInput>();

   //...Create an instance of the list object and set the input values
   loyaltyPromotionInputList.add(new LoyaltyManagement.CdpBasedLoyaltyPromotionInput input
 = new LoyaltyManagement.CdpBasedLoyaltyPromotionInputBuilder()
      .setMemberId('0lMRM0000002BD12AM')
      .setPromotions(new List<sObject>{'0c8R000000002MqIAI', '0c8R000000002PqIAI'})
      .build());

   //...Pass the list that contains the input values to the
```

```
LoyaltyResources.getLoyaltyPromotionBasedOnSalesforceCDP() function.
   //...Store the output returned by the function in the CdpBasedLoyaltyPromotionOutput
object
   List<LoyaltyManagement.CdpBasedLoyaltyPromotionOutput> results =
LoyaltyManagement.LoyaltyResources.getLoyaltyPromotionBasedOnSalesforceCDP(loyaltyPromotionInputList);

   System.debug('Get Cdp Based Promotions:'+ results.get(0).isSuccess());
}
```

# CdpBasedLoyaltyPromotionInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.CdpBasedLoyaltyPromotionInput` class.

## Namespace

LoyaltyManagement

CdpBasedLoyaltyPromotionInputBuilder Methods

## CdpBasedLoyaltyPromotionInputBuilder Methods

The following are methods for `CdpBasedLoyaltyPromotionInputBuilder`.

build()
Returns an instance of the `LoyaltyManagement.CdpBasedLoyaltyPromotionInput` object.

setMemberId(memberId)
Represents the ID of a loyalty program member for whom promotions must be filtered. This is a required field. Ensure that the member is part of a Data Cloud market segment.

setPromotions(promotions)
Represents the promotion records to filter the promotions that are applicable to the member's market segment.

### `build()`

Returns an instance of the `LoyaltyManagement.CdpBasedLoyaltyPromotionInput` object.

#### Signature

```
public LoyaltyManagement.CdpBasedLoyaltyPromotionInput build()
```

#### Return Value

Type: LoyaltyManagement.CdpBasedLoyaltyPromotionInput

### `setMemberId(memberId)`

Represents the ID of a loyalty program member for whom promotions must be filtered. This is a required field. Ensure that the member is part of a Data Cloud market segment.

### Signature

```
public LoyaltyManagement.CdpBasedLoyaltyPromotionInputBuilder setMemberId(String memberId)
```

### Parameters

*memberId*
Type: String

### Return Value

Type: LoyaltyManagement.CdpBasedLoyaltyPromotionInputBuilder

#### setPromotions(promotions)

Represents the promotion records to filter the promotions that are applicable to the member's market segment.

### Signature

```
public LoyaltyManagement.CdpBasedLoyaltyPromotionInputBuilder setPromotions(List<SObject> promotions)
```

### Parameters

*promotions*
Type: List<SObject>

### Return Value

Type: LoyaltyManagement.CdpBasedLoyaltyPromotionInputBuilder

## CdpBasedLoyaltyPromotionOutput Class

Represents the promotion records that the member is eligible for based on the member's Data Cloud market segment.

## Namespace

LoyaltyManagement

CdpBasedLoyaltyPromotionOutput Methods

## CdpBasedLoyaltyPromotionOutput Methods

The following are methods for `CdpBasedLoyaltyPromotionOutput`.

getErrors()
If an error occurred, returns a list providing the error code and description.

getPromotions()
Returns a List of sObject data type that contains the promotion records.

isSuccess()
Returns a Boolean that is set to true if the Data Cloud based loyalty promotion operation was successful for this object, false otherwise.

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

#### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `getPromotions()`

Returns a List of sObject data type that contains the promotion records.

#### Signature

```
public List<SObject> getPromotions()
```

#### Return Value

Type: List<SObject>

### `isSuccess()`

Returns a Boolean that is set to true if the Data Cloud based loyalty promotion operation was successful for this object, false otherwise.

#### Signature

```
public Boolean isSuccess()
```

#### Return Value

Type: Boolean

## ChangeTierInput Class

Use this class to change the tier for a given loyalty program member. This class receives the input parameter values for the Change Tier action.

## Namespace

LoyaltyManagement

## Example

```
public void changeTierTest(){
   //...Create a list with LoyaltyManagement.ChangeTierInput as a datatype
   List<LoyaltyManagement.ChangeTierInput> changeTierList = new
List<LoyaltyManagement.ChangeTierInput>();

   //...Create an instance of the list object and set the input values
   changeTierList.add(new LoyaltyManagement.ChangeTierInputBuilder()
      .setLoyaltyProgramMemberId('01cxx00006000001AAA')
      .setProgramName('baProgram')
      .setTierGroupName('QualifyingGroup')
      .setTargetTierName('Gold')
      .setChangeReason('Reason for change.')
      .build());

   //...Pass the list that contains the input values to the LoyaltyResources.changeTier()
 function.
   //...Store the output returned by the function in the ChangeTierOutput object
   List<LoyaltyManagement.ChangeTierOutput> changeTierActionResults =
LoyaltyManagement.LoyaltyResources.changeTier(changeTierList);
   System.debug('Change Tier Successful Operation:'+
changeTierActionResults.get(0).isSuccess());
}
```

# ChangeTierInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.ChangeTierInput` class.

## Namespace

LoyaltyManagement

ChangeTierInputBuilder Methods

## ChangeTierInputBuilder Methods

The following are methods for `ChangeTierInputBuilder`.

build()

Returns an instance of the `LoyaltyManagement.ChangeTierInput` object.

setChangeReason(changeReason)

Represents the reason to change a member tier.

setLoyaltyProgramMemberId(loyaltyProgramMemberId)

Represents the ID of the loyalty program member. This is a required field.

setProgramName(programName)

Represents the loyalty program name associated with the tier. This is a required field.

setTargetTierName(targetTierName)

Represents the new tier to associate with the loyalty program member. This is a required field.

setTierGroupName(tierGroupName)

Represents the name of the loyalty tier group. This is a required field.

### build()

Returns an instance of the `LoyaltyManagement.ChangeTierInput` object.

#### Signature

```
public LoyaltyManagement.ChangeTierInput build()
```

#### Return Value

Type: LoyaltyManagement.ChangeTierInput

### setChangeReason(changeReason)

Represents the reason to change a member tier.

#### Signature

```
public LoyaltyManagement.ChangeTierInputBuilder setChangeReason(String changeReason)
```

#### Parameters

*changeReason*
Type: String

#### Return Value

Type: LoyaltyManagement.ChangeTierInputBuilder

### setLoyaltyProgramMemberId(loyaltyProgramMemberId)

Represents the ID of the loyalty program member. This is a required field.

#### Signature

```
public LoyaltyManagement.ChangeTierInputBuilder setLoyaltyProgramMemberId(String
loyaltyProgramMemberId)
```

#### Parameters

*loyaltyProgramMemberId*
Type: String

### Return Value

Type: LoyaltyManagement.ChangeTierInputBuilder

#### `setProgramName(programName)`

Represents the loyalty program name associated with the tier. This is a required field.

### Signature

```
public LoyaltyManagement.ChangeTierInputBuilder setProgramName(String programName)
```

### Parameters

*programName*
Type: String

### Return Value

Type: LoyaltyManagement.ChangeTierInputBuilder

#### `setTargetTierName(targetTierName)`

Represents the new tier to associate with the loyalty program member. This is a required field.

### Signature

```
public LoyaltyManagement.ChangeTierInputBuilder setTargetTierName(String targetTierName)
```

### Parameters

*targetTierName*
Type: String

### Return Value

Type: LoyaltyManagement.ChangeTierInputBuilder

#### `setTierGroupName(tierGroupName)`

Represents the name of the loyalty tier group. This is a required field.

### Signature

```
public LoyaltyManagement.ChangeTierInputBuilder setTierGroupName(String tierGroupName)
```

### Parameters

*tierGroupName*
Type: String

### Return Value

Type: LoyaltyManagement.ChangeTierInputBuilder

# ChangeTierOutput Class

Represents the changed tier details for a loyalty program member.

## Namespace

LoyaltyManagement

ChangeTierOutput Methods

## ChangeTierOutput Methods

The following are methods for `ChangeTierOutput`.

getErrors()
If an error occurred, returns a list providing the error code and description.

getLoyaltyProgramMemberId()
Returns a String that contains the loyalty program member ID.

getMemberTier()
Returns a String that contains the tier associated with the loyalty program member.

getProgramName()
Returns a String that contains the loyalty program name.

getTierGroupName()
Returns a String that contains the loyalty tier group name.

isSuccess()
Returns a Boolean that is set to true if the change tier operation was successful for this object, false otherwise.

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `getLoyaltyProgramMemberId()`

Returns a String that contains the loyalty program member ID.

### Signature

```
public String getLoyaltyProgramMemberId()
```

### Return Value

Type: String

#### `getMemberTier()`

Returns a String that contains the tier associated with the loyalty program member.

### Signature

```
public String getMemberTier()
```

### Return Value

Type: String

#### `getProgramName()`

Returns a String that contains the loyalty program name.

### Signature

```
public String getProgramName()
```

### Return Value

Type: String

#### `getTierGroupName()`

Returns a String that contains the loyalty tier group name.

### Signature

```
public String getTierGroupName()
```

### Return Value

Type: String

#### `isSuccess()`

Returns a Boolean that is set to true if the change tier operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

# CreditPointsOutput Class

Represents the details of points credited to a loyalty program member's balance.

## Namespace

LoyaltyManagement

CreditPointsOutput Methods

## CreditPointsOutput Methods

The following are methods for `CreditPointsOutput`.

getCurrencyName()
Returns a String that contains the name of the program currency.

getErrors()
If an error occurred, returns a list providing the error code and description.

getJournalId()
Returns a String that contains the ID of the transaction journal.

getLoyaltyProgramMemberId()
Returns a String that contains the ID of the loyalty program member.

getProgramName()
Returns a String that contains the name of the loyalty program.

isSuccess()
Returns a Boolean that is set to true if the credit points operation was successful for this object, false otherwise.

### `getCurrencyName()`

Returns a String that contains the name of the program currency.

### Signature

```
public String getCurrencyName()
```

### Return Value

Type: String

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

#### `getJournalId()`

Returns a String that contains the ID of the transaction journal.

### Signature

```
public String getJournalId()
```

### Return Value

Type: String

#### `getLoyaltyProgramMemberId()`

Returns a String that contains the ID of the loyalty program member.

### Signature

```
public String getLoyaltyProgramMemberId()
```

### Return Value

Type: String

#### `getProgramName()`

Returns a String that contains the name of the loyalty program.

### Signature

```
public String getProgramName()
```

### Return Value

Type: String

#### `isSuccess()`

Returns a Boolean that is set to true if the credit points operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

# DebitPointsOutput Class

Represents the details of points debited from a loyalty program member's balance.

## Namespace

LoyaltyManagement

DebitPointsOutput Methods

## DebitPointsOutput Methods

The following are methods for `DebitPointsOutput`.

getCurrencyName()
Returns a String that contains the name of the program currency.

getErrors()
If an error occurred, returns a list providing the error code and description.

getJournalId()
Returns a String that contains the ID of the transaction journal.

getLoyaltyProgramMemberId()
Returns a String that contains the ID of the loyalty program member.

getPoints()
Returns a Double that contains the total points available for the loyalty program member.

getProgramName()
Returns a String that contains the name of the loyalty program.

isSuccess()
Returns a Boolean that is set to true if the debit points operation was successful for this object, false otherwise.

### `getCurrencyName()`

Returns a String that contains the name of the program currency.

### Signature

```
public String getCurrencyName()
```

### Return Value

Type: String

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

#### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `getJournalId()`

Returns a String that contains the ID of the transaction journal.

#### Signature

```
public String getJournalId()
```

#### Return Value

Type: String

### `getLoyaltyProgramMemberId()`

Returns a String that contains the ID of the loyalty program member.

#### Signature

```
public String getLoyaltyProgramMemberId()
```

#### Return Value

Type: String

### `getPoints()`

Returns a Double that contains the total points available for the loyalty program member.

#### Signature

```
public Double getPoints()
```

#### Return Value

Type: Double

### `getProgramName()`

Returns a String that contains the name of the loyalty program.

### Signature

```
public String getProgramName()
```

### Return Value

Type: String

#### `isSuccess()`

Returns a Boolean that is set to true if the debit points operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

## GetMemberActiveSegmentsInput Class

Use this class to retrieve active Data Cloud market segments that a loyalty program member is part of. This class receives the input parameter values for the Get Member's Active Segments action.

## Namespace

LoyaltyManagement

## GetMemberActiveSegmentsInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.GetMemberActiveSegmentsInput` class.

## Namespace

LoyaltyManagement

GetMemberActiveSegmentsInputBuilder Methods

## GetMemberActiveSegmentsInputBuilder Methods

The following are methods for `GetMemberActiveSegmentsInputBuilder`.

build()
Returns an instance of the `LoyaltyManagement.GetMemberActiveSegmentsInput` object.

setLoyaltyProgramMemberID(loyaltyProgramMemberID)
Represents the ID of the loyalty program member to retrieve associated active segments for. This is a required field.

setSegmentIds(segmentIds)
Represents a comma-delimited list of segmentIds to retrieve for the specified member's associated segments.

### build()

Returns an instance of the `LoyaltyManagement.GetMemberActiveSegmentsInput` object.

#### Signature

```
public LoyaltyManagement.GetMemberActiveSegmentsInput build()
```

#### Return Value

Type: LoyaltyManagement.GetMemberActiveSegmentsInput

### setLoyaltyProgramMemberID(loyaltyProgramMemberID)

Represents the ID of the loyalty program member to retrieve associated active segments for. This is a required field.

#### Signature

```
public LoyaltyManagement.GetMemberActiveSegmentsInputBuilder
setLoyaltyProgramMemberID(String loyaltyProgramMemberID)
```

#### Parameters

*loyaltyProgramMemberID*
Type: String

#### Return Value

Type: LoyaltyManagement.GetMemberActiveSegmentsInputBuilder

### setSegmentIds(segmentIds)

Represents a comma-delimited list of segmentIds to retrieve for the specified member's associated segments.

#### Signature

```
public LoyaltyManagement.GetMemberActiveSegmentsInputBuilder setSegmentIds(List<String>
segmentIds)
```

#### Parameters

*segmentIds*
Type: List<String>

#### Return Value

Type: LoyaltyManagement.GetMemberActiveSegmentsInputBuilder

# GetMemberActiveSegmentsOutput Class

Represents the ist of the active segment IDs that the specified loyalty program member is a part of.

## Namespace

LoyaltyManagement

GetMemberActiveSegmentsOutput Methods

## GetMemberActiveSegmentsOutput Methods

The following are methods for `GetMemberActiveSegmentsOutput`.

getErrors()
If an error occurred, returns a list providing the error code and description.

getMemberSegmentIDs()
Returns a comma-delimited list of the active segment IDs that the specified loyalty program member is a part of.

isSuccess()
Returns a Boolean that is set to true if the get member active segments operation was successful for this object, false otherwise.

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

#### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `getMemberSegmentIDs()`

Returns a comma-delimited list of the active segment IDs that the specified loyalty program member is a part of.

Note: If input segment IDs are passed, then the response is a subset of the specified segment IDs.

#### Signature

```
public List<String> getMemberSegmentIDs()
```

#### Return Value

Type: List<String>

### `isSuccess()`

Returns a Boolean that is set to true if the get member active segments operation was successful for this object, false otherwise.

#### Signature

```
public Boolean isSuccess()
```

#### Return Value

Type: Boolean

## IssueVoucherInput Class

Use this class to issue a voucher to a loyalty program member. This class receives the input parameter values for the Issue Voucher action.

## Namespace

LoyaltyManagement

## Example

```
public void issueVoucherTest(){
   //...Create a list with LoyaltyManagement.IssueVoucherInput as a datatype
   List<LoyaltyManagement.IssueVoucherInput> issueVoucherList = new
List<LoyaltyManagement.IssueVoucherInput>();

   //...Create an instance of the list object and set the input values
   issueVoucherList.add(new
LoyaltyManagement.IssueVoucherInputBuilder().setLoyaltyProgramMemberId('0lMRM0000002BD12AM')

      .setProgramName('LP01')
      .setVoucherDefinitionName('V1')
      .setVoucherCode('demoCode')
      .setJournalId('0lVRM0000004DH22AM')
      .build());

  //...Pass the list that contains the input values to the LoyaltyResources.issueVoucher()
 function.
   //...Store the output returned by the function in the IssueVoucherOutput object
   List<LoyaltyManagement.IssueVoucherOutput> issueVoucherActionResults =
LoyaltyManagement.LoyaltyResources.issueVoucher(issueVoucherList);
   System.debug('Issue Voucher Successful Operation:'+ issueVoucherActionResults.get(0));
}
```

## IssueVoucherInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.IssueVoucherInput` class.

## Namespace

LoyaltyManagement

IssueVoucherInputBuilder Methods

## IssueVoucherInputBuilder Methods

The following are methods for `IssueVoucherInputBuilder`.

build()
Returns an instance of the `LoyaltyManagement.IssueVoucherInput` object.

setAdditionalNotes(additionalNotes)
Represents extra information about the voucher.

setBenefitId(benefitId)
Represents the benefit associated with the voucher.

setContactId(contactId)
Represents the contact associated with the loyalty program member.

setDiscountPercent(discountPercent)
Represents the discount percentage provided by the voucher.

setEffectiveDate(effectiveDate)
Represents the start date of the validity of the voucher.

setExpiryDate(expiryDate)
Represents the expiry date of the voucher.

setFaceValue(faceValue)
Represents the amount of discount provided by the voucher.

setJournalId(journalId)
Represents the transaction journal associated with the member voucher when the voucher results from accrual of points.

setLoyaltyProgramMemberId(loyaltyProgramMemberId)
Represents the ID of the loyalty program member to issue the voucher.

setProgramName(programName)
Represents the name of the loyalty program associated with the voucher.

setPromotionId(promotionId)
Represents the promotion associated with the voucher.

setVoucherCode(voucherCode)
Represents the voucher identifier generated by an external system. This is a required field.

setVoucherDefinitionName(voucherDefinitionName)
Represents the name of the voucher definition associated with the voucher code. This is a required field.

### `build()`

Returns an instance of the `LoyaltyManagement.IssueVoucherInput` object.

### Signature

```
public LoyaltyManagement.IssueVoucherInput build()
```

### Return Value

Type: LoyaltyManagement.IssueVoucherInput

#### `setAdditionalNotes(additionalNotes)`

Represents extra information about the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setAdditionalNotes(String
additionalNotes)
```

### Parameters

*additionalNotes*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setBenefitId(benefitId)`

Represents the benefit associated with the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setBenefitId(String benefitId)
```

### Parameters

*benefitId*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setContactId(contactId)`

Represents the contact associated with the loyalty program member.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setContactId(String contactId)
```

### Parameters

*contactId*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

## setDiscountPercent(discountPercent)

Represents the discount percentage provided by the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setDiscountPercent(Integer
discountPercent)
```

### Parameters

*discountPercent*
Type: Integer

The discount percentage provided by the voucher. Specify a value to override the discount percentage specified in the associated voucher definition. Specify this when the associated voucher definition is of the type Discount Percentage. This field is available in API version 53.0 and later.

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

## setEffectiveDate(effectiveDate)

Represents the start date of the validity of the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setEffectiveDate(String effectiveDate)
```

### Parameters

*effectiveDate*
Type: String

The supported date format is YYYY-MM-DD.

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

### `setExpiryDate(expiryDate)`

Represents the expiry date of the voucher.

#### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setExpiryDate(String expiryDate)
```

#### Parameters

*`expiryDate`*
Type: String

The supported date format is YYYY-MM-DD.

#### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

### `setFaceValue(faceValue)`

Represents the amount of discount provided by the voucher.

#### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setFaceValue(Double faceValue)
```

#### Parameters

*`faceValue`*
Type: Double

The amount of discount provided by the voucher. Specify a value to override the face value specified in the associated voucher definition. Specify this when the associated voucher definition is of the type Fixed Value. This field is available in API version 53.0 and later.

#### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

### `setJournalId(journalId)`

Represents the transaction journal associated with the member voucher when the voucher results from accrual of points.

#### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setJournalId(String journalId)
```

#### Parameters

*`journalId`*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setLoyaltyProgramMemberId(loyaltyProgramMemberId)`

Represents the ID of the loyalty program member to issue the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setLoyaltyProgramMemberId(String loyaltyProgramMemberId)
```

### Parameters

*loyaltyProgramMemberId*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setProgramName(programName)`

Represents the name of the loyalty program associated with the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setProgramName(String programName)
```

### Parameters

*programName*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setPromotionId(promotionId)`

Represents the promotion associated with the voucher.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setPromotionId(String promotionId)
```

### Parameters

*promotionId*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setVoucherCode(voucherCode)`

Represents the voucher identifier generated by an external system. This is a required field.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setVoucherCode(String voucherCode)
```

### Parameters

*voucherCode*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

#### `setVoucherDefinitionName(voucherDefinitionName)`

Represents the name of the voucher definition associated with the voucher code. This is a required field.

### Signature

```
public LoyaltyManagement.IssueVoucherInputBuilder setVoucherDefinitionName(String
voucherDefinitionName)
```

### Parameters

*voucherDefinitionName*
Type: String

### Return Value

Type: LoyaltyManagement.IssueVoucherInputBuilder

## IssueVoucherOutput Class

Represents the voucher ID issued to a loyalty program member.

## Namespace

LoyaltyManagement

IssueVoucherOutput Methods

## IssueVoucherOutput Methods

The following are methods for `IssueVoucherOutput`.

getErrors()
If an error occurred, returns a list providing the error code and description.

getVoucherId()
Returns the ID of the voucher that's generated after the request is successful.

isSuccess()
Returns a Boolean that is set to true if the issue voucher operation was successful for this object, false otherwise.

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

#### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `getVoucherId()`

Returns the ID of the voucher that's generated after the request is successful.

#### Signature

```
public String getVoucherId()
```

#### Return Value

Type: String

### `isSuccess()`

Returns a Boolean that is set to true if the issue voucher operation was successful for this object, false otherwise.

#### Signature

```
public Boolean isSuccess()
```

#### Return Value

Type: Boolean

# LoyaltyActionError Class

A class that contains the errors related to the execution of a Loyalty Management action.

## Namespace

LoyaltyManagement

## Example

```
public void creditPointsTestError(){
   List<LoyaltyManagement.PointsInput> creditPointsList = new
List<LoyaltyManagement.PointsInput>();
   creditPointsList.add(new LoyaltyManagement.PointsInputBuilder()
      .setLoyaltyProgramMemberId('0lMRM0000002BD12AM')
      .setProgramName('LP01')
      .setProgramCurrencyName('Miles')
      .setPoints(1200)
      .setJournalId('0lVT10000008CnlMAE')
      .build());
   List<LoyaltyManagement.CreditPointsOutput> creditPointActionResults =
LoyaltyManagement.LoyaltyResources.creditPoints(creditPointsList);
   System.debug('Is Succcess:'+ creditPointActionResults.get(0).isSuccess());
   System.debug('Errors:'+ creditPointActionResults.get(0).getErrors());
}
```

LoyaltyActionError Constructors

LoyaltyActionError Methods

## LoyaltyActionError Constructors

The following are constructors for `LoyaltyActionError`.

LoyaltyActionError(code, message)

Creates an instance of the `LoyaltyManagement.LoyaltyActionError` class.

### `LoyaltyActionError(code, message)`

Creates an instance of the `LoyaltyManagement.LoyaltyActionError` class.

#### Signature

```
public LoyaltyActionError(String code, String message)
```

#### Parameters

*code*

Type: String

The error code.

*message*
Type: String

The error message.

## LoyaltyActionError Methods

The following are methods for `LoyaltyActionError`.

getCode()
Returns a String that contains an error code.

getMessage()
Returns a String that contains an error description.

### getCode()

Returns a String that contains an error code.

#### Signature

```
public String getCode()
```

#### Return Value

Type: String

### getMessage()

Returns a String that contains an error description.

#### Signature

```
public String getMessage()
```

#### Return Value

Type: String

# LoyaltyActionResult Class

A class that contains the result returned by a loyalty action.

## Namespace

LoyaltyManagement

LoyaltyActionResult Methods

## LoyaltyActionResult Methods

The following are methods for `LoyaltyActionResult`.

getErrors()
If an error occurred, returns a `LoyaltyManagement.LoyaltyActionError` object providing the error code and description.

isSuccess()
Returns a Boolean that is set to true if the Loyalty Management action operation was successful for this object, false otherwise.

### `getErrors()`

If an error occurred, returns a `LoyaltyManagement.LoyaltyActionError` object providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

#### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `isSuccess()`

Returns a Boolean that is set to true if the Loyalty Management action operation was successful for this object, false otherwise.

#### Signature

```
public Boolean isSuccess()
```

#### Return Value

Type: Boolean

# LoyaltyPromotionInput Class

Use this class to retrieve active promotions that are eligible for a transaction journal. The action can process accrual or redemption transactions. This class receives the input parameter values for the Loyalty Promotion action.

## Namespace

LoyaltyManagement

## Example

```
public static void getLoyaltyPromotionsTest() {
   //...Create a list with 'LoyaltyManagement.LoyaltyPromotionInput' as a datatype
   List<LoyaltyManagement.LoyaltyPromotionInput> loyaltyPromotionInputList = new
List<LoyaltyManagement.LoyaltyPromotionInput>();
```

```
   //...Create an instance of the list object and set the input values
   loyaltyPromotionInputList.add(new LoyaltyManagement.LoyaltyPromotionInput input = new
LoyaltyManagement.LoyaltyPromotionInputBuilder()
      .setJournalId('0lVRM0000004DH22AM')
      .build());

   //...Pass the list that contains the input values to the
'LoyaltyResources.getLoyaltyPromotions()' function.
   //...Store the output returned by the function in the 'LoyaltyPromotionOutput' object
   List<LoyaltyManagement.LoyaltyPromotionOutput> results =
LoyaltyManagement.LoyaltyResources.getLoyaltyPromotions(loyaltyPromotionInputList);
   System.debug('Get Loyalty Promotions:'+ results.get(0).isSuccess());
}
```

# LoyaltyPromotionInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.LoyaltyPromotionInput` class.

## Namespace

LoyaltyManagement

LoyaltyPromotionInputBuilder Methods

## LoyaltyPromotionInputBuilder Methods

The following are methods for `LoyaltyPromotionInputBuilder`.

build()

Returns an instance of the `LoyaltyManagement.LoyaltyPromotionInput` object.

setJournalId(journalId)

Represents the ID of an Accrual or Redemption type Transaction Journal record that retrieval of active loyalty promotions is based on. This is a required field.

### `build()`

Returns an instance of the `LoyaltyManagement.LoyaltyPromotionInput` object.

### Signature

```
public LoyaltyManagement.LoyaltyPromotionInput build()
```

### Return Value

Type: LoyaltyManagement.LoyaltyPromotionInput

### setJournalId(journalId)

Represents the ID of an Accrual or Redemption type Transaction Journal record that retrieval of active loyalty promotions is based on. This is a required field.

#### Signature

```
public LoyaltyManagement.LoyaltyPromotionInputBuilder setJournalId(String journalId)
```

#### Parameters

*journalId*
Type: String

#### Return Value

Type: LoyaltyManagement.LoyaltyPromotionInputBuilder

## LoyaltyPromotionOutput Class

Represents the active promotions based on the specified transaction journal.

## Namespace

LoyaltyManagement

LoyaltyPromotionOutput Methods

## LoyaltyPromotionOutput Methods

The following are methods for `LoyaltyPromotionOutput`.

getErrors()
If an error occurred, returns a list providing the error code and description.

getPromotions()
Returns a List of sObject data type that contains the promotion records that are eligible for the transaction journal.

isSuccess()
Returns a Boolean that is set to true if the loyalty promotion operation was successful for this object, false otherwise.

### getErrors()

If an error occurred, returns a list providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

#### `getPromotions()`

Returns a List of sObject data type that contains the promotion records that are eligible for the transaction journal.

### Signature

```
public List<SObject> getPromotions()
```

### Return Value

Type: List<SObject>

#### `isSuccess()`

Returns a Boolean that is set to true if the loyalty promotion operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

## LoyaltyResources Class

A class that executes a loyalty action and returns a result. Takes the input classes as input and returns the objects of output classes.

## Namespace

LoyaltyManagement

LoyaltyResources Methods

## LoyaltyResources Methods

The following are methods for `LoyaltyResources`.

Note: Methods in the `LoyaltyResources` class support processing up to 200 records per invocation. This class predates the Invocable.Action Apex wrapper, which supports up to 2000 records per invocation and is the recommended approach for invoking loyalty actions.

changeTier(changeTierList)
Use this method to change the tier for a loyalty program member.

creditPoints(creditPointsList)

Use this method to credit loyalty points to a loyalty program member's balance.

debitPoints(debitPointsList)

Use this method to debit loyalty points from a loyalty program member's balance.

getLoyaltyPromotionBasedOnSalesforceCDP(loyaltyPromotionInputList)

Use this method to retrieve promotions that are eligible for a member based on the member's market segment.

getLoyaltyPromotions(loyaltyPromotionInputList)

Use this method to retrieve active promotions that are eligible for a transaction journal. The action can process accrual or redemption transactions.

getPointsBalance(memberPointBalanceList)

Use this method to retrieve the loyalty points balance for a loyalty program member.

getTier(memberTierList)

Use this method to retrieve the current tier for a loyalty program member.

issueVoucher(issueVoucherList)

Use this method to issue a voucher for a loyalty program member.

transferMemberPointsToGroups(transferMemberPointsToGroupsList)

Use this method to transfer points from an individual member or a corporate member to the member's associated group.

updateProgressForCumulativePromotionUsage(updateCumulativeUsageCompletedInputList)

Use this method to update the progress made by a loyalty program member towards attaining a Cumulative type promotion.

### changeTier(changeTierList)

Use this method to change the tier for a loyalty program member.

#### Signature

```
public static List<LoyaltyManagement.ChangeTierOutput>
changeTier(List<LoyaltyManagement.ChangeTierInput> changeTierList)
```

#### Parameters

*changeTierList*

Type: List<LoyaltyManagement.ChangeTierInput>

Set of inputs to change the tier for a loyalty program member.

#### Return Value

Type: List<LoyaltyManagement.ChangeTierOutput>

### creditPoints(creditPointsList)

Use this method to credit loyalty points to a loyalty program member's balance.

### Signature

```
public static List<LoyaltyManagement.CreditPointsOutput>
creditPoints(List<LoyaltyManagement.PointsInput> creditPointsList)
```

### Parameters

*creditPointsList*
Type: List<LoyaltyManagement.PointsInput>

Set of inputs to credit points to a loyalty program member's balance.

### Return Value

Type: List<LoyaltyManagement.CreditPointsOutput>

## debitPoints(debitPointsList)

Use this method to debit loyalty points from a loyalty program member's balance.

### Signature

```
public static List<LoyaltyManagement.DebitPointsOutput>
debitPoints(List<LoyaltyManagement.PointsInput> debitPointsList)
```

### Parameters

*debitPointsList*
Type: List<LoyaltyManagement.PointsInputt>

Set of inputs to debit points from a loyalty program member's balance.

### Return Value

Type: List<LoyaltyManagement.DebitPointsOutput>

## getLoyaltyPromotionBasedOnSalesforceCDP(loyaltyPromotionInputList)

Use this method to retrieve promotions that are eligible for a member based on the member's market segment.

### Signature

```
public static List<LoyaltyManagement.CdpBasedLoyaltyPromotionOutput>
getLoyaltyPromotionBasedOnSalesforceCDP(List<LoyaltyManagement.CdpBasedLoyaltyPromotionInput>
loyaltyPromotionInputList)
```

### Parameters

*loyaltyPromotionInputList*
Type: List<LoyaltyManagement.CdpBasedLoyaltyPromotionInput>

Set of inputs to retrieve promotions for a member based on the member's market segment.

### Return Value

Type: List<LoyaltyManagement.CdpBasedLoyaltyPromotionOutput>

### `getLoyaltyPromotions(loyaltyPromotionInputList)`

Use this method to retrieve active promotions that are eligible for a transaction journal. The action can process accrual or redemption transactions.

### Signature

```
public static List<LoyaltyManagement.LoyaltyPromotionOutput>
getLoyaltyPromotions(List<LoyaltyManagement.LoyaltyPromotionInput>
loyaltyPromotionInputList)
```

### Parameters

*`loyaltyPromotionInputList`*
Type: List<LoyaltyManagement.LoyaltyPromotionInput>

Set of inputs to retrieve active promotions for a transaction journal.

### Return Value

Type: List<LoyaltyManagement.LoyaltyPromotionOutput>

### `getPointsBalance(memberPointBalanceList)`

Use this method to retrieve the loyalty points balance for a loyalty program member.

### Signature

```
public static List<LoyaltyManagement.MemberPointBalanceOutput>
getPointsBalance(List<LoyaltyManagement.MemberPointBalanceInput> memberPointBalanceList)
```

### Parameters

*`memberPointBalanceList`*
Type: List<LoyaltyManagement.MemberPointBalanceInput>

Set of inputs to get the loyalty points balance for a loyalty program member's balance.

### Return Value

Type: List<LoyaltyManagement.MemberPointBalanceOutput>

### `getTier(memberTierList)`

Use this method to retrieve the current tier for a loyalty program member.

### Signature

```
public static List<LoyaltyManagement.MemberTierOutput>
getTier(List<LoyaltyManagement.MemberTierInput> memberTierList)
```

### Parameters

*memberTierList*
Type: List<loyalty_management.MemberTierInput>

Set of inputs to retrieve the current tier for a given loyalty program member.

### Return Value

Type: List<loyalty_management.MemberTierOutput>

## issueVoucher(issueVoucherList)

Use this method to issue a voucher for a loyalty program member.

### Signature

```
public static List<LoyaltyManagement.IssueVoucherOutput>
issueVoucher(List<LoyaltyManagement.IssueVoucherInput> issueVoucherList)
```

### Parameters

*issueVoucherList*
Type: List<loyalty_management.IssueVoucherInput>

Set of inputs to issue a voucher.

### Return Value

Type: List<loyalty_management.IssueVoucherOutput>

## transferMemberPointsToGroups(transferMemberPointsToGroupsList)

Use this method to transfer points from an individual member or a corporate member to the member's associated group.

### Signature

```
public static List<LoyaltyManagement.LoyaltyActionResult>
transferMemberPointsToGroups(List<LoyaltyManagement.TransferMemberPointsToGroupsInput>
transferMemberPointsToGroupsList)
```

### Parameters

*transferMemberPointsToGroupsList*
Type: List<loyalty_management.TransferMemberPointsToGroupsInput>

Set of inputs to transfer points from an individual member or a corporate member.

### Return Value

Type: List<loyalty_management.LoyaltyActionResult>

#### `updateProgressForCumulativePromotionUsage(updateCumulativeUsageCompletedInputList)`

Use this method to update the progress made by a loyalty program member towards attaining a Cumulative type promotion.

### Signature

```
public static List<LoyaltyManagement.UpdateCumulativeUsageCompletedOutput>
updateProgressForCumulativePromotionUsage(List<LoyaltyManagement.UpdateCumulativeUsageCompletedInput>
updateCumulativeUsageCompletedInputList)
```

### Parameters

*updateCumulativeUsageCompletedInputList*
Type: List<LoyaltyManagement.UpdateCumulativeUsageCompletedInput>

Set of inputs to update the progress for a Cumulative type promotion.

### Return Value

Type: List<LoyaltyManagement.UpdateCumulativeUsageCompletedOutput>

## MemberPointBalanceInput Class

Use this class to retrieve loyalty points balance for a given loyalty program member. This class receives the input parameter values for the Get Member Points action.

## Namespace

LoyaltyManagement

## Example

```
public void pointsBalanceTest(){
   //...Create a list with LoyaltyManagement.MemberPointsBalanceInput as a datatype
   List<LoyaltyManagement.MemberPointBalanceInput> memberPointsBalanceList = new
List<LoyaltyManagement.MemberPointBalanceInput>();

   //...Create an instance of the list object and set the input values
   memberPointsBalanceList.add(new LoyaltyManagement.MemberPointBalanceInputBuilder()
      .setLoyaltyProgramMemberId('01MRM0000002BD12AM')
      .setProgramName('LP01')
      .setProgramCurrencyName('Miles')
      .build());

   //...Pass the list that contains the input values to the
LoyaltyResources.getPointsBalance() function.
   //...Store the output returned by the function in the MemberPointsBalanceOutput object
```

```
   List<LoyaltyManagement.MemberPointBalanceOutput> pointBalanceActionResults =
LoyaltyManagement.LoyaltyResources.getPointsBalance(memberPointsBalanceList);
   System.debug('Get Member Point Balance Successful Operation:'+
pointBalanceActionResults.get(0));
   System.debug('Points balance : ' + pointBalanceActionResults.get(0).getPoints());
}
```

# MemberPointBalanceInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.MemberPointsBalanceInput` class.

## Namespace

LoyaltyManagement

MemberPointBalanceInputBuilder Methods

## MemberPointBalanceInputBuilder Methods

The following are methods for `MemberPointBalanceInputBuilder`.

build()
Returns an instance of the `LoyaltyManagement.MemberPointsBalanceInput` object.

setLoyaltyProgramMemberId(loyaltyProgramMemberId)
Represents the ID of the loyalty program member whose points balance is to be fetched. This is a required field.

setProgramCurrencyName(programCurrencyName)
Represents the name of the program currency. This is a required field.

setProgramName(programName)
Represents the name of the loyalty program. This is a required field.

### `build()`

Returns an instance of the `LoyaltyManagement.MemberPointsBalanceInput` object.

#### Signature

```
public LoyaltyManagement.MemberPointBalanceInput build()
```

#### Return Value

Type: LoyaltyManagement.MemberPointBalanceInput

### `setLoyaltyProgramMemberId(loyaltyProgramMemberId)`

Represents the ID of the loyalty program member whose points balance is to be fetched. This is a required field.

### Signature

```
public LoyaltyManagement.MemberPointBalanceInputBuilder setLoyaltyProgramMemberId(String
loyaltyProgramMemberId)
```

### Parameters

*loyaltyProgramMemberId*
Type: String

### Return Value

Type: LoyaltyManagement.MemberPointBalanceInputBuilder

#### `setProgramCurrencyName(programCurrencyName)`

Represents the name of the program currency. This is a required field.

### Signature

```
public LoyaltyManagement.MemberPointBalanceInputBuilder setProgramCurrencyName(String
programCurrencyName)
```

### Parameters

*programCurrencyName*
Type: String

### Return Value

Type: LoyaltyManagement.MemberPointBalanceInputBuilder

#### `setProgramName(programName)`

Represents the name of the loyalty program. This is a required field.

### Signature

```
public LoyaltyManagement.MemberPointBalanceInputBuilder setProgramName(String
programName)
```

### Parameters

*programName*
Type: String

### Return Value

Type: LoyaltyManagement.MemberPointBalanceInputBuilder

# MemberPointBalanceOutput Class

Represents the loyalty points balance for a specified loyalty program member.

## Namespace

LoyaltyManagement

MemberPointBalanceOutput Methods

## MemberPointBalanceOutput Methods

The following are methods for `MemberPointBalanceOutput`.

getCurrencyName()
Returns a String that contains the name of the program currency.

getErrors()
If an error occurred, returns a list providing the error code and description.

getEscrowPointsBalance()
Returns a Double that contains the escrow points balance for a loyalty program member. These points are yet to be credited from Escrow to the loyalty member's points balance.

getLoyaltyProgramMemberId()
Returns a String that contains the ID of the loyalty program member.

getPoints()
Returns a Double that contains the points available for the loyalty program member.

getProgramName()
Returns a String that contains the loyalty program name.

isSuccess()
Returns a Boolean that is set to true if the member points operation was successful for this object, false otherwise.

### `getCurrencyName()`

Returns a String that contains the name of the program currency.

#### Signature

```
public String getCurrencyName()
```

#### Return Value

Type: String

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

#### `getEscrowPointsBalance()`

Returns a Double that contains the escrow points balance for a loyalty program member. These points are yet to be credited from Escrow to the loyalty member's points balance.

### Signature

```
public Double getEscrowPointsBalance()
```

### Return Value

Type: Double

#### `getLoyaltyProgramMemberId()`

Returns a String that contains the ID of the loyalty program member.

### Signature

```
public String getLoyaltyProgramMemberId()
```

### Return Value

Type: String

#### `getPoints()`

Returns a Double that contains the points available for the loyalty program member.

### Signature

```
public Double getPoints()
```

### Return Value

Type: Double

#### `getProgramName()`

Returns a String that contains the loyalty program name.

### Signature

```
public String getProgramName()
```

### Return Value

Type: String

#### `isSuccess()`

Returns a Boolean that is set to true if the member points operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

## MemberTierInput Class

Use this class to retrieve the current tier for a specified loyalty program member. This class receives the input parameter values for the Get Member Tier action.

## Namespace

LoyaltyManagement

## Example

```
public void getTierTest(){
   //...Create a list with LoyaltyManagement.MemberTierInput as a datatype
   List<LoyaltyManagement.MemberTierInput> memberTiersList = new
List<LoyaltyManagement.MemberTierInput>();

   //...Create an instance of the list object and set the input values
   memberTiersList.add(new
LoyaltyManagement.MemberTierInputBuilder().setLoyaltyProgramMemberId('0lMRM0000002BD12AM')

      .setProgramName('LP01')
      .setTierGroupName('TG1')
      .build());

   //...Pass the list that contains the input values to the LoyaltyResources.getTier()
function.
   //...Store the output returned by the function in the MemberTierOutput object
   List<LoyaltyManagement.MemberTierOutput> memberTierActionResults =
LoyaltyManagement.LoyaltyResources.getTier(memberTiersList);
   System.debug('Get Member Tier Successful Operation:'+ memberTierActionResults.get(0));
```

```
    System.debug('Member Tier : '+ memberTierActionResults.get(0).getMemberTier());
}
```

# MemberTierInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.MemberTierInput` class.

## Namespace

LoyaltyManagement

MemberTierInputBuilder Methods

## MemberTierInputBuilder Methods

The following are methods for `MemberTierInputBuilder`.

build()
Returns an instance of the `LoyaltyManagement.MemberTierInput` object.

setLoyaltyProgramMemberId(loyaltyProgramMemberId)
Represents the ID of the loyalty program member whose tier details are to be fetched. This is a required field.

setProgramName(programName)
Represents the loyalty program name associated with the tier.

setTierGroupName(tierGroupName)
Represents the name of the tier group. This is a required field.

### `build()`

Returns an instance of the `LoyaltyManagement.MemberTierInput` object.

#### Signature

```
public LoyaltyManagement.MemberTierInput build()
```

#### Return Value

Type: LoyaltyManagement.MemberTierInput

### `setLoyaltyProgramMemberId(loyaltyProgramMemberId)`

Represents the ID of the loyalty program member whose tier details are to be fetched. This is a required field.

#### Signature

```
public LoyaltyManagement.MemberTierInputBuilder setLoyaltyProgramMemberId(String
loyaltyProgramMemberId)
```

### Parameters

*loyaltyProgramMemberId*
Type: String

### Return Value

Type: LoyaltyManagement.MemberTierInputBuilder

#### `setProgramName(programName)`

Represents the loyalty program name associated with the tier.

### Signature

```
public LoyaltyManagement.MemberTierInputBuilder setProgramName(String programName)
```

### Parameters

*programName*
Type: String

### Return Value

Type: LoyaltyManagement.MemberTierInputBuilder

#### `setTierGroupName(tierGroupName)`

Represents the name of the tier group. This is a required field.

### Signature

```
public LoyaltyManagement.MemberTierInputBuilder setTierGroupName(String tierGroupName)
```

### Parameters

*tierGroupName*
Type: String

### Return Value

Type: LoyaltyManagement.MemberTierInputBuilder

## MemberTierOutput Class

Represents the tier details for a specified loyalty program member.

## Namespace

LoyaltyManagement

MemberTierOutput Methods

## MemberTierOutput Methods

The following are methods for `MemberTierOutput`.

getErrors()
If an error occurred, returns a list providing the error code and description.

getLoyaltyProgramMemberId()
Returns a String that contains the loyalty program member ID.

getMemberTier()
Returns a String that contains the name of the tier associated with the program member.

getProgramName()
Returns a String that contains the loyalty program name associated with the tier.

getSequenceNumber()
Returns an Integer that contains the ranking of the tier.

getTierGroupName()
Returns a String that contains the name of the tier group.

isSuccess()
Returns a Boolean that is set to true if the member tier operation was successful for this object, false otherwise.

### `getErrors()`

If an error occurred, returns a list providing the error code and description.

#### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

#### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

### `getLoyaltyProgramMemberId()`

Returns a String that contains the loyalty program member ID.

#### Signature

```
public String getLoyaltyProgramMemberId()
```

#### Return Value

Type: String

### getMemberTier()

Returns a String that contains the name of the tier associated with the program member.

#### Signature

```
public String getMemberTier()
```

#### Return Value

Type: String

### getProgramName()

Returns a String that contains the loyalty program name associated with the tier.

#### Signature

```
public String getProgramName()
```

#### Return Value

Type: String

### getSequenceNumber()

Returns an Integer that contains the ranking of the tier.

#### Signature

```
public Integer getSequenceNumber()
```

#### Return Value

Type: Integer

### getTierGroupName()

Returns a String that contains the name of the tier group.

#### Signature

```
public String getTierGroupName()
```

#### Return Value

Type: String

### isSuccess()

Returns a Boolean that is set to true if the member tier operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

# PointsInput Class

Use this class to credit loyalty points to a loyalty program member's balance or debit loyalty points from a loyalty program member's balance. This class receives the input parameter values for the Credit and Debit point actions.

## Namespace

LoyaltyManagement

## Example

This example is to credit loyalty points to a member's balance:

```
public void creditPointsTest(){
   //...Create a list with LoyaltyManagement.PointsInput as a datatype
   List<LoyaltyManagement.PointsInput> creditPointsList = new
List<LoyaltyManagement.PointsInput>();

   //...Create an instance of the list object and set the input values
   creditPointsList.add(new LoyaltyManagement.PointsInputBuilder()
      .setLoyaltyProgramMemberId('01MRM0000002BD12AM')
      .setProgramName('LP01')
      .setProgramCurrencyName('Miles')
      .setPoints(100)
      .setJournalId('01VRM0000004DH22AM')
      .build());

  //...Pass the list that contains the input values to the LoyaltyResources.creditPoints()
 function.
   //...Store the output returned by the function in the CreditPointsOutput object
   List<LoyaltyManagement.CreditPointsOutput> creditPointActionResults =
LoyaltyManagement.LoyaltyResources.creditPoints(creditPointsList);
   System.debug('Credit Successful Operation:'+ creditPointActionResults.get(0));
}
```

This example is to debit loyalty points from a member's balance:

```
public void debitPointsTest(){
   //...Create a list with LoyaltyManagement.PointsInput as a datatype
   List<LoyaltyManagement.PointsInput> debitPointsList = new
List<LoyaltyManagement.PointsInput>();

   //...Create an instance of the list object and set the input values
```

```
   debitPointsList.add(new LoyaltyManagement.PointsInputBuilder()
      .setLoyaltyProgramMemberId('0lMRM0000002BD12AM')
      .setProgramName('LP01')
      .setProgramCurrencyName('Miles')
      .setPoints(1000)
      .setJournalId('0lVRM0000004COB2A2')
      .build());

   //...Pass the list that contains the input values to the LoyaltyResources.debitPoints()
 function.
   //...Store the output returned by the function in the DebitPointsOutput object
   List<LoyaltyManagement.DebitPointsOutput> debitPointActionResults =
LoyaltyManagement.LoyaltyResources.debitPoints(debitPointsList);
   System.debug('Debit Successful Operation:'+ debitPointActionResults.get(0));
}
```

# PointsInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.PointsInput` class.

## Namespace

LoyaltyManagement

PointsInputBuilder Methods

## PointsInputBuilder Methods

The following are methods for `PointsInputBuilder`.

build()

Returns an instance of the `LoyaltyManagement.PointsInput` object.

setAdditionalNotes(additionalNotes)

Represents extra information about the transactions performed by the loyalty program member.

setCorrelationId(correlationId)

Represents the ID of any Salesforce entity.

setFlowId(flowId)

Represents the ID of the flow associated with the credit or debit points action.

setJournalId(journalId)

Represents the ID of the transaction journal. This is a required field.

setLoyaltyProgramMemberId(loyaltyProgramMemberId)

Represents the ID of the loyalty program member to whom the points must be credited or debited. This is a required field.

setPoints(points)

Represents the points available with the loyalty program member. This is a required field.

setPointsExpirationDate(pointsExpirationDate)
Represents the date on which fixed-model non-qualifying points credited by the action expire.

setProgramCurrencyName(programCurrencyName)
Represents the name of the loyalty program currency.

setLoyaltyProgramCurrencySubtypeName(LoyaltyProgramCurrencySubtypeName)
This method sets specific `LoyaltyProgramCurrencySubtype` for the `LoyaltyProgramCurrency`.

setProgramName(programName)
Represents the name of the loyalty program.

### build()

Returns an instance of the `LoyaltyManagement.PointsInput` object.

#### Signature

```
public LoyaltyManagement.PointsInput build()
```

#### Return Value

Type: LoyaltyManagement.PointsInput

### setAdditionalNotes(additionalNotes)

Represents extra information about the transactions performed by the loyalty program member.

#### Signature

```
public LoyaltyManagement.PointsInputBuilder setAdditionalNotes(String additionalNotes)
```

#### Parameters

*additionalNotes*
Type: String

#### Return Value

Type: LoyaltyManagement.PointsInputBuilder

### setCorrelationId(correlationId)

Represents the ID of any Salesforce entity.

#### Signature

```
public LoyaltyManagement.PointsInputBuilder setCorrelationId(String correlationId)
```

### Parameters

*correlationId*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

#### setFlowId(flowId)

Represents the ID of the flow associated with the credit or debit points action.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setFlowId(String flowId)
```

### Parameters

*flowId*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

#### setJournalId(journalId)

Represents the ID of the transaction journal. This is a required field.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setJournalId(String journalId)
```

### Parameters

*journalId*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

#### setLoyaltyProgramMemberId(loyaltyProgramMemberId)

Represents the ID of the loyalty program member to whom the points must be credited or debited. This is a required field.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setLoyaltyProgramMemberId(String
loyaltyProgramMemberId)
```

### Parameters

*loyaltyProgramMemberId*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

#### setPoints(points)

Represents the points available with the loyalty program member. This is a required field.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setPoints(Double points)
```

### Parameters

*points*
Type: Double

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

#### setPointsExpirationDate(pointsExpirationDate)

Represents the date on which fixed-model non-qualifying points credited by the action expire.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setPointsExpirationDate(String
pointsExpirationDate)
```

### Parameters

*pointsExpirationDate*
Type: String

The supported date format is YYYY-MM-DD. This input is available in API version 55.0 and later.

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

#### setProgramCurrencyName(programCurrencyName)

Represents the name of the loyalty program currency.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setProgramCurrencyName(String
programCurrencyName)
```

### Parameters

*programCurrencyName*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

## setLoyaltyProgramCurrencySubtypeName(LoyaltyProgramCurrencySubtypeName)

This method sets specific `LoyaltyProgramCurrencySubtype` for the `LoyaltyProgramCurrency`.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setLoyaltyProgramCurrencySubtypeName(String
loyaltyProgramCurrencySubtypeName)
```

### Parameters

*loyaltyProgramCurrencySubtypeName*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

## setProgramName(programName)

Represents the name of the loyalty program.

### Signature

```
public LoyaltyManagement.PointsInputBuilder setProgramName(String programName)
```

### Parameters

*programName*
Type: String

### Return Value

Type: LoyaltyManagement.PointsInputBuilder

# TransferMemberPointsToGroupsInput Class

Use this class to transfer points from an individual member or a corporate member to the member's associated group. This class receives the input parameter values for the Transfer Member Points To Groups action.

## Namespace

LoyaltyManagement

## Example

```
public static void transferPointsToGroupsTest(){

   //Create a list with LoyaltyManagement.TransferMemberPointsToGroupsInput as a datatype

   List<LoyaltyManagement.TransferMemberPointsToGroupsInput> transferPointsList =
      new List<LoyaltyManagement.TransferMemberPointsToGroupsInput>();

   //Create an instance of transferPointsList to set the transaction journal ID as input
   transferPointsList.add(new LoyaltyManagement.TransferMemberPointsToGroupsInputBuilder()

      .setJournalId('0lVT10000008CnlMAE')
      .build());

   //Pass the list to the LoyaltyResources.transferMemberPointsToGroups() interface.
   //Store the output returned by the interface in an instance of the 'LoyaltyActionResult'
 object
   List<LoyaltyManagement.LoyaltyActionResult> transferResults =
     LoyaltyManagement.LoyaltyResources.transferMemberPointsToGroups(transferPointsList);


   //Return the status of the Apex call
   System.debug('Transfer points to groups is successful:'+
transferResults.get(0).isSuccess());
}
```

# TransferMemberPointsToGroupsInputBuilder Class

Contains methods to build an instance of the `LoyaltyManagement.TransferMemberPointsToGroupsInput` class.

## Namespace

LoyaltyManagement

TransferMemberPointsToGroupsInputBuilder Methods

## TransferMemberPointsToGroupsInputBuilder Methods

The following are methods for `TransferMemberPointsToGroupsInputBuilder`.

build()
Returns an instance of the `LoyaltyManagement.TransferMemberPointsToGroupsInput` object.

setJournalId(journalId)
Represents the transaction journal that is used to transfer points to groups. This is a required field.

### build()

Returns an instance of the `LoyaltyManagement.TransferMemberPointsToGroupsInput` object.

#### Signature

```
public LoyaltyManagement.TransferMemberPointsToGroupsInput build()
```

#### Return Value

Type: LoyaltyManagement.TransferMemberPointsToGroupsInput

### setJournalId(journalId)

Represents the transaction journal that is used to transfer points to groups. This is a required field.

#### Signature

```
public LoyaltyManagement.TransferMemberPointsToGroupsInputBuilder setJournalId(String journalId)
```

#### Parameters

*journalId*
Type: String

The transaction journal must be associated with either an Individual or a Corporate type member. The points are transferred to the member's associated groups.

#### Return Value

Type: LoyaltyManagement.TransferMemberPointsToGroupsInputBuilder

## UpdateCumulativeUsageCompletedInput Class

Use this class to update the progress made by a loyalty program member towards attaining a Cumulative type promotion. The action creates a Loyalty Program Member Promotion record if the promotion isn't associated with the member. This class receives the input parameter values for the Update Cumulative Usage Completed action.

## Namespace

LoyaltyManagement

## Example

```
public static void updateProgressForCumulativePromotionUsageTest() {

   //Create a list with LoyaltyManagement.UpdateCumulativeUsageCompletedInput as a datatype

   List<LoyaltyManagement.UpdateCumulativeUsageCompletedInput>
updateCumulativeUsageCompletedInputList =
      new List<LoyaltyManagement.UpdateCumulativeUsageCompletedInput>();

   //Create an instance of LoyaltyManagement.UpdateCumulativeUsageCompletedInput class and
 set the inputs
   LoyaltyManagement.UpdateCumulativeUsageCompletedInput input = new
LoyaltyManagement.UpdateCumulativeUsageCompletedInput('0lMxx00000000EXEAY',
'0c8xx00000000BJAAY', 200);
   LoyaltyManagement.UpdateCumulativeUsageCompletedInput input1 = new
LoyaltyManagement.UpdateCumulativeUsageCompletedInput('0lMxx00000000G9EAI',
'0c8xx00000000BJAAY', 200);
      updateCumulativeUsageCompletedInputList.add(input);
      updateCumulativeUsageCompletedInputList.add(input1);

   //Store the output returned by the interface in an instance of the
UpdateCumulativeUsageCompletedOutput object
   List<LoyaltyManagement.UpdateCumulativeUsageCompletedOutput> results =

LoyaltyManagement.LoyaltyResources.updateProgressForCumulativePromotionUsage(updateCumulativeUsageCompletedInputList);


   //Return the status of the Apex call
   System.debug('updateProgressForCumulativePromotionUsage Successful Operation:'+
results.get(0).isSuccess());
    }
```

UpdateCumulativeUsageCompletedInput Constructors

## UpdateCumulativeUsageCompletedInput Constructors

The following are constructors for `UpdateCumulativeUsageCompletedInput`.

UpdateCumulativeUsageCompletedInput(loyaltyProgramMemberId, promotionId, usageIncrementForCumulativePromotion)
Creates an instance of the `LoyaltyManagement.UpdateCumulativeUsageCompletedInput` class.

### `UpdateCumulativeUsageCompletedInput(loyaltyProgramMemberId, promotionId, usageIncrementForCumulativePromotion)`

Creates an instance of the `LoyaltyManagement.UpdateCumulativeUsageCompletedInput` class.

### Signature

```
public UpdateCumulativeUsageCompletedInput(String loyaltyProgramMemberId, String
promotionId, Integer usageIncrementForCumulativePromotion)
```

### Parameters

*loyaltyProgramMemberId*
Type: String

The ID of the loyalty program member who progress towards attaining a cumulative promotion must be updated. This is a required field.

*promotionId*
Type: String

The ID of the Cumulative type promotion for which member's progress must be updated. This is a required field.

*usageIncrementForCumulativePromotion*
Type: Integer

The value or quantity that must be added to member's usage towards attaining the promotion. This is a required field.

# UpdateCumulativeUsageCompletedOutput Class

Represents the details of the progress made by a loyalty program member towards attaining a Cumulative type promotion.

## Namespace

LoyaltyManagement

UpdateCumulativeUsageCompletedOutput Methods

## UpdateCumulativeUsageCompletedOutput Methods

The following are methods for `UpdateCumulativeUsageCompletedOutput`.

getCumulativeUsageTarget()
Returns the target value or quantity which members must achieve to attain the promotion.

getErrors()
If an error occurred, returns a list providing the error code and description.

getUpdatedCumulativeUsageCompleted()
Returns the updated value or quantity by which the member has progressed towards attaining the promotion.

isSuccess()
Returns a Boolean that is set to true if the update cumulative usage completed operation was successful for this object, false otherwise.

### `getCumulativeUsageTarget()`

Returns the target value or quantity which members must achieve to attain the promotion.

### Signature

```
public Integer getCumulativeUsageTarget()
```

### Return Value

Type: Integer

#### `getErrors()`

If an error occurred, returns a list providing the error code and description.

### Signature

```
public List<LoyaltyManagement.LoyaltyActionError> getErrors()
```

### Return Value

Type: List<LoyaltyManagement.LoyaltyActionError>

#### `getUpdatedCumulativeUsageCompleted()`

Returns the updated value or quantity by which the member has progressed towards attaining the promotion.

### Signature

```
public Integer getUpdatedCumulativeUsageCompleted()
```

### Return Value

Type: Integer

#### `isSuccess()`

Returns a Boolean that is set to true if the update cumulative usage completed operation was successful for this object, false otherwise.

### Signature

```
public Boolean isSuccess()
```

### Return Value

Type: Boolean

# CHAPTER 6 Loyalty Management Business APIs

In this chapter ...


- REST Reference
- Loyalty Management Connect API Interchangeable Request Fields


Loyalty Management Business APIs are RESTful APIs that are sometimes available as Apex classes and methods.

# REST Reference

You can access Loyalty Management APIs using REST endpoints. These REST APIs follow similar conventions as Connect REST APIs.

To understand the architecture, authentication, rate limits, and how the requests and responses work, see Connect REST API Developer Guide.

Resources
Here's a list of Loyalty Management API resources.

Request Bodies
Here's a list of Loyalty Management API request bodies.

Response Bodies
Here's a list of Loyalty Management API response bodies.

## Resources

Here's a list of Loyalty Management API resources.

Club Member Enrollment
Enroll members in a club and manage their details, including membership numbers, renewal periods, and end dates.

Club Member Profile
Get the profile details of a club member such as membership number, contact ID, and loyalty program name.

Club Membership Renewal
Renew the membership of club members and manage their membership details such as membership numbers, renewal periods, and end dates.

Corporate Member Enrollments
Enroll corporate members in a loyalty program. Create a business account and a Corporate type loyalty program member record for the new member.

Individual Member Enrollments
Enroll individual members in a loyalty program. Create a person account and an Individual type loyalty program member record for the new member.

Member Benefits
Get benefits for a loyalty program member.

Member Profile
Get the details of a loyalty program member.

Member Engagement Trail
Fetches current and target values of the milestones defined in an engagement trail and the rewards received after achieving milestones.

Member Vouchers
Get vouchers that have been issued to a loyalty program member.

Redeem Voucher
Redeem a voucher for a loyalty program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

Transaction History

Get transaction journals of a loyalty member belonging to a loyalty program. Obtain either accrual or redemption transaction journal records.

Transaction Ledger Summary

Retrieve an aggregate view on the transaction journal and the loyalty ledger records.

Transaction Journals Execution

Use this resource to create and process a list of transaction journals against a corresponding loyalty program process.

Transaction Journals Simulation

Runs a simulation to determine how transaction journals are processed against their corresponding loyalty program processes. When transaction journals meet the criteria and conditions for a program process, actions that are set up in the process are triggered for the transaction journals.

Loyalty Program Process

Run a loyalty process created from a loyalty program process template.

Gamification

Who doesn't like to play a game? Engage your customers more by gamifying customer activities, such as placing an order, or events, such as birthdays and anniversaries.

Promotion

The promotion APIs allow you to set eligibility rules and limits for a promotion, choose a promotion template, and create a promotion. You can also get the details of a specific promotion, and view a list of eligible promotions for a customer's cart.

## Club Member Enrollment

Enroll members in a club and manage their details, including membership numbers, renewal periods, and end dates.

**Resource**

```
loyalty-programs/{programName}/clubs/{clubName}/member-enrollment
```

**Resource Example**

```
loyalty-programs/SampleProgramName/clubs/SampleClubName/member-enrollment
```

**Available version**

64.0

**HTTP methods**

POST

**URI Parameters**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `programName` | Integer | Name of the loyalty program. | Required | 64.0 |
| clubName | Integer | Name of the club. | Required | 64.0 |

**Request body for POST**

```
Enroll an Existing Loyalty Program Member


{
    "enrollmentDate": "2025-03-10T00:00:00",
    "clubMembershipNumber": "NAME1",
    "loyaltyMembershipNumber":"ARC0001",
    "memberStatus": "Active",
    "membershipEndDate": "2025-03-25T00:00:00"
}


Enroll an Existing Contact (Person Account is Not needed)

{
    "enrollmentDate": "2025-03-10T00:00:00",
    "clubMembershipNumber": "NAME2",
    "contactId":"003xx000004WhFrAAK",
    "memberStatus": "Active",
    "membershipEndDate": "2025-03-25T00:00:00"
}


Enroll a New Person (Person Account is Not needed)

{
    "enrollmentDate": "2025-03-10T00:00:00",
    "clubMembershipNumber": "NAME3",
    "associatedContactDetails": {
        "firstName": "Name3",
        "lastName": "Name3",
        "email": "Name3@email.com",
        "allowDuplicateRecords": "false"
    },
    "memberStatus": "Active",
    "membershipEndDate": "2025-03-25T00:00:00"
}


Enroll an Existing Account

{
    "enrollmentDate": "2025-03-10T00:00:00",
    "clubMembershipNumber": "NAME4",
    "accountId":"001xx000003GYiBAAW",
    "memberStatus": "Active",
    "membershipEndDate": "2025-03-25T00:00:00"
}


Enroll a New Account (Person Account is Not needed)
```

```
{
    "enrollmentDate": "2025-03-10T00:00:00",
    "clubMembershipNumber": "NAME5",
    "associatedAccountDetails": {
        "name": "NAME5",
        "phone": "0123456789",
        "website": "www.name5.com",
        "allowDuplicateRecords": "false"
    },
    "memberStatus": "Active",
    "membershipEndDate": "2025-03-25T00:00:00"
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `accountId` | String | The ID of the associated account record. | | 64.0 |
| `associatedAccountDetails` | Loyalty Account Input on page 410 | The business account details of the member. | | 64.0 |
| `associatedContactDetails` | Loyalty Contact Input on page 410 | The contact associated with the club member. | | 64.0 |
| `clubMembershipNumber` | String | The membership number of the club member. | | 64.0 |
| `contactId` | String | The contact details of the member. | | 64.0 |
| `enrollmentDate` | String | The date on which a member is enrolled into the club. | | 64.0 |
| `loyaltyMembershipNumber` | String | The membership number of the loyalty program member. | | 64.0 |
| `memberStatus` | String | The status of the club member. | | 64.0 |
| `membershipBy` | String | Member enrolled based on. | | 64.0 |
| `membershipEndDate` | String | The end date of the club membership. | | 64.0 |

**Response body for POST**

Club Member Enrollment Details on page 451

## Club Member Profile

Get the profile details of a club member such as membership number, contact ID, and loyalty program name.

**Resource**

```
/club/members
```

**Resource Example**

```
/club/members?clubName=NAME5&programName=SampleProgram
```

**Available version**

64.0

**HTTP methods**

GET

**Request parameters for GET**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `clubMembershipNumber` | String | The membership number of the club member. | | 64.0 |
| `clubName` | String | The name of the club. | | 64.0 |
| `contactId` | String | The contact ID of the member. | | 64.0 |
| `loyaltyMembershipNumber` | String | The membership number of the loyalty program member. | | 64.0 |
| `programName` | String | The name of the loyalty program. | | 64.0 |

**Response body for GET**

Club Member Details on page 450

## Club Membership Renewal

Renew the membership of club members and manage their membership details such as membership numbers, renewal periods, and end dates.

**Resource**

```
/loyalty-programs/${loyaltyProgramName}/clubs/${clubName}/membership-renewal
```

**Resource Example**

```
/loyalty-programs/SampleLoyaltyProgramName/clubs/SampleClubName/membership-renewal
```

**Available version**

64.0

**HTTP methods**

POST

### URI Parameters

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| programName | Integer | Name of the loyalty program. In case of an Independent Club, use the value Club Program. | Required | 64.0 |
| clubName | Integer | Name of the club. | Required | 64.0 |

### Request body for POST

#### JSON example

```
{
    "clubMembershipNumber": "ARC0001",
    "renewalPeriodType":"months",
    "renewalPeriod":"3",
    "notes":"",
    "externalIdentifier":"",
    "OrderItemId" : ""
}
```

#### Properties

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| clubMembershipEndDate | String | The end date of the club membership. | | 64.0 |
| clubMembershipNumber | String | The membership number of the club member. | | 64.0 |
| externalIdentifier | String | The external identifier of the club member. | | 64.0 |
| loyaltyMembershipNumber | String | The membership number of the loyalty program member. | | 64.0 |
| notes | String | Additional information about the club membership renewal. | | 64.0 |
| orderItemId | String | The order associated with the club membership. This field is a relationship field. | | 64.0 |
| renewalPeriod | Integer | The specific time period during which a club membership can be renewed. | | 64.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `renewal PeriodType` | String | The unit of time used to measure the renewal period for a club membership. For example, Days , Months, or Years. | | 64.0 |

**Response body for POST**

Club Membership Renewal on page 452

## Corporate Member Enrollments

Enroll corporate members in a loyalty program. Create a business account and a Corporate type loyalty program member record for the new member.

To use this resource, Person Accounts must be enabled in your org. The profile of the user who executes the resource must have Business Account selected as the default record type for business accounts. If the profile of the user has a different record type selected as the default record type for business accounts, an Account record of the selected record type is created for the member.

**Resource**

```
/loyalty-programs/${loyaltyProgramName}/corporate-member-enrollments
```

**Example**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/loyalty-programs/program1/corporate-member-enrollments
```

**Available version**

55.0

**Requires Chatter**

No

**HTTP methods**

POST

**Request body for POST**

**Root XML tag**

```
<corporateMemberEnrollment>
```

**JSON example**

```
{
    "enrollmentDate" : "2021-01-01T05:05:05",
    "membershipNumber" : "Member123",
    "associatedAccountDetails" : {
        "name" : "Name1",
        "phone" : "908989898",
        "website" : "www.ab.com",
        "allowDuplicateRecords" : "false",
        "additionalAccountFieldValues" : {
            "attributes" : {
                "CustomNumber__c" : "20.0"
            }
```

```
        }
    },
    "memberStatus" : "Active",
    "referredBy" : "Member12",
    "referredByMemberReferralCode" : "MPX12adf",
    "createTransactionJournals" : "true",
    "transactionJournalStatementFrequency" : "Monthly",
    "additionalMemberFieldValues" : {
        "attributes" : {
            "CustomBoolean__c" : "true"
        }
    }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalMemberFieldValues` | Map<String, String> | The custom attributes of the member in the loyalty program member record.<br>• `Keys`<br>• `Values` | Optional | 55.0 |
| `associatedAccountDetails` | Loyalty Account Input | The business account details of the member. | Required | 55.0 |
| `canReceivePartnerPromotions` | Boolean | Indicates whether the member can receive partner promotions for the program (`true`) or not (`false`). | Optional | 55.0 |
| `canReceivePromotions` | Boolean | Indicates whether the member can receive promotions for the program. | Optional | 55.0 |
| `createTransactionJournals` | Boolean | Indicates whether to create the transaction journal records (`true`) or not (`false`) :<br>The transaction journal records are created to:<br>• Credit points to the member for enrolling.<br>• Credit points to the member who has referred the new member. | Optional | 55.0 |
| `enrollmentChannel` | String | The channel used by members to enroll into a loyalty program.<br>Possible values are:<br>• `CallCenter`<br>• `Email`<br>• `Franchise` | Optional | 55.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | • `Mobile`<br>• `Partner`<br>• `Pos`<br>• `Print`<br>• `Social`<br>• `Store`<br>• `Web` | | |
| `enrollmentDate` | String | The date on which a member is enrolled. | Required | 55.0 |
| `memberStatus` | String | Status of the member. Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Custom value` | Required | 55.0 |
| `membershipEndDate` | String | The date on which the loyalty program member's membership ends. | Optional | 55.0 |
| `membershipNumber` | String | The unique membership number of the loyalty program member. | Required | 55.0 |
| `referredBy` | String | The ID of the loyalty program member who has referred the member. | Optional | 55.0 |
| `referredByMemberReferralCode` | String | The referral code of the loyalty program member who has referred the member. | Optional | 57.0 |
| `transactionJournalStatementFrequency` | String | The frequency at which transaction journal statements must be delivered to the member. Possible values are:<br>• `Daily`<br>• `Monthly`<br>• `Yearly` | Optional | 55.0 |
| `transactionJournalStatementMethod` | String | The method used to deliver transaction journal statements to the member.<br>Possible values are:<br>• `Email`<br>• `Mail` | Optional | 55.0 |

**Response body for POST**

Corporate Member Enrollment Output

# Individual Member Enrollments

Enroll individual members in a loyalty program. Create a person account and an Individual type loyalty program member record for the new member.

To use this resource, Person Accounts must be enabled in your org. The profile of the user who executes the resource must have Person Account selected as the default record type for person accounts. If the profile of the user has a different record type selected as the default record type for person accounts, an Account record of the selected record type is created for the member.

**Resource**

```
/loyalty-programs/${loyaltyProgramName}/individual-member-enrollments
```

**Example**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/loyalty-programs/program1/individual-member-enrollments
```

**Available version**

55.0

**Requires Chatter**

No

**HTTP methods**

POST

**Request body for POST**

**Root XML tag**

```
<individualMemberEnrollment>
```

**JSON example**

```
{
  "enrollmentDate" : "2021-01-01T00:00:00",
  "membershipNumber" : "Member1",
  "associatedContactDetails" : {
    "firstName" : "Name1",
    "lastName" : "Name2",
    "email" : "ab@email.com",
    "allowDuplicateRecords" : "false",
    "additionalContactFieldValues" : {
      "attributes" : {
        "PersonMailingCity" : "Delhi",
        "CustomNumber__c" : "20.0"      }
    }
  },

  "memberStatus" : "Active",
  "referredBy" : "Member2",
  "referredByMemberReferralCode" : "MPX12adf",
  "createTransactionJournals" : "true",
  "transactionJournalStatementFrequency" : "Monthly",
  "transactionJournalStatementMethod" : "Mail",
  "enrollmentChannel" : "Email",
  "canReceivePromotions": "true",
  "canReceivePartnerPromotions" : "true",
  "membershipEndDate" : "2022-01-01T00:00:00",
```

```
  "relatedCorporateMembershipNumber" : "Member3",
  "additionalMemberFieldValues" : {
    "attributes" : {
      "CustomBoolean__c" : "true"    }
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalMemberFieldValues` | Map<String, String> | The custom attributes of the member in the loyalty program member record.<br>• `Keys`<br>• `Values` | Required | 55.0 |
| `associatedContactDetails` | Loyalty Contact Input on page 410 | The person account record details of the individual type member. | Required | 55.0 |
| `canReceivePartnerPromotions` | Boolean | Indicates whether the member can receive partner promotions for the program (`true`) or not (`false`). | Optional | 55.0 |
| `canReceivePromotions` | Boolean | Indicates whether the loyalty program member can receive promotions. | Optional | 55.0 |
| `createTransactionJournals` | Boolean | Indicates whether to create the transaction journal records (`true`) or not (`false`) :<br>The transaction journal records are created to:<br>• Credit points to the member for enrolling.<br>• Credit points to the member who has referred the new member. | Optional | 55.0 |
| `enrollmentChannel` | String | The channel used to by loyalty program member to enroll in to the loyalty program. Possible values are:<br>• `Pos`<br>• `Web`<br>• `Email`<br>• `CallCenter`<br>• `Social`<br>• `Mobile`<br>• `Store` | Optional | 55.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | • `Franchise`<br>• `Partner`<br>• `Print` | | |
| `enrollmentDate` | Date | The date on which the loyalty program members are enrolled in to the loyalty program.<br>The format is: `2020-09-08T00:00:00` | Required | 55.0 |
| `memberStatus` | String | The status of the loyalty program member. Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Custom` | Required | 55.0 |
| `membershipEndDate` | String | The date on which the loyalty program member's membership ends. | Optional | 55.0 |
| `membershipNumber` | String | The unique membership number of the loyalty program member. | Required | 55.0 |
| `referredBy` | String | The membership number of the loyalty program member who has referred the member. | Optional | 55.0 |
| `referredByMemberReferralCode` | String | The referral code of the loyalty program member who has referred the member. | Optional | 57.0 |
| `relatedCorporateMembershipNumber` | String | External corporate membership number of the member. | Optional | 55.0 |
| `transactionJournalStatementFrequency` | String | The frequency at which transaction journal statements must be delivered to the member. Possible values are:<br>• `Monthly`<br>• `Quarterly` | Optional | 55.0 |
| `transactionJournalStatementMethod` | String | The method used to deliver transaction journal statements to the member. Possible values are:<br>• `Mail`<br>• `Email` | Optional | 55.0 |

**Response body for POST**
Individual Member Enrollment Output

## Member Benefits

Get benefits for a loyalty program member.

**Resource**

```
/connect/loyalty/member/${memberId}/memberbenefits
```

**Resource example**

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/member/0lM0000Abth124242af/memberbenefits
```

**Available version**
51.0

**Requires Chatter**
No

**HTTP methods**
GET

**Response body**
Member Benefits Output

## Member Profile

Get the details of a loyalty program member.

**Resource**

```
/loyalty-programs/${loyaltyProgramName}/members
```

**Examples**

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty-programs/${baLoyalty}/members
```

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty-programs/${baLoyalty}/members?memberId=007
```

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty-programs/${baLoyalty}/members?membershipNumber=doc_member1
```

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty-programs/${baLoyalty}/members?programCurrencyName=Yen
```

**Available version**
55.0

**Requires Chatter**
No

**HTTP methods**
GET

**Request parameters for GET**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `memberId` | String | The ID of the loyalty program member. | Required<br>Note: This field is optional if you provide the membership number. | 55.0 |
| `membershipNumber` | String | The membership number of the loyalty program member. | Required<br>Note: This field is optional if you provide the member ID. | 55.0 |
| `programCurrencyName` | String | The name of the loyalty program currency associated with the member.<br>Use this parameter to get the details of the member's points-related information for a specific currency. | Optional | 55.0 |

**Response body for GET**

Member Profile Output

## Member Engagement Trail

Fetches current and target values of the milestones defined in an engagement trail and the rewards received after achieving milestones.

**Resource**

```
/services/data/vXX.X/loyalty/programs/${programName}/members/${membershipNumber}/engagement-trail?$promotionId={promotionId}
```

**Examples**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/loyalty/programs/${programName}/members/${membershipNumber}/engagement-trail?$promotionId={promotionId}
```

```
https://yourInstance.salesforce.com/services/data/vXX.X
/loyalty/programs/${programName}/members/${membershipNumber}/engagement-trail?$promotionId={promotionId}
```

**Available version**

63.0

**Requires Chatter**
No

**HTTP methods**
GET

**Query Parameters**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `promotionId` | String | The ID of the promotion. | Required | 63.0 |

**Path Parameters**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `programName` | String | Name of the loyalty program. | Required | 63.0 |
| `membershipNumber` | String | The membership number of the loyalty program member. | Required | 63.0 |

**Response Body**
Member Engagement Trail Output on page 483

## Member Vouchers

Get vouchers that have been issued to a loyalty program member.

**Resource**

```
/loyalty/programs/${programName}/members/${membershipNumber}/vouchers
```

**Resource Examples**

```
https://yourInstance.salesforce.com/services/data/v58.0
/loyalty/programs/NTO/members/M1/vouchers
```

```
https://yourInstance.salesforce.com/services/data/v58.0
/loyalty/programs/NTO/members/M1/vouchers?voucherStatus=Cancelled,Expired
```

```
https://yourInstance.salesforce.com/services/data/v58.0
/loyalty/programs/NTO/members/M1/vouchers?pageNumber=2&voucherStatus=Issued&productName=Linea,Creta
```

**Available version**
58.0

**Requires Chatter**
No

**HTTP methods**
GET

### Query parameters

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `pageNumber` | Integer | The page number to be returned. If you don't specify a value, the first page is returned.<br>Note: Each page contains 200 vouchers, sorted by their date of creation. | Optional | 58.0 |
| `productCategoryId` | String | The ID of a product category associated with the member vouchers to be retrieved.<br>Note: You can specify up to 20 product category IDs. | Optional | 58.0 |
| `productCategoryName` | String | The product category name associated with the vouchers to be retrieved.<br>Note: You can specify up to 20 product categories. | Optional | 58.0 |
| `productId` | String | The product ID associated with the vouchers to be retrieved.<br>Note: You can specify up to 20 product IDs. | Optional | 58.0 |
| `productName` | String | The product name associated with the vouchers to be retrieved.<br>Note: You can specify up to 20 product names. | Optional | 58.0 |
| `voucherStatus` | String | The status of the member vouchers to filter the API response. Possible values are:<br>• `Cancelled`<br>• `Expired`<br>• `Issued`<br>• `Redeemed` | Optional | 58.0 |
| `sortBy` | String | The voucher field for sorting the API response. The default value is `ExpirationDate`.<br>Possible values are:<br>• `CreatedDate`<br>• `EffectiveDate` | Optional | 58.0 |

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | • `ExpirationDate` | | |
| `sortOrder` | String | The sort order of the API response. The default value is `Ascending`.<br>Possible values are:<br>• Ascending<br>• Descending | Optional | 58.0 |

**Response body for GET**

Vouchers List

## Redeem Voucher

Redeem a voucher for a loyalty program member. The status of the voucher gets updated to redeemed and the use date gets updated to the current date.

**Resource**

```
/services/data/vXX.X/loyalty/programs/${programName}/members/${membershipNumber}/vouchers/${voucherCode}/redeem
```

**Examples**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/loyalty/programs/DemoProgram/members/M1234/vouchers/VC001/redeem
```

```
https://yourInstance.salesforce.com/services/data/vXX.X
/loyalty/programs/DemoProgram/members/M1234/vouchers/VC001/redeem?voucherNumber=00000006
```

**Available version**

51.0

**Requires Chatter**

No

**HTTP methods**

POST

**Parameters for POST**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `membershipNumber` | String | The loyalty program membership number. | Required | 51.0 |
| `programName` | String | The loyalty program name. | Required | 51.0 |
| `voucherCode` | String | The voucher code to be redeemed.<br>Note: The voucher definition associated with the voucher code | Required | 51.0 |

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | must be active to redeem the voucher. | | |
| `voucherNumber` | String | The auto-generated voucher number.<br>Note: Use this query parameter if multiple vouchers exist with the same voucher code. | Optional | 55.0 |

### Request body for POST

The request body is available in version 53.0 and later.

#### JSON example

```
{
  "contactID": "003xx000004WjzAAAS",
  "action": "Reserve",
  "reservationKey": "key1",
  "reservedValue": 50.57,
  "redeemAmount": 50.57,
  "currencyIsoCode": "Yen"
}
```

JSON example to redeem vouchers using `contactId` or `accountID`.

```
{
  "redemptionAmount": "12",
  "contactId": "003xx000004WkhEAAS",
  "accountId":"001xx000003H3NnAAK",
  "memberId": "0lMxx00000002HxEAI"
}
```

Note: Provide `contactId` to redeem the voucher. If `accountID` is provided, then the associated `contactId` is fetched and the voucher is redeemed

#### Properties

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `contactID` | String | ID of the contact associated with the account. | Optional | 62.0 |
| `currencyIsoCode` | String | Three-letter ISO 4217 currency code of the monetary currency in which the voucher is redeemed. | Optional | 55.0 |
| `redeemAmount` | Double | The value of the voucher to be redeemed. Specify a value when a member hasn't redeemed the full value of the voucher. This value is only applicable for vouchers | Optional | 53.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | issued using Fixed Value voucher definitions.<br>A value isn't required when the member has redeemed the complete value of the voucher in a single transaction.<br>Note: If you don't specify a value to be redeemed for the fixed-value voucher, the voucher status changes to `Redeemed`, and the remaining value becomes zero. | | |
| action | ReservationAction | The action to change the status of a voucher. Valid values are:<br>• `Reserve`<br>• `Reinstate`<br>• `Redeem`<br>If you don't specify an action, the default behavior changes voucher status from `Issued` to `Redeemed`. | Required when changing the voucher status from `Issued` to `Reserved`, or from `Reserved` to `Issued` or `Redeemed`. Otherwise it is optional. | 62.0 |
| reservedValue | Currency | Specify the amount reserved for partially redeemable vouchers. | Optional | 62.0 |
| reservationKey | String | Specify the key used to redeem or reinstate a reserved voucher. | Optional | 62.0 |

**Response body for POST**

Redeem Voucher Output on page 518 (available in version 53.0 and later)

This table lists HTTP response code descriptions that are unique to this resource.

| HTTP Response Code | Error Code | Description |
|---|---|---|
| 400 | `INVALID_API_INPUT` | The voucher is expired. Specify a voucher that hasn't expired. |
| 400 | `INVALID_API_INPUT` | The voucher is canceled. Specify a voucher that hasn't canceled. |
| 400 | `INVALID_API_INPUT` | Specify a valid voucher code and try again. |
| 400 | `INVALID_API_INPUT` | Specify a valid loyalty program name and try again. |
| 400 | `INVALID_API_INPUT` | Specify a valid loyalty program membership number and try again. |

| HTTP Response Code | Error Code | Description |
|---|---|---|
| 400 | INVALID_API_INPUT | The voucher definition is inactive. Specify a voucher that's associated with an active voucher definition. |
| 409 | ALREADY_REDEEMED_VOUCHER | The voucher is redeemed. Specify a voucher that hasn't redeemed. |
| 500 | MULTIPLE_VOUCHERS | Duplicate vouchers for this voucher code. Either specify a different voucher code or ask your Salesforce admin for help. |
| 500 | UNKOWN_EXCEPTION | The voucher redemption failed. Try again or ask your Salesforce admin for help. |

SEE ALSO:

*Connect REST API Developer Guide*: Status Codes and Error Responses

## Transaction History

Get transaction journals of a loyalty member belonging to a loyalty program. Obtain either accrual or redemption transaction journal records.

**Resource**

```
/connect/loyalty/programs/${programName}/transaction-history
```

**Example**

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/NTO/transaction-history?page=2
```

**Available version**

56.0

**Requires Chatter**

No

**HTTP methods**

POST

**Request parameters for POST**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| programName | String | Name of the loyalty program. | Required | 56.0 |
| page | Integer | Number of the page you want returned. If you don't specify a value, the first page is returned.<br>Note: By default, each page contains 200 records. | Optional | 56.0 |

### Request body for POST

#### JSON example

```
{
   "membershipNumber":"doc_member1",
   "journalType":"Accrual",
   "journalSubType":"Social",
   "periodStartDate":"2022-01-27T00:00:00Z",
   "periodEndDate":"2022-11-27T00:00:00Z"
}
```

#### Properties

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `journalSubType` | String | The subtype of the transaction journal record. | Optional | 56.0 |
| `journalType` | String | The type of the transaction journal.<br>Possible values include:<br>• Accrual<br>• Redemption | Required | 56.0 |
| `membershipNumber` | String | The membership number of the loyalty program member. | Required | 56.0 |
| `periodEndDate` | String | Retrieve transaction journals until this date. | Optional | 56.0 |
| `periodStartDate` | String | Retrieve transaction journals starting on this date. | Required | 56.0 |

### Response body for POST

Loyalty View Transaction Journal History Output

## Transaction Ledger Summary

Retrieve an aggregate view on the transaction journal and the loyalty ledger records.

### Resource

```
/loyalty/programs/${programName}/members/${membershipNumber}/transaction-ledger-summary
```

### Resource Examples

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty/programs/NTO/members/M1/transaction-ledger-summary
```

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty/programs/NTO/members/M1/transaction-ledger-summary?journalSubTypeName={provide_value}
```

```
https://yourInstance.salesforce.com/services/data/v65.0/loyalty/programs/NTO/members/M1/transaction-ledger-summary?pageNumber=2&journalTypeName={name}&journalSubTypeName={provide_value}
```

**Available version**
58.0

**Requires Chatter**
No

**HTTP methods**
GET

**Query parameters for GET**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `journalSubTypeName` | String | Returns the transaction journals filtered by the specified journal subtype. | Optional | 58.0 |
| `additionalTransactionJournalAttributes` | String | Returns the list of transaction journal fields. | Optional | 58.0 |
| `journalTypeName` | String | Returns the transaction journals filtered by the specified journal type. | Optional | 58.0 |
| `pageNumber` | Integer | Returns the transaction journals for the specified page number.<br>Note: The API returns the first page by default. Each page contains 200 transaction journals, which are sorted according to the date the transaction journal record was created. | Optional | 58.0 |
| `periodEndDate` | String | Returns the transaction journals filtered by the specified end date. | Optional | 58.0 |
| `periodStartDate` | String | Returns the transaction journals filtered by the specified start date. | Optional | 58.0 |

**Response body for GET**
Transaction Journal Summary Output

## Transaction Journals Execution

Use this resource to create and process a list of transaction journals against a corresponding loyalty program process.

The loyalty program processes determine how transaction journals are processed. When transaction journals meet the criteria and conditions for a program process, actions that are set up in the process are triggered for the transaction journals. For more information on how to set up program process, see LoyaltyProgramSetup.

**Special Access Rules**
To use this resource, your org must have either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Advanced license enabled, and you must be assigned the Loyalty Management permission set.

### Resource

```
/connect/realtime/loyalty/programs/${programName}
```

### Resource example

```
https://yourInstance.salesforce.com/services/data/vXX.X/connect
/realtime/loyalty/programs/CloudKicksInnerCircle
```

### Available version

54.0

### Requires Chatter

No

### HTTP methods

POST

### Request body for POST

#### JSON example

In the JSON, you can either provide the details of transaction journals that aren't available in the org, or a list of IDs that belong to transaction journals available in the org. If you provide the details of transaction journals that aren't available in the org, each transaction journal's applicable loyalty program process applies the eligible rules, executes the applicable actions, and then creates the transaction journal.

Using the transaction journal details:

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's a JSON example that creates a transaction journal for a purchase-related transaction made by a loyalty program member of a retail company. It has all the transaction journal-related information along with the details of the promotion applied, including the different types of rewards the transaction is eligible for. For information on the TransactionJournal object fields, see https://developer.salesforce.com/docs/atlas.en-us.loyalty.meta/loyalty/sforce_api_objects_transactionjournal.htm.

```
{
  "transactionJournals": [
    {
      "ActivityDate": "2023-11-27T12:45:19Z",
      "JournalTypeId": "0lERM00000001Bb2AI",
      "LoyaltyProgramId": "0lpRM00000002YTYAY",
      "MemberId": "0lMRM0000002Fmu2AE",
      "Status": "Pending",
      "ProductId": "01txx0000006iTsAAI",
      "ProductCategoryId": "0ZSSB0000002d8X4AQ",
      "Quantity": "4",
      "TransactionAmount": "500",
      "appliedPromotions": [
        {
          "promotionId": "0c8RM0000004FiXYAU",
          "couponCode": "COUPON100",
          "rewards": [
            {
              "rewardType": "Discount",
              "discountAmount": 15
            },
```

```
            {
              "rewardType": "Points",
              "loyaltyProgramCurrencyName": "Coins",
              "points": 100,
              "relatedInformation": "Test",
              "notes": "points reward"
            },
            {
              "rewardType": "Voucher",
              "voucherDefinitionName": "10% Discount Voucher",
              "voucherExpirationDate": "2023-12-15",
              "voucherEffectiveDate": "2023-11-29",
              "notes": "discount voucher"
            },
            {
              "rewardType": "Badge",
              "loyaltyProgramBadgeName": "Gen AI Badge",
              "memberBadgeStatus": "Active",
              "badgeValidityEndDate": "2023-12-15",
              "reason": "purchase"
            },
            {
              "rewardType": "Game",
              "gameDefinitionName": "SpintheWheelGame"
            }
          ]
        }
      ]
    }
  ]
}
```

Here's a JSON example to create a transaction journal for a loyalty program member of an airline company.

```
{
   "transactionJournals":[
      {
         "ActivityDate":"2022-01-04T12:45:19Z",
         "JournalDate":"2022-01-04T00:45:19Z",
         "Brand":"Tata",
         "Establishment":"Vistara",
         "ExternalTransactionNumber":"P1-981950",
         "JournalTypeId":"0lET10000004CQp",
         "LoyaltyProgramId":"0lpT10000004CdN",
         "MemberId":"0lMT10000004CfA",
         "TransactionAmount":"117",
         "TransactionLocation":"HitechCity",
         "VoucherCode":"",
         "Origin":"Bangalore",
         "Distance":"5",
         "Destination":"Hyderabad",
         "FlightNumber":"VS-Ran-001",
         "Status":"Pending"
      }
```

```
    ]
}
```

Using the transaction journal ID:

Note: This is supported in API version 55.0 and later.

```
{
  "transactionJournals": [
    {
      "Id": "0lVxx00000000cj"
    }
  ]
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `processInput` | Map<String, Object> | List of the Transaction Journal records to process and create. | Required | 54.0 |

**Response body for POST**

Loyalty Engine Realtime Output

## Transaction Journals Simulation

Runs a simulation to determine how transaction journals are processed against their corresponding loyalty program processes. When transaction journals meet the criteria and conditions for a program process, actions that are set up in the process are triggered for the transaction journals.

**Special Access Rules**

To use this resource, your org must have either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Advanced license enabled, and you must be assigned the Loyalty Management permission set.

**Resource**

```
/connect/realtime/loyalty/programs/${programName}
```

**Resource example**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/connect/realtime/loyalty/programs/StarAir_Program
```

**Available version**

55.0

**Requires Chatter**

No

**HTTP methods**

POST

### Request body for POST

#### Root XML tag

```
<loyaltyEngineInput>
```

#### JSON example

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

```
{
  "shouldCheckCouponUsageLimit": true
  "transactionJournals": [
    {
      "ActivityDate": "2022-01-04T12:45:19Z",
      "JournalDate": "2022-01-04T00:45:19Z",
      "Brand": "",
      "Establishment": "Apple",
      "ExternalTransactionNumber": "P1-981950",
      "JournalTypeId": "0lET10000004CQp",
      "LoyaltyProgramId": "0lpT10000004CdN",
      "MemberId": "0lMT10000004CfA",
      "TransactionAmount": "117",
      "TransactionLocation": "HitechCity",
      "VoucherCode": "",
      "Origin": "asdf",
      "Distance": "5",
      "Destination": "Hyderabad",
      "FlightNumber": "SF-Ran-001",
      "Status": "Pending"
    }
  ],
  "runSetting": {
    "isSimulation": true
  }
}
```

Note: Provide `contactId` to retrieve rewards related to a Person Account.

Using the transaction journal ID:

```
{
  "transactionJournals": [
    {
      "Id": "0lVxx00000000cj"
    }
  ],
  "runSetting": {
    "isSimulation": true
  }
}
```

Sample payload to retrieve rewards assigned to accounts.

```
{
    "transactionJournals": [
```

```
      {
        "ActivityDate": "2024-11-27T12:45:19Z",
        "JournalTypeId": "0lERM00000001Bb2AI",
        "LoyaltyProgramId": "0lpRM00000002YTYAY",
        "ReferredPartyId": "001xx000003H3NnAAK",
        "Status": "Pending",
        "ProductId": "01txx0000006i44AAA",
        "ProductCategoryId": "0ZGxx0000000001GAA",
        "Quantity": "1",
        "TransactionAmount": "42",
        "appliedPromotions": [
          {
            "promotionId": "0c8xx00000000mPAAQ",
            "rewards": [
              {
                "rewardType": "Discount",
                "discountAmount": 5
              },
              {
                "rewardType": "Discount",
                "discountAmount": 10
              },
              {
                "rewardType": "Voucher",
                "voucherDefinitionName": "Voucher2",
                "voucherExpirationDate": "2025-08-07",
                "voucherEffectiveDate": "2024-08-08",
              },
              {
                "rewardType": "Game",
                "gameDefinitionName": "TestPostFacto",
              },
            ]
          }
        ]
      }
    ]
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| isOldCouponUsageLimit | Boolean | Indicates whether the coupon usage limit check is enabled. | Required | 62.0 |
| transactionJournals | Loyalty Engine Input Map | Represents the transaction journals records to process. | Required | 54.0 |
| runSetting | Loyalty Engine Run Settings Input | Loyalty runtime setting to run the simulation on the transaction journals. | Required for simulation, otherwise optional | 55.0 |

**Response body for POST**

Loyalty Engine Realtime Output

**JSON example**


```
{
  "message": null,
  "processResult": null,
  "programName": "StarAir_Program",
  "simulationResults": {
    "transactionJournals": [
      {
        "executionSummary": {
          "pointsSummary": [
            {
              "changeInEscrowPointsBalance": 0,
              "changeInPointsBalance": 250,
              "loyaltyProgramCurrencyName": "VroomKing",
              "loyaltyProgramCurrencyType": "NonQualifying"
            },
            {
              "changeInEscrowPointsBalance": 20,
              "changeInPointsBalance": 0,
              "loyaltyProgramCurrencyName": "EcoMiles",
              "loyaltyProgramCurrencyType": "Qualifying"
            }
          ],
          "vouchersIssuedCount": 0
        },
        "processId": "9MXxx0000004Khg",
        "processName": "Redemption Process",
        "processRules": [
          {
            "actionResultSummary": [
              {
                "actionType": "CreditPoints",
                "changeInEscrowPointsBalance": 20,
                "changeInPointsBalance": 0,
                "escrowPointsCreditDate": "2022-03-05T00:00:00.000Z",
                "loyaltyProgramCurrencyName": "EcoMiles",
                "promotionId": "",
                "stepName": "Credit Brownie Points"
              },
              {
                "actionType": "CreditPoints",
                "changeInEscrowPointsBalance": 0,
                "changeInPointsBalance": 250,
                "loyaltyProgramCurrencyName": "VroomKing",
                "promotionId": "",
                "stepName": "Credit Base Points For Transaction"
              }
            ],
            "executionStatus": "Success",
            "executionSummary": {
              "pointsSummary": [
```

```
      {
        "changeInEscrowPointsBalance": 0,
        "changeInPointsBalance": 250,
        "loyaltyProgramCurrencyName": "VroomKing",
        "loyaltyProgramCurrencyType": "NonQualifying"
      },
      {
        "changeInEscrowPointsBalance": 20,
        "changeInPointsBalance": 0,
        "loyaltyProgramCurrencyName": "EcoMiles",
        "loyaltyProgramCurrencyType": "Qualifying"
      }
    ],
    "vouchersIssuedCount": 0
  },
  "processRuleName": "Rule 1",
  "ruleSteps": [
    {
      "childSteps": [
        {
          "actionParameters": [
            {
              "name": "Notes",
              "operator": "Equals",
              "value": {
                "expression": "Credit Brownie Points",
                "expressionValue": {
                  "dataType": "Text",
                  "value": "Credit Brownie Points"
                },
                "parameterValues": {}
              }
            },
            {
              "name": "ProgramCurrencyName",
              "operator": "Equals",
              "value": {
                "expression": "EcoMiles",
                "expressionValue": {
                  "dataType": "Text",
                  "value": "EcoMiles"
                },
                "parameterValues": {}
              }
            },
            {
              "name": "PointsToCredit",
              "operator": "Equals",
              "value": {
                "expression": "20",
                "expressionValue": {
                  "dataType": "Number",
                  "value": 20
                },
```

```
                "parameterValues": {}
              }
            }
          ],
          "actionType": "CreditPoints",
          "sequenceNumber": 1,
          "status": "Success",
          "stepName": "Credit Brownie Points",
          "stepType": "Action"
        }
      ],
      "filterCondition": "1",
      "filterCriteria": [
        {
          "filterCriteriaResult": true,
          "operator": "Equals",
          "sequence": 1,
          "sourceFieldName": {
            "expression": "{!TransactionJournal.Product.Name}",
            "parameterValues": {
              "TransactionJournal.Product.Name": {
                "dataType": "Text",
                "value": "Brownie"
              }
            }
          },
          "value": {
            "expression": "Brownie",
            "expressionValue": {
              "dataType": "Text",
              "value": "Brownie"
            },
            "parameterValues": {}
          },
          "valueType": "FixedValue"
        }
      ],
      "isConditionMet": true,
      "sequenceNumber": 1,
      "status": "Success",
      "stepName": "Check Member Tier",
      "stepType": "Condition"
    },
    {
      "actionParameters": [
        {
          "name": "ProgramCurrencyName",
          "operator": "Equals",
          "value": {
            "expression": "VroomKing",
            "expressionValue": {
              "dataType": "Text",
              "value": "VroomKing"
            },
```

```
                    "parameterValues": {}
                  }
                },
                {
                  "name": "PointsToCredit",
                  "operator": "Equals",
                  "value": {
                    "expression": "{!DoublePoints}",
                    "expressionValue": {
                      "dataType": "Number",
                      "value": 250
                    },
                    "parameterValues": {
                      "TransactionJournal.TransactionAmount": {
                        "dataType": "Number",
                        "value": 125
                      }
                    },
                    "resolvedExpression": "({!TransactionJournal.TransactionAmount}
* 2)"
                  }
                },
                {
                  "name": "Notes",
                  "operator": "Equals",
                  "value": {
                    "expression": "Base Points For Transaction",
                    "expressionValue": {
                      "dataType": "Text",
                      "value": "Base Points For Transaction"
                    },
                    "parameterValues": {}
                  }
                }
              ],
              "actionType": "CreditPoints",
              "sequenceNumber": 2,
              "status": "Success",
              "stepName": "Credit Base Points For Transaction",
              "stepType": "Action"
            }
          ]
        },
        {
          "actionResultSummary": [],
          "errorMessage": "This rule didn’t process the transaction journal because
the activity date of the transaction journal isn’t between the start date and the end
date of the Holiday Season Promotion promotion.",
          "executionStatus": "Failed",
          "executionSummary": {
            "pointsSummary": [],
            "vouchersIssuedCount": 0
          },
          "processRuleName": "Rule 2",
```

```
"promotionName": "Holiday Season Promotion",
"ruleSteps": [
  {
    "actionParameters": [
      {
        "name": "VoucherExpirationDate",
        "operator": "Equals",
        "value": {
          "expression": "DATEVALUE(&quot;2023-01-31 00:00:00&quot;)",
          "expressionValue": {
            "dataType": "Date",
            "value": "DATEVALUE(&quot;2023-01-31 00:00:00&quot;)"
          },
          "parameterValues": {}
        }
      },
      {
        "name": "VoucherDiscountPercentage",
        "operator": "Equals",
        "value": {
          "expression": "10",
          "expressionValue": {
            "dataType": "Number",
            "value": "10"
          },
          "parameterValues": {}
        }
      },
      {
        "name": "VoucherCode",
        "operator": "Equals",
        "value": {
          "expression": "&quot;QWDBHYWIGFOIHW&quot;",
          "expressionValue": {
            "dataType": "Text",
            "value": "&quot;QWDBHYWIGFOIHW&quot;"
          },
          "parameterValues": {}
        }
      },
      {
        "name": "VoucherEffectiveDate",
        "operator": "Equals",
        "value": {
          "expression": "DATEVALUE(&quot;2022-12-24 00:00:00&quot;)",
          "expressionValue": {
            "dataType": "Date",
            "value": "DATEVALUE(&quot;2022-12-24 00:00:00&quot;)"
          },
          "parameterValues": {}
        }
      },
      {
        "name": "Notes",
```

```
                    "operator": "Equals",
                    "value": {
                      "expression": "Holiday Season Voucher",
                      "expressionValue": {
                        "dataType": "Text",
                        "value": "Holiday Season Voucher"
                      },
                      "parameterValues": {}
                    }
                  },
                  {
                    "name": "VoucherDefinitionName",
                    "operator": "Equals",
                    "value": {
                      "expression": "TimeBasedVoucherDef",
                      "expressionValue": {
                        "dataType": "Text",
                        "value": "TimeBasedVoucherDef"
                      },
                      "parameterValues": {}
                    }
                  }
                ],
                "actionType": "IssueVoucher",
                "errorMessage": "",
                "sequenceNumber": 1,
                "status": "CriteriaNotMet",
                "stepName": "Issue Holiday Season Voucher",
                "stepType": "Action"
              }
            ]
          }
        ]
      }
    ]
  },
  "status": true
}
```


## Loyalty Program Process

Run a loyalty process created from a loyalty program process template.

Out-of-the-box loyalty program process templates come with a default set of process parameters. You can configure new parameters or remove the default ones by simply cloning a template and running the configured parameters as a customized loyalty process using the loyalty program process API. For example, when using the *CreditPointsToMembers* process template to credit points to a loyalty member, you can configure the currency value so that the credited points can be redeemed in the currency you've specified.

The request and response parameters for the loyalty program process API vary depending on the input and output parameters configured for a loyalty program process in a Salesforce org.

**Resource**

```
/connect/loyalty/programs/${programName}/program-processes/${processName}
```

### Resource examples

| Loyalty Process API | Loyalty Process Template Name | Description |
|---|---|---|
| /connect/loyalty/programs/***DemoProgram***/program-processes/***CancelVoucher*** | CancelVoucher | Cancel a voucher. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***CreditPointsToMembers*** | CreditPointsToMembers | Credit pre-calculated points to a loyalty member on every transaction. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***DebitPointsFromMembers*** | DebitPointsFromMembers | Redeem a loyalty member's pre-calculated points on a transaction. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***EnrollInPromotion*** | EnrollInPromotion | Enroll a loyalty member to a promotion. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***GetMemberPromotions*** | GetMemberPromotions | View eligible promotions of a loyalty member. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***IssueVoucher*** | IssueVoucher | Issue a new voucher to a loyalty member. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***UnenrollMember*** | UnenrollMember | Unenroll a member from a loyalty program. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***UpdateMemberDetails*** | UpdateMemberDetails | Update a loyalty member profile. |
| /connect/loyalty/programs/***DemoProgram***/program-processes/***UpdateTier*** | TierProcessing | Change the tier for a loyalty member. |

### Available version

56.0

### Requires Chatter

No

### HTTP methods

POST

### Request parameters

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `programName` | String | Name of the loyalty program. | Required | 56.0 |
| `processName` | String | Name of the process created from a loyalty program process template. | Required | 56.0 |

### Request body for POST

#### Properties

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `processParameters` | Loyalty Process Parameter Map | Input parameters for running the loyalty process. | Required | 56.0 |

### Response body for POST

Loyalty Process Output

Cancel a Voucher

Change the status of a voucher to canceled.

Credit Points to Members

Credit pre-calculated points to a loyalty member on every transaction.

Debit Points from Members

Redeem a loyalty member's pre-calculated points on a transaction.

Enroll for Promotions

Enroll a loyalty member to a promotion.

Get Member Promotions

View all eligible promotions of a loyalty member.

Issue a Voucher

Issue a new voucher to a loyalty member.

Unenroll a Member

Unenroll a member from a loyalty program.

Opt Out from a Promotion

Opt out a loyalty program member from an available promotion.

Update Member Details

Update personal and preference details of a member.

Update Member Tier

Upgrade or downgrade tier for a loyalty member.

## Cancel a Voucher

Change the status of a voucher to canceled.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/cancelVoucher
```

The request and response parameters vary depending on the input and output parameters configured for the *CancelVoucher* process type in a Salesforce org.

### Sample JSON Requests

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's a sample request with a member ID and voucher ID

```
{
   "processParameters":[
      {
         "MemberId":"0lMxx00000000BJEAY",
         "VoucherId":"0kdxx000000000B245"
      }
   ]
}
```

Here's a sample request with a membership number and voucher code

Note: If the voucher code isn't unique, provide either a voucher ID or a number.

```
{
   "processParameters":[
      {
         "MembershipNumber":"003",
         "VoucherCode":"15OFF"
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "VoucherId":"0kDRM0000004Ct22AE"
            }
         ]
      }
   },
```

```
   "simulationDetails":{

   },
   "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using Cancel Voucher Process Template

## Credit Points to Members

Credit pre-calculated points to a loyalty member on every transaction.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/credit
 Points
```

The request and response parameters vary depending on the input and output parameters configured for the `CreditPointsToMembers` process type in a Salesforce org.

### Sample JSON Requests

**Note:** Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:

```
{
   "processParameters":[
      {
         "TransactionJournal":{
            "ActivityDate":"2023-08-27T00:00:00Z",
            "ExternalTransactionNumber":"1",
            "InvoiceDate":"2023-08-23",
            "JournalTypeName":"Accrual",
            "MemberId":"0lMRM0000004G5h2AE",
            "TransactionAmount":"45.0",
            "CurrencyIsoCode":"USD",
            "Status":"Processed"
         },
         "PointsToCredit":100.0
      }
   ]
}
```

Here's an example with a membership number:

```
{
   "processParameters":[
      {
         "TransactionJournal":{
            "ActivityDate":"2023-08-27T00:00:00Z",
```

```
            "ExternalTransactionNumber":"1",
            "InvoiceDate":"2023-08-23",
            "JournalTypeName":"Accrual",
            "MembershipNumber":"M1256",
            "TransactionAmount":"45.0",
            "CurrencyIsoCode":"USD",
            "Status":"Processed"
         },
         "PointsToCredit":100.0
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "PointsCredited":100.0
            }
         ]
      }
   },
   "simulationDetails":{

   },
   "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using Credit Points to Member Process Template

## Debit Points from Members

Redeem a loyalty member's pre-calculated points on a transaction.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/debit
 Points
```

The request and response parameters vary depending on the input and output parameters configured for the *DebitPointsFromMembers* process type in a Salesforce org.

### Sample JSON Requests

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:

```
{
  "processParameters": [
    {
      "TransactionJournal": {
        "ActivityDate": "2023-08-27T00:00:00Z",
        "ExternalTransactionNumber": "1",
        "InvoiceDate": "2023-08-23",
        "JournalTypeName": "Redemption",
        "MemberId":"0lMRM0000004G5h2AE",
        "TransactionAmount": "45.0",
        "CurrencyIsoCode":"USD",
        "Status":"Processed"
      },
      "PointsToDebit": 200.0
    }
  ]
}
```

Here's an example with a membership number:

```
{
  "processParameters": [
    {
      "TransactionJournal": {
        "ActivityDate": "2023-08-27T00:00:00Z",
        "ExternalTransactionNumber": "1",
        "InvoiceDate": "2023-08-23",
        "JournalTypeName": "Redemption",
        "MembershipNumber": "M1256",
        "TransactionAmount": "45.0",
        "CurrencyIsoCode":"USD",
        "Status":"Processed"
      },
      "PointsToDebit": 200.0
    }
  ]
}
```

## Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "PointsDebited":200.0
            }
         ]
      }
   },
   "simulationDetails":{
```

```
    },
    "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using Debit Points from Member Process Template

## Enroll for Promotions

Enroll a loyalty member to a promotion.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/Enroll
 Promotion
```

The request and response parameters vary depending on the input and output parameters configured for the *EnrollInPromotion* process type in a Salesforce org.

### Sample JSON Requests

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID and promotion ID:

```
{
   "processParameters":[
      {
         "MemberId":"0lMxx00000000BJEAY",
         "PromotionId":"0c8xx00000000BJEAY"
      }
   ]
}
```

Here's an example with a membership number and promotion name:

```
{
   "processParameters":[
      {
         "MembershipNumber":"M1234",
         "PromotionName":"Flat20"
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
```

```
            "results":[
               {
                  "MemberId":"0lMRM0000004GBn2AM",
                  "LoyaltyProgramMbrPromotionId":"1lpRM0000004CEmYAM"
               }
            ]
         }
      },
      "simulationDetails":{

      },
      "status":true
}
```


SEE ALSO:

*Loyalty Management Help*: Create a Process Using Enroll in Promotion Process Template

## Get Member Promotions

View all eligible promotions of a loyalty member.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/View
 Promotions
```

The request and response parameters vary depending on the input and output parameters configured for the *GetMemberPromotions* process type in a Salesforce org.

### Sample JSON Requests

**Note:** Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:


```
{
   "processParameters":[
      {
         "MemberId":"0lMRM0000004G5h2AE"
      }
   ]
}
```


Here's an example with a membership number:


```
{
   "processParameters":[
      {
         "MembershipNumber":"M1234"
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "promotionEnrollmentRqr":false,
               "loyaltyPromotionType":"STANDARD",
               "memberEligibilityCategory":"Eligible",
               "promotionName":"doc_promo_1",
               "promotionId":"0c8RM0000004DnXYAU",
               "startDate":"2022-09-01"
            }
         ]
      }
   },
   "simulationDetails":{

   },
   "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using Get Member Promotions Process Template

## Issue a Voucher

Issue a new voucher to a loyalty member.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/Issue
 Voucher
```

The request and response parameters vary depending on the input and output parameters configured for the *IssueVoucher* process type in a Salesforce org.

### Sample JSON Request

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:

```
{
   "processParameters":[
      {
         "MemberId":"0lMxx00000000BJEAY",
         "VoucherCode":"15OFF",
         "VoucherFaceValue":15,
         "VoucherExpirationDate":"2022-07-13"
```

```
        }
    ]
}
```

Here's an example with a membership number:

```
{
    "processParameters":[
        {
            "MembershipNumber":"003",
            "VoucherCode":"15OFF",
            "VoucherDiscountPercentage":20
        }
    ]
}
```

### Sample JSON Response

```
{
    "message":null,
    "outputParameters":{
        "outputParameters":{
            "results":[
                {

                }
            ]
        }
    },
    "simulationDetails":{

    },
    "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using Issue Voucher Process Template

## Unenroll a Member

Unenroll a member from a loyalty program.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/unenroll
 Member
```

The request and response parameters vary depending on the input and output parameters configured for the *UnenrollMember* process type in a Salesforce org.

### Sample JSON Requests

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:

```
 {
   "processParameters":[
      {
         "MemberId":"0lMRM0000004G6f2AE"
      }
   ]
}
```

Here's an example with a membership number:

```
{
   "processParameters":[
      {
         "CurrentMembershipNumber":"007"
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "MemberId":"0lMRM0000004F152AE"
            }
         ]
      }
   },
   "simulationDetails":{

   },
   "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using Unenroll Member Process Template

## Opt Out from a Promotion

Opt out a loyalty program member from an available promotion.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/Leave
 Promotion
```

The request and response parameters vary depending on the input and output parameters configured for the *OptOutPromotion* process type in a Salesforce org.

### Sample JSON Requests

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a membership number and promotion name:

```
{
   "processParameters":[
      {
         "MembershipNumber":"M1",
         "PromotionName":"Promo1"
      }
   ]
}
```

Here's an example with a member ID and promotion ID:

```
{
   "processParameters":[
      {
         "MemberId":"0lMRM0000004F152AE",
         "PromotionId":"1lpxx00000000CvAAI"
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "LoyaltyProgramMbrPromotionId":"1lpxx00000000CvAAI"
            }
         ]
      }
   },
   "simulationDetails":{

   },
   "status":true
}
```

## Update Member Details

Update personal and preference details of a member.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/Update
 Member Details
```

The request and response parameters vary depending on the input and output parameters configured for the *UpdateMemberDetails* process type in a Salesforce org.

### Sample JSON Request

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:

```
{
   "processParameters":[
      {
         "MemberId":"0lMRM0000004G5h2AE",
         "MembershipNumber":"M1234",
         "Email":"adam.smith@nto.com",
         "EnrollmentDate":"2023-05-28",
         "LastName":"Smith"
      }
   ]
}
```

Here's an example with a current membership number:

```
{
   "processParameters":[
      {
         "CurrentMembershipNumber":"M1234",
         "MembershipNumber":"M1234",
         "Email":"adam.smith@nto.com",
         "EnrollmentDate":"2023-05-28",
         "LastName":"Smith"
      }
   ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "outputParameters":{
         "results":[
            {
               "MemberId":"0lMRM0000004F102AE",
```

```
                "ContactId":"003RM0000088CugYAE",
                "TransactionJournalId":null
            }
        ]
    }
},
"simulationDetails":{

},
"status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using the Update Member Details Process Template

## Update Member Tier

Upgrade or downgrade tier for a loyalty member.

### Example URL

```
https://yourInstance.salesforce.com/services/data/v65.0/connect/loyalty/programs/DemoProgram/program-processes/update
 Tier
```

The request and response parameters vary depending on the input and output parameters configured for the *TierProcessing* process type in a Salesforce org.

### Sample JSON Requests

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's an example with a member ID:

```
{
   "processParameters":[
      {
         "MemberId":"0lMRM0000004GBs2AM",
         "NewTier":"Gold",
         "ReasonForChange":"update tier"
      }
   ]
}
```

Here's an example with a membership number:

```
{
   "processParameters":[
      {
         "MembershipNumber":"M2_Chloe_Sun",
         "NewTier":"Gold",
         "ReasonForChange":"update tier"
      }
```

```
    ]
}
```

### Sample JSON Response

```
{
   "message":null,
   "outputParameters":{
      "results":[
         {
            "CurrentTier":"Gold",
            "TierExpirationDate":"2023-10-31",
            "PreviousTier":"Silver",
            "EffectiveDate":"2023-09-07"
         }
      ]
   },
   "simulationDetails":{

   },
   "status":true
}
```

SEE ALSO:

*Loyalty Management Help*: Create a Process Using the Change Member Tier Process Template

## Gamification

Who doesn't like to play a game? Engage your customers more by gamifying customer activities, such as placing an order, or events, such as birthdays and anniversaries.

Assign eligible games to a customer, let the customer play the game, and then win a reward on an external system using the gamification REST APIs.

Games

Get a list of eligible, expired, and played games, such as Spin the Wheel, or Scratch card, for a loyalty program member, an account, or a contact.

Game Reward

Get the details of the reward that's provided to a participant after the participant plays a Spin the Wheel, or Scratch Card game.

### Games

Get a list of eligible, expired, and played games, such as Spin the Wheel, or Scratch card, for a loyalty program member, an account, or a contact.

**Resource**

```
/game/participant/${participantId}/games
```

**Resource Example**

```
https://yourInstance.salesforce.com/services/data/v65.0/game/participant/01MRM0000004FHX2A2/games
```

```
https://yourInstance.salesforce.com/services/data/v65.0/game/participant/01MRM0000004FHX2A2/games?definitionId=3GDxx0000004CAeGAM
```

```
https://yourInstance.salesforce.com/services/data/v65.0/game/participant/01MRM0000004FHX2A2/games?gameParticipantRewardId=3PRSB0000000hjJ4AQ
```

**Available version**

60.0

**HTTP methods**

GET

**Query parameters for GET**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `definitionId` | String | ID of the game definition associated with the game whose details are to be fetched. | Optional | 60.0 |
| `gameParticipantRewardId` | String | ID of the participant's game reward associated with the game whose details are to be fetched. | Optional | 60.0 |

**Response body for GET**

Games List

## Game Reward

Get the details of the reward that's provided to a participant after the participant plays a Spin the Wheel, or Scratch Card game.

**Resource**

```
/game/gameparticipantreward/${gameParticipantRewardId}/game-reward
```

**Resource Example**

```
https://yourInstance.salesforce.com/services/data/v65.0/game/gameparticipantreward/3PRSB0000000hjJ4AQ/game-reward
```

**Available version**

60.0

**HTTP methods**

GET

**Response body for GET**

Game Result

# Promotion

The promotion APIs allow you to set eligibility rules and limits for a promotion, choose a promotion template, and create a promotion. You can also get the details of a specific promotion, and view a list of eligible promotions for a customer's cart.

Eligible Promotions

Get eligible promotions and their associated rewards for a cart and its line items.

Promotion Configuration

View configuration of a promotion, including its definition, eligibility criteria, rules, limits, and related rule library version. The Promotion Configuration API enables developers and system integrators in your company to view the configuration of active promotions in your Salesforce org and export the configuration to external systems such as offline point-of-sale (POS) systems. The Promotion Configuration API is only available in orgs where Global Promotions Management is available.

Clone Promotion

Clone an existing promotion along with its associated records

Coupon Usage Increase

Increase the usage count of a list of coupons.

Coupon Usage Decrease

Decrease the usage count of a list of coupons.

Promotions Creation (POST, PUT)

Create a promotion based on the provided promotion limits and eligibility conditions.

Promotion Details (GET, PUT)

Retrieve the details of a promotion. Update a promotion record.

Promotion Execution (POST)

Evaluate cart details and return the adjusted price of cart and line items after applying eligible promotions based on the selected promotion evaluation and execution method.

Promotion Recommendations

Retrieve the list of promotions recommended for a customer or a loyalty program member based on the product and personalization point.

Promotion Reward Application (POST)

Create and process transaction journals for customer orders, and apply the relevant promotions for the orders.

## Eligible Promotions

Get eligible promotions and their associated rewards for a cart and its line items.

Note: Ensure that the Context Definitions and Context Rule Library settings are enabled in your Salesforce org.

**Resource**

```
/global-promotions-management/eligible-promotions
```

**Resource example**

```
https://yourInstance.salesforce.com/services/data/v65.0/global-promotions-management/eligible-promotions
```

**Available version**

60.0

**HTTP methods**

POST

### Query Parameters

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `ruleLibraryApiName` | String | Enter the API Name of an active Rule Library with the Usage Type as Global Promotion Management. This parameter allows the API to check the eligibility of the cart against the Promotions associated with the specified Rule Library. | Optional | 62.0 |

Note: This query parameter is required if there are multiple active rule libraries configured with the Usage Type as Global Promotion Management.

### Request body for POST

#### Root XML tag

`CartInputMapRepresentation`

#### JSON examples

Here's an example of the details of a customer's cart whose eligible promotions are to be fetched:

Note: Provide `contactId` to retrieve campaigns related to a Person Account.

```
{
    "cart": {
        "cartDetails": [
            {
                "activityStartDate": "2023-06-14T12:45:19Z",
                "contactId/loyaltyProgramMemberId/accountId": "003xx000004WjzAAAS",
                "transactionAmount": 499,
                "currencyISOCode": "USD",
                "engagementChannelId": "0eFxx0000000008EAA",
                "sourceLocationId/sourceLocation": "0YQxx0000000001GAA",
                "cartLineDetails": [
                    {
                        "cartLineProduct": "Burger",
                        "cartLineProductCode": "testProductCode",
                        "cartLineProductStockKeepingUnit": "testSKU",
                        "cartLineProductCatalog" : "Food",
                        "cartLineItemQuantity": 1,
                        "cartLineItemAmount": 100,
                        "cartLineProductCategory":"test"
                    }
                ]
            }
        ]
    }
}
```

Here's an example of the details of a loyalty program member's cart whose eligible loyalty program promotions are to be fetched:

```
{
   "cart":{
      "cartDetails":[
         {
            "activityStartDate":"2023-06-14T12:45:19Z",
            "contactId/loyaltyProgramMemberId/accountId": "003xx000004WjzAAAS"
            "currencyISOCode":"INR",
            "transactionAmount":499,
            "membershipNumber":"Member-005",
            "cartLineDetails":[
               {
                  "cartLineProductId":"01txx0000006iTsAAI",
                  "cartLineProductCode": "AnyProductCode",
                  "cartLineProductStockKeepingUnit": "AnySKU",
                  "cartLineItemQuantity":2,
                  "cartLineItemAmount":99,
                  "cartLineProductCatalogId:"0ZSSB0000002d8X4AQ"
               },
               {
                  "cartLineProduct":"Coke",
                  "cartLineProductCode": "AnyProductCode",
                  "cartLineProductStockKeepingUnit": "AnySKU",
                  "cartLineItemQuantity":10,
                  "cartLineItemAmount":400,
                  "cartLineProductCatalog:"Beverages"
               }
            ]
         }
      ]
   }
}
```

Here's an example to fetch eligible loyalty program promotions for accounts:

```
{
    "cart": {
      "cartDetails": [
        {
          "activityStartDate": "2024-10-16T22:45:19Z",
          "accountId": "001xx000003H3NnAAK",
          "transactionAmount": 40,
          "currencyISOCode": "USD",
          "cartLineDetails": [
            {
              "cartLineProductCatalog": "Beverages",
              "cartLineProductCategory": "Coffee Creations",
              "cartLineProduct": "Caramel Latte",
              "cartLineItemQuantity": 5
            }
          ]
        }
      ]
```

```
    }
  }
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `cart` | Map<String, Object> | Fields configured in the **Cart** and **CartLine** nodes of the *`CartDetailGetEligiblePromotion`* context service definition in your org. These fields represent the details of a cart and its line items whose eligible promotions are to be fetched.<br>To get eligible promotions associated with a loyalty program member's cart, the required parameters are:<br>• `membershipNumber` or `loyaltyProgramMemberId`<br>• `currencyISOCode`<br>For other eligible promotions, the required parameters are:<br>• `contactId`, `contactLastName`, or `contactEmail`<br>• `currencyISOCode`<br>Along with the required parameters, provide specific details of a cart, such as the total transaction amount, and the cart line item details, such as the line item quantity and amount, the product ID or name, the product catalog ID or name, the product code, and the product stock keeping unit. | Required | 60.0 |

**Response body for POST**

Eligible Promotions List

## Promotion Configuration

View configuration of a promotion, including its definition, eligibility criteria, rules, limits, and related rule library version. The Promotion Configuration API enables developers and system integrators in your company to view the configuration of active promotions in your Salesforce org and export the configuration to external systems such as offline point-of-sale (POS) systems. The Promotion Configuration API is only available in orgs where Global Promotions Management is available.

**Resource**

```
/global-promotions-management/promotions/${promotionId}/configuration
```

**Available version**

61.0

**HTTP methods**

GET

**Request parameters for GET**

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| promotionId | String | ID of the active promotion you want to view.The ID must belong to a promotion whose rules are configured using a non-Loyalty promotion template. | Required | 61.0 |
| relatedObjectAndFieldApiNames | String[] | The list of related object fields whose details you want to view for the promotion. To view the details of a field, specify the API name of the object that the field belongs to and the API name of the field, separated by a period. relatedObjectAndFieldApiNames can pass only one field per object. | Optional | 61.0 |

**Response body for GET**

Promotion Configuration Output on page 492

## Clone Promotion

Clone an existing promotion along with its associated records

**Resource**

```
/promotions/clone
```

**Available version**

61.0

**HTTP methods**

POST

**JSON example**

```
{
  "sourcePromotionId": "0c8xx00000000WHAAY",
  "name": "ups clone 4",
  "startDateTime": "2024-01-08T00:00:00.000Z",
  "endDateTime": "2024-01-09T00:00:00.000Z",
  "promotionCode": "sdfgy543wsd",
  "doesReuseEngagementAttributes":"true",
```

```
  "additionalFieldValues": {
    "additionalFieldValuesMap": {
      "Description": "test ups clone"
    }
  },
  "relatedRecords": {
    "relatedRecordsList": [
      {
        "relatedObjectApiName": "PromotionChannel",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
       "relatedObjectApiName": "PromotionLoyaltyPtnrProdt",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
        {
       "relatedObjectApiName": "PromotionMarketSegment",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
        "relatedObjectApiName": "PromotionProduct",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
        "relatedObjectApiName": "PromotionProductCategory",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
        "relatedObjectApiName": "PromotionLimit",
        "relatedObjectPromotionFieldName": "PromotionId"
      }
    ]
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| additionalFieldValues | Map<String, String> | The details of the promotion's additional fields. | Small, 61.0 | 61.0 |
| doReuseEngagementAttributes | Boolean | Indicates whether the new promotion uses the engagement attributes created for the source promotion to track customers' promotion usage. | Small, 61.0 | 61.0 |
| endDateTime | String | The end date and time of the new promotion. | Small, 61.0 | 61.0 |
| name | String | The name of the new promotion. | Small, 61.0 | 61.0 |
| promotionCode | String | The code of the new promotion. | Small, 61.0 | 61.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| relatedRecords | Related Promotion Records Input [] on page 423 | The related record for the source promotion that have to be created for the new promotion. | Small, 61.0 | 61.0 |
| sourcePromotionId | String | The ID of the promotion that's cloned. | Small, 61.0 | 61.0 |
| startDateTime | String | The start date and time of the new promotion. | Small, 61.0 | 61.0 |

**Response body for POST**

Clone Promotion Output on page 454

## Coupon Usage Increase

Increase the usage count of a list of coupons.

Example:

**Resource**

```
/services/data/vXX.X/global-promotions-management/coupons/usage-increase
```

**Examples**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/global-promotions-management/coupons/usage-increase
```

```
https://yourInstance.salesforce.com/services/data/vXX.X
/global-promotions-management/coupons/usage-increase
```

**Available version**

62.0

**Requires Chatter**

No

**HTTP methods**

POST

**Request body for POST**

The request body is available in version 62.0 and later.

**JSON example**

```
{
  "couponCodeList": [
    "QWERTY",
    "ABCD"
  ],
  "activityDateTime": "2024-10-05T12:45:19Z",
  "externalTransactionNumber": "0lVxx000000006T",
  "customerId": "0lMxx0000000001"
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| couponCodeList | List<String> | The codes of the list of coupons for which the usage must be increased or decreased. | Required | 62.0 |
| activityDateTime | DateTime | The date and time at which the customer redeemed the coupon. | Required | 62.0 |
| externalTransactionNumber | String | The externally generated unique identifier of cart for which the customer redeemed the coupon. This ID must be the same in both the decrease and increase usage APIs so that the API can correctly track coupon usage for the originating transaction. | Required | 62.0 |
| customerId | String | The ID of either the contact, the account, or the loyalty program member who redeemed the coupon. | Required | 62.0 |

**Response body for POST**

Coupon Usage Result on page 453

## Coupon Usage Decrease

Decrease the usage count of a list of coupons.

Example:

**Resource**

```
/services/data/vXX.X/global-promotions-management/coupons/usage-decrease
```

**Examples**

```
https://yourInstance.salesforce.com/services/data/vXX.X
/global-promotions-management/coupons/usage-decrease
```

```
https://yourInstance.salesforce.com/services/data/vXX.X
/global-promotions-management/coupons/usage-decrease
```

**Available version**

62.0

**Requires Chatter**

No

**HTTP methods**

POST

### Request body for POST

The request body is available in version 62.0 and later.

#### JSON example

```
{
  "couponCodeList": [
    "QWERTY",
    "ABCD"
  ],
  "activityDateTime": "2024-10-05T12:45:19Z",
  "externalTransactionNumber": "0lVxx000000006T",
  "customerId": "0lMxx0000000001"
}
```

#### Properties

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| couponCodeList | List<String> | The codes of the list of coupons for which the usage must be increased or decreased. | Required | 62.0 |
| activityDateTime | DateTime | The date and time at which the customer redeemed the coupon. | Required | 62.0 |
| externalTransactionNumber | String | The externally generated unique identifier of cart for which the customer redeemed the coupon. This ID must be the same in both the decrease and increase usage APIs so that the API can correctly track coupon usage for the originating transaction. | Required | 62.0 |
| customerId | String | The ID of either the contact, the account, or the loyalty program member who redeemed the coupon. | Required | 62.0 |

### Response body for POST

Coupon Usage Result on page 453

## Promotions Creation (POST, PUT)

Create a promotion based on the provided promotion limits and eligibility conditions.

### Resource

```
/global-promotions-management/promotions
```

### Resource example

```
https://yourInstance.salesforce.com/services/data/v65.0/global-promotions-management/promotions
```

**Available version**
64.0

**HTTP methods**
POST PUT

**Response body for GET**
Promotion

**Request body for POST**

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| promotionDetails | Unified Promotions Input[] | Configuration of the promotion | | 64.0 |
| rules | Unified Promotion Template Input[] | List of rules that are configured for a promotion. | | 64.0 |

**Response body for POST**
Promotion

**Request body for PUT**

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| promotionDetails | Unified Promotions Input[] | Configuration of the promotion | | 64.0 |
| rules | Unified Promotion Template Input[] | List of rules that are configured for a promotion. | | 64.0 |

**Response body for PUT**
Promotion

## Promotion Details (GET, PUT)

Retrieve the details of a promotion. Update a promotion record.

Note: To update an existing promotion, you must first deactivate the promotion in the org.

**Resource**

```
/global-promotions-management/promotions/${promotionId}
```

**Resource example**

```
https://yourInstance.salesforce.com/services/data/v65.0/global-promotions-management/promotions/${promotionId}
```

**Available version**
60.0

**HTTP methods**
GET, PUT

**Request body for PUT**

**Root XML tag**
`unifiedPromotionsInputRepresentation`

**JSON example for POST and PUT**

```
{
  "promotionDetails": {
    "name": "Sample Promotion 6",
    "displayName": "Sample Promotion",
    "priorityNumber": 1,
    "description": "Sample promotion description",
    "promotionCode": "XYZ",
    "startDateTime": "2023-06-30T00:00:00.000Z",
    "endDateTime": "2023-12-30T00:00:00.000Z",
    "objective": "To increase sales",
    "isAutomatic": true,
    "loyaltyProgram": {
      "name": "NTO"
    },
    "additionalFieldValues": {
      "attributes": {
        "isUnifiedPromotion__c": true
      }
    },
    "promotionEligibility": {
      "productCatalog": {
        "id": "0ZSxx000000001dGAA"
      },
      "eligibleProductCategories": [
        {
          "id": "0ZGxx0000000001GAA"
        }
      ],
      "eligibleProducts": [
        {
          "name": "someProduct"
        }
      ],
      "eligibleChannels": [
        {
          "channelType": "***",
          "channel": {
            "id": "***",
            "name": "***"
          },
          "store": {
            "id": "***",
            "name": "***"
```

```
        },
        "retailLocationGroup": {
          "name": "***"
        }
      }
    ],
    "eligibleCampaign": {
      "name": "***"
    },
    "eligibleSegments": [
      {
        "name": "someSegment"
      }
    ],
    "eligibleCustomerEvents": {
      "event": "MemberBirthday",
      "eventPeriodUnit": ""
    },
    "eligibleEnrollmentPeriod": {
      "isEnrollmentRequired": true,
      "enrollmentStartDate": "",
      "enrollmentEndDate": ""
    },
    "eligibleLoyaltyPartnerProducts": [
      {
        "name": "",
        "id": ""
      }
    ],
    "eligibleLoyaltyTiers": [
      {
        "tierGroup": {
          "name": "",
          "id": ""
        },
        "tier": {
          "name": "",
          "id": ""
        }
      }
    ],
    "eligibleCoupons": [
      {
        "couponCode": "",
        "status": "",
        "description": "",
        "startDateTime": "",
        "endDateTime": "",
        "redemptionLimitOverall": "",
        "redemptionLimitPerCustomer": ""
      }
    ]
  },
  "promotionLimits": {
```

```
      "perLineItemLimit": 10,
      "pointsPerCustomerLimit": 5,
      "vouchersPerCustomerLimit": 5,
      "perCartLimit": 5,
      "usePerCustomerLimit": 5,
      "totalUseLimit": 25,
      "pointsLimit": 1000,
      "vouchersLimit": 100,
      "liabilityLimit": 10000,
      "loyaltyProgramCurrency": {
        "id": "0lcxx0000000001AAA"
      }
    }
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| additionalFieldValues | Map<String, String> | Custom, and additional field values that provide more details about the promotion. | Optional | 60.0 |
| businessUnit | Name And Id Input [] | ID or name of the Marketing Cloud business unit associated with the promotion.<br>To specify a business unit, you require the Marketing Cloud license. | Optional | 60.0 |
| currencyIsoCode | String | ISO code of the active currency associated with the promotion.<br>Before specifying the currency ISO code, ensure that your org supports multiple currencies. | Optional | 60.0 |
| description | String | Description of the promotion. | Optional | 60.0 |
| displayName | String | Display name of the promotion. | Optional | 60.0 |
| endDateTime | String | Date and time until which the promotion can be applied for customers. | Optional | 60.0 |
| isAutomatic | Boolean | Indicates whether the promotion is automatically applied for eligible carts. | | 63.0 |
| isEmailActivated | Boolean | Indicates whether the promotion's email has been activated (`true`) or not (`false`). If set to true, an email template is created for the promotion's email in the org. The default value is false. | Optional | Small, 60.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| loyaltyProgram | Name And Id Input [] | ID or name of the active loyalty program the promotion applies to.<br>You can't change the loyalty program of an existing promotion. | Optional | 60.0 |
| name | String | Unique name of the promotion. | Required | 60.0 |
| objective | String | Objective of the promotion. | Optional | 60.0 |
| priorityNumber | Integer | Number that determines the priority of the promotion in a list of eligible promotions.<br>Priority number must be greater than zero. | Optional | 60.0 |
| promotionCode | String | Unique code of the promotion. | Optional | 60.0 |
| promotionEligibility | Promotion Eligibility Input | Eligibility criteria of the promotion. | Optional | 60.0 |
| promotionLimits | Promotion Limit Input | Limits of the promotion, including the number of times the promotion can be applied for customers.<br>A promotion limit must be greater than zero. | Optional | 60.0 |
| ruleLibrary | String | The rule library associated with the promotion. | | 62.0 |
| startDateTime | String | Date and time from which the promotion can be applied for customers. | Required | 60.0 |
| termsAndConditions | String | The Terms and Conditions which may be applied to the Promotion. | | 63.0 |

## Promotion Execution (POST)

Evaluate cart details and return the adjusted price of cart and line items after applying eligible promotions based on the selected promotion evaluation and execution method.

**Resource**

```
/global-promotions-management/promotion-execution
```

**Resource example**

```
https://yourInstance.salesforce.com/services/data/v65.0/global-promotions-management/promotion-execution
```

**Available version**

65.0

### HTTP methods

POST

### Request parameters for POST

| Parameter Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| ruleLibraryApiName | String | API name of the Global Promotion Management type rule library that's associated with the promotions that you must check the cart's eligibility against. | Optional | 65.0 |

### Request body for POST

#### JSON example

```
{
  "cart": {
    "cartDetails": [
      {
        "cartHeaderId__std": "01ddf0000003kfMAAW",
        "currencyISOCode": "USD",
        "cartPromotionAdditionalInformation__std": [
          {
            "cartCouponCode__std": "CART5"
          }
        ],
        "cartLineDetails": [
          {
            "cartLineProductId": "01txx0000006kfMAAQ",
            "cartLineItemQuantity": 2,
            "cartLineItemAmount": 100,
            "cartLineItemId": "abcd1",
            "cartLineNetUnitPrice__std": 50,
            "cartLinePromotionAdditionalInformation__std": [
              {
                "cartLineCouponCode__std": "PIZZA5"
              }
            ]
          },
          {
            "cartLineProductId": "01txx0000006kfNAAQ",
            "cartLineItemQuantity": 2,
            "cartLineItemAmount": 10,
            "cartLineItemId": "abcd2",
            "cartLineNetUnitPrice__std": 5
          }
        ]
      }
    ]
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `cart` | Map<String, Object> | The details of a cart and its line items to evaluate and execute promotions. | Required | 65.0 |

**Response body for POST**

Cart

## Promotion Recommendations

Retrieve the list of promotions recommended for a customer or a loyalty program member based on the product and personalization point.

**Resource**

```
/promotions/recommendation/product-promotion
```

**Resource Example**

```
/promotions/recommendation/product-promotion?count=3&promotionsPerProductLimit=4
```

**Available version**

64.0

**HTTP methods**

POST

**Query Parameters**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `count` | Integer | The maximum number of promotion recommendations to retrieve. | | 64.0 |
| `promotionsPerProductLimit` | Integer | The maximum number of promotions that can be recommended for a product. (Note: The count supersedes the limit, suggesting that in case we put a limit of 3 for each product but it doesn't fullfill the count, it will display more promotions which depends on the count parameter) | | 64.0 |

**Request body for POST**

```
{
  "personalizationPoint": "string",
  "dataspace": "string",
  "membershipNumber": "string",
  "loyaltyProgramId": "string",
```

```
  "loyaltyProgramMemberId": "string",
  "individualId": "string",
  "eligibleChannel": {
    "channel": {
      "id": "string",
      "name": "string"
    },
    "retailStore": {
      "id": "string",
      "name": "string"
    }
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `dataspace` | String | The data space that defines the boundary of a personalization context. This API currently only works with your Data Cloud instance's default data space. | | 64.0 |
| `eligibleChannel` | Channel Input on page 393 | The details of a channel for which to retrieve eligible promotions. | | 64.0 |
| `individualId` | String | The ID of the of the individual for whom to retrieve recommended promotions. Optional if membership number or loyalty program member ID is provided. | | 64.0 |
| `loyaltyProgramId` | String | The loyalty program that the loyalty program member belongs to. The loyalty program ID is required when membership number is specified. | | 64.0 |
| `loyaltyProgramMemberId` | String | The ID of the of the loyalty program member for whom to retrieve recommended promotions. Optional if membership number or contact ID is provided. | | 64.0 |
| `membershipNumber` | String | The membership number of the loyalty program member for whom to retrieve recommended promotions. | | 64.0 |
| `personalizationPoint` | String | The API name of the personalization point. A personalization point is a connection between data, profile data, personalization type, and schema, used to deliver personalized content to customers. | | 64.0 |

**Response body for POST**

Promotion Recommendations on page 514

## Promotion Reward Application (POST)

Create and process transaction journals for customer orders, and apply the relevant promotions for the orders.

**Resource**

```
/global-promotions-management/promotion-reward
```

**Resource example**

```
https://yourInstance.salesforce.com/services/data/v65.0/global-promotions-management/promotion-reward
```

**Available version**

65.0

**HTTP methods**

POST

**Request body for POST**

**JSON example**

```
{
  "shouldCheckCouponUsageLimit": true,
  "transactionJournalList": [
    {
      "ActivityDate": "2025-10-08T12:45:19Z",
      "JournalTypeId": "0lET10000004CQp",
      "ReferredPartyId": "003SB00000U84F0YAJ",
      "Quantity": "1",
      "TransactionAmount": "5000",
      "CurrencyIsoCode": "USD",
      "Status": "Processed",
      "appliedPromotions": [
        {
          "promotionId": "0c8SB000000HASnYAO",
          "promotionCode": "GET10OFF",
          "couponCode": "COUPON100",
          "rewards": [
            {
              "rewardType": "ProvideDiscount",
              "discountAmount": 15
            },
            {
              "rewardType": "IssueVoucher",
              "voucherDefinitionName": "$100 off",
              "voucherCode": "SALE-4F8G-RT2P",
              "voucherEffectiveDate": "2025-10-09",
              "voucherExpirationDate": "2025-10-10",
              "notes": "discount voucher"
            },
            {
              "rewardType": "AssignGame",
              "gameDefinitionName": "SpintheWheelGame",
```

```
                "gameExpirationDate": "2025-10-10"
              }
            ]
          }
        ]
      }
    ]
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| shouldCheckCouponUsageLimit | Boolean | Indicates whether the API must execute the Coupon Usage Increase API to verify the coupon usage count and increase the redemption usage count of the specified coupon code (`true`) or not (`false`). | Optional | 65.0 |
| transactionJournalList | List<Map<String, Object>> | The list of transaction journals to create. | Required | 65.0 |

**Response body for POST**

Promotion Reward Application

# Request Bodies

Here's a list of Loyalty Management API request bodies.

Cart Input

The details of a cart and its line items that's used to evaluate and execute promotions.

Cart Input Map

Input representation of the summary of the cart whose eligible promotions are to be fetched.

Channel Input

The details of a channel for which to retrieve eligible promotions.

Clone Promotion Input

Input representation that decides which existing promotion is cloned and the attributes of the new promotion that's created.

Club Member Enrollment Input

The input representation to enroll a club member.

Club Membership Renewal Input

The input representation for club membership renewal.

Corporate Member Enrollment Input

Input representation for creating a business account and a Corporate type Loyalty Program Member record for the member.

Coupon Usage Input

Input representation of coupon usage.

Eligible Clubs Input

The club tier groups and tiers whose members are eligible for the promotion.

Eligible Coupon Input

The details of an eligible coupon for the promotion.

Eligible Enrollment Period Input

Input representation of the enrollment eligibility details for the promotion.

Eligible Loyalty Tiers Input

Input representation of the loyalty program tier whose members are eligible for the promotion.

Events Detail Input

Input representation of the details of the customer event that is eligible for the promotion.

Individual Member Enrollment Input

Input representation for creating a person account and an Individual type Loyalty Program Member record for the member.

Loyalty Engine Input

Input representation of the Loyalty Engine Runtime API.

Loyalty Engine Input Map

Input representation of the Transaction Journal record execution request.

Loyalty Engine Run Settings Input

Input representation of the loyalty engine settings to run simulation on the transaction journals.

Loyalty Account Input

Input representation for creating a business account for the member.

Loyalty Contact Input

Input representation of the loyalty program member's person account.

Loyalty Process Input

Input representation of the details of the loyalty program process action.

Loyalty Process Input Options

Input representation of the execution options for the loyalty process.

Loyalty Process Parameter Map Input

Input representation of the input parameters for the loyalty process.

Loyalty View Transaction Journal History Input

Input representation for getting the transaction journal records of a loyalty member.

Name And ID Input

Input representation of an object's name and ID.

Product Details

An input representation that contains specific details related to the product.

Promotion Eligible Channel Input

Input representation of the details of the channel eligible for the promotion.

Promotion Eligibility Input

Input representation of the eligibility criteria of the promotion.

Promotion Input

Input representation details of a promotion.

Promotion Limit Input

Input representation of the limits of the promotion.

Promotion Recommendation Input

The input representation to retrieve the recommended promotion.

Redeem Voucher Input

Input representation for voucher redemption.

Related Promotion Records Input

Input representation that decides which related records and fields of the existing promotion are cloned and associated with the new promotion.

Unified Promotions Input

Input representation of the configuration of the promotion to be created, or updated.

Unified Promotion Template Input

The input representation of a unified promotion template.

Promotion Reward Application Input

The details required to create transaction journals. The request includes a list of transaction journals, which are to be created. It includes the list of promotions applied along with the rewards. If any of the rewards aren't applied, then everything is rolled back. No partial rewards are applied.

## Cart Input

The details of a cart and its line items that's used to evaluate and execute promotions.

**JSON example**

```
{
  "cart": {
    "cartDetails": [
      {
        "cartHeaderId__std": "01ddf0000003kfMAAW",
        "currencyISOCode": "USD",
        "cartPromotionAdditionalInformation__std": [
          {
            "cartCouponCode__std": "CART5"
          }
        ],
        "cartLineDetails": [
          {
            "cartLineProductId": "01txx0000006kfMAAQ",
            "cartLineItemQuantity": 2,
            "cartLineItemAmount": 100,
            "cartLineItemId": "abcd1",
            "cartLineNetUnitPrice__std": 50,
            "cartLinePromotionAdditionalInformation__std": [
              {
                "cartLineCouponCode__std": "PIZZA5"
              }
            ]
          },
          {
            "cartLineProductId": "01txx0000006kfNAAQ",
```

```
            "cartLineItemQuantity": 2,
            "cartLineItemAmount": 10,
            "cartLineItemId": "abcd2",
            "cartLineNetUnitPrice__std": 5
          }
        ]
      }
    ]
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `cart` | Map<String, Object> | The details of a cart and its line items to evaluate and execute promotions. | Required | 65.0 |

## Cart Input Map

Input representation of the summary of the cart whose eligible promotions are to be fetched.

**Root XML tag**

`CartInputMapRepresentation`

**JSON examples**

Here's an example of the details of a customer's cart whose eligible promotions are to be fetched:

Note: Provide `contactId` to retrieve campaigns related to a Person Account.

```
{
    "cart": {
        "cartDetails": [
            {
                "activityStartDate": "2023-06-14T12:45:19Z",
                "contactId/loyaltyProgramMemberId/accountId": "003xx000004WjzAAAS",
                "transactionAmount": 499,
                "currencyISOCode": "USD",
                "engagementChannelId": "0eFxx0000000008EAA",
                "sourceLocationId/sourceLocation": "0YQxx0000000001GAA",
                "cartLineDetails": [
                    {
                        "cartLineProduct": "Burger",
                        "cartLineProductCode": "testProductCode",
                        "cartLineProductStockKeepingUnit": "testSKU",
                        "cartLineProductCatalog" : "Food",
                        "cartLineItemQuantity": 1,
                        "cartLineItemAmount": 100,
                        "cartLineProductCategory":"test"
                    }
                ]
            }
        ]
```

```
    }
}
```

Here's an example of the details of a loyalty program member's cart whose eligible loyalty program promotions are to be fetched:

```
{
   "cart":{
      "cartDetails":[
         {
            "activityStartDate":"2023-06-14T12:45:19Z",
            "contactId/loyaltyProgramMemberId/accountId": "003xx000004WjzAAAS"
            "currencyISOCode":"INR",
            "transactionAmount":499,
            "membershipNumber":"Member-005",
            "cartLineDetails":[
               {
                  "cartLineProductId":"01txx0000006iTsAAI",
                  "cartLineProductCode": "AnyProductCode",
                  "cartLineProductStockKeepingUnit": "AnySKU",
                  "cartLineItemQuantity":2,
                  "cartLineItemAmount":99,
                  "cartLineProductCatalogId:"0ZSSB0000002d8X4AQ"
               },
               {
                  "cartLineProduct":"Coke",
                  "cartLineProductCode": "AnyProductCode",
                  "cartLineProductStockKeepingUnit": "AnySKU",
                  "cartLineItemQuantity":10,
                  "cartLineItemAmount":400,
                  "cartLineProductCatalog:"Beverages"
               }
            ]
         }
      ]
   }
}
```

Here's an example to fetch eligible loyalty program promotions for accounts:

```
{
    "cart": {
      "cartDetails": [
        {
          "activityStartDate": "2024-10-16T22:45:19Z",
          "accountId": "001xx000003H3NnAAK",
          "transactionAmount": 40,
          "currencyISOCode": "USD",
          "cartLineDetails": [
            {
              "cartLineProductCatalog": "Beverages",
              "cartLineProductCategory": "Coffee Creations",
              "cartLineProduct": "Caramel Latte",
              "cartLineItemQuantity": 5
            }
          ]
```

```
            }
        ]
    }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `cart` | Map<String, Object> | Fields configured in the **Cart** and **CartLine** nodes of the *`CartDetailGetEligiblePromotion`* context service definition in your org. These fields represent the details of a cart and its line items whose eligible promotions are to be fetched.<br><br>To get eligible promotions associated with a loyalty program member's cart, the required parameters are:<br>• `membershipNumber` or `loyaltyProgramMemberId`<br>• `currencyISOCode`<br><br>For other eligible promotions, the required parameters are:<br>• `contactId`, `contactLastName`, or `contactEmail`<br>• `currencyISOCode`<br><br>Along with the required parameters, provide specific details of a cart, such as the total transaction amount, and the cart line item details, such as the line item quantity and amount, the product ID or name, the product catalog ID or name, the product code, and the product stock keeping unit. | Required | 60.0 |

## Channel Input

The details of a channel for which to retrieve eligible promotions.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `channel` | Name And ID Input on page 413 | The ID and/or name of the input records. | | 64.0 |
| `retailStore` | Name And ID Input on page 413 | The ID and/or name of the input records. | | 64.0 |

## Clone Promotion Input

Input representation that decides which existing promotion is cloned and the attributes of the new promotion that's created.

**JSON example**

```
{
  "sourcePromotionId": "0c8xx00000000WHAAY",
  "name": "ups clone 4",
  "startDateTime": "2024-01-08T00:00:00.000Z",
  "endDateTime": "2024-01-09T00:00:00.000Z",
  "promotionCode": "sdfgy543wsd",
  "doesReuseEngagementAttributes":"true",
  "additionalFieldValues": {
    "additionalFieldValuesMap": {
      "Description": "test ups clone"
    }
  },
  "relatedRecords": {
    "relatedRecordsList": [
      {
        "relatedObjectApiName": "PromotionChannel",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
       "relatedObjectApiName": "PromotionLoyaltyPtnrProdt",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
        {
       "relatedObjectApiName": "PromotionMarketSegment",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
        "relatedObjectApiName": "PromotionProduct",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
        "relatedObjectApiName": "PromotionProductCategory",
        "relatedObjectPromotionFieldName": "PromotionId"
      },
      {
        "relatedObjectApiName": "PromotionLimit",
        "relatedObjectPromotionFieldName": "PromotionId"
```

```
        }
      ]
    }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| additionalFieldValues | Map<String, String> | The details of the promotion's additional fields. | Small, 61.0 | 61.0 |
| doReuseEngagementAttributes | Boolean | Indicates whether the new promotion uses the engagement attributes created for the source promotion to track customers' promotion usage. | Small, 61.0 | 61.0 |
| endDateTime | String | The end date and time of the new promotion. | Small, 61.0 | 61.0 |
| name | String | The name of the new promotion. | Small, 61.0 | 61.0 |
| promotionCode | String | The code of the new promotion. | Small, 61.0 | 61.0 |
| relatedRecords | Related Promotion Records Input [] on page 423 | The related record for the source promotion that have to be created for the new promotion. | Small, 61.0 | 61.0 |
| sourcePromotionId | String | The ID of the promotion that's cloned. | Small, 61.0 | 61.0 |
| startDateTime | String | The start date and time of the new promotion. | Small, 61.0 | 61.0 |

## Club Member Enrollment Input

The input representation to enroll a club member.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| accountId | String | The ID of the associated account record. | | 64.0 |
| associatedAccountDetails | Loyalty Account Input on page 410 | The business account details of the member. | | 64.0 |
| associatedContactDetails | Loyalty Contact Input on page 410 | The contact associated with the club member. | | 64.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| clubMembershipNumber | String | The membership number of the club member. | | 64.0 |
| contactId | String | The contact details of the member. | | 64.0 |
| enrollmentDate | String | The date on which a member is enrolled into the club. | | 64.0 |
| loyaltyMembershipNumber | String | The membership number of the loyalty program member. | | 64.0 |
| memberStatus | String | The status of the club member. | | 64.0 |
| membershipBy | String | Member enrolled based on. | | 64.0 |
| membershipEndDate | String | The end date of the club membership. | | 64.0 |

## Club Membership Renewal Input

The input representation for club membership renewal.

**JSON example**

```
{
    "clubMembershipNumber": "ARC0001",
    "renewalPeriodType":"months",
    "renewalPeriod":"3",
    "notes":"",
    "externalIdentifier":"",
    "OrderItemId" : ""
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| clubMembershipEndDate | String | The end date of the club membership. | | 64.0 |
| clubMembershipNumber | String | The membership number of the club member. | | 64.0 |
| externalIdentifier | String | The external identifier of the club member. | | 64.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `loyaltyMembershipNumber` | String | The membership number of the loyalty program member. | | 64.0 |
| `notes` | String | Additional information about the club membership renewal. | | 64.0 |
| `orderItemId` | String | The order associated with the club membership. This field is a relationship field. | | 64.0 |
| `renewalPeriod` | Integer | The specific time period during which a club membership can be renewed. | | 64.0 |
| `renewalPeriodType` | String | The unit of time used to measure the renewal period for a club membership. For example, Days , Months, or Years. | | 64.0 |

## Corporate Member Enrollment Input

Input representation for creating a business account and a Corporate type Loyalty Program Member record for the member.

**Root XML tag**

```
<corporateMemberEnrollment>
```

**JSON example**

```
{
    "enrollmentDate" : "2021-01-01T05:05:05",
    "membershipNumber" : "Member123",
    "associatedAccountDetails" : {
        "name" : "Name1",
        "phone" : "908989898",
        "website" : "www.ab.com",
        "allowDuplicateRecords" : "false",
        "additionalAccountFieldValues" : {
            "attributes" : {
                "CustomNumber__c" : "20.0"
            }
        }
    },
    "memberStatus" : "Active",
    "referredBy" : "Member12",
    "referredByMemberReferralCode" : "MPX12adf",
    "createTransactionJournals" : "true",
    "transactionJournalStatementFrequency" : "Monthly",
    "additionalMemberFieldValues" : {
        "attributes" : {
            "CustomBoolean__c" : "true"
        }
```

```
    }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalMemberFieldValues` | Map<String, String> | The custom attributes of the member in the loyalty program member record.<br>• `Keys`<br>• `Values` | Optional | 55.0 |
| `associatedAccountDetails` | Loyalty Account Input | The business account details of the member. | Required | 55.0 |
| `canReceivePartnerPromotions` | Boolean | Indicates whether the member can receive partner promotions for the program (`true`) or not (`false`). | Optional | 55.0 |
| `canReceivePromotions` | Boolean | Indicates whether the member can receive promotions for the program. | Optional | 55.0 |
| `createTransactionJournals` | Boolean | Indicates whether to create the transaction journal records (`true`) or not (`false`) :<br>The transaction journal records are created to:<br>• Credit points to the member for enrolling.<br>• Credit points to the member who has referred the new member. | Optional | 55.0 |
| `enrollmentChannel` | String | The channel used by members to enroll into a loyalty program.<br>Possible values are:<br>• `CallCenter`<br>• `Email`<br>• `Franchise`<br>• `Mobile`<br>• `Partner`<br>• `Pos`<br>• `Print`<br>• `Social`<br>• `Store`<br>• `Web` | Optional | 55.0 |
| `enrollmentDate` | String | The date on which a member is enrolled. | Required | 55.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `memberStatus` | String | Status of the member. Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Custom value` | Required | 55.0 |
| `membershipEndDate` | String | The date on which the loyalty program member's membership ends. | Optional | 55.0 |
| `membershipNumber` | String | The unique membership number of the loyalty program member. | Required | 55.0 |
| `referredBy` | String | The ID of the loyalty program member who has referred the member. | Optional | 55.0 |
| `referredByMemberReferralCode` | String | The referral code of the loyalty program member who has referred the member. | Optional | 57.0 |
| `transactionJournalStatementFrequency` | String | The frequency at which transaction journal statements must be delivered to the member. Possible values are:<br>• `Daily`<br>• `Monthly`<br>• `Yearly` | Optional | 55.0 |
| `transactionJournalStatementMethod` | String | The method used to deliver transaction journal statements to the member.<br>Possible values are:<br>• `Email`<br>• `Mail` | Optional | 55.0 |

## Coupon Usage Input

Input representation of coupon usage.

**JSON example**

```
{
  "couponCodeList": [
    "QWERTY",
    "ABCD"
  ],
  "activityDateTime": "2024-10-05T12:45:19Z",
  "externalTransactionNumber": "0lVxx000000006T",
  "customerId": "0lMxx0000000001"
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| couponCodeList | List<String> | The codes of the list of coupons for which the usage must be increased or decreased. | Required | 62.0 |
| activityDateTime | DateTime | The date and time at which the customer redeemed the coupon. | Required | 62.0 |
| externalTransactionNumber | String | The externally generated unique identifier of cart for which the customer redeemed the coupon. This ID must be the same in both the decrease and increase usage APIs so that the API can correctly track coupon usage for the originating transaction. | Required | 62.0 |
| customerId | String | The ID of either the contact, the account, or the loyalty program member who redeemed the coupon. | Required | 62.0 |

## Eligible Clubs Input

The club tier groups and tiers whose members are eligible for the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| clubTier | String | The club's tier whose members are eligible for the promotion. | | 64.0 |
| clubTierGroup | String | The club's tier group whose members are eligible for the promotion. | | 64.0 |

## Eligible Coupon Input

The details of an eligible coupon for the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| couponCode | String | Specifies the coupon code that is eligible for the promotion. | | 63.0 |
| description | String | Specifies the description of the coupon that is eligible for the promotion. | | 63.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| endDateTime | String | Specifies the end date and time of the coupon eligible for the promotion. | | 63.0 |
| redemptionLimitOverall | Integer | Specifies the overall redemption limit of the coupon that is eligible for the promotion. | | 63.0 |
| redemptionLimitPerCustomer | Integer | Specifies the redemption limit per customer of the coupon that is eligible for the promotion. | | 63.0 |
| startDateTime | String | Specifies the start date and time of the coupon eligible for the promotion. | | 63.0 |
| status | String | Specifies the status of the coupon that is eligible for the promotion. | | 63.0 |

## Eligible Enrollment Period Input

Input representation of the enrollment eligibility details for the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| enrollmentEndDate | String | Date until which customers can enroll for the promotion. | Optional | 60.0 |
| enrollmentStartDate | String | Date from which customers can enroll for the promotion. | Optional | 60.0 |
| isEnrollmentRequired | Boolean | Indicates whether customers must enroll for the promotion (`true`) or not (`false`).<br>The default value is `false`. | Optional | 60.0 |

## Eligible Loyalty Tiers Input

Input representation of the loyalty program tier whose members are eligible for the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| tier | Name And Id Input [] | ID or name of the loyalty program tier whose members are eligible for the promotion. | Optional | 60.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `tierGroup` | Name And Id Input [] | ID or name of the loyalty program tier group whose members are eligible for the promotion. | Optional | 60.0 |

## Events Detail Input

Input representation of the details of the customer event that is eligible for the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `event` | String | Customer event eligible for the promotion. Possible values are:<br>• `CustomerBirthday`<br>• `MemberAnniversary`<br>• `MemberBirthday`<br>`MemberAnniversary` and `MemberBirthday` are valid only for the loyalty program-related promotions. | Optional | 60.0 |
| `eventPeriodUnit` | String | Period the promotion is eligible for. Possible values are:<br>• `Date`<br>• `Week`<br>• `Month` | Optional | 60.0 |

## Individual Member Enrollment Input

Input representation for creating a person account and an Individual type Loyalty Program Member record for the member.

**Root XML tag**

```
<individualMemberEnrollment>
```

**JSON example**

```
{
  "enrollmentDate" : "2021-01-01T00:00:00",
  "membershipNumber" : "Member1",
  "associatedContactDetails" : {
    "firstName" : "Name1",
    "lastName" : "Name2",
    "email" : "ab@email.com",
    "allowDuplicateRecords" : "false",
    "additionalContactFieldValues" : {
```

```
      "attributes" : {
        "PersonMailingCity" : "Delhi",
        "CustomNumber__c" : "20.0"      }
    }
  },

  "memberStatus" : "Active",
  "referredBy" : "Member2",
  "referredByMemberReferralCode" : "MPX12adf",
  "createTransactionJournals" : "true",
  "transactionJournalStatementFrequency" : "Monthly",
  "transactionJournalStatementMethod" : "Mail",
  "enrollmentChannel" : "Email",
  "canReceivePromotions": "true",
  "canReceivePartnerPromotions" : "true",
  "membershipEndDate" : "2022-01-01T00:00:00",
  "relatedCorporateMembershipNumber" : "Member3",
  "additionalMemberFieldValues" : {
    "attributes" : {
      "CustomBoolean__c" : "true"    }
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalMemberFieldValues` | Map<String, String> | The custom attributes of the member in the loyalty program member record.<br>• `Keys`<br>• `Values` | Required | 55.0 |
| `associatedContactDetails` | Loyalty Contact Input on page 410 | The person account record details of the individual type member. | Required | 55.0 |
| `canReceivePartnerPromotions` | Boolean | Indicates whether the member can receive partner promotions for the program (`true`) or not (`false`). | Optional | 55.0 |
| `canReceivePromotions` | Boolean | Indicates whether the loyalty program member can receive promotions. | Optional | 55.0 |
| `createTransactionJournals` | Boolean | Indicates whether to create the transaction journal records (`true`) or not (`false`) :<br>The transaction journal records are created to:<br>• Credit points to the member for enrolling.<br>• Credit points to the member who has referred the new member. | Optional | 55.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| enrollmentChannel | String | The channel used to by loyalty program member to enroll in to the loyalty program. Possible values are:<br>• Pos<br>• Web<br>• Email<br>• CallCenter<br>• Social<br>• Mobile<br>• Store<br>• Franchise<br>• Partner<br>• Print | Optional | 55.0 |
| enrollmentDate | Date | The date on which the loyalty program members are enrolled in to the loyalty program.<br>The format is: 2020-09-08T00:00:00 | Required | 55.0 |
| memberStatus | String | The status of the loyalty program member. Possible values are:<br>• Active<br>• Inactive<br>• Custom | Required | 55.0 |
| membershipEndDate | String | The date on which the loyalty program member's membership ends. | Optional | 55.0 |
| membershipNumber | String | The unique membership number of the loyalty program member. | Required | 55.0 |
| referredBy | String | The membership number of the loyalty program member who has referred the member. | Optional | 55.0 |
| referredByMemberReferralCode | String | The referral code of the loyalty program member who has referred the member. | Optional | 57.0 |
| relatedCorporateMembershipNumber | String | External corporate membership number of the member. | Optional | 55.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `transactionJournalStatementFrequency` | String | The frequency at which transaction journal statements must be delivered to the member. Possible values are:<br>• `Monthly`<br>• `Quarterly` | Optional | 55.0 |
| `transactionJournalStatementMethod` | String | The method used to deliver transaction journal statements to the member. Possible values are:<br>• `Mail`<br>• `Email` | Optional | 55.0 |

## Loyalty Engine Input

Input representation of the Loyalty Engine Runtime API.

**Root XML tag**

```
<loyaltyEngineInput>
```

**JSON example**

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

```
{
  "shouldCheckCouponUsageLimit": true
  "transactionJournals": [
    {
      "ActivityDate": "2022-01-04T12:45:19Z",
      "JournalDate": "2022-01-04T00:45:19Z",
      "Brand": "",
      "Establishment": "Apple",
      "ExternalTransactionNumber": "P1-981950",
      "JournalTypeId": "0lET10000004CQp",
      "LoyaltyProgramId": "0lpT10000004CdN",
      "MemberId": "0lMT10000004CfA",
      "TransactionAmount": "117",
      "TransactionLocation": "HitechCity",
      "VoucherCode": "",
      "Origin": "asdf",
      "Distance": "5",
      "Destination": "Hyderabad",
      "FlightNumber": "SF-Ran-001",
      "Status": "Pending"
    }
  ],
  "runSetting": {
    "isSimulation": true
```

```
  }
}
```

Note: Provide `contactId` to retrieve rewards related to a Person Account.

Using the transaction journal ID:

```
{
  "transactionJournals": [
    {
      "Id": "0lVxx00000000cj"
    }
  ],
  "runSetting": {
    "isSimulation": true
  }
}
```

Sample payload to retrieve rewards assigned to accounts.

```
{
    "transactionJournals": [
      {
        "ActivityDate": "2024-11-27T12:45:19Z",
        "JournalTypeId": "0lERM00000001Bb2AI",
        "LoyaltyProgramId": "0lpRM00000002YTYAY",
        "ReferredPartyId": "001xx000003H3NnAAK",
        "Status": "Pending",
        "ProductId": "01txx0000006i44AAA",
        "ProductCategoryId": "0ZGxx0000000001GAA",
        "Quantity": "1",
        "TransactionAmount": "42",
        "appliedPromotions": [
          {
            "promotionId": "0c8xx00000000mPAAQ",
            "rewards": [
              {
                "rewardType": "Discount",
                "discountAmount": 5
              },
              {
                "rewardType": "Discount",
                "discountAmount": 10
              },
              {
                "rewardType": "Voucher",
                "voucherDefinitionName": "Voucher2",
                "voucherExpirationDate": "2025-08-07",
                "voucherEffectiveDate": "2024-08-08",
              },
              {
                "rewardType": "Game",
                "gameDefinitionName": "TestPostFacto",
              },
            ]
```

```
            }
          ]
        }
      ]
    }
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| shouldCheckCouponUsageLimit | Boolean | Indicates whether the coupon usage limit check is enabled. | Required | 62.0 |
| transactionJournals | Loyalty Engine Input Map | Represents the transaction journals records to process. | Required | 54.0 |
| runSetting | Loyalty Engine Run Settings Input | Loyalty runtime setting to run the simulation on the transaction journals. | Required for simulation, otherwise optional | 55.0 |

## Loyalty Engine Input Map

Input representation of the Transaction Journal record execution request.

**JSON example**

In the JSON, you can either provide the details of transaction journals that aren't available in the org, or a list of IDs that belong to transaction journals available in the org. If you provide the details of transaction journals that aren't available in the org, each transaction journal's applicable loyalty program process applies the eligible rules, executes the applicable actions, and then creates the transaction journal.

Using the transaction journal details:

Note: Some of the API request fields contain field names that are interchangeable. For information on the list of interchangeable field names, see Loyalty Management Connect API Interchangeable Request Fields.

Here's a JSON example that creates a transaction journal for a purchase-related transaction made by a loyalty program member of a retail company. It has all the transaction journal-related information along with the details of the promotion applied, including the different types of rewards the transaction is eligible for. For information on the TransactionJournal object fields, see https://developer.salesforce.com/docs/atlas.en-us.loyalty.meta/loyalty/sforce_api_objects_transactionjournal.htm.

```
{
  "transactionJournals": [
    {
      "ActivityDate": "2023-11-27T12:45:19Z",
      "JournalTypeId": "0lERM00000001Bb2AI",
      "LoyaltyProgramId": "0lpRM00000002YTYAY",
      "MemberId": "0lMRM0000002Fmu2AE",
      "Status": "Pending",
      "ProductId": "01txx0000006iTsAAI",
      "ProductCategoryId": "0ZSSB0000002d8X4AQ",
      "Quantity": "4",
      "TransactionAmount": "500",
      "appliedPromotions": [
```

```
        {
          "promotionId": "0c8RM0000004FiXYAU",
          "couponCode": "COUPON100",
          "rewards": [
            {
              "rewardType": "Discount",
              "discountAmount": 15
            },
            {
              "rewardType": "Points",
              "loyaltyProgramCurrencyName": "Coins",
              "points": 100,
              "relatedInformation": "Test",
              "notes": "points reward"
            },
            {
              "rewardType": "Voucher",
              "voucherDefinitionName": "10% Discount Voucher",
              "voucherExpirationDate": "2023-12-15",
              "voucherEffectiveDate": "2023-11-29",
              "notes": "discount voucher"
            },
            {
              "rewardType": "Badge",
              "loyaltyProgramBadgeName": "Gen AI Badge",
              "memberBadgeStatus": "Active",
              "badgeValidityEndDate": "2023-12-15",
              "reason": "purchase"
            },
            {
              "rewardType": "Game",
              "gameDefinitionName": "SpintheWheelGame"
            }
          ]
        }
      ]
    }
  ]
}
```

Here's a JSON example to create a transaction journal for a loyalty program member of an airline company.

```
{
   "transactionJournals":[
      {
         "ActivityDate":"2022-01-04T12:45:19Z",
         "JournalDate":"2022-01-04T00:45:19Z",
         "Brand":"Tata",
         "Establishment":"Vistara",
         "ExternalTransactionNumber":"P1-981950",
         "JournalTypeId":"0lET10000004CQp",
         "LoyaltyProgramId":"0lpT10000004CdN",
         "MemberId":"0lMT10000004CfA",
         "TransactionAmount":"117",
         "TransactionLocation":"HitechCity",
```

```
          "VoucherCode":"",
          "Origin":"Bangalore",
          "Distance":"5",
          "Destination":"Hyderabad",
          "FlightNumber":"VS-Ran-001",
          "Status":"Pending"
       }
    ]
}
```

Using the transaction journal ID:

Note: This is supported in API version 55.0 and later.

```
{
  "transactionJournals": [
    {
      "Id": "0lVxx00000000cj"
    }
  ]
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `processInput` | Map<String, Object> | List of the Transaction Journal records to process and create. | Required | 54.0 |

## Loyalty Engine Run Settings Input

Input representation of the loyalty engine settings to run simulation on the transaction journals.

**Root XML tag**

`<loyaltyEngineRunSettingsRepresentation>`

**JSON example**

```
{
  "runSetting": {
    "isSimulation": true
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `isSimulation` | Boolean | Indicates whether to run a simulation on the transaction journals (`true`) or not (`false`). Default value is `false`. | Required for simulation otherwise optional. | 55.0 |

## Loyalty Account Input

Input representation for creating a business account for the member.

**Root XML tag**

```
<loyaltyAccountInput>
```

**JSON example**

```
{
  "associatedAccountDetails": {
    "name": "Name1",
    "phone": "908989898",
    "website": "www.ab.com",
    "allowDuplicateRecords": "false",
    "additionalAccountFieldValues": {
      "attributes": {
        "CustomNumber__c": "20.0"
      }
    }
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| additionalAccountFieldValues | Map<String, String> | The additional attribute values that must be saved in the account record. | Optional | 55.0 |
| allowDuplicateRecords | Boolean | Indicates whether a duplicate member record can be created, when an existing record with identical details exists in the org. This parameter works in conjunction with your Duplicate Rules. A Duplicate Rule's **Action on Create** setting determines if Salesforce allows or blocks a potential duplicate. For instructions on configuring these rules, see Manage Duplicate Records.<br>The default value is `True`. | Optional | 55.0 |
| name | String | Name of the account. | Required | 55.0 |
| phone | String | The phone number associated with the account. | Optional | 55.0 |
| website | String | The website associated with the account. | Optional | 55.0 |

## Loyalty Contact Input

Input representation of the loyalty program member's person account.

**Root XML tag**

```
<loyaltyContactInput>
```

**JSON example**

```
{
  "enrollmentDate" : "2021-01-01T00:00:00",
  "membershipNumber" : "Member1",
  "associatedContactDetails" : {
    "firstName" : "Name1",
    "lastName" : "Name2",
    "email" : "ab@gmail.com",
    "allowDuplicateRecords" : "false",
    "additionalContactFieldValues" : {
      "attributes" : {
        "PersonMailingCity" : "Delhi",
        "CustomNumber__c" : "20.0"      }
    }
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `additionalContactFieldValues` | Map<String, String> | The additional attributes that must be saved in the person account. | Optional | 55.0 |
| `allowDuplicateRecords` | Boolean | Indicates if a duplicate person account record can be created for a member when an existing person account record exists. This parameter works in conjunction with your Duplicate Rules. A Duplicate Rule's **Action on Create** setting determines if Salesforce allows or blocks a potential duplicate. For instructions on configuring these rules, see Manage Duplicate Records.<br>The default value is `True`. | Optional | 55.0 |
| `email` | String | Email ID of the person account. | Optional | 55.0 |
| `firstName` | String | First name of the person account. | Optional | 55.0 |
| `lastName` | String | Last name of the person account. | Required | 55.0 |

## Loyalty Process Input

Input representation of the details of the loyalty program process action.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `processParameters` | Loyalty Process Parameter Map | Input parameters for running the loyalty process. | Required | 56.0 |

## Loyalty Process Input Options

Input representation of the execution options for the loyalty process.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `executionType` | Enum | Specifies the Rules Engine execution type. Possible values are:<br>• `Explainability`—If the execution type is `Explainability`, the process is executed and the output parameters are returned in the response.<br>• `Simulation`— If the execution type is `Simulation`, only the simulation details are returned in the response. | Required | 56.0 |

## Loyalty Process Parameter Map Input

Input representation of the input parameters for the loyalty process.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `parameterInput` | Map<String, Object> | Input parameters for the loyalty process. | Required | 56.0 |

## Loyalty View Transaction Journal History Input

Input representation for getting the transaction journal records of a loyalty member.

**JSON example**

```
{
   "membershipNumber":"doc_member1",
   "journalType":"Accrual",
```

```
   "journalSubType":"Social",
   "periodStartDate":"2022-01-27T00:00:00Z",
   "periodEndDate":"2022-11-27T00:00:00Z"
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `journalSubType` | String | The subtype of the transaction journal record. | Optional | 56.0 |
| `journalType` | String | The type of the transaction journal.<br>Possible values include:<br>• Accrual<br>• Redemption | Required | 56.0 |
| `membershipNumber` | String | The membership number of the loyalty program member. | Required | 56.0 |
| `periodEndDate` | String | Retrieve transaction journals until this date. | Optional | 56.0 |
| `periodStartDate` | String | Retrieve transaction journals starting on this date. | Required | 56.0 |

## Name And ID Input

Input representation of an object's name and ID.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `id` | String | ID of the object. | Optional | 60.0 |
| `name` | String | Name of the object. | Optional | 60.0 |

## Product Details

An input representation that contains specific details related to the product.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `id` | String | The ID of the record. | | 64.0 |
| `name` | String | The name of the record. | | 64.0 |
| `productCode` | String | The product code of the record. | | 64.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `productType` | ProductType | Specifies the product type that is eligible for the promotion. | | 64.0 |
| `stockKeepingUnit` | String | The stock keeping unit that is eligible for the promotion. | | 64.0 |

## Promotion Eligible Channel Input

Input representation of the details of the channel eligible for the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `channel` | Name And Id Input [] | ID or name of the channel eligible for the promotion.<br>This field takes the IDs or names of `EngagementChannelType` configured in your org.<br>Possible names for the online channel type are:<br>• `App`<br>• `Mobile`<br>• `Web`<br>Possible names for the social channel type are:<br>• `Facebook`<br>• `Instagram`<br>• `Twitter`<br>• `WhatsApp` | Optional | 60.0 |
| `channelType` | String | Type of the channel eligible for the promotion. Possible values are:<br>• `Offline`<br>• `Online`<br>• `Social` | Optional | 60.0 |
| `retailLocationGroup` | Name And Id Input [] | ID or name of the retail location group eligible for the promotion.<br>This field is valid only for the offline channel type. | Optional | 60.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `store` | Name And Id Input [] | ID or name of the retail store eligible for the promotion.<br>This field is valid only for the offline channel type. | Optional | 60.0 |

## Promotion Eligibility Input

Input representation of the eligibility criteria of the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| areAllLoyaltyMembersEligible | Boolean | Indicates whether all loyalty members are eligible for the promotion (`true`) or not (`false`).<br>If you set this field true, you can't specify loyalty tiers whose members are eligible for the promotion. | Optional | 60.0 |
| `eligibleCampaign` | Name And Id Input [] | ID or name of the marketing campaign whose members are eligible for the promotion.<br>Specify either an eligible campaign, a list of eligible segments, or loyalty tiers in a request, but not all.<br>To specify an eligible marketing campaign, you require the Marketing license. | Optional | 60.0 |
| `eligibleChannels` | Promotion Eligible Channel Input [] | Channels that are eligible for the promotion. | Optional | 60.0 |
| `eligibleClubs` | [illegible] | The list of clubs whose members are eligible for the promotion. | | 64.0 |
| `eligibleCoupons` | [illegible] | The coupons that are eligible for the promotion | | 63.0 |
| eligibleCustomerEvents | Events Detail Input | Details of customer events that the promotion is eligible for. | Optional | 60.0 |
| eligibleEnrollmentPeriod | Eligible Enrollment Period Input | Period in which customers can enroll for the promotion. | Optional | 60.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| eligibleLoyaltyPartnerProducts | Name And Id Input [] | IDs or names of the loyalty partner products that are eligible for the promotion.<br>You can only specify the products of loyalty partners that belong to the specified loyalty program.<br>Specify either a list of products and categories, or a list of loyalty partner products in a request, but not both. | Optional | 60.0 |
| eligibleLoyaltyTiers | Eligible Loyalty Tiers Input [] | List of loyalty program tiers whose members are eligible for the promotion.<br>Specify either an eligible campaign, a list of eligible segments, or loyalty tiers in a request, but not all. | Optional | 60.0 |
| eligibleProductCategories | Name And Id Input [] | IDs or names of the product categories that are eligible for the promotion.<br>Ensure that the number of eligible product categories you want to specify doesn't exceed the number supported in your org. | Optional | 60.0 |
| eligibleProducts | Name And Id Input [] | IDs or names of the products that are eligible for the promotion.<br>Ensure that the number of eligible products you want to specify doesn't exceed the number supported in your org. | Optional | 60.0 |
| eligibleSegments | Name And Id Input [] | IDs or names of the Data Cloud segments whose members are eligible for the promotion.<br>You require the Marketing user permission to specify market segments.<br>Specify either an eligible campaign, a list of eligible segments, or loyalty tiers in a request, but not all. | Optional | 60.0 |
| productCatalog | Name And Id Input [] | ID or name of the product catalog that's eligible for the promotion.<br>This field can't be updated. | Optional | 60.0 |

## Promotion Input

Input representation details of a promotion.

**JSON example for POST and PUT**

```
{
  "promotionDetails": {
      "name": "Sample Promotion 6",
      "displayName": "Sample Promotion",
      "priorityNumber": 1,
      "description": "Sample promotion description",
      "promotionCode": "XYZ",
      "startDateTime": "2023-06-30T00:00:00.000Z",
      "endDateTime": "2023-12-30T00:00:00.000Z",
      "objective": "To increase sales",
      "isAutomatic": true,
      "loyaltyProgram": {
        "name":"NTO"
      },
      "additionalFieldValues": {
          "attributes": {
              "isUnifiedPromotion__c": true
          }
      },
      "promotionEligibility":{
          "productCatalog": {
              "id":"0ZSxx000000001dGAA"
          },
          "eligibleProductCategories": [
              {
                  "id": "0ZGxx0000000001GAA"
              }
          ],
          "eligibleProducts": [
              {
                  "name": "someProduct"
              }
          ],
          "eligibleChannels": [
              {
                  "channelType": "***",
                  "channel": {
                      "id": "***",
                      "name": "***"
                  },
                  "store": {
                      "id": "***",
                      "name": "***"
                  },
                  "retailLocationGroup": {
                      "name": "***"
                  }
              }
```

```
        ],
        "eligibleCampaign": {
            "name": "***"
        },
        "eligibleSegments": [
            {
                "name": "someSegment"
            }
        ],
        "eligibleCustomerEvents":{
            "event": "MemberBirthday",
            "eventPeriodUnit": ""
        },
        "eligibleEnrollmentPeriod": {
            "isEnrollmentRequired": true,
            "enrollmentStartDate": "",
            "enrollmentEndDate": ""
        },
        "eligibleLoyaltyPartnerProducts": [
            {
                "name": "",
                "id": ""
            }
        ],
        "eligibleLoyaltyTiers": [
            {
                "tierGroup": {
                    "name": "",
                    "id": ""
                },
                "tier": {
                    "name": "",
                    "id": ""
                }
            }
        ],
        "eligibleCoupons": [
            {
                "couponCode": "",
                "status": "",
                "description": "",
                "startDateTime": "",
                "endDateTime": "",
                "redemptionLimitOverall": "",
                "redemptionLimitPerCustomer": ""
            }
        ]
    },
    "promotionLimits":{
        "perLineItemLimit": 10,
        "pointsPerCustomerLimit": 5,
        "vouchersPerCustomerLimit": 5,
        "perCartLimit": 5,
        "usePerCustomerLimit" : 5,
```

```
        "totalUseLimit" : 25,
        "pointsLimit": 1000,
        "vouchersLimit": 100,
        "liabilityLimit": 10000,
        "loyaltyProgramCurrency": {
            "id":"0lcxx0000000001AAA"
        }
    }
},
"rules": [
      {
          "templateName": "BuyXToGetRewards",
          "ruleName": "123",
          "priority": 1,
          "eventConfiguration": [
              {
                  "allOf": [
                      {
                          "anyOf": {
                              "purchaseType": "Product",
                              "applicablePurchaseList": [
                                  {
                                      "name": "Veg Burger"
                                  }
                              ],
                              "purchaseCriteria": {
                                  "type": "Quantity",
                                  "value": 1
                              }
                          }
                      }
                  ]
              }
          ],
          "rewardConfiguration": [
              {
                  "type": "ProvideDiscount",
                  "rewardDetails": {
                      "discountValue": "100",
                      "discountType": "PercentageOff"
                  },
                  "targetAudience": {
                      "audienceType": "LoyaltyTierMembers",
                      "audienceDetails": {
                          "tierGroup": {
                              "name": "Default"
                          },
                          "tier": {
                              "name": "Silver"
                          }
                      }
                  }
              },
              {
```

```
                    "type": "IssueVoucher",
                    "rewardDetails": {
                        "voucherDefinition": {
                        "name": "GET 10% OFF"
                        },
                        "voucherExpirationDate": "2020-10-10"
                    },
                    "targetAudience": {
                        "audienceType": "AllLoyaltyMembers"
                    }
                }
            ]
        }
    ]

}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| promotionDetails | Unified Promotions Input[] | Configuration of the promotion | | 64.0 |
| rules | Unified Promotion Template Input[] | List of rules that are configured for a promotion. | | 64.0 |

## Promotion Limit Input

Input representation of the limits of the promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| liabilityLimit | Double | Maximum financial liability that the promotion can incur. | Optional | 60.0 |
| liabilityPerCustomerLimit | Double | Maximum financial liability per customer that the promotion can incur. | Optional | 60.0 |
| loyaltyProgramCurrency | Name And Id Input[] | ID or name of the active loyalty program currency associated with loyalty points. | Optional | 60.0 |
| perCartLimit | Integer | Maximum number of carts the promotion applies to. | Optional | 60.0 |
| perLineItemLimit | Integer | Maximum number of cart items the promotion applies to. | Optional | 60.0 |
| pointsLimit | Double | Maximum number of points that the promotion can credit. | Optional | 60.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| pointsPerCustomerLimit | Double | Maximum number of points that the promotion can credit to a customer. | Optional | 60.0 |
| rewardLimit | Integer | The maximum number of rewards that can be issued by the promotion | | 63.0 |
| totalUsageLimit | Integer | The maximum number of times the promotion can be applied in total | | 64.0 |
| usePerCustomerLimit | Integer | Maximum number of times the promotion can be applied for a customer. | Optional | 60.0 |
| vouchersLimit | Integer | Maximum number of vouchers that the promotion can issue. | Optional | 60.0 |
| vouchersPerCustomerLimit | Integer | Maximum number of vouchers that the promotion can issue to a customer. | Optional | 60.0 |

## Promotion Recommendation Input

The input representation to retrieve the recommended promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| dataspace | String | The data space that defines the boundary of a personalization context. This API currently only works with your Data Cloud instance's default data space. | | 64.0 |
| eligibleChannel | Channel Input on page 393 | The details of a channel for which to retrieve eligible promotions. | | 64.0 |
| individualId | String | The ID of the of the individual for whom to retrieve recommended promotions. Optional if membership number or loyalty program member ID is provided. | | 64.0 |
| loyaltyProgramId | String | The loyalty program that the loyalty program member belongs to. The loyalty program ID is required when membership number is specified. | | 64.0 |
| loyaltyProgramMemberId | String | The ID of the of the loyalty program member for whom to retrieve recommended promotions. Optional if membership number or contact ID is provided. | | 64.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `membershipNumber` | String | The membership number of the loyalty program member for whom to retrieve recommended promotions. | | 64.0 |
| `personalizationPoint` | String | The API name of the personalization point. A personalization point is a connection between data, profile data, personalization type, and schema, used to deliver personalized content to customers. | | 64.0 |

## Redeem Voucher Input

Input representation for voucher redemption.

**JSON example**

```
{
  "contactID": "003xx000004WjzAAAS",
  "action": "Reserve",
  "reservationKey": "key1",
  "reservedValue": 50.57,
  "redeemAmount": 50.57,
  "currencyIsoCode": "Yen"
}
```

JSON example to redeem vouchers using `contactId` or `accountID`.

```
{
  "redemptionAmount": "12",
  "contactId": "003xx000004WkhEAAS",
  "accountId":"001xx000003H3NnAAK",
  "memberId": "0lMxx00000002HxEAI"
}
```

Note: Provide `contactId` to redeem the voucher. If `accountID` is provided, then the associated `contactId` is fetched and the voucher is redeemed

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| `contactID` | String | ID of the contact associated with the account. | Optional | 62.0 |
| `currencyIsoCode` | String | Three-letter ISO 4217 currency code of the monetary currency in which the voucher is redeemed. | Optional | 55.0 |
| `redeemAmount` | Double | The value of the voucher to be redeemed. Specify a value when a member hasn't | Optional | 53.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | redeemed the full value of the voucher. This value is only applicable for vouchers issued using Fixed Value voucher definitions.<br>A value isn't required when the member has redeemed the complete value of the voucher in a single transaction.<br>Note: If you don't specify a value to be redeemed for the fixed-value voucher, the voucher status changes to `Redeemed`, and the remaining value becomes zero. | | |
| action | ReservationAction | The action to change the status of a voucher. Valid values are:<br>• `Reserve`<br>• `Reinstate`<br>• `Redeem`<br>If you don't specify an action, the default behavior changes voucher status from `Issued` to `Redeemed`. | Required when changing the voucher status from `Issued` to `Reserved`, or from `Reserved` to `Issued` or `Redeemed`. Otherwise it is optional. | 62.0 |
| reservedValue | Currency | Specify the amount reserved for partially redeemable vouchers. | Optional | 62.0 |
| reservationKey | String | Specify the key used to redeem or reinstate a reserved voucher. | Optional | 62.0 |

## Related Promotion Records Input

Input representation that decides which related records and fields of the existing promotion are cloned and associated with the new promotion.

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| relatedObjectApiName | String | The API name of the promotion's related object whose records associated with the existing promotion that have to be cloned for the new promotion. | Small, 61.0 | 61.0 |
| relatedObjectPromotionFieldName | String | The name of the Promotion field in the related object whose record has to be | Small, 61.0 | 61.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| | | cloned and associated with the new promotion. | | |

## Unified Promotions Input

Input representation of the configuration of the promotion to be created, or updated.

Note: Before updating an existing promotion, get all the existing details of the promotion using the GET on page 379 operation. To update an existing promotion using the PUT method, you must include all the existing field values of the promotion in the payload along with the new fields, or the fields to be updated.

**Root XML tag**

`unifiedPromotionsInputRepresentation`

**JSON example for POST and PUT**

```
{
  "promotionDetails": {
    "name": "Sample Promotion 6",
    "displayName": "Sample Promotion",
    "priorityNumber": 1,
    "description": "Sample promotion description",
    "promotionCode": "XYZ",
    "startDateTime": "2023-06-30T00:00:00.000Z",
    "endDateTime": "2023-12-30T00:00:00.000Z",
    "objective": "To increase sales",
    "isAutomatic": true,
    "loyaltyProgram": {
      "name": "NTO"
    },
    "additionalFieldValues": {
      "attributes": {
        "isUnifiedPromotion__c": true
      }
    },
    "promotionEligibility": {
      "productCatalog": {
        "id": "0ZSxx000000001dGAA"
      },
      "eligibleProductCategories": [
        {
          "id": "0ZGxx0000000001GAA"
        }
      ],
      "eligibleProducts": [
        {
          "name": "someProduct"
        }
      ],
      "eligibleChannels": [
        {
```

```
      "channelType": "***",
      "channel": {
        "id": "***",
        "name": "***"
      },
      "store": {
        "id": "***",
        "name": "***"
      },
      "retailLocationGroup": {
        "name": "***"
      }
    }
  ],
  "eligibleCampaign": {
    "name": "***"
  },
  "eligibleSegments": [
    {
      "name": "someSegment"
    }
  ],
  "eligibleCustomerEvents": {
    "event": "MemberBirthday",
    "eventPeriodUnit": ""
  },
  "eligibleEnrollmentPeriod": {
    "isEnrollmentRequired": true,
    "enrollmentStartDate": "",
    "enrollmentEndDate": ""
  },
  "eligibleLoyaltyPartnerProducts": [
    {
      "name": "",
      "id": ""
    }
  ],
  "eligibleLoyaltyTiers": [
    {
      "tierGroup": {
        "name": "",
        "id": ""
      },
      "tier": {
        "name": "",
        "id": ""
      }
    }
  ],
  "eligibleCoupons": [
    {
      "couponCode": "",
      "status": "",
      "description": "",
```

```
          "startDateTime": "",
          "endDateTime": "",
          "redemptionLimitOverall": "",
          "redemptionLimitPerCustomer": ""
        }
      ]
    },
    "promotionLimits": {
      "perLineItemLimit": 10,
      "pointsPerCustomerLimit": 5,
      "vouchersPerCustomerLimit": 5,
      "perCartLimit": 5,
      "usePerCustomerLimit": 5,
      "totalUseLimit": 25,
      "pointsLimit": 1000,
      "vouchersLimit": 100,
      "liabilityLimit": 10000,
      "loyaltyProgramCurrency": {
        "id": "0lcxx0000000001AAA"
      }
    }
  }
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| additionalFieldValues | Map<String, String> | Custom, and additional field values that provide more details about the promotion. | Optional | 60.0 |
| businessUnit | Name And Id Input [] | ID or name of the Marketing Cloud business unit associated with the promotion.<br>To specify a business unit, you require the Marketing Cloud license. | Optional | 60.0 |
| currencyIsoCode | String | ISO code of the active currency associated with the promotion.<br>Before specifying the currency ISO code, ensure that your org supports multiple currencies. | Optional | 60.0 |
| description | String | Description of the promotion. | Optional | 60.0 |
| displayName | String | Display name of the promotion. | Optional | 60.0 |
| endDateTime | String | Date and time until which the promotion can be applied for customers. | Optional | 60.0 |
| isAutomatic | Boolean | Indicates whether the promotion is automatically applied for eligible carts. | | 63.0 |

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| isEmailActivated | Boolean | Indicates whether the promotion's email has been activated (true) or not (false). If set to true, an email template is created for the promotion's email in the org. The default value is false. | Optional | Small, 60.0 |
| loyaltyProgram | Name And Id Input [] | ID or name of the active loyalty program the promotion applies to.<br>You can't change the loyalty program of an existing promotion. | Optional | 60.0 |
| name | String | Unique name of the promotion. | Required | 60.0 |
| objective | String | Objective of the promotion. | Optional | 60.0 |
| priorityNumber | Integer | Number that determines the priority of the promotion in a list of eligible promotions.<br>Priority number must be greater than zero. | Optional | 60.0 |
| promotionCode | String | Unique code of the promotion. | Optional | 60.0 |
| promotionEligibility | Promotion Eligibility Input | Eligibility criteria of the promotion. | Optional | 60.0 |
| promotionLimits | Promotion Limit Input | Limits of the promotion, including the number of times the promotion can be applied for customers.<br>A promotion limit must be greater than zero. | Optional | 60.0 |
| ruleLibrary | String | The rule library associated with the promotion. | | 62.0 |
| startDateTime | String | Date and time from which the promotion can be applied for customers. | Required | 60.0 |
| termsAndConditions | String | The Terms and Conditions which may be applied to the Promotion. | | 63.0 |

## Unified Promotion Template Input

The input representation of a unified promotion template.

**JSON example for POST and PUT**

```
{
  "rules": [
    {
      "templateName": "BuyXToGetRewards",
```

```
"ruleName": "123",
"priority": 1,
"eventConfiguration": [
  {
    "allOf": [
      {
        "anyOf": {
          "purchaseType": "Product",
          "applicablePurchaseList": [
            {
              "name": "Veg Burger"
            }
          ],
          "purchaseCriteria": {
            "type": "Quantity",
            "value": 1
          }
        }
      }
    ]
  }
],
"rewardConfiguration": [
  {
    "type": "ProvideDiscount",
    "rewardDetails": {
      "discountValue": "100",
      "discountType": "PercentageOff"
    },
    "targetAudience": {
      "audienceType": "LoyaltyTierMembers",
      "audienceDetails": {
        "tierGroup": {
          "name": "Default"
        },
        "tier": {
          "name": "Silver"
        }
      }
    }
  },
  {
    "type": "IssueVoucher",
    "rewardDetails": {
      "voucherDefinition": {
        "name": "GET 10% OFF"
      },
      "voucherExpirationDate": "2020-10-10"
    },
    "targetAudience": {
      "audienceType": "AllLoyaltyMembers"
    }
  }
]
```

```
    }
  ]
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| eventConfiguration | Map<String, Object>[] | The list of criteria that decides when customers are eligible for the rewards of the promotion rule. | | 60.0 |
| journalSubType | String | Enter the ID of Journal Subtype. | | 60.0 |
| journalSubTypeName | String | Enter the name of Journal Subtype. | | 64.0 |
| journalType | String | Enter the name of the Journal Type. | | 60.0 |
| priority | Integer | The priority number of the rule in the promotion. | | 60.0 |
| promotionLimit | Integer | Enter the milestone limit. | | 63.0 |
| rewardConfiguration | Map<String, Object>[] | The list of rewards that members get when their activity meets the rule's eligibility criteria. | | 60.0 |
| ruleName | String | The name of the promotion rule. | | 60.0 |
| templateName | String | The name of the promotion template that's used in a promotion rule. | | 60.0 |

## Promotion Reward Application Input

The details required to create transaction journals. The request includes a list of transaction journals, which are to be created. It includes the list of promotions applied along with the rewards. If any of the rewards aren't applied, then everything is rolled back. No partial rewards are applied.

**JSON example**

```
{
  "shouldCheckCouponUsageLimit": true,
  "transactionJournalList": [
    {
      "ActivityDate": "2025-10-08T12:45:19Z",
      "JournalTypeId": "0lET10000004CQp",
      "ReferredPartyId": "003SB00000U84F0YAJ",
      "Quantity": "1",
      "TransactionAmount": "5000",
      "CurrencyIsoCode": "USD",
      "Status": "Processed",
      "appliedPromotions": [
        {
          "promotionId": "0c8SB000000HASnYAO",
```

```
          "promotionCode": "GET10OFF",
          "couponCode": "COUPON100",
          "rewards": [
            {
              "rewardType": "ProvideDiscount",
              "discountAmount": 15
            },
            {
              "rewardType": "IssueVoucher",
              "voucherDefinitionName": "$100 off",
              "voucherCode": "SALE-4F8G-RT2P",
              "voucherEffectiveDate": "2025-10-09",
              "voucherExpirationDate": "2025-10-10",
              "notes": "discount voucher"
            },
            {
              "rewardType": "AssignGame",
              "gameDefinitionName": "SpintheWheelGame",
              "gameExpirationDate": "2025-10-10"
            }
          ]
        }
      ]
    }
  ]
}
```

**Properties**

| Name | Type | Description | Required or Optional | Available Version |
|---|---|---|---|---|
| shouldCheckCouponUsageLimit | Boolean | Indicates whether the API must execute the Coupon Usage Increase API to verify the coupon usage count and increase the redemption usage count of the specified coupon code (`true`) or not (`false`). | Optional | 65.0 |
| transactionJournalList | List<Map<String, Object>> | The list of transaction journals to create. | Required | 65.0 |

# Response Bodies

Here's a list of Loyalty Management API response bodies.

Additional Attributes Output

The output representation of the additional details of a promotion.

Additional Transaction Journal Attributes Output

Output representation of the additional transaction journal fields.

Applied Cart Line Promotion Details

Specifies the list of cart line reward details.

Applied Cart Promotion Details
The details of the cart-level promotions applied to the cart.

Badge Output
Output representation of the badge assigned to a member.

Cart
The details of a cart and its line items for which to evaluate and execute promotions.

Cart Details
The details of the cart and its line items, including initial amount, adjusted price, and details of all applied discounts and promotions.

Cart Line Details
The details of the initial amount, adjusted price, and details of all applied discounts and promotions to cart line items within the cart.

Club Member Benefits
Represents the output for Club Member Benefits.

Club Member Details
Represents the output for Club Member Profile API.

Club Member Enrollment Details
Represents the output for Club Member Enrollment API.

Club Member Promotions
Represents the output for Club Member Promotions.

Club Membership Renewal
Represents the output for Club Membership Renewal API.

Corporate Member Enrollment Output
Output representation of the corporate member enrollment create request.

Coupon Availablity Message
Output representation of the coupon availability message.

Coupon Usage Result
Represents the response for coupon usage increase and decrease POST method.

Clone Promotion Output
Output representation of Clone Promotion API.

Credit Points Action Output
Output representation of the credit points action type.

Debit Points Action Output
Output representation of the debit points action type.

Discount Details
The details of the discount applied to a customer's cart.

Eligible Promotions List
Output representation of a list of eligible promotions.

Eligible Loyalty Tiers Output
Output representation of the eligible loyalty tiers and tier groups of a promotion.

Events Detail Output
Output representation of the customer event eligible for a promotion.

Expression
Output representation of the expression.

Expression Value
Output representation of the expression value.

Game Assignment Output
Output representation of the details of a game assigned to a member.

Game Details
Output representation of the details of a game definition.

Game Details (Promotion)
The details of the game that's assigned to the customer.

Game Result
Output representation of the game reward that a participant has won.

Game Reward Details
Output representation of the details of the game reward that a participant has won.

Game Rewards List
Output representation of the details of a possible game reward.

Games List
Output representation of the list of games assigned to a member.

Issue Voucher Action Output
Output representation of the issue voucher action type.

Individual Member Enrollment Output
Output representation of the individual member enrollment create request.

Loyalty Account Output
Represents the details of the loyalty program member's associated account record.

Loyalty Engine Realtime Output
Output representation of the loyalty program process result.

Loyalty Contact Output
Represents the details of the loyalty program member's associated contact record.

Loyalty Process Output
Output representation of the loyalty process response.

Loyalty Program Process Rule
Output representation of the loyalty program process rules.

Loyalty Program Process Rule Step
Output representation of the loyalty program process rule step.

Loyalty Program Process Rule Action
Output representation of the loyalty program process rule action.

Loyalty Program Process Rule Action Parameter
Output representation of the loyalty program process rule action parameter.

Loyalty Program Process Rule Condition
Output representation of the loyalty program process rule condition.

Loyalty Program Process Rule Condition Filter Criteria

Output representation of the loyalty program process rule condition filter criteria.

Loyalty Program Process Rule Condition Group

Output representation of the loyalty program process rule condition group.

Loyalty View Transaction Journal History Output

Output representation of the view transaction history request.

Member Benefits Output

Output representation of all benefits available for a member.

Member Benefit Output

Output representation of an individual benefit available for a member.

Member Currency Output

Represents the details of the loyalty program member's associated currencies.

Member Currency Change

Output representation of the member currency change.

Member Engagement Trail Output

Output representation of member engagement trail API.

Member Engagement Attribute

Ouput representation of Member Engagement Attribute.

Member Points Balance

Output representation of the member currency result.

Member Profile Output

Output representation of the details of a loyalty program member.

Member Currency

Output representation of the member currency details.

Member Tier Output

Represents the details of the loyalty program member's associated tiers.

Member Points Balance Change

Output representation of the points balance change for a member.

Name And Id Output

Output representation of an object's name and ID.

Participant Game Rewards List

Output representation of the participant game reward object.

Process Result

Output representation of results of the processed Transaction Journals records.

Points Change Output

Output representation of the points debited from or credited to the member's points balance by the transaction journal.

Points Summary

Output representation of the point summary.

Product Details

The details of a product associated with the recommended promotion.

Promotion Configuration Output
Output representation of the promotion's details and its configuration.

Promotion Coupon Availability
Output representation of the promotion coupon availability.

Promotion Coupon
Output representation of the promotion coupon.

Promotion Details
Output representation of the details of an eligible promotion.

Promotion Eligibility Output
Output representation of the promotion eligibility criteria.

Promotion Eligible Channel Output
Output representation of the eligible channel for a promotion.

Promotion Eligible Enrollment Period Output
Output representation of the enrollment eligibility details of a promotion.

Promotion Details
Output representation of the details of an eligible promotion.

Promotion Limit
Output representation of the promotion limit of an eligible promotion.

Promotion Limit Output
Output representation of promotion limits.

Promotion
Output representation of the promotion with rule configuration.

Promotion Recommendations
The count and list of promotions recommended for the member or customer.

Promotion Reward Application
Output representation details of the transaction journals that are created and processed.

Promotion Reward Details
Output representation of the details of the reward offered by an eligible promotion rule.

Promotion Rules List
Output representation of an eligible promotion rule.

Recommendation Details
The rank and details of the recommended promotions.

Redeem Voucher Output
Represents the response for the redeem voucher POST method.

Summary
Output representation of the execution summary of the transaction journals.

Template Configuration
Output representation of the template configuration.

Transaction Journal Details
The details of the transaction journal that's created.

Transaction Details Output
Output representation of the transaction journal ledger records.

Transaction Journal Output
Output representation of the transaction journals.

Transaction Journal Map Output
Output representation of the loyalty program process simulation result.

Transaction Journal Result
Output representation of the transaction journals result.

Transaction Journal Process Result
Output representation of the Transaction Journal result.

Transaction Ledgers Output
Output representation of the transaction journals and the ledgers associated with the specified loyalty program member.

Update Cumulative Usage Action Output
Output representation of the update cumulative usage action type.

Unified Promotions
Output representation of the promotion details.

Voucher
Output representation of the details of a voucher.

Voucher Details
The details of the voucher that's issued to the customer.

Vouchers List
Output representation of the list of vouchers associated with the loyalty program member.

Voucher Result
Output representation of the voucher result.

Voucher Output
Output representation of the details about a voucher.

## Additional Attributes Output

The output representation of the additional details of a promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `attributes` | Map<String, String> | Additional fields that provide more details of the promotion. | Small, 60.0 | 60.0 |

## Additional Transaction Journal Attributes Output

Output representation of the additional transaction journal fields.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `fieldName` | String | The name of the transaction journal field. | Small, 58.0 | 58.0 |
| `value` | String | The value that's stored in the transaction journal field. | Small, 58.0 | 58.0 |

## Applied Cart Line Promotion Details

Specifies the list of cart line reward details.

**JSON example**

This example shows a sample response.

```
    "appliedCartLinePromotionDetails": [
      {
        "cartLineItemAmountAfterDiscount": 95,
        "cartLineItemAmountBeforeDiscount": 100,
        "cartLineItemDiscountAmount": 5,
        "couponCode": "PIZZA5",
        "currencyIsoCode": "USD",
        "displayName": "5 % off on Pizza",
        "isAutomatic": false,
        "promotionId": "0c8xx00000005NtAAI"
      }
    ],
    "cartLineItemAmountAfterDiscount": 66.36,
    "cartLineItemAmountBeforeDiscount": 100,
    "cartLineItemId": "abcd1",
    "cartLineItemQuantity": 2,
    "cartLineProduct": "Pizza",
    "totalCartLineItemDiscountAmount": 33.64,
    "totalCartLinePromotionsDiscountAmount": 5,
    "totalCartPromotionsDistributedDiscountAmount": 28.64
  },
  {
    "appliedCartLinePromotionDetails": [
      {
        "cartLineItemAmountAfterDiscount": 9,
        "cartLineItemAmountBeforeDiscount": 10,
        "cartLineItemDiscountAmount": 1,
        "currencyIsoCode": "USD",
        "displayName": "Get 10% off on Burger + Voucher",
        "isAutomatic": true,
        "promotionId": "0c8xx00000004y5AAA"
      },
      {
        "cartLineItemAmountAfterDiscount": 4.5,
        "cartLineItemAmountBeforeDiscount": 9,
        "cartLineItemDiscountAmount": 4.5,
        "currencyIsoCode": "USD",
        "displayName": "Buy 1 Pizza, Get 1 Burger Free",
```

```
        "isAutomatic": true,
        "promotionId": "0c8xx00000006TdAAI"
      }
    ]
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| cartLineItemAmountAfterDiscount | Double | The updated cart amount after the current line or cross line promotion discount. | Big, 65.0 | 65.0 |
| cartLineItemAmountBeforeDiscount | Double | The cart line item amount before the current line or cross line promotion is applied. | Big, 65.0 | 65.0 |
| cartLineItemDiscountAmount | Double | Amount of line or cross line promotion discounts applied to the line items. | Big, 65.0 | 65.0 |
| couponCode | String | Coupon code of the applied line or cross line promotion. | Big, 65.0 | 65.0 |
| currencyIsoCode | String | Three-letter ISO 4217 code of the monetary currency associated with the applied line or cross line promotion. | Big, 65.0 | 65.0 |
| displayName | String | Display name of the applied line or cross line promotion. | Big, 65.0 | 65.0 |
| isAutomatic | Boolean | Indicates whether the promotion is automatically applied for eligible carts (`true`) or not (`false`). | Big, 65.0 | 65.0 |
| promotionCode | String | Code of the applied line or cross line promotion. | Big, 65.0 | 65.0 |
| promotionId | String | The ID of the applied line or cross line promotion. | Big, 65.0 | 65.0 |

## Applied Cart Promotion Details

The details of the cart-level promotions applied to the cart.

**JSON example**

This example shows a sample response.

```
"appliedCartPromotionDetails": [
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "displayName": "Get 10% off on Burger + Voucher",
    "isAutomatic": true,
    "nonPricingRewards": {
      "voucherRewards": [
```

```
        {
          "voucherDefinitionId": "2Xaxx00000000XtCAI",
          "voucherDefinitionName": "Voucher1"
        }
      ]
    },
    "promotionId": "0c8xx00000004y5AAA"
  },
  {
    "cartAmountAfterDiscount": 89.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 10,
    "displayName": "10% off on Cart",
    "isAutomatic": true,
    "nonPricingRewards": {},
    "promotionId": "0c8xx00000005R7AAI"
  },
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "displayName": "Cart Voucher",
    "isAutomatic": true,
    "nonPricingRewards": {
      "voucherRewards": [
        {
          "voucherDefinitionId": "2Xaxx00000000XtCAI",
          "voucherDefinitionName": "Voucher1"
        }
      ]
    },
    "promotionId": "0c8xx000000060bAAA"
  },
  {
    "cartAmountAfterDiscount": 79.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 20,
    "isAutomatic": true,
    "nonPricingRewards": {},
    "promotionId": "0c8xx00000006wfAAA"
  },
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "displayName": "LOY promotion",
    "isAutomatic": true,
    "nonPricingRewards": {
      "badgeRewards": [
        {
          "loyaltyProgramBadgeId": "0w8xx0000000001AAA",
          "badgeValidityEndDate": "2025-08-31T00:00:00.000Z",
          "loyaltyProgramBadgeName": "badge1"
        }
```

```
            ],
            "fixedPointsRewards": [
              {
                "loyaltyProgramCurrencyName": "NQP",
                "loyaltyProgramCurrencyId": "0lcxx00000001FRAAY",
                "points": 100
              }
            ]
          },
          "promotionId": "0c8xx0000000EpNAAU"
        },
        {
          "cartAmountAfterDiscount": 99.5,
          "cartAmountBeforeDiscount": 99.5,
          "cartLevelDiscountAmount": 0,
          "isAutomatic": true,
          "nonPricingRewards": {
            "multiplierPointsRewards": [
              {
                "loyaltyProgramCurrencyName": "NQP",
                "pointsExpirationDate": "2025-09-07T00:00:00.000Z",
                "transactionJournalField": "TransactionJournal.TransactionAmount",
                "loyaltyProgramCurrencyId": "0lcxx00000001FRAAY",
                "multiplierValue": 44
              }
            ],
            "gameRewards": [
              {
                "gameDefinitionId": "3GDxx0000004C92GAE",
                "gameType": "Scratchcard",
                "gameDefinitionName": "GD1"
              }
            ]
          },
          "promotionId": "0c8xx0000000Fv7AAE"
        }
      ]
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| cartAmountAfterDiscount | Double | The updated cart amount after the current promotion is applied. | Big, 65.0 | 65.0 |
| cartAmountBeforeDiscount | Double | Cart amount before the current promotion is applied. | Big, 65.0 | 65.0 |
| cartLevelDiscountAmount | Double | Total amount of discounts from promotions. | Big, 65.0 | 65.0 |
| couponCode | String | Coupon code of the applied promotion. | Big, 65.0 | 65.0 |
| currencyIsoCode | String | Three-letter ISO 4217 code of the monetary currency assoaicted with the applied promotion. | Big, 65.0 | 65.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `displayName` | String | Display name of the applied promotion. | Big, 65.0 | 65.0 |
| `isAutomatic` | Boolean | Indicates whether the promotion is automatically applied for eligible carts (`true`) or not (`false`). | Big, 65.0 | 65.0 |
| `nonPricingRewards` | Map<String, Object> | The non-pricing rewards issued to customers as a part of the applied promotions. Possible rewards are:<br>• `badgeRewards`: List of rewards for members in the form of badges.<br>• `fixedPointsRewards`: List of rewards for members in the form of fixed number of loyalty points.<br>• `gameRewards`: List of rewards in the form of games.<br>• `multiplierPointsRewards`: List of rewards for members in the form of loyalty points that are calculated based on a multiplier and a transaction journal field.<br>• `voucherRewards`: List of rewards in the form of vouchers. | Big, 65.0 | 65.0 |
| `promotionCode` | String | Code of the applied promotion. | Big, 65.0 | 65.0 |
| `promotionId` | String | The ID of the applied promotion. | Big, 65.0 | 65.0 |

## Badge Output

Output representation of the badge assigned to a member.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `badgeValidityEndDate` | String | Date from which the badge is no longer assigned to the member. | Small, 60.0 | 60.0 |
| `loyaltyProgramBadgeName` | String | Name of the assigned badge. | Small, 60.0 | 60.0 |
| `memberBadgeStatus` | String | Status of the assigned badge. | Small, 60.0 | 60.0 |
| `reason` | String | Reason the badge was assigned to the member. | Small, 60.0 | 60.0 |

## Cart

The details of a cart and its line items for which to evaluate and execute promotions.

**JSON example**

This example shows a sample response.


```
{
  "cart": {
    "cartDetails": [
      {
        "adjustedCartAmount": 69.5,
        "appliedCartPromotionDetails": [
          {
            "cartAmountAfterDiscount": 99.5,
            "cartAmountBeforeDiscount": 99.5,
            "cartLevelDiscountAmount": 0,
            "displayName": "Get 10% off on Burger + Voucher",
            "isAutomatic": true,
            "nonPricingRewards": {
              "voucherRewards": [
                {
                  "voucherDefinitionId": "2Xaxx00000000XtCAI",
                  "voucherDefinitionName": "Voucher1"
                }
              ]
            },
            "promotionId": "0c8xx00000004y5AAA"
          },
          {
            "cartAmountAfterDiscount": 89.5,
            "cartAmountBeforeDiscount": 99.5,
            "cartLevelDiscountAmount": 10,
            "displayName": "10% off on Cart",
            "isAutomatic": true,
            "nonPricingRewards": {},
            "promotionId": "0c8xx00000005R7AAI"
          },
          {
            "cartAmountAfterDiscount": 99.5,
            "cartAmountBeforeDiscount": 99.5,
            "cartLevelDiscountAmount": 0,
            "displayName": "Cart Voucher",
            "isAutomatic": true,
            "nonPricingRewards": {
              "voucherRewards": [
                {
                  "voucherDefinitionId": "2Xaxx00000000XtCAI",
                  "voucherDefinitionName": "Voucher1"
                }
              ]
            },
            "promotionId": "0c8xx000000060bAAA"
          },
          {
```

```
    "cartAmountAfterDiscount": 79.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 20,
    "isAutomatic": true,
    "nonPricingRewards": {},
    "promotionId": "0c8xx00000006wfAAA"
  },
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "displayName": "LOY promotion",
    "isAutomatic": true,
    "nonPricingRewards": {
      "badgeRewards": [
        {
          "loyaltyProgramBadgeId": "0w8xx0000000001AAA",
          "badgeValidityEndDate": "2025-08-31T00:00:00.000Z",
          "loyaltyProgramBadgeName": "badge1"
        }
      ],
      "fixedPointsRewards": [
        {
          "loyaltyProgramCurrencyName": "NQP",
          "loyaltyProgramCurrencyId": "0lcxx00000001FRAAY",
          "points": 100
        }
      ]
    },
    "promotionId": "0c8xx0000000EpNAAU"
  },
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "isAutomatic": true,
    "nonPricingRewards": {
      "multiplierPointsRewards": [
        {
          "loyaltyProgramCurrencyName": "NQP",
          "pointsExpirationDate": "2025-09-07T00:00:00.000Z",
          "transactionJournalField": "TransactionJournal.TransactionAmount",
          "loyaltyProgramCurrencyId": "0lcxx00000001FRAAY",
          "multiplierValue": 44
        }
      ],
      "gameRewards": [
        {
          "gameDefinitionId": "3GDxx0000004C92GAE",
          "gameType": "Scratchcard",
          "gameDefinitionName": "GD1"
        }
      ]
    },
```

```
      "promotionId": "0c8xx0000000Fv7AAE"
    }
  ],
  "cartHeaderId": "01ddf0000003kfMAAW",
  "cartLineDetails": [
    {
      "appliedCartLinePromotionDetails": [
        {
          "cartLineItemAmountAfterDiscount": 95,
          "cartLineItemAmountBeforeDiscount": 100,
          "cartLineItemDiscountAmount": 5,
          "couponCode": "PIZZA5",
          "currencyIsoCode": "USD",
          "displayName": "5 % off on Pizza",
          "isAutomatic": false,
          "promotionId": "0c8xx00000005NtAAI"
        }
      ],
      "cartLineItemAmountAfterDiscount": 66.36,
      "cartLineItemAmountBeforeDiscount": 100,
      "cartLineItemId": "abcd1",
      "cartLineItemQuantity": 2,
      "cartLineProduct": "Pizza",
      "totalCartLineItemDiscountAmount": 33.64,
      "totalCartLinePromotionsDiscountAmount": 5,
      "totalCartPromotionsDistributedDiscountAmount": 28.64
    },
    {
      "appliedCartLinePromotionDetails": [
        {
          "cartLineItemAmountAfterDiscount": 9,
          "cartLineItemAmountBeforeDiscount": 10,
          "cartLineItemDiscountAmount": 1,
          "currencyIsoCode": "USD",
          "displayName": "Get 10% off on Burger + Voucher",
          "isAutomatic": true,
          "promotionId": "0c8xx00000004y5AAA"
        },
        {
          "cartLineItemAmountAfterDiscount": 4.5,
          "cartLineItemAmountBeforeDiscount": 9,
          "cartLineItemDiscountAmount": 4.5,
          "currencyIsoCode": "USD",
          "displayName": "Buy 1 Pizza, Get 1 Burger Free",
          "isAutomatic": true,
          "promotionId": "0c8xx00000006TdAAI"
        }
      ],
      "cartLineItemAmountAfterDiscount": 3.14,
      "cartLineItemAmountBeforeDiscount": 10,
      "cartLineItemId": "abcd2",
      "cartLineItemQuantity": 2,
      "cartLineProduct": "Burger",
      "totalCartLineItemDiscountAmount": 6.86,
```

```
            "totalCartLinePromotionsDiscountAmount": 5.5,
            "totalCartPromotionsDistributedDiscountAmount": 1.36
          }
        ],
        "initialCartAmount": 110,
        "totalCartLevelDiscountAmount": 30,
        "totalDiscountAmount": 40.5,
        "totalLineLevelDiscountAmount": 10.5
      }
    ]
  }
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `cartDetails` | Cart Details[] | Details of the cart and its line items, including initial amount, adjusted price, and details of all applied discounts and promotions. | Big, 65.0 | 65.0 |

## Cart Details

The details of the cart and its line items, including initial amount, adjusted price, and details of all applied discounts and promotions.

**JSON example**

This example shows a sample response.

```
{
    "cartDetails": [
      {
        "adjustedCartAmount": 69.5,
        "appliedCartPromotionDetails": [
          {
            "cartAmountAfterDiscount": 99.5,
            "cartAmountBeforeDiscount": 99.5,
            "cartLevelDiscountAmount": 0,
            "displayName": "Get 10% off on Burger + Voucher",
            "isAutomatic": true,
            "nonPricingRewards": {
              "voucherRewards": [
                {
                  "voucherDefinitionId": "2Xaxx00000000XtCAI",
                  "voucherDefinitionName": "Voucher1"
                }
              ]
            },
            "promotionId": "0c8xx00000004y5AAA"
          },
          {
            "cartAmountAfterDiscount": 89.5,
            "cartAmountBeforeDiscount": 99.5,
            "cartLevelDiscountAmount": 10,
```

```
    "displayName": "10% off on Cart",
    "isAutomatic": true,
    "nonPricingRewards": {},
    "promotionId": "0c8xx00000005R7AAI"
  },
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "displayName": "Cart Voucher",
    "isAutomatic": true,
    "nonPricingRewards": {
      "voucherRewards": [
        {
          "voucherDefinitionId": "2Xaxx00000000XtCAI",
          "voucherDefinitionName": "Voucher1"
        }
      ]
    },
    "promotionId": "0c8xx000000060bAAA"
  },
  {
    "cartAmountAfterDiscount": 79.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 20,
    "isAutomatic": true,
    "nonPricingRewards": {},
    "promotionId": "0c8xx00000006wfAAA"
  },
  {
    "cartAmountAfterDiscount": 99.5,
    "cartAmountBeforeDiscount": 99.5,
    "cartLevelDiscountAmount": 0,
    "displayName": "LOY promotion",
    "isAutomatic": true,
    "nonPricingRewards": {
      "badgeRewards": [
        {
          "loyaltyProgramBadgeId": "0w8xx0000000001AAA",
          "badgeValidityEndDate": "2025-08-31T00:00:00.000Z",
          "loyaltyProgramBadgeName": "badge1"
        }
      ],
      "fixedPointsRewards": [
        {
          "loyaltyProgramCurrencyName": "NQP",
          "loyaltyProgramCurrencyId": "0lcxx00000001FRAAY",
          "points": 100
        }
      ]
    },
    "promotionId": "0c8xx0000000EpNAAU"
  },
  {
```

```
      "cartAmountAfterDiscount": 99.5,
      "cartAmountBeforeDiscount": 99.5,
      "cartLevelDiscountAmount": 0,
      "isAutomatic": true,
      "nonPricingRewards": {
        "multiplierPointsRewards": [
          {
            "loyaltyProgramCurrencyName": "NQP",
            "pointsExpirationDate": "2025-09-07T00:00:00.000Z",
            "transactionJournalField": "TransactionJournal.TransactionAmount",
            "loyaltyProgramCurrencyId": "0lcxx00000001FRAAY",
            "multiplierValue": 44
          }
        ],
        "gameRewards": [
          {
            "gameDefinitionId": "3GDxx0000004C92GAE",
            "gameType": "Scratchcard",
            "gameDefinitionName": "GD1"
          }
        ]
      },
      "promotionId": "0c8xx0000000Fv7AAE"
    }
  ],
  "cartHeaderId": "01ddf0000003kfMAAW",
  "cartLineDetails": [
    {
      "appliedCartLinePromotionDetails": [
        {
          "cartLineItemAmountAfterDiscount": 95,
          "cartLineItemAmountBeforeDiscount": 100,
          "cartLineItemDiscountAmount": 5,
          "couponCode": "PIZZA5",
          "currencyIsoCode": "USD",
          "displayName": "5 % off on Pizza",
          "isAutomatic": false,
          "promotionId": "0c8xx00000005NtAAI"
        }
      ],
      "cartLineItemAmountAfterDiscount": 66.36,
      "cartLineItemAmountBeforeDiscount": 100,
      "cartLineItemId": "abcd1",
      "cartLineItemQuantity": 2,
      "cartLineProduct": "Pizza",
      "totalCartLineItemDiscountAmount": 33.64,
      "totalCartLinePromotionsDiscountAmount": 5,
      "totalCartPromotionsDistributedDiscountAmount": 28.64
    },
    {
      "appliedCartLinePromotionDetails": [
        {
          "cartLineItemAmountAfterDiscount": 9,
          "cartLineItemAmountBeforeDiscount": 10,
```

```
                "cartLineItemDiscountAmount": 1,
                "currencyIsoCode": "USD",
                "displayName": "Get 10% off on Burger + Voucher",
                "isAutomatic": true,
                "promotionId": "0c8xx00000004y5AAA"
              },
              {
                "cartLineItemAmountAfterDiscount": 4.5,
                "cartLineItemAmountBeforeDiscount": 9,
                "cartLineItemDiscountAmount": 4.5,
                "currencyIsoCode": "USD",
                "displayName": "Buy 1 Pizza, Get 1 Burger Free",
                "isAutomatic": true,
                "promotionId": "0c8xx00000006TdAAI"
              }
            ],
            "cartLineItemAmountAfterDiscount": 3.14,
            "cartLineItemAmountBeforeDiscount": 10,
            "cartLineItemId": "abcd2",
            "cartLineItemQuantity": 2,
            "cartLineProduct": "Burger",
            "totalCartLineItemDiscountAmount": 6.86,
            "totalCartLinePromotionsDiscountAmount": 5.5,
            "totalCartPromotionsDistributedDiscountAmount": 1.36
          }
        ],
        "initialCartAmount": 110,
        "totalCartLevelDiscountAmount": 30,
        "totalDiscountAmount": 40.5,
        "totalLineLevelDiscountAmount": 10.5
      }
    ]
  }
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| adjustedCartAmount | Double | The final total amount of the cart after all promotions are applied. | Big, 65.0 | 65.0 |
| appliedCartPromotionDetails | Applied Cart Promotion Details[] | Details of the cart-level promotions and non-pricing rewards of the line and cross line level promotions applied to the cart. | Big, 65.0 | 65.0 |
| cartHeaderId | String | The ID of the cart on which promotions are applied. | Big, 65.0 | 65.0 |
| cartLineDetails | Cart Line Details[] | Details of the initial amount, adjusted price, and details of all applied discounts and promotions to cart line items within the cart. | Big, 65.0 | 65.0 |
| initialCartAmount | Double | Sum of the prices of all items in the cart before any promotions are applied. | Big, 65.0 | 65.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| totalCartLevelDiscountAmount | Double | Total amount of discounts applied to the the cart from cart-level promotions. | Big, 65.0 | 65.0 |
| totalDiscountAmount | Double | Sum of all discounts applied to the the cart, including line-level, crossline-level and cart-level discounts. | Big, 65.0 | 65.0 |
| totalLineLevelDiscountAmount | Double | Total amount of discounts applied to line items from line-level and crossline-level promotions. | Big, 65.0 | 65.0 |

## Cart Line Details

The details of the initial amount, adjusted price, and details of all applied discounts and promotions to cart line items within the cart.

**JSON example**

This example shows a sample response.

```
"cartLineDetails": [
  {
    "appliedCartLinePromotionDetails": [
      {
        "cartLineItemAmountAfterDiscount": 95,
        "cartLineItemAmountBeforeDiscount": 100,
        "cartLineItemDiscountAmount": 5,
        "couponCode": "PIZZA5",
        "currencyIsoCode": "USD",
        "displayName": "5 % off on Pizza",
        "isAutomatic": false,
        "promotionId": "0c8xx00000005NtAAI"
      }
    ],
    "cartLineItemAmountAfterDiscount": 66.36,
    "cartLineItemAmountBeforeDiscount": 100,
    "cartLineItemId": "abcd1",
    "cartLineItemQuantity": 2,
    "cartLineProduct": "Pizza",
    "totalCartLineItemDiscountAmount": 33.64,
    "totalCartLinePromotionsDiscountAmount": 5,
    "totalCartPromotionsDistributedDiscountAmount": 28.64
  },
  {
    "appliedCartLinePromotionDetails": [
      {
        "cartLineItemAmountAfterDiscount": 9,
        "cartLineItemAmountBeforeDiscount": 10,
        "cartLineItemDiscountAmount": 1,
        "currencyIsoCode": "USD",
        "displayName": "Get 10% off on Burger + Voucher",
        "isAutomatic": true,
```

```
            "promotionId": "0c8xx00000004y5AAA"
          },
          {
            "cartLineItemAmountAfterDiscount": 4.5,
            "cartLineItemAmountBeforeDiscount": 9,
            "cartLineItemDiscountAmount": 4.5,
            "currencyIsoCode": "USD",
            "displayName": "Buy 1 Pizza, Get 1 Burger Free",
            "isAutomatic": true,
            "promotionId": "0c8xx00000006TdAAI"
          }
        ]
      }
    ]
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| appliedCartLinePromotionDetails | Applied Cart Line Promotion Details[] | Details of the line or cross line promotions applied. | Big, 65.0 | 65.0 |
| cartLineItemAmountAfterDiscount | Double | Updated price of the line items after the current promotions are applied. | Big, 65.0 | 65.0 |
| cartLineItemAmountBeforeDiscount | Double | Price of the line item before the current promotions are applied. | Big, 65.0 | 65.0 |
| cartLineItemId | String | The ID of cart line item on which promotions are applied. | Big, 65.0 | 65.0 |
| cartLineItemQuantity | Integer | Quantity of the cart line item on which promotions are applied. | Big, 65.0 | 65.0 |
| cartLineProduct | String | Product on which promotions are applied. | Big, 65.0 | 65.0 |
| totalCartLineItemDiscountAmount | Double | Total amount of discounts applied to the line item, including discount from applied line or cross line promotions. and cart line. The distributed amount is only from cart level promotions. | Big, 65.0 | 65.0 |
| totalCartLinePromoDiscountAmount | Double | Total amount of discount from all line or cross line promotions. | Big, 65.0 | 65.0 |
| totalProrataDistributedDiscountAmount | Double | The prorated amount of the total monetary discount from cart promotions that a discount distribution service applies to an individual line item. | Big, 65.0 | 65.0 |

## Club Member Benefits

Represents the output for Club Member Benefits.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| benefitId | String | The ID of the benefit associated with the club. | Small, 63.0 | 64.0 |
| benefitName | String | The name of the benefit associated with the club. | Small, 63.0 | 64.0 |
| benefitTypeId | String | The ID of the benefit type associated with the club. | Small, 63.0 | 64.0 |
| benefitTypeName | String | The name of the benefit type associated with the club. | Small, 63.0 | 64.0 |
| description | String | The description of the benefit associated with the club. | Small, 63.0 | 64.0 |
| isActive | Boolean | Indicates whether the benefit is active (true) or not (false). | Small, 63.0 | 64.0 |

## Club Member Details

Represents the output for Club Member Profile API.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| benefits | Club Member Benefits on page 449 | The list of benefits associated with the club member. | Small, 63.0 | 63.0 |
| clubId | String | The ID of the club. | Small, 63.0 | 63.0 |
| clubMembershipId | String | The membership ID of the club member. | Small, 63.0 | 63.0 |
| clubMembershipNumber | String | The membership number of the club member. | Small, 63.0 | 63.0 |
| clubName | String | The name of the club. | Small, 63.0 | 63.0 |
| membershipEndDate | String | The end date of club membership. | Small, 63.0 | 63.0 |
| membershipStartDate | String | The start date of club membership. | Small, 63.0 | 63.0 |
| promotions | Club Member Promotions on page 451 | The list of promotions associated with the club member. | Small, 63.0 | 63.0 |

## Club Member Enrollment Details

Represents the output for Club Member Enrollment API.

**JSON Example**

```
{
    "clubMembershipNumber":"NAME5",
    "message":null,
    "status":true
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| clubMembershipNumber | String | The membership number of the club member. | Small, 63.0 | 63.0 |
| message | String | The message explaining why the request failed. | Small, 63.0 | 63.0 |
| status | Boolean | Indicates whether the request succeeded (true) or failed (false). | Small, 63.0 | 63.0 |

## Club Member Promotions

Represents the output for Club Member Promotions.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| endDate | String | The end date of the promotion. | Small, 63.0 | 64.0 |
| imageUrl | String | The URL of the image associated with the promotion. | Small, 63.0 | 64.0 |
| loyalty PromotionType | String | The type of loyalty promotion. | Small, 63.0 | 64.0 |
| member Eligibility Category | String | The eligibility category of the club member for the promotion. | Small, 63.0 | 64.0 |
| promotion EnrollmentRqr | Boolean | Indicates whether the club members must enroll for the promotion (true) or not (false). | Small, 63.0 | 64.0 |
| promotionId | String | The ID of the promotion. | Small, 63.0 | 64.0 |
| promotionName | String | The name of the promotion. | Small, 63.0 | 64.0 |
| startDate | String | The start date of the promotion. | Small, 63.0 | 64.0 |

## Club Membership Renewal

Represents the output for Club Membership Renewal API.

**JSON example**

```
{
    "clubMembershipNumber": "ARC0001",
    "clubMembershipEndDate": "2026-01-01T00:00:00"
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `clubMembershipEndDate` | String | The end date of the club membership. | Small, 63.0 | 63.0 |
| `clubMembershipNumber` | String | The membership number of the club member. | Small, 63.0 | 63.0 |
| `message` | String | The message explaining why the request failed. | Small, 63.0 | 63.0 |
| `status` | Boolean | Indicates whether the request succeeded (true) or failed (false). | Small, 63.0 | 63.0 |

## Corporate Member Enrollment Output

Output representation of the corporate member enrollment create request.

**JSON example**

```
* accountId: *001xx000003GgHX*
* loyaltyProgramMemberId: *0lMxx00000008K9*
* loyaltyProgramName: *program1*
* membershipNumber: *Member6*
* transactionJournals
    * [Item 1]
        * activityDate: *2021-01-01T08:00:00.000Z*
        * journalSubType: *Member Enrollment*
        * journalType: *Accrual*
        * loyaltyProgram: *program1*
        * loyaltyProgramMember: *Member6*
        * referredMember: *null*
        * status: *Pending*
        * transactionJournalId: *0lVxx00000002Ej*
    * [Item 2]
        * activityDate: *2021-01-01T08:00:00.000Z*
        * journalSubType: *Member Referral*
        * journalType: *Accrual*
        * loyaltyProgram: *program1*
        * loyaltyProgramMember: *Member1*
        * referredMember: *Member6*
        * status: *Pending*
```

```
        * transactionJournalId: *0lVxx00000002Ek*
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| accountId | String | The ID of the loyalty program member's business account. | Small, 55.0 | 55.0 |
| loyaltyProgramMemberId | String | The ID of the loyalty program member record created for the member. | Small, 55.0 | 55.0 |
| loyaltyProgramName | String | The name of the loyalty program into which the member enrolled. | Small, 55.0 | 55.0 |
| membershipNumber | String | The membership number of the enrolled member. | Small, 55.0 | 55.0 |
| transactionJournals | Transaction Journal Output[] | The list of transaction journals that are created. | Small, 55.0 | 55.0 |

## Coupon Availablity Message

Output representation of the coupon availability message.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| MultipleActiveCoupons | String | There are multiple active coupons that are eligible for the cart on the activity date. | Small, 62.0 | 62.0 |
| NoActiveCoupon | String | No coupons are active on the cart activity date | Small, 62.0 | 62.0 |
| SingleActiveLimitReached | String | Only one coupon is active on the cart activity date but it has reached its usage limit. | Small, 62.0 | 62.0 |

## Coupon Usage Result

Represents the response for coupon usage increase and decrease POST method.

**Sample Response**

```
[
  {
    "couponCode": "QWERTY",
    "isSuccess": true,
    "redemptionLimit": 10,
    "redemptionLimitPerCustomer": 3,
    "remainingRedemptionCount": 6,
    "remainingRedemptionCountForCustomer": 1
  },
```

```
  {
    "couponCode": "ABCD",
    "errorMessage": "Coupon code doesn't exist.",
    "isSuccess": false
  }
]
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| couponCode | String | The code of the coupon for which usage has been increased or decreased. | Small, 62.0 | 62.0 |
| redemptionLimit | Integer | The total number of times customers can redeem the coupon. | Small, 62.0 | 62.0 |
| remainingRedemptionCount | Integer | The remaining number of times the coupon can be redeemed. | Small, 62.0 | 62.0 |
| redemptionLimitPerCustomer | Integer | The total number of times each customer can redeem the coupon. | Small, 62.0 | 62.0 |
| remainingRedemptionCountForCustomer | Integer | The remaining number of times the specified customer can redeem the coupon. | Small, 62.0 | 62.0 |
| isSuccess | Boolean | Indicates whether the usage of the coupon was successfully increased or decreased. | Small, 62.0 | 62.0 |
| errorMessage | String | The error message that contains the details of the why the coupon usage wasn't updated. | Small, 62.0 | 62.0 |

## Clone Promotion Output

Output representation of Clone Promotion API.

**JSON Example**

```
{
   "promotionId": "0lpxx00000000EXAAQ"
}
```

| Property Name | Type | Description | Available Version |
|---|---|---|---|
| promotionId | String | The ID of the new promotion. | 61.0 |

## Credit Points Action Output

Output representation of the credit points action type.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| actionType | String | The type of action in the loyalty program process rule. | Small, 55.0 | 55.0 |
| changeInEscrowPointsBalance | Double | The change in the escrow points balance of the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| changeInPointsBalance | Double | The change in the points balance of the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| escrowPointsCreditDate | String | The date on which points that are added to the escrow points balance of the loyalty program member associated with the transaction journal must be rolled over to the points balance of the member. | Small, 55.0 | 55.0 |
| loyaltyProgramCurrencyName | String | The name of the loyalty program currency for which points have been credited to the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| promotionId | String | The ID of the promotion associated with the rule. | Small, 55.0 | 55.0 |
| stepName | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |

## Debit Points Action Output

Output representation of the debit points action type.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| actionType | String | The type of action in the loyalty program process rule. | Small, 55.0 | 55.0 |
| changeInPointsBalance | Double | The change in the points balance of the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| loyaltyProgramCurrencyName | String | The name of the loyalty program currency for which points have been debited from the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| promotionId | String | The ID of the promotion associated with the rule. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `stepName` | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |

## Discount Details

The details of the discount applied to a customer's cart.

**JSON example**

This example shows a sample response.

```
"discountsAppliedList": [
        {
          "discountType": "ProvideDiscount",
          "discountAmount": 15
        }
      ]
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `discountAmount` | Double | The discount amount provided to a customer. | Big, 65.0 | 65.0 |
| `discountType` | String | The type of discount provided to a customer. | Big, 65.0 | 65.0 |

## Eligible Promotions List

Output representation of a list of eligible promotions.

**JSON example**

```
{
    "promotions": [
        {
            "id": "0c85i0000009c6D",
            "promotionCode": "10OFF",
            "displayName": "10% off on all electronics",
            "priority": 1,
            "currencyCode": "USD",
            "coupon": {
                "couponDetails": {
                    "couponCode": "COUPON-123",
                    "status": "Active",
                    "startDateTime": "2024-01-01",
                    "endDateTime": null
                },
                "message": "SingleActive"
            },
            "isAutomatic" : false,
```

```
"additionalFields": {
    "startDate": "2023-09-10",
    "endDate": "2023-09-20",
    "promotionLocation__c": "HYD"
},
"limits": [
    {
        "type": "PerLineItem",
        "limit": 1
    }
],
"rules": [
    {
        "ruleName": "10PercentElectronics",
        "benefits": [
            {
                "type": "Discount",
                "discountLevel": "Cart",
                "discountType": "Amount",
                "discountValue": 10
            },
            {
                "type": "Discount",
                "discountLevel": "CartLineItem",
                "lines": [
                    {
                        "id": "6c139faa-b749-11ed-afa1-0242ac120002",
                        "quantity": 3
                    },
                    {
                        "id": "346bded6-b74a-11ed-afa1-0242ac120002",
                        "quantity": 2
                    }
                ],
                "discountType": "Amount",
                "discountValue": 10
            },
            {
                "type": "Voucher",
                "voucherDefinition": "ELEC10",
                "voucherExpiryDate": "2023-12-31"
            }
        ]
    },
    {
        "ruleName": "5PercentAppliances",
        "benefits": [
            {
                "type": "Discount",
                "discountLevel": "Cart",
                "discountType": "Percent",
                "discountValue": 5
            },
            {
```

```
                            "type": "FreeProduct",
                            "lineItemid": "b749-11ed-afa1",
                            "lines": [
                                {
                                    "id": "6c139faa-b749-11ed-afa1-0242ac120002",
                                    "quantity": 1
                                }
                            ]
                        }
                    ]
                }
            ]
        },
        {
            "id": "0c85i0000009c6D",
            "promotionCode": "20OFF",
            "displayName": "Get 100 points on all clothing",
            "priority": 2,
            "currencyCode": "USD",
            "additionalFields": {
                "startDate": "2023-09-10"
            },
            "rules": [
                {
                    "ruleName": "100PointsClothing",
                    "benefits": [
                        {
                            "type": "Points",
                            "points": "10",
                            "loyaltyProgramCurrencyName": "NQP"
                        },
                        {
                            "type": "Badge",
                            "loyaltyProgramBadgeName": "Ranger"
                        }
                    ]
                }
            ]
        }
    ]
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `Promotions` | Promotion Details[] | List of eligible promotions for a customer's cart. The list also contains the details of the rewards that each promotion offers to the customer. | Small, 60.0 | 60.0 |

## Eligible Loyalty Tiers Output

Output representation of the eligible loyalty tiers and tier groups of a promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `tier` | Name And Id Output [] | Loyalty tier eligible for the promotion. | Small, 60.0 | 60.0 |
| `tierGroup` | Name And Id Output [] | Loyalty tier group eligible for the promotion. | Small, 60.0 | 60.0 |

## Events Detail Output

Output representation of the customer event eligible for a promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `event` | String [] | Customer event eligible for the promotion. Possible values are:<br>• `CustomerBirthday`<br>• `MemberAnniversary`<br>• `MemberBirthday` | Small, 60.0 | 60.0 |
| `eventPeriodUnit` | String [] | Period the promotion is eligible for. Possible values:<br>• `Date`<br>• `Week`<br>• `Month` | Small, 60.0 | 60.0 |

## Expression

Output representation of the expression.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `expression` | String | The name of an expression. | Small, 55.0 | 55.0 |
| `expressionValue` | Expression Value | The values of an expression. | Small, 55.0 | 55.0 |
| `parameterValues` | Map<String, Expression Value> | The list of parameter values provided for an expression. | Small, 55.0 | 55.0 |
| `resolvedExpression` | String | The resolved fields and values of an expression. | Small, 55.0 | 55.0 |

## Expression Value

Output representation of the expression value.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `dataType` | ExpressionDataType | The data type of an expression.<br>Possible values are:<br>• `Boolean`<br>• `Date`<br>• `DateTime`<br>• `Number`<br>• `Sobject`<br>• `Text` | Small, 55.0 | 55.0 |
| `value` | Object | The value of an expression. | Small, 55.0 | 55.0 |

## Game Assignment Output

Output representation of the details of a game assigned to a member.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `gameParticipantId` | String | ID of the associated game participant. | Small, 60.0 | 60.0 |
| `gameParticipantRewardId` | String | The ID of the game participant reward record that stores the details of the reward that the member receives after they play the game. The record is associated with the source transaction journal and the record that issues the reward to the participant. | Small, 60.0 | 60.0 |
| `gameDefinitionName` | String | Name of the assigned game definition. | Small, 60.0 | 60.0 |
| `gameExpirationDate` | String | Date until which the assigned game is valid. | Small, 60.0 | 60.0 |
| `reason` | String | Reason the game was assigned to the member. | Small, 60.0 | 60.0 |

## Game Details

Output representation of the details of a game definition.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `description` | String | Description of the game. | Small, 60.0 | 60.0 |
| `endDate` | String | Date until which participants are eligible to play the game. | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| gameRewards | Game Rewards List [] | List of possible rewards for a game. | Small, 60.0 | 60.0 |
| name | String | Name of the game definition. | Small, 60.0 | 60.0 |
| participantGameRewards | Participant Game Rewards List[] | List of participant game reward records that contain the details of the game reward the participant has won for each game play, or can win after playing the game. | Small, 60.0 | 60.0 |
| startDate | String | Date from which participants are eligible to play the game. | Small, 60.0 | 60.0 |
| timeoutDuration | Integer | Duration of the game in seconds before the game session times out. | Small, 60.0 | 60.0 |
| type | String | Type of the game. Possible values are:<br>• Scratchcard<br>• SpintheWheel | Small, 60.0 | 60.0 |

## Game Details (Promotion)

The details of the game that's assigned to the customer.

**JSON example**

This example shows a sample response.

```
"gamesAssignedList": [
  {
    "gameDefinitionName": "SpintheWheelGame",
    "gameExpirationDate": "2025-10-10T00:00:00.000Z",
    "gameParticipantRewardId": "3PRSB0000004LFZ"
  }
]
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| gameDefinitionName | String | Name of the game that's assigned to a customer. | Big, 65.0 | 65.0 |
| gameExpirationDate | String | Date on which the game expires for the customer. | Big, 65.0 | 65.0 |
| gameParticipantRewardId | String | The ID of the game participant reward record that stores the details of the reward that the customer receives after they play the game. | Big, 65.0 | 65.0 |

## Game Result

Output representation of the game reward that a participant has won.

**JSON example**

Here's an example of a reward won by the participant for the Spin the Wheel game:

```
{
   "errorMessage":null,
   "gameReward":[
      {
         "color":"01CD6C",
         "description":"Loyalty Points",
         "gameRewardId":"3GRSB0000000Caf4AE",
         "imageUrl":null,
         "issuedRewardReference":"0lVSB000000032j2AA",
         "name":"1000 Reward Points",
         "rewardType":"LoyaltyPoints",
         "rewardValue":"100.0"
      }
   ],
   "status":true
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `errorMessage` | String | Error message that provides the reason why the details of the participant reward weren't found. | Small, 60.0 | 60.0 |
| `gameReward` | Game Reward Details [] | Details of the game reward won by the participant. | Small, 60.0 | 60.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 60.0 | 60.0 |

## Game Reward Details

Output representation of the details of the game reward that a participant has won.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `color` | String | Color of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| `description` | String | Description of the game reward. | Small, 60.0 | 60.0 |
| `gameRewardId` | String | ID of the game reward won by the participant. | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| imageUrl | String | Image URL of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| issuedRewardReference | String | Voucher ID, or the transaction journal ID associated with the voucher, or the loyalty points rewarded to the participant. | Small, 60.0 | 60.0 |
| name | String | Name of the game reward. | Small, 60.0 | 60.0 |
| rewardType | String | Type of the game reward. Possible values are:<br>• CustomReward<br>• LoyaltyPoints<br>• NoReward<br>• Raffle<br>• Voucher | Small, 60.0 | 60.0 |
| rewardValue | String | Value of the voucher, or the number of points to credit as a game reward to participants. | Small, 60.0 | 60.0 |

## Game Rewards List

Output representation of the details of a possible game reward.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| color | String | Color of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| description | String | Description of the game reward. | Small, 60.0 | 60.0 |
| imageUrl | String | Image URL of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| name | String | Name of the game reward. | Small, 60.0 | 60.0 |
| rewardId | String | ID of the game reward. | Small, 60.0 | 60.0 |
| rewardType | String | Type of the game reward. Possible values are:<br>• CustomReward<br>• LoyaltyPoints<br>• NoReward | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| | | • `Raffle`<br>• `Voucher` | | |
| `rewardValue` | String | Value of the voucher, or the number of points to credit as a game reward to participants. | Small, 60.0 | 60.0 |

## Games List

Output representation of the list of games assigned to a member.

**JSON example**

Here's an example of the details of an eligible Spin the Wheel game assigned to a member, and an already played Scratch Card game.

```
{
   "errorMessage":null,
   "gameDefinitions":[
      {
         "description":"Play Spin The Wheel to get amazing rewards",
         "endDate":"2024-07-31T19:00:00.000Z",
         "gameRewards":[
            {
               "color":"FF5733",
               "description":"Get 10%  Off Voucher",
               "imageUrl":null,
               "name":"10 % Off",
               "rewardType":"Voucher",
               "rewardValue":null
            },
            {
               "color":"000000",
               "description":"Loyalty Points",
               "imageUrl":null,
               "name":"1000 Reward Points",
               "rewardType":"LoyaltyPoints",
               "rewardValue":"100.0"
            },
            {
               "color":"762E2E",
               "description":"Better Luck Next Time",
               "imageUrl":null,
               "name":"No Reward",
               "rewardType":"NoReward",
               "rewardValue":null
            }
         ],
         "participantGameRewards":[
            {
               "expirationDate":"2024-01-04T20:00:00.000Z",
```

```
                "gameParticipantRewardId":"3PRSB0000000hjJ4AQ",
                "gameRewardId":null,
                "issuedRewardReference":null,
                "sourceActivity":null,
                "status":"YetToReward"
             }
          ],
          "name":"Spin The Wheel",
          "startDate":"2023-10-01T19:00:00.000Z",
          "timeoutDuration":10,
          "type":"SpintheWheel"
       },
       {
          "description":"Play Scratch card to get amazing rewards",
          "endDate":"2024-07-31T19:00:00.000Z",
          "gameRewards":[
                        {
                "color":"",
                "description":"Get 10%  Off Voucher",
                "imageUrl":null,
                "name":"10 % Off",
                "rewardType":"Voucher",
                "rewardValue":null
             },
             {
                "color":"",
                "description":"Better Luck Next Time",
                "imageUrl":null,
                "name":"No Reward",
                "rewardType":"NoReward",
                "rewardValue":null
             }
          ],
          "participantGameRewards":[
             {
                "expirationDate":"2024-01-04T20:00:00.000Z",
                "gameParticipantRewardId":"2ABSB0000000hjJ3AM",
                "gameRewardId":"2GRSB0000000Caf4AB",
                "issuedRewardReference":"0lVSB000000032j2AA",
                "sourceActivity":"0c85i0000009c6D",
                "status":"Rewarded"
             }
          ],
          "name":"Scratch Card",
          "startDate":"2023-10-01T19:00:00.000Z",
          "timeoutDuration":20,
          "type":"Scratchcard"
       }
    ],
    "status":true
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `errorMessage` | String | Message that provides the reason why a list of games weren't found for the participant. | Small, 60.0 | 60.0 |
| `gameDefinitions` | Game Details [] | List of game definitions associated with the games assigned to the member.<br>A game definition has the details of a game, including:<br>• The list of possible rewards for the game.<br>• The participant game reward records that contain details of the game reward the participant has won for each game play, or can win after playing the game. | Small, 60.0 | 60.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 60.0 | 60.0 |

## Issue Voucher Action Output

Output representation of the issue voucher action type.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `actionType` | String | The type of action in the loyalty program process rule. | Small, 55.0 | 55.0 |
| `discountPercent` | Integer | The discount percentage provided by the voucher. | Small, 55.0 | 55.0 |
| `effectiveDate` | String | The date the voucher goes into effect. | Small, 55.0 | 55.0 |
| `expiryDate` | String | The date the voucher expires. | Small, 55.0 | 55.0 |
| `faceValue` | Double | The value of the voucher. | Small, 55.0 | 55.0 |
| `productId` | String | The ID of the product associated with the voucher. | Small, 55.0 | 55.0 |
| `promotionId` | String | The ID of the promotion associated with the rule. | Small, 55.0 | 55.0 |
| `stepName` | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |
| `voucherCode` | String | The code of the voucher. | Small, 55.0 | 55.0 |
| `voucherDefinitionName` | String | The name of the voucher definition associated with the voucher code. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| voucherId | String | The ID of the voucher. | Small, 55.0 | 55.0 |

## Individual Member Enrollment Output

Output representation of the individual member enrollment create request.

**JSON example**

```
{
  "contactId": "003xx000004WsO8",
  "loyaltyProgramMemberId": "0lMxx00000008FJ",
  "loyaltyProgramName": "program1",
  "membershipNumber": "Member3",
  "transactionJournals": [
    {
      "activityDate": "2021-01-01T08:00:00.000Z",
      "journalSubType": "Member Enrollment",
      "journalType": "Accrual",
      "loyaltyProgram": "program1",
      "loyaltyProgramMember": "Member3",
      "referredMember": null,
      "status": "Pending",
      "transactionJournalId": "0lVxx000000029t"
    },
    {
      "activityDate": "2021-01-01T08:00:00.000Z",
      "journalSubType": "Member Referral",
      "journalType": "Accrual",
      "loyaltyProgram": "program1",
      "loyaltyProgramMember": "Member1",
      "referredMember": "Member3",
      "status": "Pending",
      "transactionJournalId": "0lVxx000000029u"
    }
  ]
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| contactId | String | The ID of the loyalty program member's person account. | Small, 55.0 | 55.0 |
| loyaltyProgramMemberId | String | The ID of the loyalty program member record created for the member. | Small, 55.0 | 55.0 |
| loyaltyProgramName | String | The name of the loyalty program into which the member is enrolled. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| membershipNumber | String | The membership number of the enrolled member. | Small, 55.0 | 55.0 |
| transactionJournals | Transaction Journal Output[] | The list of transaction journals that are created. | Small, 55.0 | 55.0 |

## Loyalty Account Output

Represents the details of the loyalty program member's associated account record.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| accountId | String | The ID of the associated account record. | Small, 55.0 | 55.0 |
| name | String | The name of the associated account. | Small, 55.0 | 55.0 |

## Loyalty Engine Realtime Output

Output representation of the loyalty program process result.

**JSON example**

```
{
   "message":null,
   "processResult":{
      "memberPointsBalance":[
         {
            "memberCurrencies":[
               {
                  "currencyName":"Tier Coins",
                  "currencyType":"Qualifying",
                  "escrowPointsBalance":0.0,
                  "pointsBalance":350.0
               },
               {
                  "currencyName":"Coins",
                  "currencyType":"NonQualifying",
                  "escrowPointsBalance":0.0,
                  "pointsBalance":300.0
               }
            ],
            "memberShipNumber":"M5"
         }
      ],
      "transactionJournalResult":[
         {
            "badgesAssigned":[
               {
                  "badgeValidityEndDate":"2023-12-15",
```

```
                "loyaltyProgramBadgeName":"Gen AI Badge",
                "memberBadgeStatus":"1",
                "reason":"Test"
             }
          ],
          "changeInMemberPoints":[
             {
                "changeInMemberCurrencies":[
                   {
                      "changeInPointsBalance":100.0,
                      "currencyName":"Coins",
                      "currencyType":"NonQualifying",
                      "promotionId":"0c8RM0000004FiX"
                   }
                ],
                "memberShipNumber":"M5"
             }
          ],
          "gamesAssigned":[
             {
                "gameDefinitionName":"3PRRM0000004C98",
                "gameExpirationDate":"2023-12-28T00:00:00.000Z",
                "reason":"Test"
             }
          ],
          "id":"0lVRM0000002qnB2AQ",
          "voucherResult":{
             "vouchersIssued":[
                {
                   "discountPercent":10,
                   "effectiveDate":"2023-11-29",
                   "expirationDate":"2023-12-15",
                   "promotionId":"0c8RM0000004FiX",
                   "voucherDefinitionName":"10% Discount Voucher"
                }
             ]
          }
       }
    ]
 },
 "programName":"NTO",
 "simulationResults":null,
 "status":true
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | Error message. | Small, 54.0 | 54.0 |
| `processResult` | Process Result | Details of each transaction journal in a request, and also the member points balance that is the currency-wise balances | Small, 54.0 | 54.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| | | after all the transaction journals are processed.<br>The process result collection is empty when the simulation is run. | | |
| `programName` | String | Name of the loyalty program. | Small, 55.0 | 55.0 |
| `simulationResults` | Transaction Journal Map Output | Simulation result that details how the loyalty program process rules can process a transaction journal.<br>The simulation result collection is empty when the loyalty program process is run. | Small, 55.0 | 55.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 54.0 | 54.0 |

**Important:** The response contains only the details of the points, badges, games, and vouchers that are provided by the loyalty program process rules executed for the member's order. The response doesn't contain the details of the rewards provided by the flows or the subprocesses that the loyalty program process rules execute.

## Loyalty Contact Output

Represents the details of the loyalty program member's associated contact record.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `contactId` | String | The ID of the associated contact record. | Small, 55.0 | 55.0 |
| `email` | String | The email of the associated contact. | Small, 55.0 | 55.0 |
| `firstName` | String | The first name of the associated contact. | Small, 55.0 | 55.0 |
| `lastName` | String | The last name of the associated contact. | Small, 55.0 | 55.0 |

## Loyalty Process Output

Output representation of the loyalty process response.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | The message that provides details of the error in executing the loyalty process request. | Small, 56.0 | 56.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `outputParameters` | Map<String, Object> | The parameters returned after the execution of a loyalty process. | Small, 56.0 | 56.0 |
| `simulationDetails` | Map<String, Object> | Specifies the simulation execution type details including detailed steps on how the process is executed.<br>Note: This property is for future use. | Small, 56.0 | 56.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 56.0 | 56.0 |

## Loyalty Program Process Rule

Output representation of the loyalty program process rules.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `actionResultSummary` | Various | The result provided by each action that processed the transaction journals. The type of action must be configured in the loyalty program process rule.<br>• `CreditPoints`—Credit loyalty points to a specified loyalty program member's balance. See Credit Points Action Output.<br>• `DebitPoints`—Debit loyalty points from a specified loyalty program member's balance. See Debit Points Action Output.<br>• `IssueVoucher`—Issue a voucher for a loyalty program member. See Issue Voucher Action Output.<br>• `UpdateUsageForCumulativePromotion`—Update the progress made by a loyalty program member towards attaining a cumulative type promotion. See Update Cumulative Action Output. | Small, 55.0 | 55.0 |
| `errorMessage` | String | The message stating the reason for error, if any. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| executionStatus | String | The execution status of the loyalty program process rule.<br>Valid values are:<br>• CriteriaNotMet<br>• Failed<br>• Success | Small, 55.0 | 55.0 |
| executionSummary | Summary | The summary of how the loyalty program process rules processed the transaction journals. | Small, 55.0 | 55.0 |
| previousRuleName | String | The name of the loyalty program process rule that processed the transaction journals before the current loyalty program process rule. | Small, 55.0 | 55.0 |
| processRuleName | String | The name of the loyalty program process rule that processed the transaction journals. | Small, 55.0 | 55.0 |
| promotionName | String | The name of the loyalty program promotion associated with the rule. | Small, 55.0 | 55.0 |
| ruleSteps | Various | A list of steps that are part of the loyalty process process rules.<br>• Action—Loyalty program process rule action. See Loyalty Program Process Rule Action.<br>• Condition—Loyalty program process rule condition. See Loyalty Program Process Rule Condition.<br>• ConditionGroup—Loyalty program process rule condition group. See Loyalty Program Process Rule Condition Group.<br>• DefaultPath | Small, 55.0 | 55.0 |

## Loyalty Program Process Rule Step

Output representation of the loyalty program process rule step.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| errorMessage | String | The message stating the reason for error, if any. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `sequenceNumber` | Integer | The sequence number of a rule step. | Small, 55.0 | 55.0 |
| `status` | String | The status of the loyalty program process rule step execution.<br>Possible values are:<br>• `CriteriaNotMet`<br>• `Failed`<br>• `Success` | Small, 55.0 | 55.0 |
| `stepName` | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |
| `stepType` | String | Specifies the type of step in the loyalty program process rule.<br>Possible values are:<br>• `Action`<br>• `Condition`<br>• `ConditionGroup`<br>• `DefaultPath` | Small, 55.0 | 55.0 |

## Loyalty Program Process Rule Action

Output representation of the loyalty program process rule action.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `actionParameters` | Loyalty Program Process Rule Action Parameter[] | The list of parameters of the action. | Small, 55.0 | 55.0 |
| `actionType` | String | The type of action in the loyalty program process rule.<br>Possible values are:<br>• `AssignParameterValues`<br>• `CreditPoints`<br>• `DeditPoints`<br>• `GetMemberAttributesValues`<br>• `GetMemberPointBalance`<br>• `GetMemberTier`<br>• `GetOutputsFromDecisionTable`<br>• `IncreaseUsageForCumulativePromotion` | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| | | • `IssueVoucher`<br>• `RunFlow`<br>• `UpdateCurrentValueForMemberAttribute`<br>• `UpdateUsageForCumulativePromotion` | | |
| `decisionTableName` | String | The name of the decision table being executed with the action. | Small, 55.0 | 55.0 |
| `errorMessage` | String | The message stating the reason for error, if any. | Small, 55.0 | 55.0 |
| `flowDefinitionName` | String | The name of the flow definition that is run with the action. | Small, 55.0 | 55.0 |
| `sequenceNumber` | Integer | The sequence number of a rule step in the process rule. | Small, 55.0 | 55.0 |
| `status` | String | The status of the loyalty program process rule step execution.<br>Possible values are:<br>• `CriteriaNotMet`<br>• `Failed`<br>• `Success` | Small, 55.0 | 55.0 |
| `stepName` | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |
| `stepType` | String | Specifies the type of step in the loyalty program process rule.<br>Possible values are:<br>• `Action`<br>• `Condition`<br>• `ConditionGroup`<br>• `DefaultPath` | Small, 55.0 | 55.0 |

## Loyalty Program Process Rule Action Parameter

Output representation of the loyalty program process rule action parameter.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `name` | String | The name of the parameter. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `operator` | String | The type of operator used in the action.<br>Possible value is:<br>• `Equals` | Small, 55.0 | 55.0 |
| `sequenceNumber` | Integer | The sequence number of the parameter in the action. | Small, 55.0 | 55.0 |
| `value` | Expression | The value of the parameter. | Small, 55.0 | 55.0 |

## Loyalty Program Process Rule Condition

Output representation of the loyalty program process rule condition.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `childSteps` | Loyalty Program Process Rule Step[] | The child steps of the condition. | Small, 55.0 | 55.0 |
| `errorMessage` | String | The message stating the reason for error, if any. | Small, 55.0 | 55.0 |
| `filterCondition` | String | The logic that is specified to apply the filter conditions. | Small, 55.0 | 55.0 |
| `filterCriteria` | Loyalty Program Process Rule Condition Filter Criteria[] | The filter criteria of a condition. | Small, 55.0 | 55.0 |
| `isConditionMet` | Boolean | Indicates whether the transaction journal meets this condition (`true`) or not (`false`). | Small, 55.0 | 55.0 |
| `sequenceNumber` | Integer | Sequence number of a rule step in a rule. | Small, 55.0 | 55.0 |
| `status` | String | The status of the loyalty program process rule step execution.<br>Possible values are:<br>• `CriteriaNotMet`<br>• `Failed`<br>• `Success` | Small, 55.0 | 55.0 |
| `stepName` | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `stepType` | String | Specifies the type of step in the loyalty program process rule.<br>Possible values are:<br>• `Action`<br>• `Condition`<br>• `ConditionGroup`<br>• `DefaultPath` | Small, 55.0 | 55.0 |

## Loyalty Program Process Rule Condition Filter Criteria

Output representation of the loyalty program process rule condition filter criteria.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `filterCriteriaResult` | Boolean | Indicates whether the transaction journal meets this filter criteria (`true`) or not (`false`). | Small, 55.0 | 55.0 |
| `operator` | String | The operator of a condition filter criteria.<br>Possible values are:<br>• `Contains`<br>• `DoesNotContain`<br>• `Equals`<br>• `GreaterThan`<br>• `GreaterThanOrEquals`<br>• `IsNOtNull`<br>• `IsNull`<br>• `LessThan`<br>• `LessThanOrEquals`<br>• `NotEquals` | Small, 55.0 | 55.0 |
| `sequence` | Integer | The sequence number of the criteria in a rule condition. | Small, 55.0 | 55.0 |
| `sourceFieldName` | Expression | The source field of a condition or action. | Small, 55.0 | 55.0 |
| `value` | Expression | The value of an expression. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `valueType` | String | The type of value that is specified for a condition or an action parameter.<br>Possible values are:<br>• `FixedValue`<br>• `Formula`<br>• `Lookup`<br>• `Parameter` | Small, 55.0 | 55.0 |

## Loyalty Program Process Rule Condition Group

Output representation of the loyalty program process rule condition group.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `childSteps` | Loyalty Program Process Rule Step[] | The child steps of the condition group. | Small, 55.0 | 55.0 |
| `errorMessage` | String | The message stating the reason for error, if any. | Small, 55.0 | 55.0 |
| `sequenceNumber` | Integer | The sequence number of a rule step in a rule. | Small, 55.0 | 55.0 |
| `status` | String | The status of the loyalty program process rule step execution.<br>Possible values are:<br>• `CriteriaNotMet`<br>• `Failed`<br>• `Success` | Small, 55.0 | 55.0 |
| `stepName` | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |
| `stepType` | String | Specifies the type of step in the loyalty program process rule.<br>Possible values are:<br>• `Action`<br>• `Condition`<br>• `ConditionGroup`<br>• `DefaultPath` | Small, 55.0 | 55.0 |

## Loyalty View Transaction Journal History Output

Output representation of the view transaction history request.

**JSON example**


```
{
   "message":null,
   "status":true,
   "totalCount":2,
   "transactionJournals":[
      {
         "ActivityDate":"2021-11-27T00:00:00Z",
         "BookedFareClass":"",
         "BookedRoomType":"",
         "BookingDate":"2020-10-23T00:00:00Z",
         "Brand":"Ikea",
         "Channel":"Offline",
         "Destination":"London",
         "Distance":0,
         "EndDate":"2021-10-23T00:00:00Z",
         "ErrorDescription":"",
         "EscrowPointsCreditDate":"2020-10-23",
         "Establishment":"Build",
         "ExternalTransactionNumber":"1",
         "FlightNumber":"123456",
         "Industry":"Wellness",
         "InvoiceDate":"2020-10-23",
         "JournalDate":"2021-12-25T00:00:00Z",
         "JournalReason":"",
         "JournalSubTypeId":"0lST10000000045MAA",
         "JournalTypeId":"0lET1000000009GMAQ",
         "LoyaltyProgramId":"0lpT100000000HbIAI",
         "MemberId":"0lMT100000000ZLMAY",
         "OrderId":"",
         "OrderItemId":"",
         "Origin":"NewYork",
         "PartnerId":"",
         "PaymentMethod":"",
         "ProductCategoryId":"0ZGT100000000AsOAI",
         "ProductId":"01tT1000000EQcXIAW",
         "PromotionId":"",
         "Quantity":1,
         "QuantityUnitOfMeasureId":"",
         "ReferredMemberId":"",
         "RelatedCorporateMembershipId":"",
         "RelatedJournalId":"",
         "StartDate":"2020-10-23T00:00:00Z",
         "TransactionAmount":45,
         "TransactionLocation":"",
         "TraveledFareClass":"",
         "VoucherCode":""
      },
      {
         "ActivityDate":"2021-11-27T00:00:00Z",
```

```
            "BookedFareClass":"",
            "BookedRoomType":"",
            "BookingDate":"2020-10-23T00:00:00Z",
            "Brand":"Ikea",
            "Channel":"Offline",
            "Destination":"London",
            "Distance":0,
            "EndDate":"2021-10-23T00:00:00Z",
            "ErrorDescription":"",
            "EscrowPointsCreditDate":"2020-10-23",
            "Establishment":"Build",
            "ExternalTransactionNumber":"1",
            "FlightNumber":"123456",
            "Industry":"Wellness",
            "InvoiceDate":"2020-10-23",
            "JournalDate":"2021-12-25T00:00:00Z",
            "JournalReason":"",
            "JournalSubTypeId":"0lST10000000045MAA",
            "JournalTypeId":"0lET1000000009GMAQ",
            "LoyaltyProgramId":"0lpT100000000HbIAI",
            "MemberId":"0lMT100000000ZLMAY",
            "OrderId":"",
            "OrderItemId":"",
            "Origin":"NewYork",
            "PartnerId":"",
            "PaymentMethod":"",
            "ProductCategoryId":"0ZGT100000000AsOAI",
            "ProductId":"01tT1000000EQcXIAW",
            "PromotionId":"",
            "Quantity":2,
            "QuantityUnitOfMeasureId":"",
            "ReferredMemberId":"",
            "RelatedCorporateMembershipId":"",
            "RelatedJournalId":"",
            "StartDate":"2020-10-23T00:00:00Z",
            "TransactionAmount":55,
            "TransactionLocation":"",
            "TraveledFareClass":"",
            "VoucherCode":""
        }
    ]
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | The message explaining why the request failed. | Small, 56.0 | 56.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 56.0 | 56.0 |
| `totalCount` | Integer | The total number of transaction journals that match the input criteria. | Small, 56.0 | 56.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| transactionJournals | Map<String, Object>[] | The details of the transaction journals. | Small, 56.0 | 56.0 |

## Member Benefits Output

Output representation of all benefits available for a member.

### JSON Example

```
{
  "result" : {
      "benefitId": "0lB000000abc123",
      "benefitName": "15 Kg Luggage",
      "benefitTypeId": "0lo0000000afja435",
      "benefitTypeName": "Carry On Luggage",
      "startDate": "23-05-2015",
      "endDate": "22-05-2035",
      "isActive": true,
      "createdRecordId": "570000000ak123",
      "createdRecordName": "15 Kg Luggage Carry On",
      "description": "This is a carry on luggage member benefit"
  },
  {
      "benefitId": "0lB000000gsy88",
      "benefitName": "Priority Support",
      "benefitTypeId": "0lo0000000pi23ii",
      "benefitTypeName": "Support Entitlements",
      "startDate": "16-08-2020",
      "endDate": "15-02-2021",
      "isActive": true,
      "createdRecordId": "550000000aj112",
      "createdRecordName": "Priority Support Entitlement",
      "description": "This is a support entitlement member benefit"
  }
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| memberBenefits | Member Benefit Output[] | List of all benefits available for a member. | Small, 51.0 | 51.0 |

## Member Benefit Output

Output representation of an individual benefit available for a member.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| benefitId | String | The ID of the benefit available for the member. | Small, 51.0 | 51.0 |
| benefitName | String | The name of the benefit available for the member. | Small, 51.0 | 51.0 |
| benefitTypeId | String | The ID of the associated benefit type record. | Small, 51.0 | 51.0 |
| benefitTypeName | String | The name of the associated benefit type. | Small, 51.0 | 51.0 |
| createdRecordId | String | The ID of the record created during benefit assignment. | Small, 51.0 | 51.0 |
| createdRecordName | String | The display name of the record created during benefit assignment. | Small, 51.0 | 51.0 |
| description | String | The description of the benefit available to a loyalty program member. | Small, 58.0 | 58.0 |
| endDate | String | The date the benefit expires. | Small, 51.0 | 51.0 |
| isActive | Boolean | Indicates whether the benefit is active (`true`) or not (`false`). | Small, 51.0 | 51.0 |
| startDate | String | The date from when the benefit applies to a member. | Small, 51.0 | 51.0 |

## Member Currency Output

Represents the details of the loyalty program member's associated currencies.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| additionalLoyaltyMemberCurrencyFields | Map<String, Object> | The details of the custom fields added in the loyalty member currency object. | Small, 55.0 | 55.0 |
| escrowPointsBalance | Double | The escrow points balance of the member for the currency. | Small, 55.0 | 55.0 |
| expirablePoints | Double | The number of points that the member hasn't redeemed for the currency. | Small, 55.0 | 55.0 |
| lastAccrualProcessedDate | String | The date on which the member's accruals for the currency were last processed. | Small, 55.0 | 55.0 |
| lastEscrowProcessedDate | String | The date on which the member's escrow points were last rolled over to their points balance for the currency. | Small, 55.0 | 55.0 |
| lastExpirationProcessRunDate | String | The date on which the member's points were last expired for the currency. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| lastPointsAggregationDate | String | The date on which the member's points for the fixed type non-qualifying currency were last aggregated. | Small, 55.0 | 55.0 |
| lastPointsResetDate | String | The date on which the member's points for the currency were last reset. | Small, 55.0 | 55.0 |
| loyaltyMemberCurrencyName | String | The name of the Loyalty Member Currency record. | Small, 55.0 | 55.0 |
| loyaltyProgramCurrencyId | String | The ID of the loyalty program currency associated with the member. | Small, 55.0 | 55.0 |
| loyaltyProgramCurrencyName | String | The name of the loyalty program currency associated with the member. | Small, 55.0 | 55.0 |
| memberCurrencyId | String | The ID of the Loyalty Member Currency record. | Small, 55.0 | 55.0 |
| nextQualifyingPointsResetDate | String | The date on which the member's points balance for the qualifying currency is reset next. | Small, 55.0 | 55.0 |
| pointsBalance | Double | The points balance of the member for the currency. | Small, 55.0 | 55.0 |
| qualifyingPointsBalanceBeforeReset | Double | The last point balance of the member before the member's points balance was reset to zero for the qualifying currency. | Small, 55.0 | 55.0 |
| totalEscrowPointsAccrued | Double | The total number of points that the member has accrued in escrow for the currency. | Small, 55.0 | 55.0 |
| totalEscrowRolloverPoints | Double | The total number of points that has rolled over from the member's escrow point balance to the member's points balance for the currency. | Small, 55.0 | 55.0 |
| totalPointsAccrued | Double | The total number of points the member has accrued for the currency. | Small, 55.0 | 55.0 |
| totalPointsExpired | Double | The total number of points that have expired for the member. | Small, 55.0 | 55.0 |
| totalPointsRedeemed | Double | The total number of points the member has redeemed for the currency. | Small, 55.0 | 55.0 |

## Member Currency Change

Output representation of the member currency change.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| changeInEscrowPointsBalance | Double | The change in escrow points balance. | Small, 54.0 | 54.0 |
| changeInPointsBalance | Double | The change in points balance. | Small, 54.0 | 54.0 |
| currencyName | String | The name of the member currency. | Small, 54.0 | 54.0 |
| currencyType | String | The type of member currency.<br>Possible values are:<br>• NonQualifying<br>• Qualifying | Small, 54.0 | 54.0 |
| promotionId | String | The promotion ID for which the member is credited points. | Small, 54.0 | 54.0 |

## Member Engagement Trail Output

Output representation of member engagement trail API.

**Sample Response**

Note: The field remainingResetCount and totalResetCount may show null if the set limit is 1.


```
{
  "memberEngagementAttributeOutputRepresentations": [
    {
      "attributeStatus": "Active",
      "currentValue": null,
      "defaultValue": "0",
      "description": null,
      "endDate": "2025-01-31",
      "name": "Book A Cab",
      "startDate": "2024-11-01",
      "targetValue": "2.0"
    },
    {
      "attributeStatus": "Active",
      "currentValue": null,
      "defaultValue": "0",
      "description": null,
      "endDate": "2025-01-31",
      "name": "Book A Hotel Room",
      "startDate": "2024-11-01",
      "targetValue": "1.0"
    },
    {
      "attributeStatus": "Active",
      "currentValue": null,
      "defaultValue": "0",
      "description": null,
      "endDate": "2025-01-31",
```

```
      "name": "Book A Flight",
      "startDate": "2024-11-01",
      "targetValue": "1.0"
    }
  ],
  "message": null,
  "promotionName": "Engagement Trail",
  "remainingResetCount": null,
  "rewards": [
    {
      "badgeReward": [],
      "pointsRewards": [
        {
          "currencyName": "Reward Points",
          "points": 200
        },
        {
          "currencyName": "Tier Points",
          "points": 100
        }
      ],
      "voucherRewards": []
    }
  ],
  "status": true,
  "totalResetCount": null
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `status` | Boolean | Indicates whether the request succeeded (true) or failed (false). | Small, 62.0 | 62.0 |
| `message` | String | The message explaining why the request failed. | Small, 62.0 | 62.0 |
| ~~`engagementAttribute`~~ | | Indicates the event that is tracked for a member. | Small, 62.0 | 62.0 |
| `totalResetCount` | Integer | The maximum number of times a member can complete the engagement trail and earn rewards. | Small, 62.0 | 62.0 |
| ~~`remainingResetCount`~~ | Integer | The number of times a member can still complete the engagement trail and earn rewards. | Small, 62.0 | 62.0 |

## Member Engagement Attribute

Ouput representation of Member Engagement Attribute.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `name` | String | The name of the engagement attribute. | Small, 62.0 | 62.0 |
| `description` | String | The description of the engagement attribute. | Small, 62.0 | 62.0 |
| `startDate` | DateTime | The date from when the engagement attribute is tracked for members. | Small, 62.0 | 62.0 |
| `endDate` | DateTime | The date until which the engagement attribute is tracked for members. | Small, 62.0 | 62.0 |
| `currentValue` | Integer | The current value of the engagement attribute. | Small, 62.0 | 62.0 |
| `targetValue` | Integer | The value that members have to achieve to complete the engagement attribute's target. | Small, 62.0 | 62.0 |
| `attributeStatus` | String | The status of the engagement attribute. | Small, 62.0 | 62.0 |
| `defaultValue` | Integer | The default value of the engagement attribute. | Small, 62.0 | 62.0 |
| `pointsRewards` | List | Indicates the rewards in the form of points or currencies. | Small, 62.0 | 62.0 |
| `currencyId` | String | The ID of the currency. | Small, 62.0 | 62.0 |
| `currencyName` | String | The name of the currency. | Small, 62.0 | 62.0 |
| `points` | Integer | Number of points to give as a reward. | Small, 62.0 | 62.0 |
| `voucherRewards` | List | Indicates the rewards in the form of vouchers. | Small, 62.0 | 62.0 |
| `voucherDefinitionId` | String | The ID of the voucher definition. | Small, 62.0 | 62.0 |
| `voucherName` | String | The name of the voucher. | Small, 62.0 | 62.0 |
| `BadgeRewards` | List | Indicates the rewards in the form of badges. | Small, 62.0 | 62.0 |
| `badgeId` | String | The ID of the badge. | Small, 62.0 | 62.0 |
| `badgeName` | String | The name of the badge. | Small, 62.0 | 62.0 |

## Member Points Balance

Output representation of the member currency result.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `memberCurrencies` | Member Currency[] | List of currencies associated with the loyalty program member. | Small, 54.0 | 54.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| memberShipNumber | String | The membership number of the loyalty program member who is associated with the transaction journal that's created. | Small, 54.0 | 54.0 |

## Member Profile Output

Output representation of the details of a loyalty program member.

**JSON example**

```
{
  "programName": "baLoyalty",
  "associatedContactDetails": {
    "id": "003xx0000000003",
    "firstName": "Abcd",
    "lastName": "Xyz",
    "email": "abcd@salesforce.com"
  },
  "associatedAccountDetails": {
    "id": "001xx0000000003",
    "name": "Salesforce"
  },
  "membershipNumber": "1234",
  "memberId": "0lMxx0000A000001EAA",
  "memberStatus": "Active",
  "memberType": "Individual",
  "groupName": "Family Group",
  "groupCreatedByMember": "GM-001",
  "associatedCorporateMembershipNumber": "G-001",
  "referredBy": "H-001",
  "lastActivityDate": "2022-01-02",
  "statementLastGeneratedDate": "2022-09-09",
  "statementFrequency": "Monthly",
  "statementMethod": "Email",
  "enrollmentDate": "2022-01-01",
  "enrollmentChannel": "POS",
  "canReceivePromotions": "True",
  "canReceivePartnerPromotion": "True",
  "membershipEndDate": "2023-01-01",
  "membershipLastRenewalDate": "2021-01-01",
  "memberCurrencies": [
    {
      "programCurrency": "NQP",
      "pointsBalance": 500,
      "escrowPointsBalance": 25
    }
  ],
  "memberTiers": [
    {
      "tierGroupName": "QualifyingGroup",
      "tierName": "Gold",
```

```
      "sequenceNumber": "4",
      "effectiveDate": "2022-01-01",
      "expirationDate": "2022-01-10"
    }
  ],
  "additionalMemberFieldValues": {
    "secondaryEmail__c": "abcd@salesforce.com"
  },
  "additionalMemberCurrencyFieldValues": {
    "conversionRate__c": "5"
  },
  "additionalMemberTierFieldValues": {
    "previousTier__c": "Silver"
  }
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| additionalLoyaltyProgramMemberFields | Map<String, Object> | The details of the custom fields added in the loyalty program member object. | Small, 55.0 | 55.0 |
| associatedAccount | Member Account Output | The details of the account record that is associated with the loyalty program member. | Small, 55.0 | 55.0 |
| associatedContact | Member Contact Output | The details of the contact record that is associated with the loyalty program member. | Small, 55.0 | 55.0 |
| canReceivePartnerPromotions | Boolean | Indicates whether the loyalty program member can receive partner promotions. | Small, 55.0 | 55.0 |
| canReceivePromotions | Boolean | Indicates whether the loyalty program member can receive promotions (`true`) or not (`false`). | Small, 55.0 | 55.0 |
| enrollmentChannel | String | The channel used by the member to enroll in the loyalty program. | Small, 55.0 | 55.0 |
| enrollmentDate | String | The date on which the member enrolled in the loyalty program. | Small, 55.0 | 55.0 |
| groupCreatedByMember | String | The membership number of the loyalty program member who created the group. | Small, 55.0 | 55.0 |
| groupName | String | The name of the loyalty program group to which the member belongs. | Small, 55.0 | 55.0 |
| lastActivityDate | String | The date on which the member performed their last activity. | Small, 55.0 | 55.0 |
| loyaltyProgramMemberId | String | The ID of the loyalty program member. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| loyaltyProgramName | String | The name of the loyalty program. | Small, 55.0 | 55.0 |
| memberCurrencies | Member Currency Output[] | The currencies associated with the loyalty program member. | Small, 55.0 | 55.0 |
| memberStatus | String | The status of the loyalty program member. | Small, 55.0 | 55.0 |
| memberTiers | Member Tier Output[] | The tiers associated with the loyalty program member. | Small, 55.0 | 55.0 |
| memberType | String | The type of loyalty program member. | Small, 55.0 | 55.0 |
| membershipEndDate | String | The date on which the membership ends. | Small, 55.0 | 55.0 |
| membershipLastRenewalDate | String | The date on which the loyalty program member last renewed their membership. | Small, 55.0 | 55.0 |
| membershipNumber | String | The membership number of the loyalty program member. | Small, 55.0 | 55.0 |
| referredBy | String | The membership number of the loyalty program member who referred the member to the loyalty program. | Small, 55.0 | 55.0 |
| relatedCorporateMembershipNumber | String | The membership number of the Corporate type loyalty program member associate with the member. | Small, 55.0 | 55.0 |
| transactionJournalStatementFrequency | String | The frequency at which transaction journal statements must be delivered to the member.<br>Possible values are:<br>• Monthly<br>• Quarterly | Small, 55.0 | 55.0 |
| transactionJournalStatementLastGeneratedDate | String | The date on which the member's last transaction journal statement was generated. | Small, 55.0 | 55.0 |
| transactionJournalStatementMethod | String | The method used to deliver transaction journal statements to the member. | Small, 55.0 | 55.0 |

## Member Currency

Output representation of the member currency details.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| currencyName | String | The name of the member currency. | Small, 54.0 | 54.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| currencyType | String | The type of member currency.<br>Possible values are:<br>• NonQualifying<br>• Qualifying | Small, 54.0 | 54.0 |
| escrowPointsBalance | Double | The number of points the member has in escrow for a currency. | Small, 54.0 | 54.0 |
| pointsBalance | Double | The member's points balance for a currency. | Small, 54.0 | 54.0 |

## Member Tier Output

Represents the details of the loyalty program member's associated tiers.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| additionalLoyaltyMemberTierFields | Map<String, Object> | The details of the custom fields added in the Loyalty Member Tier object. | Small, 55.0 | 55.0 |
| areTierBenefitsAssigned | Boolean | Indicates whether the benefits associated with the tier have been assigned to the member (true) or not (false). | Small, 55.0 | 55.0 |
| loyaltyMemberTierId | String | The ID of tier associated with the loyalty program member. | Small, 55.0 | 55.0 |
| loyaltyMemberTierName | String | The name of the loyalty member tier. | Small, 55.0 | 55.0 |
| tierChangeReason | String | The reason why the member's was assigned the current tier. | Small, 55.0 | 55.0 |
| tierChangeReasonType | String | The reason type why the member's was assigned the current tier. | Small, 55.0 | 55.0 |
| tierEffectiveDate | String | The date on which the member was assigned the tier. | Small, 55.0 | 55.0 |
| tierExpirationDate | String | The date on which the member's current tier expires. | Small, 55.0 | 55.0 |
| tierGroupId | String | The ID of the tier group associated with the Loyalty Tier record. | Small, 55.0 | 55.0 |
| tierGroupName | String | The name of the tier group. | Small, 55.0 | 55.0 |
| tierId | String | The ID of the Loyalty Tier record. | Small, 55.0 | 55.0 |
| tierSequenceNumber | Integer | The sequence number of the tier. | Small, 55.0 | 55.0 |

## Member Points Balance Change

Output representation of the points balance change for a member.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| changeInMemberCurrencies | Member Currency Change[] | List of points balance changes for the member's currencies based on the transaction journal and promotions. | Small, 54.0 | 54.0 |
| memberShipNumber | String | The membership number of the loyalty program member who is associated with the transaction journal that's created. | Small, 54.0 | 54.0 |

## Name And Id Output

Output representation of an object's name and ID.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| id | String | ID of the object. | Small, 60.0 | 60.0 |
| name | String | Name of the object. | Small, 60.0 | 60.0 |

## Participant Game Rewards List

Output representation of the participant game reward object.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| expirationDate | String | Date until which the game reward is valid. | Small, 60.0 | 60.0 |
| gameParticipantRewardId | String | ID of the participant game reward object. | Small, 60.0 | 60.0 |
| gameRewardId | String | ID of the game reward won. This field is null for a game yet to be played. | Small, 60.0 | 60.0 |
| issuedRewardReference | String | Voucher ID, or the transaction journal ID associated with the voucher, or the loyalty points rewarded to the participant. This field is null for a game yet to be played. | Small, 60.0 | 60.0 |
| sourceActivity | String | ID of the promotion, or the transaction journal that is associated with the activity because of which the participant was eligible to play the game. Examples of source activities include purchasing a product, and reviewing on social media.<br>This field is null for a game yet to be played. | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `status` | String | Status of the reward. Possible values are:<br>• `Expired`<br>• `NoReward`<br>• `Rewarded`<br>• `YetToReward` | Small, 60.0 | 60.0 |

## Process Result

Output representation of results of the processed Transaction Journals records.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `memberPointsBalance` | Member Points Balance[] | List of member currencies for which points balance has changed based on the Transaction Journal records that are created. | Small, 54.0 | 54.0 |
| `transactionJournalResult` | Transaction Journal Result[] | Details of the Transaction Journal records that are created. | Small, 54.0 | 54.0 |

## Points Change Output

Output representation of the points debited from or credited to the member's points balance by the transaction journal.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `changeInPoints` | Double | Specifies the number of points that have been debited from or credited to the member by the transaction journal. | Small, 58.0 | 58.0 |
| `loyaltyMemberCurrency` | String | Name of the loyalty member currency for which the transaction journal has debited or credited points. | Small, 58.0 | 58.0 |

## Points Summary

Output representation of the point summary.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `changeInEscrowPoints Balance` | Double | The change in the escrow points balance of the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| changeInPointsBalance | Double | The change in the points balance of the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| loyaltyProgramCurrencyName | String | The name of the loyalty program currency for which points are debited from or credited to the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| loyaltyProgramCurrencyType | CurrencyType | The type of the loyalty program currency.<br>Valid values are:<br>• NonQualifying<br>• Qualifying | Small, 55.0 | 55.0 |

## Product Details

The details of a product associated with the recommended promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| id | String | The ID of the product. | Big, 64.0 | 64.0 |
| name | String | The name of the product. | Big, 64.0 | 64.0 |
| personalizationContentId | String | The response ID of the product recommendation for the product. | Big, 64.0 | 64.0 |
| productImageUrl | String | The URL of the image associated with the product. | Big, 64.0 | 64.0 |
| sku | String | The SKU of the product. | Big, 64.0 | 64.0 |

## Promotion Configuration Output

Output representation of the promotion's details and its configuration.

**JSON Example**

```
{
    "apiExecutedDateTime": "2024-05-29T09:02:38.809Z",
    "promotionDetails": {
        "additionalFieldValues": {
            "attributes": {}
        },
        "displayName": "Tea Time",
        "endDateTime": "2024-07-31T08:58:00.000Z",
        "name": "Tea Time",
```

```
        "priorityNumber": 1,
        "promotionCode": "TEATIME",
        "promotionLimits": {},
        "startDateTime": "2024-05-01T08:58:00.000Z"
    },
    "promotionLastModifiedDateTime": "2024-05-29T09:01:51.000Z",
    "promotionRuleList": [
        {
            "apiName": "Eligibility_Rule_Unified_Promotions_0c8xx000000034L",
            "isEligibilityRule": true,
            "name": "Eligibility_Rule_Unified_Promotions_0c8xx000000034L_v1",
            "ruleActionList": [],
            "ruleFilterCriteriaList": [
                {
                    "conditionLogic": "1",
                    "name": "FilterCriteria1",
                    "ruleActionList": [],
                    "ruleConditionList": [
                        {
                            "operator": "Equals",
                            "parameterName": "CurrencyISOCode",
                            "sequenceNumber": 1,
                            "valueList": [
                                "USD"
                            ],
                            "valueType": "Literal"
                        }
                    ],
                    "sequenceNumber": 1,
                    "type": "Exists"
                },
                {
                    "conditionLogic": "1 AND 2",
                    "name": "FilterCriteria2",
                    "parentFilterCriteria": "FilterCriteria1",
                    "ruleActionList": [],
                    "ruleConditionList": [
                        {
                            "operator": "GreaterThanOrEquals",
                            "parameterName": "ActivityStartDateTime",
                            "sequenceNumber": 1,
                            "valueList": [
                                "2024-05-01 08:58:00"
                            ],
                            "valueType": "Literal"
                        },
                        {
                            "operator": "LessThanOrEquals",
                            "parameterName": "ActivityStartDateTime",
                            "sequenceNumber": 2,
                            "valueList": [
                                "2024-07-31 08:58:00"
                            ],
                            "valueType": "Literal"
```

```
                    }
                ],
                "sequenceNumber": 2,
                "type": "Exists"
            },
            {
                "conditionLogic": "1 AND 2",
                "name": "FilterCriteria3",
                "parentFilterCriteria": "FilterCriteria2",
                "ruleActionList": [],
                "ruleConditionList": [
                    {
                        "operator": "Equals",
                        "parameterName": "ProductCatalog",
                        "sequenceNumber": 1,
                        "valueList": [
                            "Beverages"
                        ],
                        "valueType": "Literal"
                    },
                    {
                        "operator": "In",
                        "parameterName": "EligibleCartLineProduct",
                        "sequenceNumber": 2,
                        "valueList": [
                            "Tea"
                        ],
                        "valueType": "Literal"
                    }
                ],
                "sequenceNumber": 3,
                "type": "Exists"
            }
        ],
        "ruleParameterList": [
            {
                "contextTag": "cartLineProductCatalogId",
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": true,
                "isCollection": true,
                "isInput": true,
                "isOutput": false,
                "name": "ProductCatalog",
                "type": "Tag"
            },
            {
                "contextTag": "activityStartDate",
                "dataType": "DateTime",
                "decimalPlaces": 0,
                "hasContextTagMapping": true,
                "isCollection": true,
                "isInput": true,
                "isOutput": false,
```

```
                "name": "ActivityStartDateTime",
                "type": "Tag"
            },
            {
                "contextTag": "currencyISOCode",
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": true,
                "isCollection": true,
                "isInput": true,
                "isOutput": false,
                "name": "CurrencyISOCode",
                "type": "Tag"
            },
            {
                "contextTag": "cartLineProductId",
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": true,
                "isCollection": true,
                "isInput": true,
                "isOutput": false,
                "name": "EligibleCartLineProduct",
                "type": "Tag"
            }
        ],
        "sequenceNumber": 2147483647
    },
    {
        "apiName": "DiscountTea10Unified_Promotions_0c8xx000000034L",
        "isEligibilityRule": false,
        "name": "DiscountTea10Unified_Promotions_0c8xx000000034L_v1",
        "ruleActionList": [],
        "ruleFilterCriteriaList": [
            {
                "conditionLogic": "1",
                "name": "FinalFilterCriteria",
                "ruleActionList": [],
                "ruleConditionList": [
                    {
                        "operator": "GreaterThanOrEquals",
                        "parameterName": "TransactionAmount",
                        "sequenceNumber": 1,
                        "valueList": [
                            "25.0"
                        ],
                        "valueType": "Literal"
                    }
                ],
                "sequenceNumber": 1,
                "type": "Exists"
            },
            {
                "conditionLogic": "1",
```

```
            "name": "NonLoyaltyMemberCriteria",
            "parentFilterCriteria": "BranchCriteria",
            "ruleActionList": [
                {
                    "actionType": "SetValue",
                    "name": "pricingReward1",
                    "ruleActionParameterList": [
                        {
                            "name": "type",
                            "sequenceNumber": 1,
                            "value": "ProvideDiscount",
                            "valueType": "Literal"
                        },
                        {
                            "name": "discountLevel",
                            "sequenceNumber": 2,
                            "value": "Cart",
                            "valueType": "Literal"
                        },
                        {
                            "name": "discountValue",
                            "sequenceNumber": 3,
                            "value": "10.0",
                            "valueType": "Literal"
                        },
                        {
                            "name": "discountType",
                            "sequenceNumber": 4,
                            "value": "PercentageOff",
                            "valueType": "Literal"
                        }
                    ],
                    "sequenceNumber": 1
                }
            ],
            "ruleConditionList": [
                {
                    "operator": "GreaterThanOrEquals",
                    "parameterName": "ActivityStartDateTime",
                    "sequenceNumber": 1,
                    "valueList": [
                        "1970-01-01 08:00:00"
                    ],
                    "valueType": "Literal"
                }
            ],
            "sequenceNumber": 3,
            "type": "Exists"
        },
        {
            "name": "BranchCriteria",
            "parentFilterCriteria": "FinalFilterCriteria",
            "ruleActionList": [],
            "ruleConditionList": [],
```

```
                "sequenceNumber": 2,
                "type": "Branch"
            }
        ],
        "ruleParameterList": [
            {
                "contextTag": "transactionAmount",
                "dataType": "Currency",
                "decimalPlaces": 0,
                "hasContextTagMapping": true,
                "isCollection": true,
                "isInput": true,
                "isOutput": false,
                "name": "TransactionAmount",
                "type": "Tag"
            },
            {
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
                "name": "discountLevel",
                "type": "Variable"
            },
            {
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
                "name": "discountType",
                "type": "Variable"
            },
            {
                "contextTag": "activityStartDate",
                "dataType": "DateTime",
                "decimalPlaces": 0,
                "hasContextTagMapping": true,
                "isCollection": true,
                "isInput": true,
                "isOutput": false,
                "name": "ActivityStartDateTime",
                "type": "Tag"
            },
            {
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
```

```
                "name": "type",
                "type": "Variable"
            },
            {
                "dataType": "Numeric",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
                "name": "discountValue",
                "type": "Variable"
            }
        ],
        "sequenceNumber": 1
    },
    {
        "apiName": "TeaAndCoffeeDiscount10Unified_Promotions_0c8xx000000034L",
        "isEligibilityRule": false,
        "name": "TeaAndCoffeeDiscount10Unified_Promotions_0c8xx000000034L_v1",
        "ruleActionList": [],
        "ruleFilterCriteriaList": [
            {
                "conditionLogic": "1",
                "name": "NonLoyaltyMemberCriteria",
                "parentFilterCriteria": "BranchCriteria",
                "ruleActionList": [
                    {
                        "actionType": "SetValue",
                        "name": "pricingLineLevelReward1",
                        "ruleActionParameterList": [
                            {
                                "name": "type",
                                "sequenceNumber": 1,
                                "value": "ProvideDiscount",
                                "valueType": "Literal"
                            },
                            {
                                "name": "discountType",
                                "sequenceNumber": 2,
                                "value": "PercentageOff",
                                "valueType": "Literal"
                            },
                            {
                                "name": "discountLevel",
                                "sequenceNumber": 3,
                                "value": "Line",
                                "valueType": "Literal"
                            },
                            {
                                "name": "discountValue",
                                "sequenceNumber": 4,
                                "value": "10.0",
                                "valueType": "Literal"
```

```
                },
                {
                    "name": "discountProduct",
                    "sequenceNumber": 5,
                    "value": "Tea",
                    "valueType": "Literal"
                },
                {
                    "name": "discountProductId",
                    "sequenceNumber": 6,
                    "value": "Tea",
                    "valueType": "Literal"
                },
                {
                    "name": "discountAppliedAt",
                    "sequenceNumber": 7,
                    "value": "LineItem",
                    "valueType": "Literal"
                }
            ],
            "sequenceNumber": 1
        },
        {
            "actionType": "SetValue",
            "name": "pricingLineLevelReward2",
            "ruleActionParameterList": [
                {
                    "name": "type",
                    "sequenceNumber": 1,
                    "value": "ProvideDiscount",
                    "valueType": "Literal"
                },
                {
                    "name": "discountType",
                    "sequenceNumber": 2,
                    "value": "PercentageOff",
                    "valueType": "Literal"
                },
                {
                    "name": "discountLevel",
                    "sequenceNumber": 3,
                    "value": "Line",
                    "valueType": "Literal"
                },
                {
                    "name": "discountValue",
                    "sequenceNumber": 4,
                    "value": "10.0",
                    "valueType": "Literal"
                },
                {
                    "name": "discountProduct",
                    "sequenceNumber": 5,
                    "value": "Coffee",
```

```
                        "valueType": "Literal"
                    },
                    {
                        "name": "discountProductId",
                        "sequenceNumber": 6,
                        "value": "Coffee",
                        "valueType": "Literal"
                    },
                    {
                        "name": "discountAppliedAt",
                        "sequenceNumber": 7,
                        "value": "LineItem",
                        "valueType": "Literal"
                    }
                ],
                "sequenceNumber": 2
            }
        ],
        "ruleConditionList": [
            {
                "operator": "GreaterThanOrEquals",
                "parameterName": "ActivityStartDateTime",
                "sequenceNumber": 1,
                "valueList": [
                    "1970-01-01 08:00:00"
                ],
                "valueType": "Literal"
            }
        ],
        "sequenceNumber": 4,
        "type": "Exists"
    },
    {
        "conditionLogic": "1",
        "name": "ProductFilter1",
        "ruleActionList": [],
        "ruleConditionList": [
            {
                "operator": "In",
                "parameterName": "CartLineProduct",
                "sequenceNumber": 1,
                "valueList": [
                    "Tea"
                ],
                "valueType": "Literal"
            }
        ],
        "sequenceNumber": 1,
        "type": "Loop"
    },
    {
        "name": "BranchCriteria",
        "parentFilterCriteria": "FinalFilterCriteria",
        "ruleActionList": [],
```

```
                "ruleConditionList": [],
                "sequenceNumber": 3,
                "type": "Branch"
            },
            {
                "conditionLogic": "1",
                "name": "FinalFilterCriteria",
                "ruleActionList": [],
                "ruleConditionList": [
                    {
                        "matchType": "Any",
                        "operator": "GreaterThanOrEquals",
                        "parameterName": "FilterProducts1",
                        "sequenceNumber": 1,
                        "valueList": [
                            "6.0"
                        ],
                        "valueType": "Literal"
                    }
                ],
                "sequenceNumber": 2,
                "type": "Exists"
            }
        ],
        "ruleParameterList": [
            {
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
                "name": "discountLevel",
                "type": "Variable"
            },
            {
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
                "name": "discountProduct",
                "type": "Variable"
            },
            {
                "dataType": "Text",
                "decimalPlaces": 0,
                "hasContextTagMapping": false,
                "isCollection": false,
                "isInput": false,
                "isOutput": true,
                "name": "discountProductId",
                "type": "Variable"
```

```
        },
        {
            "dataType": "Text",
            "decimalPlaces": 0,
            "hasContextTagMapping": false,
            "isCollection": false,
            "isInput": false,
            "isOutput": true,
            "name": "discountType",
            "type": "Variable"
        },
        {
            "contextTag": "activityStartDate",
            "dataType": "DateTime",
            "decimalPlaces": 0,
            "hasContextTagMapping": true,
            "isCollection": true,
            "isInput": true,
            "isOutput": false,
            "name": "ActivityStartDateTime",
            "type": "Tag"
        },
        {
            "contextTag": "cartLineProductId",
            "dataType": "Text",
            "decimalPlaces": 0,
            "hasContextTagMapping": true,
            "isCollection": true,
            "isInput": true,
            "isOutput": false,
            "name": "CartLineProduct",
            "type": "Tag"
        },
        {
            "dataType": "Text",
            "decimalPlaces": 0,
            "hasContextTagMapping": false,
            "isCollection": false,
            "isInput": false,
            "isOutput": true,
            "name": "type",
            "type": "Variable"
        },
        {
            "dataType": "Numeric",
            "decimalPlaces": 0,
            "hasContextTagMapping": false,
            "isCollection": false,
            "isInput": false,
            "isOutput": true,
            "name": "discountValue",
            "type": "Variable"
        },
        {
```

```
                    "aggregateFunction": "Sum",
                    "dataType": "Tuple",
                    "decimalPlaces": 0,
                    "groupByContextTag": "cartLineProductId",
                    "hasContextTagMapping": true,
                    "isCollection": true,
                    "isInput": true,
                    "isOutput": true,
                    "name": "FilterProducts1",
                    "relatedFilterCriteriaName": "ProductFilter1",
                    "type": "Accumulate",
                    "value": "cartLineItemQuantity"
                },
                {
                    "dataType": "Text",
                    "decimalPlaces": 0,
                    "hasContextTagMapping": false,
                    "isCollection": false,
                    "isInput": false,
                    "isOutput": true,
                    "name": "discountAppliedAt",
                    "type": "Variable"
                }
            ],
            "sequenceNumber": 2
        }
    ],
    "relatedRuleLibrary": {
        "apiName": "GPMRuleLibrary",
        "description": "GPMRuleLibrary",
        "name": "GPMRuleLibrary_v1",
        "relatedContextDefinitionDeveloperName": "GPMContext"
    }
}
```


**Table 1: Promotion Configuration Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| apiExecutedDateTime | String | The date and time on which the API was executed. | Small, 61.0 | 61.0 |
| promotionDetails | Promotion Details [] | The details of the promotion. | Small, 61.0 | 61.0 |
| promotionLastModifiedDateTime | String | The date and time on which the promotion was last modified. | Small, 61.0 | 61.0 |
| promotionRuleList | Promotion Rule List [] | The rules of the promotion. The rules are represented as context rules in the response. | Small, 61.0 | 61.0 |
| relatedRuleLibrary | Rule Library [] | The rule library that's associated with the promotion. | Small, 61.0 | 61.0 |

**Table 2: Promotion Details Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `name` | String | The name of the promotion. | Small, 61.0 | 61.0 |
| `objective` | String | The objective of the promotion. | Small, 61.0 | 61.0 |
| `priorityNumber` | String | The priority number of the promotion. | Small, 61.0 | 61.0 |
| `startDateTime` | String | The date and time from when the promotion can be applied for customers. | Small, 61.0 | 61.0 |
| endDateTime | String | The date and time until the promotion can be applied for customers. | Small, 61.0 | 61.0 |
| description | String | The description of the promotion. | Small, 61.0 | 61.0 |
| additionalFieldValues | Additonal Attributes [] | The details of the promotion's additional fields. | Small, 61.0 | 61.0 |
| promotionCode | String | The code of the promotion. | Small, 61.0 | 61.0 |
| currencyIsoCode | String | Three-letter ISO 4217 code currency associated with the promotion. | Small, 61.0 | 61.0 |

**Table 3: Promotion Additional Attributes Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `attributes` | Map<String,String> | The additional attributes of the promotion. | Small, 61.0 | 61.0 |

**Table 4: Rule Library Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `name` | String | The name of the rule library associated with the promotion. | Small, 61.0 | 61.0 |
| `apiName` | String | The API name of the rule library associated with the promotion. | Small, 61.0 | 61.0 |
| `description` | String | The description of the rule library associated with the promotion. | Small, 61.0 | 61.0 |
| [illegible] | String | The developer name of the context definition associated with the promotion's rule library. | Small, 61.0 | 61.0 |

**Table 5: Promotion Rule Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `apiName` | String | The API name of the promotion rule. | Small, 61.0 | 61.0 |
| `description` | String | The description of the promotion rule. | Small, 61.0 | 61.0 |
| `hasNoQualificationCriteria` | Boolean | Indicates whether the promotion rule can be applied without any qualification criteria (`true`) or not (`false`). | Small, 65.0 | 65.0 |
| `isEligibilityRule` | Boolean | Indicates whether the rule is the promotion eligibility rule (`true`) or not (`false`). | Small, 61.0 | 61.0 |
| `isRuleForAllEligibleCategories` | Boolean | Indicates whether the rule applies to all eligible categories associated with the promotion (`true`) or not (`false`). | Small, 65.0 | 65.0 |
| `isRuleForAllEligibleProducts` | Boolean | Indicates whether the rule applies to all eligible products associated with the promotion (`true`) or not (`false`). | Small, 65.0 | 65.0 |
| `name` | String | The name of the promotion rule. A promotion consists of two types of rules. The eligibility rule decides which products, categories, stores, store groups, and customers are eligible for the promotion. The template rules decide which customer activities are eligible for the promotion and the rewards available for each eligible customer activity. | Small, 61.0 | 61.0 |
| `ruleActionList` | Rule Action List [] | The list of actions that belong to the rule. | Small, 61.0 | 61.0 |
| `ruleFilterCriteriaList` | Rule Filter Criteria List [] | The list of filter criteria that belong to the rule. | Small, 61.0 | 61.0 |
| `ruleParameterList` | Rule Parameter List [] | The list of parameters that belong to the rule. | Small, 61.0 | 61.0 |
| `sequenceNumber` | Integer | The sequence number of the rule in the promotion rules list. | Small, 61.0 | 61.0 |

**Table 6: Rule Filter Criteria Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `name` | String | The name of the promotion rule's filter criteria. | Small, 61.0 | 61.0 |
| `type` | String | The type of promotion rule filter criteria. | Small, 61.0 | 61.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| conditionLogic | String | The condition logic of the promotion rule's filter criteria. | Small, 61.0 | 61.0 |
| sequenceNumber | Integer | The sequence number of the promotion rule's filter criteria in the promotion rule. | Small, 61.0 | 61.0 |
| parentFilterCriteria | String | The parent filter criteria that the promotion rule filter criteria belongs to. | Small, 61.0 | 61.0 |
| ruleConditionList | Rule Condition List [] | The list of conditions that belong to the promotion rule filter criteria. | Small, 61.0 | 61.0 |
| ruleActionList | Rule Action List [] | The list of actions that belong to the promotion rule filter criteria. | Small, 61.0 | 61.0 |

**Table 7: Rule Condition Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| parameterName | String | The name of the parameter that's used to define the rule filter criteria condition. | Small, 61.0 | 61.0 |
| operator | String | The operator of the rule filter criteria condition. | Small, 61.0 | 61.0 |
| valueList | Map<String,String> | The value that the rule filter criteria checks the parameter against. | Small, 61.0 | 61.0 |
| valueType | String | The type of value. | Small, 61.0 | 61.0 |
| sequenceNumber | Integer | The sequence number of the rule filter criteria condition in the rule condition list. | Small, 61.0 | 61.0 |
| matchType | String | Specifies whether the condition qualifies as true when all the values in the value list match the condition's requirements or when any one of the values in the value list match the condition's requirements. | Small, 61.0 | 61.0 |

**Table 8: Rule Action Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| name | String | The name of the action associated with either a promotion rule or a promotion rule criteria. | Small, 61.0 | 61.0 |
| sequenceNumber | Integer | The sequence number of the action in either a promotion rule or a promotion rule criteria. | Small, 61.0 | 61.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| actionType | String | The type of promotion rule action. | Small, 61.0 | 61.0 |
| ruleActionParameterList | Rule Action Parameter List [] | The list of action parameters that belong to the rule or criteria action. | Small, 61.0 | 61.0 |

**Table 9: Rule Action Parameter Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| name | String | The name of the parameter associated with the promotion rule action. | Small, 61.0 | 61.0 |
| value | String | The value of the promotion rule action parameter. | Small, 61.0 | 61.0 |
| sequenceNumber | Integer | The sequence number of the promotion rule action parameter. | Small, 61.0 | 61.0 |
| valueType | String | The type of value. | Small, 61.0 | 61.0 |
| relatedFilterCriteriaName | String | The name of the rule filter criteria associated with the rule action parameter. | Small, 61.0 | 61.0 |

**Table 10: Rule Parameter Output**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| name | String | The name of the parameter associated with the rule. | Small, 61.0 | 61.0 |
| dataType | String | The data type of the rule parameter. | Small, 61.0 | 61.0 |
| type | String | The type of rule parameter. | Small, 61.0 | 61.0 |
| decimalPlaces | Integer | The number of decimal places supported by a numeric type rule parameter. | Small, 61.0 | 61.0 |
| value | String | The value of the rule parameter. | Small, 61.0 | 61.0 |
| isInput | Boolean | Indicates whether the parameter stores a value that's used to process the rule (true) or not (false). | Small, 61.0 | 61.0 |
| isOutput | Boolean | Indicates whether the parameter stores a value that's provided after the rule is processed (true) or not (false). | Small, 61.0 | 61.0 |
| isCollection | Boolean | Indicates whether the parameter stores a list of comma-separated values (true) or not (false). | Small, 61.0 | 61.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| contextTag | String | The context tag that is used in the rule parameter.The context tag belongs to the context definition associated with the promotion's rule library. | Small, 61.0 | 61.0 |
| hasContextTagMapping | Boolean | Indicates whether the context tag has a corresponding context tag mapping (true) or not (false).The context mapping is available in the active version of the rule library associated with the promotion. | Small, 61.0 | 61.0 |
| aggregateFunction | String | The aggregate function that's used in the rule parameter. | Small, 61.0 | 61.0 |
| groupByContextTag | String | The customer activity inputs are grouped by the context tag. | Small, 61.0 | 61.0 |
| relatedFilterCriteriaName | String | The name of the rule filter criteria associated with the rule parameter. | Small, 61.0 | 61.0 |

## Promotion Coupon Availability

Output representation of the promotion coupon availability.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| coupon | Promotion Coupon on page 508 | The details of the coupon that is eligible for the promotion. | Small, 60.0 | 60.0 |
| couponAvailablityMessage | Coupon Availablity Message on page 453 | Specifies reasons for coupon ineligibility for the promotion. | Small, 60.0 | 60.0 |

## Promotion Coupon

Output representation of the promotion coupon.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| couponCode | String | The unique code of the coupon. | Small, 60.0 | 60.0 |
| startDateTime | DateTime | The start date and time of the coupon. | Small, 60.0 | 60.0 |
| endDateTime | DateTime | The end date and time of the coupon. | Small, 60.0 | 60.0 |
| status | String | The status of the coupon. | Small, 60.0 | 60.0 |

## Promotion Details

Output representation of the details of an eligible promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `coupon` | Promotion Coupon Availability on page 508 | Provides the details of the coupon eligible for the recommended promotion or specifies the reason why there isn't an eligible coupon for the promotion. | Big, 64.0 | 64.0 |
| `currencyIsoCode` | String | Three-letter ISO 4217 code of the active monetary currency associated with the promotion. | Small, 60.0 | 60.0 |
| `description` | String | The description of the promotion. | Big, 64.0 | 64.0 |
| `displayName` | String | Name of the eligible promotion. | Small, 60.0 | 60.0 |
| `id` | String | The ID of the promotion. | Big, 64.0 | 64.0 |
| `productDetails` | Product Details on page 492 | The details of a product associated with the recommended promotion. | Big, 64.0 | 64.0 |
| `priority` | Integer | Number that determines the priority of the promotion in a list of eligible promotions.<br>Multiple promotions can have the same priority number. | Small, 60.0 | 60.0 |
| `imageUrl` | String | The URL of the image associated with the promotion. | Big, 64.0 | 64.0 |
| `isEnrolled` | Boolean | Indicates whether a customer has enrolled for the promotion. | Big, 64.0 | 64.0 |
| `isEnrollmentRequired` | Boolean | Indicates whether customers must enroll for the promotion. | Big, 64.0 | 64.0 |
| `name` | String | The name of the promotion. | Big, 64.0 | 64.0 |
| `promotionCode` | String | Code of the eligible promotion. | Small, 60.0 | 60.0 |
| `promotionPageUrl` | String | The URL of the promotion page. | Big, 64.0 | 64.0 |
| `startDateTime` | String | Start date and time of the promotion. | Big, 64.0 | 64.0 |
| `endDateTime` | String | End date and time of the promotion. | Big, 64.0 | 64.0 |
| `termsAndCondition` | String | The terms and condition of the promotion | Big, 64.0 | 64.0 |
| isAutomatic | Boolean | Indicates whether the promotion is automatically applied for eligible carts (true) or not (false). The default value is false | Small, 60.0 | 60.0 |

## Promotion Eligibility Output

Output representation of the promotion eligibility criteria.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| areAllLoyaltyMembersEligible | Boolean | Indicates whether all loyalty members are eligible (`true`) or not (`false`). | Small, 60.0 | 60.0 |
| eligibleCampaign | String | A campaign whose members are eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleChannels | Promotion Eligible Channel Output [] | Channels that are eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleCustomerEvents | Events Detail Output | Customer events that are eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleEnrollmentPeriod | Promotion Eligible Enrollment Period Output | Dates within which customers can enroll for the promotion. | Small, 60.0 | 60.0 |
| eligibleLoyaltyPartnerProducts | Name And Id Output [] | List of loyalty partner products that are eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleLoyaltyTiers | Eligible Loyalty Tiers Output [] | Loyalty tiers eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleProductCategories | Name And Id Output [] | Product categories eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleProducts | Name And Id Output [] | Products eligible for the promotion. | Small, 60.0 | 60.0 |
| eligibleSegments | Name And Id Output [] | Segments eligible for the promotion. | Small, 60.0 | 60.0 |
| productCatalog | String | Product catalog eligible for the promotion. | Small, 60.0 | 60.0 |

## Promotion Eligible Channel Output

Output representation of the eligible channel for a promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| channel | Name And Id Output [] | ID or name of the channel eligible for the promotion. Possible names for the online channel type are:<br>• `App`<br>• `Mobile`<br>• `Web` | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| | | Possible names for the social channel type are:<br>• `Facebook`<br>• `Instagram`<br>• `Twitter`<br>• `WhatsApp` | | |
| `channelType` | String | Type of the channel eligible for the promotion. Possible values are:<br>• `Offline`<br>• `Online`<br>• `Social` | Small, 60.0 | 60.0 |
| `retailLocationGroup` | Name And Id Output [] | ID or name of the retail location group eligible for the promotion.<br>This field is applicable only for the offline channel type. | Small, 60.0 | 60.0 |
| `store` | Name And Id Output [] | ID or name of the retail store eligible for the promotion.<br>This field is applicable only for the offline channel type. | Small, 60.0 | 60.0 |

## Promotion Eligible Enrollment Period Output

Output representation of the enrollment eligibility details of a promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `enrollmentEndDate` | String | Date until which customers can enroll for the promotion. | Small, 60.0 | 60.0 |
| `enrollmentStartDate` | String | Date from which customers can enroll for the promotion. | Small, 60.0 | 60.0 |
| `isEnrollmentRequired` | Boolean | Indicates whether customers must enroll for the promotion (`true`) or not (`false`). | Small, 60.0 | 60.0 |

## Promotion Details

Output representation of the details of an eligible promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `coupon` | Promotion Coupon Availability on page 508 | Provides the details of the coupon eligible for the recommended promotion or specifies the reason why there isn't an eligible coupon for the promotion. | Big, 64.0 | 64.0 |
| `currency IsoCode` | String | Three-letter ISO 4217 code of the active monetary currency associated with the promotion. | Small, 60.0 | 60.0 |
| `description` | String | The description of the promotion. | Big, 64.0 | 64.0 |
| `displayName` | String | Name of the eligible promotion. | Small, 60.0 | 60.0 |
| `id` | String | The ID of the promotion. | Big, 64.0 | 64.0 |
| `product Details` | Product Details on page 492 | The details of a product associated with the recommended promotion. | Big, 64.0 | 64.0 |
| `priority` | Integer | Number that determines the priority of the promotion in a list of eligible promotions.<br>Multiple promotions can have the same priority number. | Small, 60.0 | 60.0 |
| `imageUrl` | String | The URL of the image associated with the promotion. | Big, 64.0 | 64.0 |
| `isEnrolled` | Boolean | Indicates whether a customer has enrolled for the promotion. | Big, 64.0 | 64.0 |
| `isEnrollment Required` | Boolean | Indicates whether customers must enroll for the promotion. | Big, 64.0 | 64.0 |
| `name` | String | The name of the promotion. | Big, 64.0 | 64.0 |
| `promotionCode` | String | Code of the eligible promotion. | Small, 60.0 | 60.0 |
| `promotion PageUrl` | String | The URL of the promotion page. | Big, 64.0 | 64.0 |
| `startDateTime` | String | Start date and time of the promotion. | Big, 64.0 | 64.0 |
| `endDateTime` | String | End date and time of the promotion. | Big, 64.0 | 64.0 |
| `termsAnd Condition` | String | The terms and condition of the promotion | Big, 64.0 | 64.0 |
| isAutomatic | Boolean | Indicates whether the promotion is automatically applied for eligible carts (true) or not (false). The default value is false | Small, 60.0 | 60.0 |

## Promotion Limit

Output representation of the promotion limit of an eligible promotion.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| limitCurrentAttainment | Double | Value of the promotion's limit that has been attained so far. | Small, 60.0 | 60.0 |
| limitTarget | Double | Value beyond which the promotion can't be applied for customer carts. | Small, 60.0 | 60.0 |
| limitType | String | Type of the promotion limit. Possible values are:<br>• CartItemCount—Maximum number of cart items the promotion applies to. This value maps to **Per Line Item** in Salesforce Lightning.<br>• OrderCount—Maximum number of carts the promotion applies to. This value maps to **Per Cart** in Salesforce Lightning. | Small, 60.0 | 60.0 |

## Promotion Limit Output

Output representation of promotion limits.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| liabilityLimit | Double | Maximum financial liability the promotion can incur. | Small, 60.0 | 60.0 |
| liabilityPerCustomerLimit | Double | Maximum financial liability the promotion can incur for a customer. | Small, 60.0 | 60.0 |
| loyaltyProgramCurrency | String | Active loyalty program currency associated with the loyalty points. | Small, 60.0 | 60.0 |
| perCartLimit | Integer | Maximum number of carts that the promotion can be applied for. | Small, 60.0 | 60.0 |
| perLineItemLimit | Integer | Maximum number of cart items that the promotion can be applied for. | Small, 60.0 | 60.0 |
| pointsLimit | Double | Maximum number of points the promotion can credit. | Small, 60.0 | 60.0 |
| pointsPerCustomerLimit | Integer | Maximum number of points the promotion can credit to a customer. | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| usePerCustomerLimit | Integer | Maximum number of times the promotion can be applied for a customer. | Small, 60.0 | 60.0 |
| vouchersLimit | Integer | Maximum number of vouchers the promotion can issue. | Small, 60.0 | 60.0 |
| vouchersPerCustomerLimit | Integer | Maximum number of vouchers the promotion can issue to a customer. | Small, 60.0 | 60.0 |

## Promotion

Output representation of the promotion with rule configuration.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| promotionConfigurationWarnings | String[] | List of warnings due to which the promotion wasn't created. | Small, 65.0 | 65.0 |
| promotionDetails | Unified Promotions Output[] | Details of promotion that's created or updated. | Small, 64.0 | 64.0 |
| rules | Template Configuration[] | List of template configuration. | Small, 64.0 | 64.0 |

## Promotion Recommendations

The count and list of promotions recommended for the member or customer.

**JSON Example**

```
{
  "recommendationCount": 0,
  "personalizationId": "string",
  "recommendationList": [
    {
      "rank": 0,
      "promotionDetails": {
        "id": "string",
        "promotionCode": "string",
        "name": "string",
        "description": "string",
        "displayName": "string",
        "productDetails": {
          "personalizationContentId": "string",
          "name": "string",
          "id": "string",
          "sku": "string",
          "productImageUrl": "string"
        },
```

```
        "priority": 0,
        "currencyIsoCode": "string",
        "coupon": {
          "couponAvailabilityMessage": "string",
          "couponDetails": {
            "couponCode": "string",
            "startDateTime": "2025-03-06",
            "endDateTime": "2025-03-06",
            "status": "string"
          }
        },
        "isAutomatic": true,
        "startDateTime": "2025-03-06",
        "endDateTime": "2025-03-06",
        "promotionPageUrl": "string",
        "imageUrl": "string",
        "isEnrollmentRequired": true,
        "isEnrolled": true,
        "termsAndCondition": "string"
      }
    }
  ],
  "loyaltyProgramName": "string",
  "membershipNumber": "string",
  "loyaltyProgramMemberId": "string"
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `loyaltyProgramMemberId` | String | Enter the Loyalty Program member ID. | Big, 64.0 | 64.0 |
| `loyaltyProgramName` | String | Enter the name of the loyalty program. | Big, 64.0 | 64.0 |
| `membershipNumber` | String | Enter the membership number. | Big, 64.0 | 64.0 |
| `personalizationId` | String | Enter the response ID of the product recommendations. | Big, 64.0 | 64.0 |
| `recommendationCount` | Integer | Enter the number of promotion recommendations provided. | Big, 64.0 | 64.0 |
| `recommendationList` | Recommendation Details on page 517 | Enter the list of recommended promotions. | Big, 64.0 | 64.0 |

## Promotion Reward Application

Output representation details of the transaction journals that are created and processed.

**JSON example**

This example shows a sample response.

```
{
  "transactionJournalList": [
    {
      "discountsAppliedList": [
        {
          "discountAmount": 15
        }
      ],
      "gamesAssignedList": [
        {
          "gameDefinitionName": "SpintheWheelGame",
          "gameExpirationDate": "2025-10-10T00:00:00.000Z",
          "gameParticipantRewardId": "3PRSB0000004LFZ"
        }
      ],
      "id": "0lVSB00000E76ev",
      "voucherIssuedList": [
        {
          "effectiveDate": "2025-10-09T00:00:00.000Z",
          "expirationDate": "2025-10-10T00:00:00.000Z",
          "faceValue": 100,
          "promotionId": "0c8SB000000HASn",
          "voucherCode": "SALE-4F8G-RT2P",
          "voucherDefinitionName": "$100 off",
          "voucherId": "0kDSB0000000LNp"
        }
      ]
    }
  ]
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| transactionJournalList | Transaction Journal Details[] | List of the transaction journals that are processed and created. | Big, 65.0 | 65.0 |

## Promotion Reward Details

Output representation of the details of the reward offered by an eligible promotion rule.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| rewardDetails | Map<String, Object> | Details of the reward offered by the promotion rule. | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `rewardType` | String | Type of the reward offered by the promotion rule. Possible values are:<br>• `AssignBadge`—Assigns a badge to the loyalty program member.<br>• `AssignGame`—Enrolls the customer in a game, playing which the customer can win rewards.<br>• `CreditFixedPoints`—Credits a fixed number of loyalty points to the loyalty program member.<br>• `CreditMultiplierPoints`—Credits loyalty points that are based on the multiplier and transaction journal fields to the loyalty program member.<br>• `GiveFreeProduct`—provides the customer a free product on the cart or cart items.<br>• `IssueVoucher`—Issues a voucher to the customer.<br>• `ProvideDiscount`—Provides the customer a discount on the cart or cart items. | Small, 60.0 | 60.0 |

## Promotion Rules List

Output representation of an eligible promotion rule.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `ruleName` | String | Name of the eligible promotion rule. | Small, 60.0 | 60.0 |
| `ruleRewards` | Promotion Reward Details [] | Rewards associated with the eligible rule. | Small, 60.0 | 60.0 |

## Recommendation Details

The rank and details of the recommended promotions.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `promotion Details` | Promotion Details on page 511 | The details of the recommended promotions. | Big, 64.0 | 64.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `rank` | Integer | The priority sequence of how the recommended promotions are displayed. | Big, 64.0 | 64.0 |

## Redeem Voucher Output

Represents the response for the redeem voucher POST method.

**Sample Response: Reserve**

```
{
  "reservationKey": "key1",
  "reservedValue": 16.34,
  "status": "Reserved"
  "currencyIsoCode": "EUR"
}
```

**Sample Response: Reinstate - Reserved to Issued**

```
{
  "remainingAmount": 98.32,
  "status": "Issued"
}
```

**Sample Response: Reinstate - Reserved to Expired**

```
{
  "status": "Expired"
}
```

**Sample Response: Redeem**

```
{
  "remainingAmount": 98.32,
  "status": "Redeemed",
  "currencyIsoCode": "EUR"
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `remainingAmount` | Double | The voucher value after redemption.<br>Note: If the complete value of the voucher is redeemed, the remaining amount is zero. | Small, 53.0 | 53.0 |
| currencyIsoCode | String | The ISO code of the currency. | Small, 53.0 | 53.0 |
| status | VoucherStatus (Enum) | Specifies the status of the voucher. | Small, 62.0 | 62.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| reservationKey | String | Specifies the key used to redeem or reinstate a reserved voucher. | Small, 62.0 | 62.0 |
| reservedValue | Currency | Specifies the amount reserved for partially redeemable vouchers. | Small, 62.0 | 62.0 |

## Summary

Output representation of the execution summary of the transaction journals.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `pointsSummary` | Points Summary[] | A summary of points that are debited from or credited to the points balance or the escrow points balance of the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |
| `vouchersIssuedCount` | Integer | The number of vouchers that are issued to the loyalty program member associated with the transaction journal. | Small, 55.0 | 55.0 |

## Template Configuration

Output representation of the template configuration.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `eventConfiguration` | List<Map<String, Object>> | Criteria that decides when customers are eligible for the rewards of the promotion rule. | Small, 60.0 | 60.0 |
| `journalSubType` | String | Journal sub-type of the rule in the promotion. | Small, 60.0 | 60.0 |
| `journalSubTypeName` | String | Journal sub-type name of the rule in the promotion. | Small, 64.0 | 64.0 |
| `journalType` | String | Journal type of the rule in the promotion. | Small, 60.0 | 60.0 |
| `priority` | Integer | Priority number of the rule in the promotion. | Small, 60.0 | 60.0 |
| `rewardConfiguration` | List<Map<String, Object>> | Rewards that members get when their activity is meet rule's eligibility criteria. | Small, 60.0 | 60.0 |
| `ruleName` | String | Name of the promotion rule. | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `templateName` | String | Name of the unified promotion template that's used in a promotion rule. | Small, 60.0 | 60.0 |

## Transaction Journal Details

The details of the transaction journal that's created.

**JSON example**

This example shows a sample response.

```
{
  "discountsAppliedList": [
    {
      "discountType": "ProvideDiscount",
      "discountAmount": 15
    }
  ],
  "gamesAssignedList": [
    {
      "gameDefinitionName": "SpintheWheelGame",
      "gameExpirationDate": "2025-10-10T00:00:00.000Z",
      "gameParticipantRewardId": "3PRSB0000004LFZ"
    }
  ],
  "id": "0lVSB00000E76ev",
  "voucherIssuedList": [
    {
      "discountPercent":10,
      "effectiveDate": "2025-10-09T00:00:00.000Z",
      "expirationDate": "2025-10-10T00:00:00.000Z",
      "faceValue": 100,
      "productId":"01txx0000006iTsAAI",
      "promotionId": "0c8SB000000HASn",
      "voucherCode": "SALE-4F8G-RT2P",
      "voucherDefinitionName": "$100 off",
      "voucherId": "0kDSB0000000LNp"
    }
  ]
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `discountsAppliedList` | Discount Details[] | List of discounts applied to the cart for customers. | Big, 65.0 | 65.0 |
| `gamesAssignedList` | Game Details[] | List of games assigned to the customers. | Big, 65.0 | 65.0 |
| `id` | String | The ID of the transaction journal that is created. | Big, 65.0 | 65.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| voucherIssuedList | Voucher Details[] | List of vouchers issued to the customers. | Big, 65.0 | 65.0 |

## Transaction Details Output

Output representation of the transaction journal ledger records.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| activityDate | String | The activity date of the transaction journal. | Small, 58.0 | 58.0 |
| externalTransactionNumber | String | The unique transaction number from an external system. | Small, 58.0 | 58.0 |
| journalSubTypeName | String | The name of the journal subtype associated with the transaction journal record. | Small, 58.0 | 58.0 |
| journalTypeName | String | The name of the journal type associated with the transaction journal record. | Small, 58.0 | 58.0 |
| pointsChange | Points Change Output | The details of the points debited from or credited to the member's points balance by the transaction journal. | Small, 58.0 | 58.0 |
| productCategoryName | String | The name of the product category associated with the transaction journal. | Small, 58.0 | 58.0 |
| productName | String | The name of the product associated with the transaction journal. | Small, 58.0 | 58.0 |
| transactionAmount | String | The amount that the member spent on the transaction journal. | Small, 58.0 | 58.0 |
| transactionJournalId | String | The ID of the transaction journal record. | Small, 58.0 | 58.0 |
| transactionJournalNumber | String | The unique number of the transaction journal record. | Small, 58.0 | 58.0 |

## Transaction Journal Output

Output representation of the transaction journals.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| activityDate | String | The date and time of when transaction journal is created. | Small, 55.0 | 55.0 |
| journalSubType | String | The journal subtype of the transaction journal. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| journalType | String | The journal type of the transaction journal. | Small, 55.0 | 55.0 |
| loyaltyProgram | String | The loyalty program related with the transaction journal. | Small, 55.0 | 55.0 |
| loyaltyProgramMember | String | The membership number of the loyalty program related to the transaction journal. | Small, 55.0 | 55.0 |
| referredMember | String | The membership number of the loyalty program member who has been referred by the member. | Small, 55.0 | 55.0 |
| status | String | The status of the transaction journal. | Small, 55.0 | 55.0 |
| transactionJournalId | String | The ID of the transaction journal that is created. | Small, 55.0 | 55.0 |

## Transaction Journal Map Output

Output representation of the loyalty program process simulation result.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| transactionJournals | Transaction Journal Result[] | Represents the transaction journals on which the simulation was performed. | Small, 55.0 | 55.0 |

## Transaction Journal Result

Output representation of the transaction journals result.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| errorMessage | String | Specifies the error message if the process has no rules or if no process qualifies for the transaction journal. | Small, 55.0 | 55.0 |
| executionSummary | Summary | Represents the execution summary of the transaction journals. | Small, 55.0 | 55.0 |
| processId | String | The ID of the loyalty program process used to process the transaction journals. | Small, 55.0 | 55.0 |
| processName | String | The name of the loyalty program process used to process the transaction journals. | Small, 55.0 | 55.0 |
| processRules | Loyalty Program Process Rule[] | The list of rules defined in the loyalty program process used to process the transaction journals. | Small, 55.0 | 55.0 |

## Transaction Journal Process Result

Output representation of the Transaction Journal result.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| badgesAssigned | Badge Output[] | List of badges that are assigned to the member. | Small, 60.0 | 60.0 |
| changeInMemberPoints | Member Points Balance Change[] | Details of points that are credited to or debited from the member's points balance and escrow points balance for all the currencies associated with the member. | Small, 54.0 | 54.0 |
| gamesAssigned | Game Assignment Output[] | List of games that are assigned to the member. | Small, 60.0 | 60.0 |
| id | String | Details of the Transaction Journal records that are created. | Small, 54.0 | 54.0 |
| voucherResult | Voucher Result | List of vouchers that are issued or redeemed. | Small, 54.0 | 54.0 |

## Transaction Ledgers Output

Output representation of the transaction journals and the ledgers associated with the specified loyalty program member.

**Sample Response**

```
{
    "message": null,
    "status": true,
    "transactionJournalCount": 2,
    "externalTransactionNumber" : "123123"
    "transactionJournals": [
        {
            "activityDate": "2023-03-01T08:00:00.000Z",
            "additionalAttributes": [
                {
                    "fieldName": "additionalInfo__c",
                    "value": "null"
                },
                {
                    "fieldName": "Destination",
                    "value": "null"
                }
            ],
            "journalSubTypeName": "Product Buy",
            "journalTypeName": "Accrual",
            "pointsChange": [],
            "transactionJournalId": "0lVxx00000002rREAQ"
        },
        {
            "activityDate": "2023-02-01T20:00:00.000Z",
```

```
            "additionalAttributes": [
                {
                    "fieldName": "additionalInfo__c",
                    "value": "test123"
                },
                {
                    "fieldName": "Destination",
                    "value": "Jaipur"
                }
            ],
            "journalSubTypeName": "Member Enrollment",
            "journalTypeName": "Accrual",
            "pointsChange": [
                {
                    "changeInPoints": "-100.0",
                    "loyaltyMemberCurrency": "Tier Points"
                },
                {
                    "changeInPoints": "90.0",
                    "loyaltyMemberCurrency": "Reward Points"
                }
            ],
            "productCategoryName": "Gift",
            "productName": "New Member Gift Package",
            "transactionAmount": "1000.0",
            "transactionJournalId": "0lVxx00000000HlEAI"
        }
    ]
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | The request response message. | Small, 58.0 | 58.0 |
| `status` | Boolean | Indicates whether the request was successful (`true`) or not (`false`). | Small, 58.0 | 58.0 |
| `transactionJournalCount` | Integer | The number of transaction journal records created for the member. | Small, 58.0 | 58.0 |
| `transactionJournals` | Transaction Details Output | The details of the transaction journals. | Small, 58.0 | 58.0 |

## Update Cumulative Usage Action Output

Output representation of the update cumulative usage action type.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `actionType` | String | The type of action in the loyalty program process rule. | Small, 55.0 | 55.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| promotion | String | The name of promotion for which the member's cumulative usage is updated or reset. | Small, 55.0 | 55.0 |
| promotionId | String | The ID of the promotion for which the member's cumulative usage is updated or reset. | Small, 55.0 | 55.0 |
| stepName | String | The name of the step in the loyalty program process rule. | Small, 55.0 | 55.0 |
| updatedCumulativePromotionUsage | Integer | The updated value of the loyalty program member's usage towards the cumulative promotion. | Small, 55.0 | 55.0 |

## Unified Promotions

Output representation of the promotion details.

**JSON example**

```
{
   "additionalFieldValues":{
      "attributes":{
         "isUnifiedPromotion__c":"true"
      }
   },
   "description":"Buy 2 Get 1 free",
   "displayName":"Sample Promotion",
   "endDateTime":"2023-12-30T00:00:00.000Z",
   "id":"0c8SB0000000rCPYAY",
   "loyaltyProgram":{
      "id":"0lpSB00000001If",
      "name":"Program-001"
   },
   "name":"Free Beverage",
   "objective":"To increase sales",
   "priorityNumber":1,
   "promotionEligibility":{
      "eligibleChannels":[
         {
            "channelType":"Offline",
            "retailLocationGroup":{
               "id":"0Y2SB000000004r",
               "name":"test"
            },
            "store":{
               "id":"0YQSB000000006T",
               "name":"test Store"
            }
         }
```

```
      ],
      "eligibleCustomerEvents":{
         "event":"MemberBirthday",
         "eventPeriodUnit":"Date"
      },
      "eligibleEnrollmentPeriod":{
         "enrollmentEndDate":"2023-12-30T00:00:00.000Z",
         "enrollmentStartDate":"2023-06-30T00:00:00.000Z",
         "isEnrollmentRequired":true
      },
      "eligibleLoyaltyTiers":[
         {
            "tier":{
               "id":"0lgSB00000000srYAA",
               "name":"Silver"
            },
            "tierGroup":{
               "id":"0ltSB00000000T3YAI",
               "name":"Group-001"
            }
         }
      ],
      "eligibleProductCategories":[
         {
            "id":"0ZGSB0000002td7",
            "name":"Beverages"
         }
      ],
      "eligibleProducts":[
         {
            "id":"01tSB0000008Lth",
            "name":"Coke"
         }
      ]
   },
   "promotionLimits":{
      "liabilityLimit":10000,
      "loyaltyProgramCurrency":{
         "id":"NQP",
         "name":"0lcSB00000001Tx"
      },
      "perCartLimit":5,
      "perLineItemLimit":10,
      "pointsPerCustomerLimit":5,
      "usePerCustomerLimit":5,
      "vouchersLimit":100,
      "vouchersPerCustomerLimit":5
   },
   "startDateTime":"2023-06-30T00:00:00.000Z"
}
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| additionalFieldValues | Additional Attributes Output | Additional details of the promotion. | Small, 60.0 | 60.0 |
| businessUnit | Name And Id Output [] | ID or name of the Marketing Cloud business unit associated with the promotion. | Small, 60.0 | 60.0 |
| currencyIsoCode | String | ISO code of the active currency associated with the promotion. | Small, 60.0 | 60.0 |
| description | String | Description of the promotion. | Small, 60.0 | 60.0 |
| displayName | String | Display name of the promotion. | Small, 60.0 | 60.0 |
| endDateTime | String | Date and time until which the promotion can be applied for customers. | Small, 60.0 | 60.0 |
| id | String | ID of the promotion. | Small, 60.0 | 60.0 |
| isAutomatic | Boolean | Indicates whether the promotion is automatically applied for eligible carts (`true`) or not (`false`). | Small, 63.0 | 63.0 |
| isEmailActivated | Boolean | Indicates whether the promotion's email has been activated (`true`) or not (`false`). | Small, 60.0 | Small, 60.0 |
| loyaltyProgram | String | Loyalty program associated with the promotion. | Small, 60.0 | 60.0 |
| name | String | Unique name of the promotion. | Small, 60.0 | 60.0 |
| objective | String | Objective of the promotion. | Small, 60.0 | 60.0 |
| priorityNumber | Integer | Number that determines the priority of the promotion in a list of eligible promotions. | Small, 60.0 | 60.0 |
| promotionCode | String | Promotion code of the promotion. | Small, 60.0 | 60.0 |
| promotionEligibility | Promotion Eligibility Output | Eligibility criteria of the promotion. | Small, 60.0 | 60.0 |
| promotionLimits | Promotion Limit Output | Limits for the promotion. | Small, 60.0 | 60.0 |
| ruleLibrary | String | Rule library associated with the promotion. | Small, 62.0 | 62.0 |
| startDateTime | String | Start date and time of the promotion | Small, 60.0 | 60.0 |
| termsAndConditions | String | Terms and conditions which are applied to the promotion. | Small, 63.0 | 63.0 |

## Voucher

Output representation of the details of a voucher.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| currencyIsoCode | String | The currency ISO code in which the member has redeemed the voucher. | Small, 58.0 | 58.0 |
| description | String | The description of the voucher issued to the member. | Small, 58.0 | 58.0 |
| discountPercent | Integer | The discount percentage that's offered to the member by the voucher. | Small, 58.0 | 58.0 |
| effectiveDate | String | The date the member can redeem the voucher. | Small, 58.0 | 58.0 |
| effectiveDateTime | DateTime | The date and time from when the voucher is available for redemption. | Small, 62.0 | 62.0 |
| expirationDate | String | The date the voucher expires. | Small, 58.0 | 58.0 |
| expirationDateTime | DateTime | The date and time when the voucher expires and is no longer available for redemption. | Small, 62.0 | 62.0 |
| faceValue | Double | The value that the member can redeem using the voucher. | Small, 58.0 | 58.0 |
| isVoucherDefinitionActive | Boolean | Indicates whether the voucher definition associated with the voucher is active (`true`) or not (`false`). | Small, 58.0 | 58.0 |
| isVoucherPartiallyRedeemable | Boolean | Indicates whether the voucher can be redeemed across multiple transactions (`true`) or only one transaction (`false`). | Small, 58.0 | 58.0 |
| hasTimeBasedVoucher | Boolean | Indicates whether the voucher has an effective date and time (true) or not (false). | Small, 62.0 | 62.0 |
| partnerAccountName | String | The name of the partner associated with the voucher's voucher definition. | Small, 58.0 | 58.0 |
| productCategoryId | String | The ID of product category associated with the voucher's voucher definition. | Small, 58.0 | 58.0 |
| productCategoryName | String | The name of the product category associated with the voucher definition. | Small, 58.0 | 58.0 |
| productId | String | The ID of the product associated with the voucher definition. | Small, 58.0 | 58.0 |
| productName | String | The name of the product associated with the voucher definition. | Small, 58.0 | 58.0 |
| promotionId | String | The ID of the promotion for which the voucher is issued. | Small, 58.0 | 58.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| promotionName | String | The name of the promotion for which the voucher is issued. | Small, 58.0 | 58.0 |
| redeemedValue | Double | The value that the member has already redeemed from a partially redeemable voucher. | Small, 58.0 | 58.0 |
| remainingValue | Double | The remaining value of the voucher after partial redemption. | Small, 58.0 | 58.0 |
| status | String | The status of the voucher. | Small, 58.0 | 58.0 |
| type | String | The type of voucher issued to the member. | Small, 58.0 | 58.0 |
| useDate | String | The date the voucher was redeemed. | Small, 58.0 | 58.0 |
| voucherCode | String | The code of the voucher. | Small, 58.0 | 58.0 |
| voucherDefinition | String | The name of the voucher definition used to issue the voucher to the member. | Small, 58.0 | 58.0 |
| voucherId | String | The ID of the voucher record. | Small, 58.0 | 58.0 |
| voucherImageUrl | String | The URL of the image associated with the voucher definition. | Small, 58.0 | 58.0 |
| voucherNumber | String | The unique number of the voucher. | Small, 58.0 | 58.0 |

## Voucher Details

The details of the voucher that's issued to the customer.

**JSON example**

This example shows a sample response.

```
"voucherIssuedList": [
  {
    "discountPercent":10,
    "effectiveDate": "2025-10-09T00:00:00.000Z",
    "expirationDate": "2025-10-10T00:00:00.000Z",
    "faceValue": 100,
    "productId":"01txx0000006iTsAAI",
    "promotionId": "0c8SB000000HASn",
    "voucherCode": "SALE-4F8G-RT2P",
    "voucherDefinitionName": "$100 off",
    "voucherId": "0kDSB0000000LNp"
  }
]
```

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| discountPercent | Integer | Discount percentage associated with the voucher. | Big, 65.0 | 65.0 |
| effectiveDate | String | Date when the voucher goes into effect. | Big, 65.0 | 65.0 |
| expirationDate | String | Date on which the voucher expires. | Big, 65.0 | 65.0 |
| faceValue | Double | Value of the voucher. | Big, 65.0 | 65.0 |
| productId | String | The ID of the product in the voucher issued. | Big, 65.0 | 65.0 |
| promotionId | String | The ID of the promotion associated with the voucher. | Big, 65.0 | 65.0 |
| voucherCode | String | Code of the voucher issued. | Big, 65.0 | 65.0 |
| voucherDefinitionName | String | Name of the voucher definition. | Big, 65.0 | 65.0 |
| voucherId | String | The ID of the voucher issued. | Big, 65.0 | 65.0 |

## Vouchers List

Output representation of the list of vouchers associated with the loyalty program member.

**JSON example**

```
{
  "voucherCount": 6,
  "vouchers": [
    {
      "effectiveDate": "2020-11-01",
      "effectiveDateTime":"2020-11-01T07:47:44.000Z",
      "expirationDate": "2021-11-01",
      "expirationDateTime":"2021-11-01T07:33:00.000Z",
      "faceValue": 100,
      "isVoucherDefinitionActive": true,
      "isVoucherPartiallyRedeemable": false,
      "hasTimeBasedVoucherPeriod": true,
      "redeemedValue": 0,
      "remainingValue": 100,
      "status": "Expired",
      "type": "FixedValue",
      "voucherCode": "J4XN26MT",
      "voucherDefinition": "Ajio",
      "voucherId": "0kDT1000000TUwsMAG",
      "voucherNumber": "00005852"
    },
    {
      "effectiveDate": "2020-11-01",
      "expirationDate": "2021-11-01",
      "faceValue": 100,
      "isVoucherDefinitionActive": true,
      "isVoucherPartiallyRedeemable": false,
```

```
    "hasTimeBasedVoucherPeriod": false,
    "redeemedValue": 0,
    "remainingValue": 100,
    "status": "Expired",
    "type": "FixedValue",
    "voucherCode": "6PM01LT8",
    "voucherDefinition": "Ajio",
    "voucherId": "0kDT1000000TUjEMAW",
    "voucherNumber": "00005006"
  },
  {
    "effectiveDate": "2020-11-01",
    "expirationDate": "2021-11-01",
    "faceValue": 100,
    "isVoucherDefinitionActive": true,
    "isVoucherPartiallyRedeemable": false,
    "hasTimeBasedVoucherPeriod": false,
    "redeemedValue": 0,
    "remainingValue": 100,
    "status": "Expired",
    "type": "FixedValue",
    "voucherCode": "LEEFAQGE",
    "voucherDefinition": "Ajio",
    "voucherId": "0kDT1000000TUQcMAO",
    "voucherNumber": "00003852"
  },
  {
    "effectiveDate": "2020-11-01",
    "expirationDate": "2021-11-01",
    "faceValue": 100,
    "isVoucherDefinitionActive": true,
    "isVoucherPartiallyRedeemable": false,
    "hasTimeBasedVoucherPeriod": false,
    "redeemedValue": 0,
    "remainingValue": 100,
    "status": "Expired",
    "type": "FixedValue",
    "voucherCode": "9WOYZK2G",
    "voucherDefinition": "Ajio",
    "voucherId": "0kDT1000000TUCyMAO",
    "voucherNumber": "00003006"
  },
  {
    "effectiveDate": "2020-11-01",
    "expirationDate": "2021-11-01",
    "faceValue": 100,
    "isVoucherDefinitionActive": true,
    "isVoucherPartiallyRedeemable": false,
    "hasTimeBasedVoucherPeriod": false,
    "redeemedValue": 0,
    "remainingValue": 100,
    "status": "Expired",
    "type": "FixedValue",
    "voucherCode": "6PLO64G1",
```

```
      "voucherDefinition": "Ajio",
      "voucherId": "0kDT1000000TU6yMAG",
      "voucherNumber": "00002634"
    },
    {
      "effectiveDate": "2020-11-01",
      "expirationDate": "2021-11-01",
      "faceValue": 100,
      "isVoucherDefinitionActive": true,
      "isVoucherPartiallyRedeemable": false,
      "hasTimeBasedVoucherPeriod": false,
      "redeemedValue": 0,
      "remainingValue": 100,
      "status": "Expired",
      "type": "FixedValue",
      "voucherCode": "K54Y02BK",
      "voucherDefinition": "Ajio",
      "voucherId": "0kDT1000000TTuKMAW",
      "voucherNumber": "00001850"
    }
  ]
}
```


| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `voucherCount` | Integer | The number of vouchers returned by the API request. | Small, 58.0 | 58.0 |
| `vouchers` | Voucher | The details of the vouchers. | Small, 58.0 | 58.0 |

## Voucher Result

Output representation of the voucher result.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `vouchersIssued` | Voucher Output[] | List of the vouchers that are issued to the associated loyalty program member.<br>Note: This output is provided when the process contains an Issue Voucher action. | Small, 54.0 | 54.0 |

## Voucher Output

Output representation of the details about a voucher.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `discountPercent` | Integer | The discount percentage associated with the voucher. | Small, 54.0 | 54.0 |
| `effectiveDate` | String | The date the voucher goes into effect. | Small, 54.0 | 54.0 |
| `expirationDate` | String | The date the voucher expires. | Small, 54.0 | 54.0 |
| `faceValue` | Double | The value of the voucher. | Small, 54.0 | 54.0 |
| `productId` | String | The ID of the product in the voucher issued. | Small, 54.0 | 54.0 |
| `promotionId` | String | The ID of the promotion associated with the voucher. | Small, 54.0 | 54.0 |
| `voucherCode` | String | The voucher code. | Small, 54.0 | 54.0 |
| `voucherId` | String | The ID of the voucher issued. | Small, 54.0 | 54.0 |

# Loyalty Management Connect API Interchangeable Request Fields

The Loyalty Management Business API supports interchangeable fields in JSON requests. For some of the request fields, you can use either an ID, number, or name. For example, if you don't want to store and use Salesforce IDs when accessing Loyalty Management-related data from an external system, simply use names and numbers instead.

Here's a list of Loyalty Management object fields that are interchangeable with alternative field names.

| Field Name | Alternative Field Name |
|---|---|
| `MemberId` | `MembershipNumber` |
| `VoucherId` | `VoucherCode` or `VoucherNumber`<br>Ensure that the voucher code is unique among all active vouchers. |
| `LoyaltyProgramId` | `LoyaltyProgramName` |
| `JournalTypeId` | `JournalTypeName` |
| `JournalSubTypeId` | `JournalSubTypeName` |
| `PromotionId` | `PromotionName`<br>Ensure that the promotion name is unique among all active promotions. |
| `ProductId` | `ProductCode` or `ProductName`<br>Ensure that the product name or code is unique among all active products. |

| Field Name | Alternative Field Name |
| --- | --- |
| `ProductCategoryId` | `ProductCategoryName`<br>Ensure that the product name or code is unique among all active products. |
| `PartnerId` | `PartnerName` |

**JSON example with IDs**

```
{
   "MemberId":"0lMT10000004CfA",
   "JournalTypeId":"0lET10000004CQp",
   "JournalSubTypeId":"0pQS10000005CQm",
   "VoucherId":"0kdxx000000000B245",
   "ProductId":"0lVxx00000000cj",
   "ProductCategoryId":"0c8RM0000004DnXYAU",
   "PromotionId":"0c8xx00000000BJEAY",
   "LoyaltyProgramId":"0lpT10000004CdN"
}
```

**JSON example with names and numbers**

```
{
   "MembershipNumber":"Member123",
   "JournalType":"Accrual",
   "JournalSubType":"Social",
   "VoucherCode":"15OFF",
   "ProductName":"Nike",
   "ProductCategoryName":"Apparel",
   "PromotionName":"Flat20",
   "LoyaltyProgramName":"NTO"
}
```

# CHAPTER 7 Loyalty Management Standard Invocable Actions

In this chapter ...


- Adjust Points
- Assign Member Tier Benefits
- Accrual Cancellation
- Credit Points
- Change Tier
- Change All Tiers or None
- Debit Points
- Generate Referral Code
- Get Member's Active Segments
- Get Points Balance
- Get Promotions Based on Member's Data Cloud Segment
- Get Promotions Based on Transaction Journal
- Get Tier
- Issue Voucher Action
- Merge Memberships Action
- Process Member Benefit
- Redemption Cancellation
- Run Program Process for Transaction Journal
- Transfer Member Points to Groups
- Transfer Points


Create and manage loyalty programs for your organization using invocable actions. Use tier groups to group members and change member tier based on their loyalty points, assign and process benefits based on their tier, manage loyalty points for a member, issue voucher for a member, and cancel redemption transactions for a member for Loyalty Management. For more information on standard invocable actions, see **REST API Developer Guide** and **Actions Developer Guide**.

- Unmerge Memberships Action
- Update Member Progress for Cumulative Promotion

# Adjust Points

Adjust loyalty points for a specified program member or journal transaction.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v***XX.X***/actions/standard/adjustPointsAction`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer ***token***`

## Inputs

| Input | Details |
| --- | --- |
| `AdjustmentCategory` | **Type**<br>String<br>**Description**<br>The category of adjustment. |
| `AdjustmentType` | **Type**<br>string<br>**Description**<br>Required. The type of adjustment required. |
| `JournalId` | **Type**<br>ID<br>**Description**<br>ID of the transaction journal. |
| `LoyaltyProgramCurrencyId` | **Type**<br>ID<br>**Description**<br>ID of the loyalty program currency. |
| `LoyaltyProgramMemberId` | **Type**<br>ID |

| Input | Details |
| --- | --- |
| | **Description**<br>Required. ID of the loyalty program member to whom the points must be adjusted. |
| `Points` | **Type**<br>Float<br>**Description**<br>Required. The points available for the loyalty program member. |
| `PointsExpirationDate` | **Type**<br>string<br>**Description**<br>The date on which fixed-model non-qualifying points credited by the action expire. Points expiration date is only applicable when the adjustment is crediting points to the member. This input is available in API version 55.0 and later. |
| `ReasonforChange` | **Type**<br>string<br>**Description**<br>Required. The reason for adjustment. |

# Outputs

| Output | Details |
| --- | --- |
| `AdjustmentTransactionJournalId` | **Type**<br>string<br>**Description**<br>The ID of the adjustment transaction journal generated after the request is successful. |

# Example

**Sample Request**

```
{
   "inputs":[{
      "LoyaltyProgramMemberId": "0lmxx00004000001AAB",
      "LoyaltyProgramCurrencyId": "0lpxx00004000001AAB",
      "Points": 500.0,
      "PointsExpirationDate": "2022-08-12",
      "AdjustmentType": "Credit",
      "ReasonForChange": "Compensation"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "AdjustmentTransactionJournalId":"0lvxx00004000001AAB"}
   }
}
```

# Assign Member Tier Benefits

Assign benefits to a loyalty program members based on their member's tier for benefits that are associated with a Benefit Action.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/assignMemberTierBenefits`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
|---|---|
| `LoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required. ID of the loyalty program member to associate with the benefits. |

## Outputs

| Output | Details |
|---|---|
| `MemberBenefits` | **Type**<br>string[]<br>**Description**<br>The benefits associated with the member. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "LoyaltyProgramMemberId":"0lMR00000000001OAA"
   }]
}
```

**Sample Response**

```
{
   "actionName":"assignTierBenefits",
   "errors":null,
   "isSuccess":true,
   "outputValues": {
        "MemberBenefits": [
             '0hWR00000000001OAA',
             '0hWR00000000001OAB',
             '0hWR00000000001OAC'
        ]
   }
}
```

# Accrual Cancellation

Cancel a specific set of accrual transactions.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/cancelAccrual`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
| --- | --- |
| `CancellationReason` | **Type**<br>string |

| Input | Details |
| --- | --- |
| | **Description**<br>Required. The reason for accrual cancellation. |
| `ReversalCategory` | **Type**<br>string<br>**Description**<br>The category of accrual cancellation. |
| `TransactionJournalId` | **Type**<br>string<br>**Description**<br>Required. ID of the transaction journal. |

## Outputs

| Output | Details |
| --- | --- |
| `CancellationTransactionJournalId` | **Type**<br>string<br>**Description**<br>The ID of the cancellation transaction journal generated after the request is successful. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "TransactionJournalId": "0lvxx00004000001AAA",
      "CancellationReason": "Duplicate Accrual"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "CancellationTransactionJournalId":"0lvxx00004000001AAB"
   }
}
```

# Credit Points

Credit loyalty points to a specified loyalty program member's balance.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v***XX.X***/actions/standard/creditPoints`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer ***token***`

## Inputs

| Input | Details |
| --- | --- |
| `AdditionalNotes` | **Type**<br>String<br>**Description**<br>Additional information about the transactions performed by the loyalty program members. |
| `CorrelationId` | **Type**<br>ID<br>**Description**<br>ID of any Salesforce entity. |
| `FlowId` | **Type**<br>ID<br>**Description**<br>ID of the flow associated with credit points action. |
| `JournalId` | **Type**<br>ID<br>**Description**<br>Required. ID of the transaction journal. |
| `LoyaltyProgramMemberId` | **Type**<br>ID |

| Input | Details |
| --- | --- |
| | **Description**<br>Required. ID of the loyalty program member. |
| `Points` | **Type**<br>Float<br>**Description**<br>Required. The points available for the loyalty program member. |
| `ProgramCurrencyName` | **Type**<br>string<br>**Description**<br>Required. The name of the program currency. |
| `PointsExpirationDate` | **Type**<br>string<br>**Description**<br>The date on which fixed-model non-qualifying points credited by the action expire. This input is available in API version 55.0 and later. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>Required. The name of the loyalty program. |
| `LoyaltyProgramCurrencySubtypeName` | **Type**<br>string<br>**Description**<br>Required. The name of the loyalty program currency subtype that is used to credit points from the member. |

## Outputs

| Output | Details |
| --- | --- |
| `JournalId` | **Type**<br>ID<br>**Description**<br>ID of the transaction journal. |
| `LoyaltyProgramMemberId` | **Type**<br>string |

| Output | Details |
| --- | --- |
| | **Description**<br>ID of the loyalty program member. |
| `ProgramCurrencyName` | **Type**<br>string<br>**Description**<br>The name of the program currency. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>The name of the loyalty program. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "LoyaltyProgramMemberId": "0lMxx0000A000001EAA",
      "ProgramCurrencyName": "Avios",
      "ProgramName": "baLoyaltyProgram",
      "Points": 500.0,
      "PointsExpirationDate": "12-08-2022",
"CorrelationId": "0lcxx00004000002AAA",
      "JournalId": "0lcxx00204000001AAA",
      "FlowId": "0lcxx00204000001AAA",
      "AdditionalNotes":"Any additional Information"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "LoyaltyProgramMemberId":"0lMxx0000A000001EAA",
        "ProgramCurrencyName":"Avios",
        "ProgramName":"baLoyalty",
        "JournalId":"0lMxx0000A000001EAA"
   }
}
```

# Change Tier

Change the tier for a specified loyalty program member.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v***XX.X***/actions/standard/changeTier`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer ***token***`

## Inputs

| Input | Details |
| --- | --- |
| `ChangeReason` | **Type**<br>string<br>**Description**<br>The reason for change in member tier. |
| `LoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required. ID of the loyalty program member. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>Required. The loyalty program name associated with the tier. |
| `TierGroupName` | **Type**<br>string<br>**Description**<br>Required. The name of the tier group. |
| `TargetTierName` | **Type**<br>string<br>**Description**<br>Required. The new tier to be associated with the loyalty program member |

# Outputs

| Output | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>string<br>**Description**<br>ID of the loyalty program member. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>The name of the loyalty program. |
| `TargetTierName` | **Type**<br>string<br>**Description**<br>The new tier associated with the loyalty program member. |
| `TierGroupName` | **Type**<br>string<br>**Description**<br>The name of the tier group. |

# Example

**Sample Request**

```
{
   "inputs":[{
      "TierGroupName": "QualifyingGroup",
      "ProgramName": "baProgram",
      "TargetTierName": "Gold",
      "LoyaltyProgramMemberId": "0lcxx00006000001AAA",
      "ChangeReason": "Reason to change the tier"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "LoyaltyprogramMemberId":."0lMxx0000A000001EAA",
        "TierGroupName":"QualifyingGroup",
        "ProgramName": "baProgram",
        "TargetTierName":"Gold"
```

```
    }
}
```

# Change All Tiers or None

Change tier for a specified loyalty program member only when all the input parameters meet the criteria.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***XX.X***`/actions/standard/changeAllTierOrNone`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***token***

## Inputs

| Input | Details |
| --- | --- |
| `ChangeReason` | **Type**<br>string<br>**Description**<br>The reason for change in the tier. |
| `ChangeReasonType` | **Type**<br>string<br>**Description**<br>The reason type for change in the tier. |
| `LoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required. ID of the loyalty program member. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>Required. The name of the loyalty program. |

| Input | Details |
| --- | --- |
| `TierGroupName` | **Type**<br>string<br>**Description**<br>Required. The name of the tier group. |
| `TargetTierName` | **Type**<br>string<br>**Description**<br>Required. The new tier to be associated with the loyalty program member. |

## Outputs

| Output | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>ID of the loyalty program member. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>The name of the loyalty program. |
| `TierGroupName` | **Type**<br>string<br>**Description**<br>The name of the tier group. |
| `TargetTierName` | **Type**<br>string<br>**Description**<br>The new tier associated with the loyalty program. |

## Example

**Sample Request**

```
{
   "inputs":[{
       "TierGroupName":"Default Tier Group",
```

```
        "ProgramName":"Rewards program",
        "TargetTierName":"Gold",
        "LoyaltyProgramMemberId": "0lcxx00006000001AAA",
        "ChangeReason":"Reason to change the tier"
    }]
}
```

**Sample Response**

```
{
   "actionName":"changeTierWhenNoErrors",
   "errors":null,
   "isSuccess":true,
   "outputValues":{
      "LoyaltyProgramMemberId":"0lcxx00006000001AAA",
      "TierGroupName":"Default Tier Group",
      "ProgramName": "Rewards program",
      "TargetTierName":"Gold",
   }
}
```

# Debit Points

Debit loyalty points from a specified loyalty program member's balance. You can debit loyalty points to redeem for a service or upgrade the member to a higher tier.

Note: This action updates the point balance in the LoyaltyProgramMemberCurrency table in your Salesforce org.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***XX.X***`/actions/standard/debitPoints`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***token***

## Inputs

| Input | Details |
| --- | --- |
| `AdditionalNotes` | **Type**<br>String |

| Input | Details |
| --- | --- |
| | **Description**<br>Additional information about the transactions performed by the loyalty program members. |
| `CorrelationId` | **Type**<br>ID<br>**Description**<br>ID of any Salesforce entity. |
| `FlowId` | **Type**<br>ID<br>**Description**<br>ID of the flow associated with the debit points action. |
| `JournalId` | **Type**<br>ID<br>**Description**<br>Required. ID of the transaction journal. |
| `LoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required. ID of the loyalty program member to whom the points must be deducted. |
| `Points` | **Type**<br>Float<br>**Description**<br>Required. The points available for the loyalty program member. |
| `ProgramCurrencyName` | **Type**<br>string<br>**Description**<br>Required. The name of the loyalty program currency. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>Required. The name of the loyalty program. |
| `LoyaltyProgramCurrencySubtypeName` | **Type**<br>string |

| Input | Details |
| --- | --- |
| | **Description**<br>Required. The name of the loyalty program currency subtype that is used to debit points from the member. |

## Outputs

| Output | Details |
| --- | --- |
| `JournalId` | **Type**<br>ID<br>**Description**<br>ID of the transaction journal. |
| `LoyaltyProgramMemberId` | **Type**<br>string<br>**Description**<br>ID of the loyalty program member. |
| `PointsBalance` | **Type**<br>Integer<br>**Description**<br>The total points available for the loyalty program member. |
| `ProgramCurrencyName` | **Type**<br>string<br>**Description**<br>The name of the program currency. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>The name of the loyalty program. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "LoyaltyProgramMemberId": "0lMxx0000A000001EAA",
      "ProgramCurrencyName": "Avios",
      "ProgramName": "baLoyaltyProgram",
```

```
      "Points": 500.0,
      "CorrelationId": "0lcxx00004000002AAA",
      "JournalId": "0lcxx00204000001AAA",
      "AdditionalNotes": "Any additional Information"
   }]
}
```

**Sample Response**

```
[ {
  "actionName" : "debitPoints",
  "errors" : null,
  "isSuccess" : true,
  "outputValues" : {
    "JournalId" : "0lcxx00204000001AAA",
    "PointsBalance" : 130.0,
    "ProgramCurrencyName" : "exclusive points",
    "LoyaltyProgramMemberId" : "0lMxx0000A000001EAA",
    "ProgramName" : "sample program"
  }
} ]
```

# Generate Referral Code

Generate a referral code for a loyalty program member.

Note: If a loyalty program member already has a referral code, generating another code replaces the existing one.

This action is available in API version 57.0 and later for users with the Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***XX.X***`/actions/standard/generateMemberReferralCode`

**Formats**

JSON

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***token***

## Inputs

| Input | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>String |

| Input | Details |
| --- | --- |
| | **Description**<br>Required. ID of the loyalty program member to generate the referral code for.<br>Note: Specify an array of member IDs in the JSON request to generate referral codes for multiple members. |

## Outputs

None.

## Example

**Sample Request**

```
{
   "inputs":[{
      "LoyaltyProgramMemberId":"0lMxx0000A000001EAA"
   }, {
      "LoyaltyProgramMemberId":"0lQxx0000B000001EBS"
   }]
}
```

# Get Member's Active Segments

Retrieve active Data Cloud market segments that a loyalty program member is a part of.

For more information about how the `getMemberActiveSegments` action can be used to process transaction journals and apply promotions, see Get a List of Member's Active Segments for a Member in Salesforce Help.

This action is available in API version 55.0 and later for users in orgs where either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Plus license and Data Cloud are enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/getMemberActiveSegments`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

# Inputs

| Input | Details |
| --- | --- |
| `loyaltyProgramMemberID` | **Type**<br>ID<br>**Description**<br>Required. The ID of the loyalty program member to retrieve associated active segments for. |
| `segmentIds` | **Type**<br>ID<br>**Description**<br>A comma-delimited list of segmentIds to retrieve for the specified member's associated segments. |

# Outputs

| Output | Details |
| --- | --- |
| `memberSegmentIDs` | **Type**<br>string<br>**Description**<br>A comma-delimited list of the active segment IDs that the specified loyalty program member is a part of. If no segments are specified in the request, the action returns segments from the default data space. |

# Example

**Sample Request**

```
{
   "inputs": [ {
      "loyaltyProgramMemberID":"0lVxx000000016GMAQ"
   } ]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "memberSegmentIDs":"0lvxx00004000001AAB"}
   }
}
```

# Get Points Balance

Retrieve the loyalty points balance for a specified loyalty program member.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v***XX.X***/actions/standard/getPointsBalance`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer ***token***`

## Inputs

| Input | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>string<br>**Description**<br>Required. ID of the loyalty program member to whom the points balance are to be fetched. |
| `ProgramCurrencyName` | **Type**<br>string<br>**Description**<br>Required. The name of the program currency. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>Required. The name of the loyalty program. |

## Outputs

| Output | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>ID |

| Output | Details |
| --- | --- |
| | **Description**<br>ID of the loyalty program member. |
| `PointsBalance` | **Type**<br>integer<br>**Description**<br>The points available for the loyalty program member. |
| `ProgramCurrencyName` | **Type**<br>string<br>**Description**<br>The name of the program currency. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>The name of the loyalty program. |
| `EscrowPointsBalance` | **Type**<br>double<br>**Description**<br>The number points that are placed in escrow for the member. This field is available in API version 53.0 and later. |

# Example

**Sample Request**

```
{
   "inputs":[{
      "LoyaltyProgramMemberId":"0lMxx0000A000001EAA",
      "ProgramCurrencyName":"Avios",
      "ProgramName":"baLoyalty"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "LoyaltyprogramMemberId":"0lMxx0000A000001EAA",
        "ProgramCurrencyName":"Avios",
        "ProgramName":"baLoyalty"
        "PointsBalance":500.0
```

```
        "EscrowPointsBalance": 25.00
    }
}
```

# Get Promotions Based on Member's Data Cloud Segment

Retrieve which promotions are eligible for a member based on the member's market segment.

For more information about how the getLoyaltyPromotionBasedOnSalesforceCDP action filters eligible promotions, see Get a List of Promotions Applicable for a Member in Salesforce Help.

This action is available in API version 53.0 and later for users in orgs where either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Advanced license and Data Cloud are enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/getLoyaltyPromotionBasedOnSalesforceCDP`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
|---|---|
| `MemberId` | **Type**<br>ID<br>**Description**<br>Required. ID of the loyalty program member for whom promotions must be filtered. Ensure that the member is part of a Data Cloud market segment. |
| `PromotionRecords` | **Type**<br>sObject<br>**Description**<br>Promotion records to filter the promotions that are applicable to the member's market segment. |

# Outputs

| Output | Details |
| --- | --- |
| PromotionRecords | **Type**<br>sObject<br>**Description**<br>Promotion records that the member is eligible for based on the member's market segment. |

# Example

**Sample Request**

```
{
   "inputs": [ {
      "MemberId":"0lMxx0000000EYAMA2"
   } ]
}
```

**Sample Response**

```
[ {
  "actionName" : "getLoyaltyPromotionBasedOnSalesforceCDP",
  "errors" : null,
  "isSuccess" : true,
  "outputValues" : {
    "PromotionRecords" : [ {
      "attributes" : {
        "type" : "Promotion",
        "url" : "/services/data/v53.0/sobjects/Promotion/0c8T10000004CBEIA2"
      },
      "Id" : "0c8xx0000004CBEIA2",
      "OwnerId" : "005xx000000HwDoIAK",
      "IsDeleted" : false,
      "Name" : "Sample Promotion",
      "CreatedDate" : "2021-07-21T04:13:15.000+0000",
      "CreatedById" : "005xx000000HwDoIAK",
      "LastModifiedDate" : "2021-07-21T04:13:15.000+0000",
      "LastModifiedById" : "005xx000000HwDoIAK",
      "SystemModstamp" : "2021-07-21T04:13:15.000+0000",
      "LastViewedDate" : "2021-07-21T04:15:21.000+0000",
      "LastReferencedDate" : "2021-07-21T04:15:21.000+0000",
      "StartDate" : "2021-07-20",
      "IsActive" : true,
      "LoyaltyPromotionType" : "Cumulative",
      "IsEnrollmentRequired" : false,
      "CumulativeUsageTarget" : 100,
      "FulfillmentAction" : "CreditPoints",
      "LoyaltyProgramId" : "0lpxx00000000HWIAY",
      "TotalRewardPoints" : 100,
      "LoyaltyProgramCurrencyId" : "0lcxx00000000XeIAI",
      "TransactionJournalType" : "Accrual",
```

```
      "IsPointsWithFactor" : false
    } ]
  }
} ]
```

# Get Promotions Based on Transaction Journal

Retrieve active promotions that are eligible for a transaction journal. The action can process accrual or redemption transactions.

For more information about how the `getLoyaltyPromotion` action filters eligible promotions, see Get a List of Promotions Applicable for a Transaction in Salesforce Help.

This action is available in API version 53.0 and later for users in orgs where either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Advanced license is enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/getLoyaltyPromotion`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
|---|---|
| `JournalId` | **Type**<br>ID<br>**Description**<br>Required. ID of an Accrual or Redemption type Transaction Journal record. |

## Outputs

| Output | Details |
|---|---|
| `PromotionRecords` | **Type**<br>sObject<br>**Description**<br>Promotion records that are eligible for the transaction journal. |

## Example

**Sample Request**

```
{
   "inputs": [ {
      "JournalId":"0lVxx000000016GMAQ"
   } ]
}
```

**Sample Response**

```
[ {
  "actionName" : "getLoyaltyPromotion",
  "errors" : null,
  "isSuccess" : true,
  "outputValues" : {
    "PromotionRecords" : [ {
      "attributes" : {
        "type" : "Promotion",
        "url" : "/services/data/v53.0/sobjects/Promotion/0c8T10000004CBEIA2"
      },
      "Id" : "0c8xx0000004CBEIA2",
      "OwnerId" : "005xx000000HwDoIAK",
      "IsDeleted" : false,
      "Name" : "Sample Promotion",
      "CreatedDate" : "2021-07-21T04:13:15.000+0000",
      "CreatedById" : "005xx000000HwDoIAK",
      "LastModifiedDate" : "2021-07-21T04:13:15.000+0000",
      "LastModifiedById" : "005xx000000HwDoIAK",
      "SystemModstamp" : "2021-07-21T04:13:15.000+0000",
      "LastViewedDate" : "2021-07-21T04:15:21.000+0000",
      "LastReferencedDate" : "2021-07-21T04:15:21.000+0000",
      "StartDate" : "2021-07-20",
      "IsActive" : true,
      "LoyaltyPromotionType" : "Cumulative",
      "IsEnrollmentRequired" : false,
      "CumulativeUsageTarget" : 100,
      "FulfillmentAction" : "CreditPoints",
      "LoyaltyProgramId" : "0lpxx00000000HWIAY",
      "TotalRewardPoints" : 100,
      "LoyaltyProgramCurrencyId" : "0lcxx00000000XeIAI",
      "TransactionJournalType" : "Accrual",
      "IsPointsWithFactor" : false
    } ]
  }
} ]
```

# Get Tier

Retrieve the current tier for a specified loyalty program member.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v***XX.X***/actions/standard/getTier`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer ***token***`

## Inputs

| Input | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>string<br>**Description**<br>Required. ID of the loyalty program member to whom the tier details needs to be fetched. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>Required. The loyalty program name associated with the tier. |
| `TierGroupName` | **Type**<br>string<br>**Description**<br>Required. The name of the tier group. |

## Outputs

| Output | Details |
| --- | --- |
| `LoyaltyProgramMemberId` | **Type**<br>string<br>**Description**<br>The ID of the loyalty program member. |
| `SequenceNumber` | **Type**<br>integer<br>**Description**<br>The ranking of the tier. |

| Output | Details |
| --- | --- |
| `TierGroupName` | **Type**<br>string<br>**Description**<br>The name of the tier group. |
| `TierName` | **Type**<br>string<br>**Description**<br>The name of the loyalty tier associated with the program member. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "TierGroupName":"QualifyingGroup",
      "ProgramName":"baLoyalty",
      "LoyaltyProgramMemberId":"01cxx00004000001AAA"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "LoyaltyProgramMemberId":"01Mxx0000A000001EAA",
        "TierGroupName":"QualifyingGroup"
        "TierName":"Gold",
        "ProgramName":"baLoyalty",
        "SequenceNumber":4
   }
}
```

# Issue Voucher Action

Issue a voucher for a member or contact.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***XX.X***`/actions/standard/issueVoucher`

**Formats**
JSON, XML

**HTTP Methods**
POST

**Authentication**
`Authorization: Bearer token`

# Inputs

| Input | Details |
| --- | --- |
| `AdditionalNotes` | **Type**<br>string<br>**Description**<br>Additional details related to the action, such as the reason for issuing the voucher. |
| `AccountId` | **Type**<br>string<br>**Description**<br>The ID of the account that's used to issue the voucher. Provide`AccountId` only when you issue vouchers to a Business Account. If both `AccountId` and `ContactId` are provided, then an error is displayed. |
| `BenefitId` | **Type**<br>ID<br>**Description**<br>The benefit associated with the voucher. |
| `ContactId` | **Type**<br>ID<br>**Description**<br>The contact associated with the member. Provide `ContactId` only when you issue vouchers to a Person Account. If both `AccountId` and `ContactId` are provided, then an error is displayed. |
| `DiscountPercent` | **Type**<br>percent<br>**Description**<br>The discount percentage provided by the voucher. Specify a value to override the discount percentage specified in the associated voucher definition. Specify this when the associated voucher definition is of the type Discount Percentage. This field is available in API version 53.0 and later. |

| Input | Details |
| --- | --- |
| `FaceValue` | **Type**<br>double<br>**Description**<br>The amount of discount provided by the voucher. Specify a value to override the face value specified in the associated voucher definition. Specify this when the associated voucher definition is of the type Fixed Value. This field is available in API version 53.0 and later. |
| `EffectiveDate` | **Type**<br>Date<br>**Description**<br>The date the voucher goes into effect. |
| `ExpiryDate` | **Type**<br>Date<br>**Description**<br>The date the voucher expires. |
| `JournalId` | **Type**<br>ID<br>**Description**<br>The transaction journal associated with the member voucher when the voucher results from accrual of points. |
| `LoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>ID of the loyalty program member to issue the voucher. |
| `PromotionId` | **Type**<br>ID<br>**Description**<br>The promotion associated with the voucher. |
| `ProgramName` | **Type**<br>string<br>**Description**<br>The name of the loyalty program associated with this voucher. |
| `VoucherCode` | **Type**<br>string<br>**Description**<br>Required. The voucher identifier generated by an external system. |

| Input | Details |
| --- | --- |
| `VoucherDefinitionName` | **Type**<br>string<br>**Description**<br>Required. The name of the voucher definition associated with the voucher code. |

## Outputs

| Output | Details |
| --- | --- |
| `VoucherId` | **Type**<br>ID<br>**Description**<br>The ID of the voucher that's generated after the request is successful. |

## Example

**Sample Request**

Sample request to issue vouchers to a Person Account.

```
{
   "inputs":[{
      "LoyaltyProgramMemberId":"0lMxx0000A000001EAA",
      "ContactId":"0lMxx0000A000001EAA",
      "ProgramName":"Program 1",
      "VoucherDefinitionName":"Voucher1",
      "JournalId":"0lVxx0000A000001EAA",
      "VoucherCode":"Voucher123",
      "PromotionId":"0lMxx0000A000001EAA",
      "BenefitId":"0lMxx0000A000001EAA",
      "Reason":"Bonus",
      "EffectiveDate":"12-08-2021",
      "ExpiryDate":"12-09-2021"
      "DiscountPercent":"20"
   }]
}
```

Sample request to issue vouchers to a Business Account.

```
{
  "inputs":[
        {
            "LoyaltyProgramMemberId":"0lMxx00000002HxEAI",
            "AccountId":"001xx000003H3NnAAK",
            "VoucherDefinitionName":"Voucher1",
            "VoucherCode":"Voucher123",
            "ProgramName": "Sip & Save Rewards"
```

```
        }
    ]
}
```

**Sample Response**

Sample request for the Issue Voucher action.

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "VoucherId":"0lYxx0000A000001EAA"
   }
}
```

# Merge Memberships Action

Merges two active loyalty program member records that belong to the same loyalty program. Out of the two memberships, one is source membership and the other is the target membership. After the merge is complete, the status of the source membership is changed to Merged and the status of the target membership remains active.

By default, all the transaction journals and points of the source member are transferred to the target member after the merge. Optionally, you can:

- Transfer all the vouchers of source member to the target member.
- Assign the higher current tier between the source and target members to the target member.

For more information about how the mergeLoyaltyProgramMembership action merges loyalty program memberships, see Merge Memberships in Salesforce Help.

This action is available in API version 56.0 and later for users in orgs where Loyalty Management is enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v***XX.X***/actions/standard/mergeLoyaltyProgramMembership`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer ***token***`

## Inputs

| Input | Details |
| --- | --- |
| `reasonForMergingMemberships` | **Type**<br>String |

| Input | Details |
| --- | --- |
| | **Description**<br>Required.<br>The reason why the source loyalty program member is to be merged with the target loyalty program member. |
| shouldSetHigherCurrentTierForTargetMember | **Type**<br>Boolean<br>**Description**<br>Indicates whether the tier for the target record is set to the source record's tier when the source tier is higher than the target record's current tier across all groups (`true`) or not (`false`).<br>The default value is `false`. |
| `shouldTransferVouchers` | **Type**<br>Boolean<br>**Description**<br>Indicates whether all vouchers that belong to the source loyalty program member must be transferred to the target loyalty program member (`true`) or not (`false`).<br>The default value is `false`. |
| `sourceLoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required.<br>The ID of the loyalty program member record to be merged with the target loyalty program member record. The status of the source loyalty program member record is set to `Merged` after the merge is complete. |
| `targetLoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required.<br>The ID of the loyalty program member record to remain active for the member after the merge is complete. The qualifying and non-qualifying points accrued by the source member are added to the respective points balances of the target member record. |

# Outputs

| Output | Details |
| --- | --- |
| `errors` | **Type**<br>List<String> |

| Output | Details |
| --- | --- |
| | **Description**<br>A list of error messages if the operation fails. |
| `isSuccess` | **Type**<br>Boolean<br>**Description**<br>Indicates whether the operation is successful or not. |

## Examples

**Sample Request**

```
{
   "inputs": [ {
      "reasonForMergingMemberships": "Test Merge",
      "shouldSetHigherCurrentTierForTargetMember": true,
      "shouldTransferVouchers": true,
      "sourceLoyaltyProgramMemberId":"0lMT100000001JnMAK",
      "targetLoyaltyProgramMemberId":"0lMT100000001JnMAI"
   } ]
}
```

**Sample Response**

```
[ {
  "actionName" : "mergeLoyaltyProgramMembership",
  "errors" : null,
  "isSuccess" : true
} ]
```

SEE ALSO:

SOAP API Developer Guide: Core Data Types Used in API Calls

# Process Member Benefit

Process the benefit action associated with the benefit that is assigned to a loyalty program member.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***XX.X***`/actions/standard/processMemberBenefitAction`

**Formats**

JSON, XML

**HTTP Methods**
POST

**Authentication**
`Authorization: Bearer token`

## Inputs

| Input | Details |
| --- | --- |
| `MemberBenefitId` | **Type**<br>ID<br>**Description**<br>Required. ID of the member associated with the benefit. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "MemberBenefitId":"0lMxx0000A000001EAA"
   }]
}
```

**Sample Response**

```
{
   "actionName":"executeMemberBenefit",
   "errors":null,
   "isSuccess":true,
}
```

# Redemption Cancellation

Revert a specific set of redemption transactions.

This action is available in API version 51.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**
`/services/data/vXX.X/actions/standard/cancelRedemption`

**Formats**
JSON, XML

**HTTP Methods**
POST

**Authentication**

```
Authorization: Bearer token
```

## Inputs

| Input | Details |
|---|---|
| `CancellationReason` | **Type**<br>string<br>**Description**<br>Required. The reason for cancellation of redemption transaction. |
| `ExpiryDate` | **Type**<br>date<br>**Description**<br>The date of expiration. |
| `ReversalCategory` | **Type**<br>string<br>**Description**<br>The category of reversal. |
| `TransactionJournalId` | **Type**<br>string<br>**Description**<br>Required. ID of the transaction journal. |

## Outputs

| Output | Details |
|---|---|
| `CancellationTransactionJournalId` | **Type**<br>string<br>**Description**<br>The ID of the cancellation transaction journal generated after the request is successful. |

## Example

**Sample Request**

```
{
   "inputs":[{
      "TransactionJournalId":"0lvxx00004000001AAA",
```

```
      "CancellationReason":"Order Returned by Member",
      "ExpiryDate":"2020-04-15"
   }]
}
```

**Sample Response**

```
{
   "errors":null,
   "isSuccess":true,
   "outputValues":{
        "CancellationTransactionJournalId":"0lvxx00004000001AAB"}
   }
}
```

# Run Program Process for Transaction Journal

Run active loyalty program processes for pending Accrual or Redemption type transaction journals.

The action assesses transaction journals and runs the program processes whose selected journal type matches the transaction's journal type. If program processes have a journal subtype selected, then processes only run for a transaction journal when the transaction journal's journal subtype matches that processes' journal subtype.

For more information about this action, see Run Program Process For Transaction Journal in Salesforce Help.

This action is available in API version 54.0 and later for users in org's where either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Advanced license are enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/runProgramProcessForTransactionJournal`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
|---|---|
| `transactionJournalId` | **Type**<br>ID<br>**Description**<br>Required. ID of the transaction journal for which program processes must be run. The status of the Transaction Journal must be Pending, and the journal type must be specified for it. |

## Outputs

| Output | Details |
| --- | --- |
| `status` | **Type**<br>Boolean<br>**Description**<br>Indicates the status of the request. `True` indicates the program process was successfully run for the transaction journal. |

## Example

**Sample Request**

```
{
   "inputs": [
      {
         "transactionJournalId":"01Mxx0000A000001EAA"
      }
   ]
}
```

**Sample Response**

```
[ {
   "actionName" : "runProgramProcessForTransactionJournal",
   "errors" : null,
   "isSuccess" : true,
   "outputValues":{
      "status":"true"
   }
} ]
```

# Transfer Member Points to Groups

Transfers Individual or Corporate type members' points contributions to the members' associated groups.

For more information about this action, see Transfer Member Points to Groups in Salesforce Help.

This action is available in API version 53.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***XX.X***`/actions/standard/transferMemberPointsToGroups`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer token`

## Inputs

| Input | Details |
| --- | --- |
| `JournalId` | **Type**<br>ID<br>**Description**<br>Required. The transaction journal from which points must be transferred to groups. The transaction journal must be associated to either an Individual or a Corporate type member. The points are transferred to the member's associated groups. |

## Example

**Sample Request**

```
{
  "inputs": [
    {
      "JournalId":"0lMxx0000A000001EAA"
    }
  ]
}
```

**Sample Response**

```
{
      "actionName":"transferMemberPointsToGroups",
      "errors":null,
      "isSuccess":true
   }
}
```

# Transfer Points

Transfers points from a source loyalty program member to a target loyalty program member, or to a group that the member is a part of.

This action is available in API version 64.0 and later for users with Loyalty Management license.

## Supported REST HTTP Methods

**URI**

`/services/data/vXX.X/actions/standard/transferPoints`

**Formats**

JSON, XML

**HTTP Methods**
POST

**Authentication**
`Authorization: Bearer token`

# Inputs

| Input | Details |
| --- | --- |
| `programName` | **Type**<br>String<br>**Description**<br>Required. The name of the loyalty program that the source and target members are a part of. |
| `programCurrencyName` | **Type**<br>ID<br>**Description**<br>The name of the non-qualifying currency for which points are transferred. |
| `transferPoints` | **Type**<br>Integer<br>**Description**<br>The number of points that are transferred. |
| `sourceProgramMembershipNumber` | **Type**<br>Integer<br>**Description**<br>The membership number of the loyalty program member from whom the points are transferred. Either the membership number or the member ID is mandatory. |
| `sourceProgramMemberId` | **Type**<br>ID<br>**Description**<br>The ID of the loyalty program member from whom the points are transferred. Either the membership number or the member ID is mandatory. |
| `targetProgramMembershipNumber` | **Type**<br>Integer<br>**Description**<br>The membership number of the loyalty program member to whom the points are transferred. Either the membership number or the member ID is mandatory. |
| `targetProgramMemberId` | **Type**<br>ID |

| Input | Details |
| --- | --- |
| | **Description**<br>The ID of the loyalty program member to whom the points are transferred. Either the membership number or the member ID is mandatory. |
| `additionalInformation` | **Type**<br>ID<br>**Description**<br>The additional information about the transfer of points. |

## Outputs

| Input | Details |
| --- | --- |
| `programName` | **Type**<br>String<br>**Description**<br>Required. The name of the loyalty program that the source and target members are a part of. |
| `programCurrencyName` | **Type**<br>ID<br>**Description**<br>The name of the non-qualifying currency for which points are transferred. |
| `pointsTransferred` | **Type**<br>Integer<br>**Description**<br>The number of points that are transferred. |
| `sourceProgramMemberId` | **Type**<br>ID<br>**Description**<br>The ID of the loyalty program member from whom the points are transferred. |
| `targetProgramMemberId` | **Type**<br>ID<br>**Description**<br>The ID of the loyalty program member to whom the points are transferred. |
| `sourceTransactionJournalId` | **Type**<br>ID |

| Input | Details |
| --- | --- |
| | **Description**<br>The ID of the transaction journal that debited points from the source loyalty program member. |
| targetTransactionJournalId | **Type**<br>ID<br>**Description**<br>The ID of the transaction journal that credited points to the target loyalty program member. |

**Sample Request**

```
{
"inputs": [
{
"programName": "NTORules",
"sourceProgramMembershipNumber": "N01",
"targetProgramMembershipNumber": "N02",
"programCurrencyName": "NQP Fixed Negative Trace",
"transferPoints": 5,
"additionalInformation": "Tried Transfer Points testing"
}
]
}
```

**Sample Response**

```
{
"actionName":"transferPoints",
"errors":null,"invocationId":null,
"isSuccess":true,"outcome":null,
"outputValues":{
"targetTransactionJournalId":"0lVLT0000001ATa",
"programCurrencyName":"NQPFixed",
"programName":"Program001",
"pointsTransferred":10,
"sourceProgramMemberId":"0lMLT0000000OtZ",
"sourceTransactionJournalId":"0lVLT0000001ATZ",
"targetProgramMemberId":"0lMLT0000000OvB"},
"sortOrder":-1,"version":1
}
```

# Unmerge Memberships Action

Unmerges loyalty program member records have a Merged status. The action unmerges memberships that are in the Merged status from the membership that it was previously merged with. After the unmerge is complete, the status of the Loyalty Program Member Merge record that was created during the merge is changed to Unmerged. The members are reassigned to the tier that was assigned to them before the merge. They are also credited with the points and transferred the vouchers they had before the membership was merged.

For more information about how the unmergeLoyaltyProgramMembership action unmerges loyalty program memberships, see Unmerge Memberships in Salesforce Help.

This action is available in API version 56.0 and later for users in orgs where Loyalty Management is enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/unmergeLoyaltyProgramMembership`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
|---|---|
| `mergedLoyaltyProgramMemberId` | **Type**<br>ID<br>**Description**<br>Required.<br>The ID of the merged loyalty program member record to be unmerged. |

## Outputs

| Output | Details |
|---|---|
| `errors` | **Type**<br>List<String><br>**Description**<br>A list of error messages if the operation fails. |
| `isSuccess` | **Type**<br>Boolean<br>**Description**<br>Indicates whether the operation is successful or not. |

## Examples

**Sample Request**

```
{
   "inputs": [ {
      "mergedLoyaltyProgramMemberId":"0lMT100000001JnMAK"
   } ]
}
```

**Sample Response**

```
[ {
  "actionName" : "unmergeLoyaltyProgramMembership",
  "errors" : null,
  "isSuccess" : true
} ]
```

SEE ALSO:

SOAP API Developer Guide: Core Data Types Used in API Calls

# Update Member Progress for Cumulative Promotion

Update the progress made by a loyalty program member towards attaining a Cumulative type promotion. The action creates a Loyalty Program Member Promotion record if the promotion isn't associated with the member.

For more information about this action, see Update the Member's Progress Towards Attaining a Cumulative Promotion in Salesforce Help.

This action is available in API version 53.0 and later for users in orgs where either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, or Loyalty Management - Advanced license is enabled.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/updateProgressForCumulativePromotionUsage`

**Formats**

JSON, XML

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
| --- | --- |
| `loyaltyProgramMemberId` | **Type**<br>ID |

| Input | Details |
| --- | --- |
| | **Description**<br>Required. ID of the loyalty program member who progress towards attaining a cumulative promotion must be updated. |
| `promotionId` | **Type**<br>ID<br>**Description**<br>Required. ID of the Cumulative type promotion for which member's progress must be updated. |
| `usageIncrementForCumulativePromotion` | **Type**<br>integer<br>**Description**<br>Required. The value or quantity that must be added to member's usage towards attaining the promotion.<br>For example, if the target of a promotion is 10 units and the member has previously purchased 1 unit. Now the member has purchased 4 units. In this scenario, the input must be 4 and not 5 (1+4). |

# Outputs

| Output | Details |
| --- | --- |
| `cumulativeUsageTarget` | **Type**<br>integer<br>**Description**<br>The target value or quantity which members must achieve to attain the promotion. |
| `updatedCumulativeUsageCompleted` | **Type**<br>integer<br>**Description**<br>The updated value or quantity by which the member has progressed towards attaining the promotion.<br>For example, if the target of a promotion is 10 units and the member has previously purchased 1 unit. Now the member has purchased 4 units. In this scenario, the output is 5. |

# Example

**Sample Request**

```
{
"inputs" : [
```

```
     {
"loyaltyProgramMemberId" : "0lMRxx0000006MfMAI",
"promotionId": "0c8xx00000002MqIAI",
"usageIncrementForCumulativePromotion": 4
   }
]
}
```

**Sample Response**

```
[ {
  "actionName" : "updateProgressForCumulativePromotionUsage",
  "errors" : null,
  "isSuccess" : true,
  "outputValues" : {
    "cumulativeUsageTarget" : 10,
    "updatedCumulativeUsageCompleted" : 5
  }
} ]
```

# CHAPTER 8 Loyalty Management Custom Invocable Actions

In this chapter ...


- Run Program Process


Create and manage loyalty programs for your organization using custom invocable actions.

# Run Program Process

This action lists custom actions associated with all the available loyalty program processes. You can trigger an active loyalty program process using its corresponding custom invocable action.

This action is available in API version 56.0 and later.

## Supported REST HTTP Methods

**URI**

`/services/data/v56.0/actions/custom/runProgramProcess/<actionName>`

Note: `<actionname>` is the name of the custom action associated with an active loyalty program process. The custom action name consists of the name of the loyalty program that the process belongs to followed by a delimiter, and then the name of the process. The delimiter is `SLI`. The program name, the delimiter, and the process name are seperated by underscores. If your loyalty program and process names have spaces, the spaces are replaced with underscores.

If the name of your loyalty program is InnerCircle and process name is Issue Voucher, then the action name is `InnerCircle_SLI_Issue_Voucher`. If the name of your loyalty program is Inner Circle and process name is IssueVoucher, then the action name is `Inner_Circle_SLI_IssueVoucher`.

**Formats**

JSON

**HTTP Methods**

POST

**Authentication**

`Authorization: Bearer token`

## Inputs

Vary depending on the Loyalty Program Process setup action.

## Outputs

Standard invocable action result parameters, such as `isSuccess` and `errors` along with other parameters that vary depending on the inputs.

| Output | Details |
| --- | --- |
| `errors` | **Type**<br>**List<String>**<br>**Description**<br>**A list of error messages if the operation fails.** |
| `isSuccess` | **Type**<br>Boolean<br>**Description**<br>Indicates whether the operation is successful or not. |

# Examples

This section has the sample request and response for triggering the Credit Points Program Process.

**Sample Resource**

/services/data/v*56.0*/actions/custom/runProgramProcess/NTO_SLI_CreditPoints

**Sample request**

Here's an example POST request that has the inputs, such as, Loyalty Program member ID, points to credit, and other transaction details:

```
{
  "inputs": [
    {
      "TransactionJournal": {
        "ActivityDate": "2022-11-27T00:00:00Z",
        "BookingDate": "2022-10-23",
        "EndDate": "2022-10-23T00:00:00Z",
        "ExternalTransactionNumber": "1",
        "InvoiceDate": "2022-10-23",
        "JournalTypeName": "Accrual",
        "JournalSubTypeName": "xyz",
        "LoyaltyProgramId": "0lpRM0000004D53YAE",
        "MemberId": "0lMRM0000004Eqv2AE",
        "TransactionAmount": 45,
        "Status": "Processed"
      },
      "PointsToCredit": "100"
    }
  ]
}
```

**Sample response**

Here's an example response of a successful credit points program operation:

```
{
  "actionName": "NTO_SLI_CreditPoints",
  "errors": null,
  "isSuccess": true,
  "outputValues": {
    "PointsCredited": 100
  }
}
```

# CHAPTER 9 Loyalty Management Metadata API Types

In this chapter ...


- AnalyticsDatasetDefinition
- BenefitAction
- Flow for Loyalty Management
- LoyaltyProgramSetup
- Settings


Metadata API enables you to access some types and feature settings that you can customize in the user interface. For more information about Metadata API and to find a complete reference of existing metadata types, see **Metadata API Developer Guide**.

# AnalyticsDatasetDefinition

Represents the datasets used for analytics, such as those in CRM Analytics and Tableau.

Important: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

## Parent Type

This type extends the Metadata metadata type and inherits its `fullName` field.

## File Suffix and Directory Location

AnalyticsDatasetDefinition components have the suffix `.analyticsDatasetDefinition` and are stored in the `analyticsDatasetDefinitions` folder.

## Version

AnalyticsDatasetDefinition components are available in API version 65.0 and later.

## Special Access Rules

You must enable the Loyalty Analytics permission in your org to access this metadata.

## Fields

| Field Name | Description |
| --- | --- |
| `datasetCategory` | **Field Type**<br>string<br>**Description**<br>Required.<br>The type of metric that the dataset supports. |
| `datasetName` | **Field Type**<br>string<br>**Description**<br>Required.<br>Name of the dataset. |
| `masterLabel` | **Field Type**<br>string |

| Field Name | Description |
| --- | --- |
| | **Description**<br>Required.<br>A user-friendly name for the analytics dataset definition, which is defined when the metadata component is created. |
| `usageCategory` | **Field Type**<br>string<br>**Description**<br>Required.<br>The category of usage that uniquely identifies an agent topic. |

## Declarative Metadata Sample Definition

The following is an example of an AnalyticsDatasetDefinition component.

```
<?xml version="1.0" encoding="UTF-8"?>
<AnalyticsDatasetDefinition xmlns="http://soap.sforce.com/2006/04/metadata">
    <datasetCategory>1</datasetCategory>
    <datasetName>analytics</datasetName>
    <masterLabel>sample</masterLabel>
    <usageCategory>PromotionPerformanceInsights</usageCategory>
</AnalyticsDatasetDefinition>
```

The following is an example `package.xml` that references the previous definition.

```
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
    <types>
        <members>*</members>
        <name>AnalyticsDatasetDefinition</name>
    </types>
    <version>[ftest]</version>
</Package>
```

## Wildcard Support in the Manifest File

This metadata type supports the wildcard character `*` (asterisk) in the `package.xml` manifest file. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# BenefitAction

Represents details of an action that can be triggered automatically for a benefit.This type extends the Metadata metadata type and inherits its `fullName` field.

Important: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

## File Suffix and Directory Location

BenefitAction components have the suffix `.benefitAction` and are stored in the `benefitActions` folder.

## Version

BenefitAction components are available in API version 52.0 and later.

## Special Access Rules

To use this metadata type, the Loyalty Management license is required

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `benefitActionParameters` | BenefitActionParameter on page 587[] | The collection of flow input parameters to be used in a benefit action. |
| `description` | string | The description of the benefit action. |
| `flowDefinition` | string | The ID of the flow associated with the benefit action. |
| `isActive` | boolean | Required. Indicates whether the benefit action is active (true) or inactive (false). The default value is `false`. |
| `isBenefitExpirationAllowed` | boolean | Indicates whether the benefit action is allowed to expire a benefit (true) or not (false). The default value is `false`. |
| `isBenefitUpdateAllowed` | boolean | Indicates whether the benefit action is allowed to update a benefit (true) or not (false). The default value is `false`. |
| `masterLabel` | string | Required. The user interface name of the benefit action. |
| `memberBenefitVariableName` | string | The name of the input variable that stores the member benefit ID in the flow specified for the benefit action. |
| `processType` | string | Required. The process type of the benefit action. The default value is `Loyalty`. |
| `type` | string | Required. The type of the benefit action. |

## BenefitActionParameter

| Field Name | Field Type | Description |
|---|---|---|
| `dataType` | BenefitActionDataType (enumeration of type string) | Required. The data type of the parameter.<br>Possible values are:<br>• `Boolean`<br>• `Date` |

| Field Name | Field Type | Description |
|---|---|---|
| | | • DateTime<br>• EntityPicklist<br>• Number<br>• Picklist<br>• String |
| masterLabel | string | Required. The user interface name of the parameter. |
| name | string | The name of the parameter. |
| objectName | string | The object associated with the parameter when the data type is record. |
| parameterValues | BenefitActionParameterValue on page 588[] | A collection of predefined values for the benefit action parameter. |
| picklistName | string | The name of the picklist fields in the object associated with the parameter. |

## BenefitActionParameterValue

| Field Name | Field Type | Description |
|---|---|---|
| parameterValue | string | Required. The predefined value of the parameter. |

## Declarative Metadata Sample Definition

The following is an example of a BenefitAction component.

```
<?xml version="1.0" encoding="UTF-8"?>
<BenefitAction xmlns="http://soap.sforce.com/2006/04/metadata">
   <description>Metadata API Test</description>
   <flowDefinition>test</flowDefinition>
   <isActive>true</isActive>
   <isBenefitExpirationAllowed>true</isBenefitExpirationAllowed>
   <isBenefitUpdateAllowed>true</isBenefitUpdateAllowed>
   <masterLabel>Test1</masterLabel>
   <processType>1</processType>
   <memberBenefitVariableName>test</memberBenefitVariableName>
   <benefitActionParameters>
      <name>test</name>
      <picklistName>Type</picklistName>
      <masterLabel>test</masterLabel>
      <dataType>Picklist</dataType>
      <objectName>Account</objectName>
      <parameterValues>
        <parameterValue>string</parameterValue>
      </parameterValues>
   </benefitActionParameters>
```

```
   <type>1</type>
</BenefitAction>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
   <types>
      <members>*</members>
      <name>BenefitAction</name>
   </types>
   <types>
      <members>test</members>
      <name>Flow</name>
   </types>
   <version>52.0</version>
</Package>
```

## Wildcard Support in the Manifest File

This metadata type supports the wildcard character `*` (asterisk) in the `package.xml` manifest file. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# Flow for Loyalty Management

Represents the metadata associated with a flow. Use Flow to create an application that takes users through a series of pages to query and update records in the database. You can also execute logic and provide branching capability based on user input to build dynamic applications.

## FlowActionCall

Loyalty Management exposes additional actionType values for the FlowActionCall Metadata type.

| Field Name | Field Type | Description |
|---|---|---|
| `actionType` | InvocableActionType (enumeration of type string) | Required.<br>The action type. Additional valid values only for Loyalty Management include:<br>• `adjustPoints`—Adjusts loyalty points for a specified program member or journal transaction. This value is available in API version 51.0 and later.<br>• `assignTierBenefits`— Assigns Member Benefits to a member tier for benefits that are associated with a Benefit Action. This value is available in API version 51.0 and later.<br>• `cancelAccrual`—Cancels a specific set of accrual transactions. |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `creditPoints`—Credits loyalty points to a specified program member's balance. This value is available in API version 51.0 and later.<br>• `cancelRedemption`—Reverts a specific set of redemption transactions. This value is available in API version 51.0 and later.<br>• `changeTier`—Changes the tier for a specified program member. This value is available in API version 51.0 and later.<br>• `changeTierWhenNoErrors`—Changes tier for a specified loyalty program member only when all the input parameters meet the criteria. This value is available in API version 51.0 and later.<br>• `debitPoints`—Debits loyalty points to a specified program member's balance. This value is available in API version 51.0 and later.<br>• `executeMemberBenefit`—Processes the benefit action associated with the benefit, which is assigned to a loyalty program member. This value is available in API version 51.0 and later.<br>• `generateMemberReferralCode`—Generates a unique 8-character referral code for a loyalty program member. This value is available in API version 57.0 and later.<br>• `getMemberActiveSegments`—Retrieve active Data Cloud market segments that a loyalty program member is a part of.<br>• `getTier`—Gets the current tier for a specified program member. This value is available in API version 51.0 and later.<br>• `getPointsBalance`—Gets the loyalty points balance for a specified program member. This value is available in API version 51.0 and later.<br>• `getLoyaltyPromotion`—Gets active loyalty promotions based on a transaction journal. This value is available in API version 53.0 and later.<br>• `getLoyaltyPromotionBasedOnSalesforceCDP`—Gets promotions for a member based on the market segment the member belongs to. This value is available in API version 53.0 and later.<br>• `issueVoucher`—Issues a voucher for a member or contract. This value is available in API version 51.0 and later.<br>• `mergeLoyaltyProgramMembership`—Merges two active loyalty program member records that both belong to the same loyalty program. This value is available in API version 56.0 and later.<br>• `transferMemberPointsToGroups`—Transfers points from an individual member or a corporate member to the member's associated group. This value is available in API version 53.0 and later.<br>• `transferPoints`—Transfers points from a source loyalty program member to a target loyalty program member, or to a group that the member is a part of. This value is available in API version 64.0 and later. |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `updateProgressForCumulativePromotionUsage`—Updates the progress a member has made towards attaining a cumulative type promotion. This value is available in API version 53.0 and later.<br>• `unmergeLoyaltyProgramMembership`—Unmerges loyalty program member records that have a Merged status. The action unmerges memberships in the Merged status from the previously merged membership. This value is available in API version 56.0 and later.<br>• `runProgramProcess`—Triggers an active loyalty program process. This value is available in API version 56.0 and later.<br>• `runProgramProcessForTransactionJournal`—Triggers an active loyalty program process whose process type is TransactionJournal. This value is available in API version 54.0 and later.<br>These values are reserved for internal use:<br>• `addUpdateLimitsInPricingProm`—This value is available in API version 64.0 and later.<br>• `createUpdatePricingPromotion`—This value is available in API version 64.0 and later.<br>• `getEligibleLoyaltyPromotions`—This value is available in API version 64.0 and later.<br>• `getExpiringPointsWithDate`—This value is available in API version 64.0 and later.<br>• `getMemberBenefits`—This value is available in API version 64.0 and later.<br>• `getPointsForNextTier`—This value is available in API version 64.0 and later. |

# LoyaltyProgramSetup

Represents the configuration of a loyalty program process including its parameters and rules. Program processes determine how new transaction journals are processed. When new transaction journals meet the criteria and conditions for a program process, actions that are set up in the process are triggered for the transaction journals.

Important: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

## Parent Type

This type extends the Metadata metadata type and inherits its `fullName` field.

## File Suffix and Directory Location

LoyaltyProgramSetup components have the suffix `loyaltyProgramSetup` and are stored in the `loyaltyProgramSetups` folder.

## Version

LoyaltyProgramSetup components are available in API version 54.0 and later for Loyalty Management and in API version 59.0 and later for Referral Marketing.

## Special Access Rules

To use this metadata type, your org must have either B2C - Loyalty, B2C - Loyalty Plus, Loyalty Management - Growth, Loyalty Management - Advanced, or Referral Marketing license enabled.

## Fields

| Field Name | Description |
| --- | --- |
| `label` | **Field Type**<br>string<br>**Description**<br>Name of the loyalty program that the program process is associated with. If a loyalty program or referral program with the specified name doesn't exist, a new LoyaltyProgram record is created. The name of a program must contain at least one alphanumeric character. |
| `programProcesses` | **Field Type**<br>LoyaltyProgramProcess[] on page 592<br>**Description**<br>Collection of loyalty program processes associated with a loyalty program or a referral program. |

## LoyaltyProgramProcess

Represents a collection of fields relating to a loyalty program process.

| Field Name | Description |
| --- | --- |
| `description` | **Field Type**<br>string<br>**Description**<br>The description of the loyalty program process. |

| Field Name | Description |
| --- | --- |
| executionType | **Field Type**<br>LoyaltyPgmProcExecutionType (enumeration of type string)<br>**Description**<br>The mode of processing transaction journals by the loyalty program process.<br>Possible values are:<br>• Batch<br>• BatchAndRealTime<br>• RealTime |
| journalSubType | **Field Type**<br>string<br>**Description**<br>The subtype of transaction journals processed by the loyalty program process. |
| journalType | **Field Type**<br>string<br>**Description**<br>The type of transaction journal processed by the loyalty program process.<br>Possible values for loyalty program:<br>• Accrual<br>• Redemption<br>Possible value for referral program:<br>• Referral |
| loyaltyTierGroup | **Field Type**<br>string<br>**Description**<br>The tier group of a loyalty program. This field is available in API version 56.0 and later. This field isn't applicable for referral programs. |
| parameters | **Field Type**<br>LoyaltyProgramProcessParameter[] on page 594<br>**Description**<br>The parameters associated with the loyalty program process. |
| processName | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of the loyalty program process. |

| Field Name | Description |
| --- | --- |
| `processType` | **Field Type**<br>string<br>**Description**<br>Required.<br>The type of records processed by the loyalty program process. For referral programs, the process type is `TransactionJournal`. |
| `rules` | **Field Type**<br>LoyaltyProgramProcessRule[] on page 598<br>**Description**<br>The rules associated with the loyalty program process. |
| `status` | **Field Type**<br>LoyaltyPgmProcStatus (enumeration of type string)<br>**Description**<br>The status of the loyalty program process.<br>Possible values are:<br>• `Active`<br>• `Draft`<br>• `Inactive`<br>Note: Only active program processes can process transaction journals. |

# LoyaltyProgramProcessParameter

Represents a collection of fields relating to a parameter that's associated with the program process. Parameters are dynamic or fixed values that are used in rule. You can define the value of a parameter based on its type and data type.

| Field Name | Description |
| --- | --- |
| `condition` | **Field Type**<br>LoyaltyProgramProcessCondition on page 596<br>**Description**<br>The filter condition that decides which records are stored in the parameter. |
| `dataType` | **Field Type**<br>LoyaltyPgmProcParmDataType (enumeration of type string)<br>**Description**<br>The data type of the parameter. Determines the type of value that can be stored in the parameter.<br>Possible values are: |

| Field Name | Description |
| --- | --- |
| | • `Boolean`<br>• `Date`<br>• `DateTime`<br>• `Numeric`<br>• `Sobject`<br>• `Text` |
| `decimalPlaces` | **Field Type**<br>int<br>**Description**<br>The number of decimal places supported by the parameter when it is of the type Variable and data type Numeric. |
| `description` | **Field Type**<br>string<br>**Description**<br>The description of the parameter. |
| `isCollection` | **Field Type**<br>boolean<br>**Description**<br>Indicates whether the parameter can store multiple values when it is of the type Variable. |
| `isInput` | **Field Type**<br>boolean<br>**Description**<br>Indicates whether a parameter can be used as an input outside the loyalty program process. |
| `isOutput` | **Field Type**<br>boolean<br>**Description**<br>Indicates whether a parameter can be used as an output outside the loyalty program process. |
| `objectName` | **Field Type**<br>string<br>**Description**<br>Name of the object whose records are stored by the parameter when it is of the type Variable and data type sObject. |

| Field Name | Description |
| --- | --- |
| `parameterName` | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of the parameter. |
| `parameterType` | **Field Type**<br>LoyaltyPgmProcParmType (enumeration of type string)<br>**Description**<br>The type of value the parameter can store.<br>Possible values are:<br>• `Constant`<br>• `Formula`<br>• `Variable` |
| `value` | **Field Type**<br>string<br>**Description**<br>The value of the parameter when it is of the type Variable or Formula and isn't of the data type sObject. |

## LoyaltyProgramProcessCondition

Represents a collection of fields relating to a condition. Conditions filter records that parameters store or check whether child actions must be triggered for a transaction journal.

| Field Name | Description |
| --- | --- |
| `conditionCriteria` | **Field Type**<br>string<br>**Description**<br>Required.<br>The criteria that determine when the condition is met by a record or by a transaction journal. |
| `conditionFilterCriteria` | **Field Type**<br>LoyaltyProgramProcessConditionFilterCriteria[] on page 597<br>**Description**<br>The filter criteria that determines which records or transaction journals are filtered. |

| Field Name | Description |
| --- | --- |
| `conditionName` | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of the condition. |

## LoyaltyProgramProcessConditionFilterCriteria

Represents a collection of fields relating to a filter criteria that's part of a condition. Multiple filter criteria can be added for a condition. Filter criteria determine which records are filtered by related condition.

| Field Name | Description |
| --- | --- |
| `operator` | **Field Type**<br>LoyaltyPgmProcCondOperator (enumeration of type string)<br>**Description**<br>Required.<br>The operator of the filter criteria.<br>Possible values are:<br>• `Contains`<br>• `DoesNotContain`<br>• `EndsWith`<br>• `Equals`<br>• `GreaterThan`<br>• `GreaterThanOrEquals`<br>• `IsNotNull`<br>• `IsNull`<br>• `LessThan`<br>• `LessThanOrEquals`<br>• `NotEquals`<br>• `StartsWith` |
| `sequence` | **Field Type**<br>int<br>**Description**<br>Required.<br>The sequence number of the filter criteria within a condition. |

| Field Name | Description |
| --- | --- |
| `sourceFieldName` | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of the field used in the filter criteria. |
| `value` | **Field Type**<br>string<br>**Description**<br>The value of the filter criteria. |
| `valueType` | **Field Type**<br>LoyaltyPgmProcCondType (enumeration of type string)<br>**Description**<br>Required.<br>The type of value specified in the filter criteria.<br>Possible values are:<br>• `Formula`<br>• `Literal`<br>• `Lookup`<br>• `Parameter` |

## LoyaltyProgramProcessRule

Represents a collection of fields relating to a rule. A rule consists of a set of conditions and actions.

| Field Name | Description |
| --- | --- |
| `actions` | **Field Type**<br>LoyaltyProgramProcessAction[] on page 600<br>**Description**<br>The actions associated with the rule. |
| `conditions` | **Field Type**<br>LoyaltyProgramProcessCondition[] on page 596<br>**Description**<br>The conditions associated with the rule. |
| `description` | **Field Type**<br>string |

| Field Name | Description |
| --- | --- |
| | **Description**<br>The description of the rule. |
| `endDate` | **Field Type**<br>date<br>**Description**<br>The date until which the rule processes transaction journals. |
| `previousRule` | **Field Type**<br>string<br>**Description**<br>The rule that processes new transaction journals before the current rule. The current rule is triggered when the previous rule completes processing transaction journals. |
| `promotion` | **Field Type**<br>string<br>**Description**<br>The promotion associated with the rule. When a promotion is associated with a rule, the start date, end date, and status of the promotion determines the corresponding fields of the rule. |
| `ruleName` | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of the rule. |
| `startDate` | **Field Type**<br>date<br>**Description**<br>The date from which the rule starts processing transaction journals. |
| `status` | **Field Type**<br>LoyaltyPgmProcRuleStatus (enumeration of type string)<br>**Description**<br>The status of the rule.<br>Possible values are:<br>• `Active`<br>• `Draft`<br>• `Inactive` |

| Field Name | Description |
|---|---|
| `stepMappings` | **Field Type**<br>LoyaltyProgramProcessRuleStepMapping[] on page 604<br>**Description**<br>The list of step mappings associated with rule. |

## LoyaltyProgramProcessAction

Represents a collection of fields relating to an action.

| Field Name | Description |
|---|---|
| `actionName` | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of the action. |
| `actionParameters` | **Field Type**<br>LoyaltyProgramProcessActionParameter[] on page 603<br>**Description**<br>The parameters of the action. |
| `actionType` | **Field Type**<br>LoyaltyPgmProcActionType (enumeration of type string)<br>**Description**<br>Required.<br>The type of action.<br>Possible values are:<br>• These values are used in Loyalty Management:<br>– `AssignParameterValues`—Assigns values to parameters.<br>– `AssignBadgeToMember`—Assigns a badge to a loyalty program member. This value is available in API version 56.0 and later.<br>– `Crud`—Creates or updates records in the target object. This value is available in API version 56.0 and later.<br>– `CheckMemberBadgeAssignment`—Checks whether a badge is assigned to a loyalty program member. This value is available in API version 56.0 and later.<br>– `ChangeMemberTier`—Changes the tier of a loyalty program member. This value is available in API version 56.0 and later.<br>– `CreditPoints`—Credits points to the loyalty program member associated with the transaction journal that's processed by the rule. |

| Field Name | Description |
| --- | --- |
| | – `DebitPoints`—Debits points from the points balance of the loyalty program member associated with the transaction journal that's processed by the rule.<br>– `GetMemberAttributesValues`—Gets the details of a loyalty program member's attribute value for the selected engagement attribute. This value is available in API version 55.0 and later.<br>– `GetMemberPointBalance`—Gets the points balance of a loyalty program member.<br>– `GetMemberPromotions`—Get promotions of a loyalty program member. This value is available in API version 56.0 and later.<br>– `GetMemberTier`—Gets the tier details of a loyalty program member.<br>– `GetOutputsFromDecisionTable`—Gets outputs provided by a decision table. This value is available in API version 56.0 and later.<br>– `IncreaseUsageForCumulativePromotion`—Increases a loyalty program member's usage for a cumulative promotion.<br>– `IssueVoucher`—Issues a voucher to the loyalty program member associated with the transaction journal that's processed by the rule.<br>– `RedeemVoucher`—Redeems a voucher for the loyalty program member associated with the transaction journal that's processed by the rule. This value is available in API version 58.0 and later.<br>– —Updates the loyalty program member's usage towards achieving a cumulative promotion by a specified value.<br>– `RunFlow`—Runs a flow.<br>– `RunProgramProcess`—Runs an active loyalty program process as a subprocess. This value is available in API version 56.0 and later.<br>– `SendMail`—Sends emails to the loyalty program member for whom the process is run. This value is available in API version 59.0 and later.<br>– `UpdateCurrentValueForMemberAttribute`—Updates the loyalty program member's current attribute value for the selected engagement attribute. This value is available in API version 55.0 and later.<br>– `UpdatePointBalance`—Updates the points balance of the loyalty program member associated with the transaction journal that's processed by the rule.<br>– `UpdateUsageForCumulativePromotion`—Updates a loyalty program member's usage for a cumulative promotion.<br>• These values are used in Referral Marketing:<br>– `AssignParameterValues`—Assigns values to parameters.<br>– `Crud`—Creates or updates records in the target object.<br>– `GetMemberAttributesValues`—Gets the details of an advocate's attribute value for the selected engagement attribute.<br>– `GetMemberPromotions`—Gets the promotions of an advocate. |

| Field Name | Description |
| --- | --- |
| | – `GetOutputsFromDecisionTable`—Gets outputs provided by a decision table.<br>– `IssueExtendedReward`—Issues an extended reward to an advocate or a referred friend. This value is available in API version 64.0 and later.<br>– `IssueVoucher`—Issues a voucher to an advocate or a referred friend.<br>– `RedeemVoucher`—Redeems a voucher for an advocate or a friend.<br>– `SendMail`—Sends emails to a referral program's advocates and referrals.<br>– `UpdateCurrentValueForMemberAttribute`—Updates an advocate's current attribute value for the selected engagement attribute.<br>• These values are reserved for internal use:<br>– `GetCustomerPromotionAttrValue`—This value is available in API version 64.0 and later.<br>– `UpdateCustomerPromotionAttrValue`—This value is available in API version 64.0 and later. |
| `crudActionType` | **Field Type**<br>LoyaltyPgmProcCrudActType (enumeration of type string)<br>**Description**<br>The type of operation to perform on target object records by the action. This field is available from API version 56.0 and later.<br>Note: This field is required when the `actionType` field value is `CRUD`.<br>Possible values are:<br>• `create`<br>• `update` |
| `decisionTable` | **Field Type**<br>string<br>**Description**<br>The decision that's invoked by the action for the transaction journal that's processed by the rule. |
| `decisionTableDatasetLink` | **Field Type**<br>string<br>**Description**<br>The dataset link associated with the selected decision table. |
| `entityApiName` | **Field Type**<br>string<br>**Description**<br>The API name of the target object. This field is available from API version 56.0 and later. |

| Field Name | Description |
| --- | --- |
| | Note: This field is required when the `actionType` field value is `CRUD`. |
| `flowDefinition` | **Field Type**<br>string<br>**Description**<br>The flow that's run by the action for the transaction journal that's processed by the rule. The selected flow must be of the type LoyaltyManagementFlow. |
| `loyaltyProgramProcess` | **Field Type**<br>string<br>**Description**<br>The subprogram processes that's run by the action. This field is available from API version 56.0 and later.<br>Note: This field is required when the `actionType` field value is `RunProgramProcess`. |

## LoyaltyProgramProcessActionParameter

Represents a collection of fields relating to an action parameter. A parameter is either an input or an output for the action. Input parameters store the values used by the action. Output parameters store the result of the action.

| Field Name | Description |
| --- | --- |
| `operator` | **Field Type**<br>LoyaltyPgmProcActParamOper (enumeration of type string)<br>**Description**<br>The type of operator used in the action. This field is available in API version 56.0 and later.<br>Possible value is:<br>• `Equals` |
| `parameterName` | **Field Type**<br>string<br>**Description**<br>Required.<br>The name of parameter. The parameter name must be the same as the input or the output field that's supported depending on the associated action's type. |
| `sequenceNumber` | **Field Type**<br>int |

| Field Name | Description |
| --- | --- |
| | **Description**<br>The sequence number of the parameter in the action. This field is available in API version 56.0 and later. |
| `value` | **Field Type**<br>string<br>**Description**<br>Required.<br>The value of the parameter. |
| `valueType` | **Field Type**<br>LoyaltyPgmProcActParamType (enumeration of type string)<br>**Description**<br>The type of value to provide in the parameter. This field is available in API version 56.0 and later.<br>Possible values are:<br>• `Literal`—A constant value.<br>• `Parameter`—A runtime value passed using a parameter. |

## LoyaltyProgramProcessRuleStepMapping

Represents a collection of fields relating to a step mapping. Map conditions with child actions or map an action without a parent step.

| Field Name | Description |
| --- | --- |
| `associatedStep` | **Field Type**<br>string<br>**Description**<br>Required.<br>The action that's associated with the mapping. |
| `parentStep` | **Field Type**<br>string<br>**Description**<br>The condition that contains one or more child actions. |
| `sequence` | **Field Type**<br>int<br>**Description**<br>Required. |

| Field Name | Description |
| --- | --- |
| | The sequence number of the mapping within a rule. |

## Declarative Metadata Sample Definition

The following is an example of a LoyaltyProgramSetup component.

```
<?xml version="1.0" encoding="UTF-8"?>
<LoyaltyProgramSetup xmlns="http://soap.sforce.com/2006/04/metadata">
    <label>Cloud Kicks Inner Circle</label>
    <programProcesses>
        <executionType>RealTime</executionType>
        <parameters>
            <dataType>Numeric</dataType>
            <decimalPlaces>0</decimalPlaces>
            <isCollection>false</isCollection>
            <isInput>false</isInput>
            <isOutput>false</isOutput>
            <parameterName>VoucherValue</parameterName>
            <parameterType>Constant</parameterType>
            <value>50</value>
        </parameters>
        <processName>Issue Vouchers</processName>
        <processType>Transaction Journal</processType>
        <rules>
            <actions>
                <actionName>Issue High Transaction Value Voucher</actionName>
                <actionParameters>
                    <operator>Equals</operator>
                    <parameterName>VoucherDefinitionName</parameterName>
                    <sequenceNumber>1</sequenceNumber>
                    <value>Voucher for High Value Transactions</value>
                    <valueType>Literal</valueType>
                </actionParameters>
                <actionParameters>
                    <operator>Equals</operator>
                    <parameterName>VoucherCode</parameterName>
                    <sequenceNumber>2</sequenceNumber>
                    <value>{!TransactionJournal.Order.Id}</value>
                </actionParameters>
                <actionParameters>
                    <operator>Equals</operator>
                    <parameterName>VoucherEffectiveDate</parameterName>
                    <sequenceNumber>3</sequenceNumber>
                    <value>DATEVALUE(&quot;2021-11-21 00:00:00&quot;)</value>
                </actionParameters>
                <actionParameters>
                    <operator>Equals</operator>
                    <parameterName>VoucherExpirationDate</parameterName>
                    <sequenceNumber>4</sequenceNumber>
                    <value>DATEVALUE(&quot;2022-01-01 00:00:00&quot;)</value>
                </actionParameters>
```

```
                <actionParameters>
                    <operator>Equals</operator>
                    <parameterName>VoucherFaceValue</parameterName>
                    <sequenceNumber>5</sequenceNumber>
                    <value>{!VoucherValue}</value>
                </actionParameters>
                <actionType>IssueVoucher</actionType>
            </actions>
            <conditions>
                <conditionCriteria>1</conditionCriteria>
                <conditionFilterCriteria>
                    <operator>GreaterThanOrEquals</operator>
                    <sequence>1</sequence>
                  <sourceFieldName>TransactionJournal.TransactionAmount</sourceFieldName>

                    <value>100</value>
                    <valueType>Literal</valueType>
                </conditionFilterCriteria>
                <conditionName>New Condition</conditionName>
                <conditionType>Condition</conditionType>
            </conditions>
            <endDate>2022-01-01</endDate>
            <ruleName>Issue Voucher for Transactions Above $100</ruleName>
            <startDate>2021-11-21</startDate>
            <status>Draft</status>
            <stepMappings>
                <associatedStep>New Condition</associatedStep>
                <sequence>1</sequence>
            </stepMappings>
            <stepMappings>
                <associatedStep>Issue High Transaction Value Voucher</associatedStep>
                <parentStep>New Condition</parentStep>
                <sequence>1</sequence>
            </stepMappings>
        </rules>
        <status>Draft</status>
    </programProcesses>
</LoyaltyProgramSetup>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
   ~ Copyright 2020 Salesforce, Inc.
   ~ All Rights Reserved
   ~ Company Confidential
-->
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
   <types>
      <members>*</members>
      <name>LoyaltyProgramSetup</name>
   </types>
   <version>54.0</version>
</Package>
```

Note: To retrieve metadata specific to any loyalty program, mention the loyalty program name in the <members> tag. The generated file contains all the information regarding that loyalty program.

## Wildcard Support in the Manifest File

This metadata type supports the wildcard character `*` (asterisk) in the `package.xml` manifest file. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# Settings

Represents the organization settings to control the update of non-qualifying points balance for members when points are credited. For more information, see **Settings**.

IndustriesGamificationSettings
Represents the settings to enable games in Loyalty Management.

IndustriesLoyaltySettings
Represents the settings to enable capabilities of Loyalty Management.

IndustriesUnifiedPromotionsSettings
Represents the settings to Global Promotions Management.

# IndustriesGamificationSettings

Represents the settings to enable games in Loyalty Management.

This type extends the Metadata metadata type and inherits its `fullName` field.

In the package manifest, all organization settings metadata types are accessed using the Settings name. See Settings for more details.

## File Suffix and Directory Location

IndustriesGamificationSettings values are stored in a single file named `IndustriesGamification.settings` in the `settings` folder. The `.settings` files are different from other named components because there's only one settings file for each settings component.

## Version

IndustriesGamificationSettings components are available in API version 60.0 and later.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `enableGamification` | boolean | Indicates whether the capability to offer games to loyalty program members as program reward is enabled (`true`) or disabled (`false`) for your org. The default value is `false`. |

## Declarative Metadata Sample Definition

The following is an example of a IndustriesGamificationSettings component.

```
<?xml version="1.0" encoding="UTF-8"?>
<IndustriesGamificationSettings xmlns="http://soap.sforce.com/2006/04/metadata">
    <enableGamification>true</enableGamification>
</IndustriesGamificationSettings>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
  <types>
    <members>IndustriesGamification</members>
    <name>Settings</name>
  </types>
  <version>60.0</version>
</Package>
```

## Wildcard Support in the Manifest File

The wildcard character `*` (asterisk) in the `package.xml` manifest file doesn't apply to metadata types for feature settings. The wildcard applies only when retrieving all settings, not for an individual setting. For details, see Settings. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# IndustriesLoyaltySettings

Represents the settings to enable capabilities of Loyalty Management.

This type extends the Metadata metadata type and inherits its `fullName` field.

In the package manifest, all organization settings metadata types are accessed using the Settings name. See Settings for more details.

## File Suffix and Directory Location

IndustriesLoyaltySettings values are stored in a single file named `IndustriesLoyalty.settings` in the `settings` folder. The `.settings` files are different from other named components because there's only one settings file for each settings component.

## Version

IndustriesLoyaltySettings components are available in API version 53.0 and later.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| enableAutomaticMemberTierAssessmentSelection | boolean | Indicates whether the capability that automatically selects members as eligible for tier assessment when members' qualifying points balance changes is enabled (`true`) or disabled (`false`) for your org. The default value is `false`. This field is available in API version 58.0 or later. |

| Field Name | Field Type | Description |
|---|---|---|
| enableAutomaticVoucherCodeGeneration | boolean | Indicates whether the capability to automatically generate voucher codes is enabled (`true`) or not (`false`). This field is available in API version 57.0 and later. |
| enableConfigureClubs | boolean | Indicates whether the capability to create and manage clubs is enabled (`true`) or not (`false`). The default value is `false`. This field is available in API version 64.0 or later. |
| enableFixedTypeNQPAggregation | boolean | Indicates whether the capability to aggregate and expire fixed type non-qualifying points in batches is enabled (`true`) or disabled (`false`) for your org. The default value is `true`. This field is available in API version 54.0 or later. |
| enableLoyaltyApiAccessForExternalSiteUsers | boolean | Indicates whether the capability that allows customers to join and leave loyalty programs and allows members to join and opt out of promotions from Experience Cloud sites is enabled (`true`) or disabled (`false`) for your org. The default value is `false`. This field is available in API version 58.0 or later. |
| enableLoyaltyGenerativeAi | boolean | Indicates whether the Einstein AI capabilities of Loyalty Management are enabled (`true`) or not (`false`). The default value is `false`. This field is available in API version 62.0 or later. |
| enableLoyaltyRedeemedPointsExpirationInfoPref | boolean | Indicates whether the capability that automatically calculates and adds the expiration date of points credited back to members for canceled redemptions is enabled (`true`) or disabled (`false`) for your org. The default value is `true`. This field is available in API version 55.0 or later. |
| enableLoyaltyRulesVerifyCdpMemberSegment | boolean | Indicates whether the capability that allows:<br>• Loyalty program process rules to process transaction journals only when the loyalty program member is part of a Data Cloud segment associated with the rule's promotion is enabled (`true`) or disabled (`false`) for your org.<br>• The Promotion Eligibility component on Loyalty Program Member record page to categorize promotions based on whether the member belongs to the promotion's campaign or Data Cloud segment is enabled (`true`) or disabled (`false`) for your org.<br>The default value is `false`. This field is available in API version 55.0 or later. |
| enableLoyaltyServiceExcellence | boolean | Indicates whether Service Console for Loyalty Management is enabled (`true`) or disabled (`false`) for your org. The default value is `false`. This field is available in API version 57.0 or later. |
| enableNegativePointBalance | boolean | Indicates whether the capability that lets loyalty program members to hold negative point balances for non-qualifying currencies is enabled (`true`) or disabled (`false`) for your org. The default value is `false`. This field is available in API version 61.0 or later. |

| Field Name | Field Type | Description |
|---|---|---|
| enableNonQualifyingPointsConsolidation | boolean | Indicates whether the capability to aggregate and expire fixed type non-qualifying points in real time is enabled (`true`) or disabled (`false`) for your org. The default value is `true`. This field is available in API version 58.0 or later. |
| enablePointsLifecycleTracking | boolean | Indicates whether the capability that allows the company to trace how members redeem their accrued fixed-model non-qualifying points is enabled (`true`) or disabled (`false`) for your org. The default value is `false`. This field is available in API version 62.0 or later. |
| enablePromSetupProcRuleStatusInheritDplymt | boolean | Indicates whether the capability, which allows Promotion Setup processes and rules to be deployed to target orgs in the same status as the source orgs when using the LoyaltyProgramSetup metadata type, is enabled (`true`) or disabled (`false`). The default value is `false`. This field is available in API version 62.0 or later. |
| enableQPRealTimePointBalance | boolean | Indicates whether the real time qualifying points balance update capability is enabled (`true`) or disabled (`false`) for your org. The default value is `true`. This field is available in API version 55.0 or later. |
| enableNQPRealTimePointBalance | boolean | Indicates whether the capability to update the non-qualifying point balance of members in real time is enabled (`true`) or disabled (`false`) for your org. The default value is `true`. |
| enableSegmentQueryApiMultipleDataSpace | boolean | Indicates whether the capability that allows Query API to verify the Data Cloud segments that customers are part of across multiple data spaces is enabled (`true`) or not (`false`). The default value is `false`. This field is available in API version 64.0 or later. |
| enableSegmentQueryByDataGraph | boolean | Indicates whether the capability, which uses Data Cloud data graphs to query for Data Cloud segments that customers are part of, is enabled (`true`) or disabled (`false`). The default value is `false`. This field is available in API version 62.0 or later. |
| enableTransferPointsToMemberGroupsRealtime | boolean | Indicates whether the capability that automates real-time transfer of a member's non-qualifying points to associated group is enabled (`true`) or not (`false`). The default value is `false`. This field is available in API version 64.0 or later. |
| enableUsePromPtyUsageForEngmtTrail | boolean | Indicates whether the capability that uses Promotion Party Usage records to store attributes for Engagement Trail promotions is enabled (`true`) or not (`false`). The default value is `true`. This field is available in API version 64.0 or later. |

## Declarative Metadata Sample Definition

The following is an example of a IndustriesLoyaltySettings component.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<IndustriesLoyaltySettings xmlns="http://soap.sforce.com/2006/04/metadata">
    <enableNQPRealTimePointBalance>true</enableNQPRealTimePointBalance>
    <enableFixedTypeNQPAggregation>true</enableFixedTypeNQPAggregation>
    <enableQPRealTimePointBalance>true</enableQPRealTimePointBalance>

<enableLoyaltyRulesVerifyCdpMemberSegment>false</enableLoyaltyRulesVerifyCdpMemberSegment>


<enableLoyaltyRedeemedPointsExpirationInfoPref>true</enableLoyaltyRedeemedPointsExpirationInfoPref>

    <enableLoyaltyServiceExcellence>true</enableLoyaltyServiceExcellence>
    <enableAutomaticVoucherCodeGeneration>true</enableAutomaticVoucherCodeGeneration>

<enableLoyaltyApiAccessForExternalSiteUsers>false</enableLoyaltyApiAccessForExternalSiteUsers>


<enableAutomaticMemberTierAssessmentSelection>false</enableAutomaticMemberTierAssessmentSelection>

   <enableNonQualifyingPointsConsolidation>false</enableNonQualifyingPointsConsolidation>

    <enablePointsLifecycleTracking>false</enablePointsLifecycleTracking>
    <enableNegativePointBalance>false</enableNegativePointBalance>
    <enableSegmentQueryByDataGraph>false</enableSegmentQueryByDataGraph>

<enablePromSetupProcRuleStatusInheritDplymt>false</enablePromSetupProcRuleStatusInheritDplymt>

    <enableLoyaltyGenerativeAi>false</enableLoyaltyGenerativeAi>

<enableTransferPointsToMemberGroupsRealtime>false</enableTransferPointsToMemberGroupsRealtime>

    <enableUsePromPtyUsageForEngmtTrail>false</enableUsePromPtyUsageForEngmtTrail>
    <enableSegmentQueryApiMultipleDataSpace>true</enableSegmentQueryApiMultipleDataSpace>

    <enableConfigureClubs>true</enableConfigureClubs>
</IndustriesLoyaltySettings>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
  <types>
    <members>IndustriesLoyalty</members>
    <name>Settings</name>
  </types>
  <version>53.0</version>
</Package>
```

## Wildcard Support in the Manifest File

The wildcard character `*` (asterisk) in the `package.xml` manifest file doesn't apply to metadata types for feature settings. The wildcard applies only when retrieving all settings, not for an individual setting. For details, see Settings. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# IndustriesUnifiedPromotionsSettings

Represents the settings to Global Promotions Management.

This type extends the Metadata metadata type and inherits its `fullName` field.

In the package manifest, all organization settings metadata types are accessed using the Settings name. See Settings for more details.

## File Suffix and Directory Location

IndustriesUnifiedPromotionsSettings values are stored in a single file named `IndustriesUnifiedPromotions.settings` in the `settings` folder. The `.settings` files are different from other named components because there's only one settings file for each settings component.

## Version

IndustriesUnifiedPromotionsSettings components are available in API version 60.0 and later.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| enableGlobalPromotionsEvaluation | boolean | Indicates whether promotions evaluation is enabled (`true`) or disabled (`false`) in your org. The default value is `false`. When enabled, the system evaluates cart details and returns the adjusted price of the cart and line items after applying eligible promotions. Available in API version 65.0 or later. |
| enableGlobalPromotionsProductCatalogManagement | boolean | Indicates whether Product Catalog Management is enabled (`true`) or disabled (`false`) in your org. The default value is `false`. Available in API version 62.0 or later. |
| enableUnifiedPromotions | boolean | Indicates whether Global Promotions Management is enabled (`true`) or disabled (`false`) for your org. The default value is `true`. |

## Declarative Metadata Sample Definition

The following is an example of a IndustriesGamificationSettings component.

```
<?xml version="1.0" encoding="UTF-8"?><IndustriesUnifiedPromotionsSettings
xmlns="http://soap.sforce.com/2006/04/metadata">
    <enableUnifiedPromotions>true</enableUnifiedPromotions>

<enableGlobalPromotionsProductCatalogManagement>true</enableGlobalPromotionsProductCatalogManagement>

    <enableGlobalPromotionsEvaluation>true</enableGlobalPromotionsEvaluation>
</IndustriesUnifiedPromotionsSettings>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
  <types>
    <members>IndustriesUnifiedPromotions</members>
    <name>Settings</name>
  </types>
  <version>65.0</version>
</Package>
```

## Wildcard Support in the Manifest File

The wildcard character `*` (asterisk) in the `package.xml` manifest file doesn't apply to metadata types for feature settings. The wildcard applies only when retrieving all settings, not for an individual setting. For details, see Settings. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# CHAPTER 10 Loyalty Management Tooling API Objects

In this chapter ...


- BenefitAction


Tooling API exposes metadata used in developer tooling that you can access through REST or SOAP. Tooling API's SOQL capabilities for many metadata types allow you to retrieve smaller pieces of metadata. For more information about Tooling API objects and to find a complete reference of all the supported objects, see **Introducing Tooling API**.

# BenefitAction

Represents details of an action that can be triggered for a benefit. This object is available in API version 51.0 and later.

Note: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

## Supported SOAP API Calls

`create()`, `delete()`, `describeSObjects()`, `query()`, `retrieve()`, `update()`, `upsert()`

## Supported REST API Methods

`DELETE, GET, HEAD, PATCH, POST, Query`

## Special Access Rules

To use this object, the Loyalty Management license is required.

## Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>textarea<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The description of the benefit action. |
| `DeveloperName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The unique name of the object in the API. This name can contain only underscores and alphanumeric characters, and must be unique in your org. It must begin with a letter, not include spaces, not end with an underscore, and not contain two consecutive underscores. In managed packages, this field prevents naming conflicts on package installations. With this field, a developer can change the object's name in a managed package and the changes are reflected in a subscriber's organization. This field is automatically generated, but you can supply your own value if you create the record using the API.<br>When creating large sets of data, always specify a unique `DeveloperName` for each record. If no `DeveloperName` is specified, performance may slow while Salesforce generates one for each record. |

| Field | Details |
| --- | --- |
| `FlowDefinition` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The ID of the flow associated with the benefit action. The possible values depend on the flows defined in the org. |
| `FlowInstance` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The flow associated with the benefit action. |
| `FullName` | **Type**<br>string<br>**Properties**<br>Create, Group, Nillable<br>**Description**<br>The full name of the associated in Metadata API.<br>Query this field only if the query result contains no more than one record. Otherwise, an error is returned. If more than one record exists, use multiple queries to retrieve the records. This limit protects performance. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the benefit action is active.<br>The default value is `false`. |
| `IsBenefitExpirationAllowed` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the benefit action is allowed to expire the benefit.<br>The default value is `false`. |

| Field | Details |
| --- | --- |
| `IsBenefitUpdateAllowed` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the benefit action is allowed to update the benefit.<br>The default value is `false`. |
| `Language` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The language of the benefit action. |
| `ManageableState` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Indicates the manageable state of the specified component that is contained in a package.<br>Possible values are:<br>• `beta`—Managed-Beta<br>• `deleted`—Managed-Proposed-Deleted<br>• `deprecated`—Managed-Proposed-Deprecated<br>• `deprecatedEditable`—SecondGen-Installed-Deprecated<br>• `installed`—Managed-Installed<br>• `installedEditable`—SecondGen-Installed-Editable<br>• `released`—Managed-Released<br>• `unmanaged`—Unmanaged |
| `MasterLabel` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The UI label of the benefit action. |
| `MemberBenefitVariableName` | **Type**<br>string |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the input variable that stores the member benefit ID in the flow specified for the benefit action. The field is available in API version 52.0 and later. |
| `Metadata` | **Type**<br>BenefitAction<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>Provides access to the associated metadata type and related fields in Tooling API.<br>Query this field only if the query result contains no more than one record. Otherwise, an error is returned. If more than one record exists, use multiple queries to retrieve the records. This limit protects performance. |
| `NamespacePrefix` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The namespace prefix that is associated with this object. Each Developer Edition org that creates a managed package has a unique namespace prefix. Limit: 15 characters. You can refer to a component in a managed package by using the ***`namespacePrefix__componentName`*** notation. |
| `ProcessType` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>The process type of the benefit action.<br>Possible value is:<br>• `Loyalty`<br>The default value is `Loyalty`. |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Restricted picklist, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The type of the benefit action.<br>Possible value is:<br>• `Flow`<br>The default value is `Flow`. |

# CHAPTER 11 Loyalty Management Mobile SDK

In this chapter ...


- What to Expect from Loyalty Management Mobile SDK
- Supported Versions of Tools and Components
- Supported DateTime Format
- Getting Started with Loyalty Management Mobile SDK
- Loyalty Management Mobile SDK for iOS Development
- Loyalty Management Mobile SDK for Android Development
- Loyalty Management Sample App for Mobile SDK
- Receipt Scanning with Loyalty Management Mobile SDK
- Loyalty Management Mobile SDK and Sample App Support
- Upgrade Loyalty Management Mobile SDK for iOS


Elevate your customer experience by providing Loyalty Management on iOS and Android mobile devices. Use Loyalty Management Mobile SDK to engage members or business customers with the brand on iOS and Android mobile channels and enhance brand engagement. The standalone is lightweight and provides customer flexibility, immersive mobile user experience, and a ready to use sample app embedded with Loyalty Management features.

EDITIONS

Available in: all editions that have Loyalty Management enabled

Loyalty Management Mobile SDK delivers customized user experiences and provides developers with the tools to build iOS and Android mobile applications. Developers can use the SDK to produce standalone custom apps that they can distribute the app through the App Store or Google Play Store or embed the SDK in an existing app. If you're building an app from scratch, you can integrate the SDK during the development process. If you have an existing app and want to embed the SDK, modify your code to include the functionality of the SDK. To demonstrate the capabilities of Loyalty Management Mobile SDK, a sample app, which is a reference implementation of the SDK is included with the SDK. Developers can refer to these sample apps to understand the usage and best practices while building their own apps. Developers can also reuse the sample app source code that's included within the SDK and extend the code as required. The SDK is designed to work with your existing mobile app infrastructure, and provides a smooth integration process. Whether you build a new app or embed the SDK in an existing app, the SDK helps you create an effective mobile application for your loyalty program.

SEE ALSO:

*Salesforce Help*: Receipt Scanning with Loyalty Management Mobile SDK

*Salesforce Help*: Receipt Scanning with Loyalty Management Mobile SDK

# What to Expect from Loyalty Management Mobile SDK

Loyalty Management Mobile SDK helps a loyalty program to engage with their customers through a mobile app. Use the mobile SDK to manage members' profiles, to track transactions, to reward members, and to manage promotions and vouchers. Manage your loyalty rewards and engage with the brand.

The Loyalty Management Mobile SDK comes along with a built-in MyNTORewards sample app, which is a reference implementation of the SDK. With the sample app, you can:

- Enroll in the loyalty program.
- Review and opt in to active promotional offers, or opt out of a promotion.
- View your membership details, points summary, and tier details.
- View your transaction history.
- View and redeem your active vouchers.
- View the benefits of the loyalty program.
- View badges assigned to you.

EDITIONS

Available in: all editions that have Loyalty Management enabled

# Supported Versions of Tools and Components

Loyalty Management Mobile SDK works on iOS 15.0+ and Android Studio Electric Eel 2022.1.1+ versions. Install the tools and components required to set up Loyalty Management Mobile SDK

EDITIONS

Available in: all editions that have Loyalty Management enabled

## iOS

| Tool or Component | Supported Version | Installation Details |
|---|---|---|
| Swift Version | 5.7+ | Installed by Xcode |
| Xcode | 14.0+ | Install from the App Store |
| iOS SDK | 15.0+ | Installed by Xcode |
| Swift Package Manager | 5.7+ | Included in Swift |

## Android

| Tool or Component | Supported Version | Installation Details |
|---|---|---|
| Android Studio Electric Eel | 2022.1.1+ | Install from the Android Developer site |
| Android SDK and APIs | 8.0+ (API level 26+) | Install from the Android Developer site |
| Android SDK Tools | 8.0+ | Install from the Android Developer site |
| Android Virtual Device | 8.0+ | Install from Android Studio |
| Kotlin | 1.8.0+ | Installed by Android Studio |

# Supported DateTime Format

Use the `yyyy-MM-dd'T'HH:mm:ss.SSSZ` format to specify dateTime fields. Currently, the Loyalty Management Mobile SDK doesn't support defining custom datetime formats.

- yyyy is the four-digit year
- MM is the two-digit month (01-12)
- dd is the two-digit day (01-31)
- T is a separator indicating that time-of-day follows
- HH is the two-digit hour (00-23)
- mm is the two-digit minute (00-59)
- ss is the two-digit seconds (00-59)
- SSS is the optional three-digit milliseconds (000-999)
- Z is the reference UTC timezone

EDITIONS

Available in: all editions that have Loyalty Management enabled

# Getting Started with Loyalty Management Mobile SDK

Prepare to install the Loyalty Management Mobile SDK, to create a connected app, and then to set up your experience cloud users' access to the Loyalty Management Mobile SDK.

EDITIONS

Available in: all editions that have Loyalty Management enabled

### Prepare to Install Loyalty Management Mobile SDK

Prepare your org before you install Loyalty Management Mobile SDK. Before you install Loyalty Management Mobile SDK, ensure you have a Salesforce org that has Loyalty Management and Experience Cloud enabled.

### Create a Connected App to Integrate with Loyalty Management

Create a connected app for Loyalty Management Mobile SDK to request access to Salesforce APIs and to enable secure integration with the APIs. For a connected app to request access, integrate the app with the Salesforce API by using the OAuth 2.0 protocol.

### Prepare Experience Cloud Users for Loyalty Management Mobile SDK

Prepare your Experience Cloud user before you install Loyalty Management Mobile SDK. To register or log in to the sample app for Loyalty Management Mobile SDK, it's recommended that you set up Experience Cloud for your loyalty program member profile.

# Prepare to Install Loyalty Management Mobile SDK

Prepare your org before you install Loyalty Management Mobile SDK. Before you install Loyalty Management Mobile SDK, ensure you have a Salesforce org that has Loyalty Management and Experience Cloud enabled.

1. Get a Salesforce Developer Edition organization that has Loyalty Management enabled.
2. To use another program, modify the program name in the Loyalty Management Mobile SDK configuration file.
3. Create an Experience Cloud site user profile for your loyalty program. See Create Community User Profile.
4. Create a connected app on page 623 and enable an external application to integrate with Salesforce by using APIs and standard protocols.
5. Create and activate loyalty program processes and process rules for GetMemberPromotions, EnrollInPromotion, and OptOutFromPromotion APIs. See Create Loyalty Program Processes by Using Promotion Setup.
6. Access the Loyalty Management Mobile SDK API References for iOS on page 641 and Loyalty Management Mobile SDK API References for Android on page 683.
7. Review iOS and Android Native requirements, see Development Prerequisites for iOS and Android.
8. Install the required iOS and Android software. See iOS Basic Requirements and Native Android Requirements.
9. To set up the Loyalty Management Sample App for Mobile SDK in Android Studio, see Setting Up Sample Projects in Android Studio.

EDITIONS

Available in: all editions that have Loyalty Management enabled

USER PERMISSIONS

To enable experience cloud:
- Customize Application

To read, create, update, or delete connected apps:
- Customize Application

  AND

  Modify All Data

  OR

  Manage Connected Apps

To create a loyalty program process:
- Loyalty Management

# Create a Connected App to Integrate with Loyalty Management

Create a connected app for Loyalty Management Mobile SDK to request access to Salesforce APIs and to enable secure integration with the APIs. For a connected app to request access, integrate the app with the Salesforce API by using the OAuth 2.0 protocol.

1. From your Salesforce org, in the Quick Find box in Setup, enter *Apps*, and then select **App Manager**.
2. Under Connected Apps, click **New Connected App**.
3. Under Basic Information, enter these values.
   - Connected App Name: Name of your connected app.
   - API Name: Keep the default API name, which is automatically filled based on the connected app name.
   - Contact Email: Your email address.
4. Under API (Enable OAuth Settings), select **Enable OAuth Settings**.
5. In the Callback URL, enter a URL where Salesforce can send OAuth2 responses.
6. Add these scopes to the Selected OAuth Scopes list.
   - Access the identity URL service (id, profile, email, address, phone)
   - Access Visualforce applications (visualforce)

EDITIONS

Available in: all editions that have Loyalty Management enabled

USER PERMISSIONS

To read, create, update, or delete connected apps:
- Customize Application

  AND

  Modify All Data

  OR

  Manage Connected Apps

- Manage user data via APIs (api)
- Perform requests at any time (refresh_token, offline_access)

7. Select **Enable Authorization Code and Credential Flow**, and deselect **Require Proof Key for Code Exchange (PKCE) Extension for Supported Authorization Flows**, **Require Secret for Web Server Flow**, and **Require Secret for Refresh Token Flow**.
8. Save the connected app.
9. From Setup, in the Quick Find box, enter `Connected Apps`, and then select **Manage Connected Apps**.
10. Click **Edit** next to the connected app that you're configuring access for.
11. Under OAuth Policies, select **Admin approved users are Pre-authorized** as the permitted users.
12. Select **Relax IP restrictions** as the IP relaxation.
13. Select **Refresh token is valid until revoked** as the refresh token policy.
14. Save your changes.

From the App Manager, for the connected app, click **Manage Consumer Details**, and copy the consumer key and consumer secret. Use these credentials in mobile applications to authenticate with Salesforce APIs.

SEE ALSO:

*Mobile SDK Development Guide*: Create a Connected App

*Mobile SDK Development Guide*: Create a Connected App

# Prepare Experience Cloud Users for Loyalty Management Mobile SDK

Prepare your Experience Cloud user before you install Loyalty Management Mobile SDK. To register or log in to the sample app for Loyalty Management Mobile SDK, it's recommended that you set up Experience Cloud for your loyalty program member profile.

Create a connected app and an Experience Cloud site user for your loyalty program.

1. Enable your Experience Cloud site user to access the connected app.
   a. From Setup, in the Quick Find box, enter `manage connected`, and then select **Manage Connected Apps**.
   b. Click the connected app that you created, and then click **Manage Profiles**.
   c. Select your Experience Cloud site user profile.
   d. Save your changes.
2. Enable the person account record type to the Experience Cloud site user profile.
   a. From Setup, click **Users** > **Profiles**.
   b. Click your Experience Cloud site user profile.
   c. In Record Type Settings, find the Accounts entity, and click **Edit**.
   d. Move the Person Account record type from Available Record Types to Selected Record Types.
   e. Save your changes.
3. Create Loyalty Program Processes for the GetMemberPromotions, EnrollInPromotion, and OptOutFromPromotion APIs.

EDITIONS

Available in: all editions that have Loyalty Management enabled

USER PERMISSIONS

To read, create, update, or delete connected apps:

- Customize Application

  AND

  Modify All Data

  OR

  Manage Connected Apps

To create, edit, and delete profiles:

- Manage Profiles

  AND

  Permission Sets

4. Provide the Experience Cloud site user the permission to join or to opt out of promotions from the Experience Cloud site.
   a. From Setup, in the Quick Find box, enter `Loyalty Management`, and then select **Loyalty Management Settings**.
   b. Turn on Customers and Members Join and Opt Out from Experience Cloud Site.
5. Enable API access for Experience Cloud users.
   a. From Setup, click **Users** > **Profiles**.
   b. Click your Experience Cloud site user profile.
   c. Under Administrative Permissions, select **API Enabled**.
   d. Save your changes.
6. Add permissions for Salesforce Objects.
   a. From Setup, click **Users** > **Profiles**.
   b. Click your Experience Cloud site user profile.
   c. Under Standard Object Permissions, enable permissions for standard objects.
   d. Save your changes.
7. Add the sharing rules.
   a. From Setup, in the Quick Find box, enter `Sharing`, and then select **Sharing Settings**.
   b. Under Sharing Rules, click **New**.
   c. Add rules for Journal Type, Loyalty Program, Loyalty Program Process, Promotion, Voucher, Voucher Definition, and Voucher Code.
   d. Save your changes.

Supported Standard Objects for Experience Cloud Site User Setup

To set up Experience Cloud for your loyalty program member profile, enable permissions for these standard objects.

SEE ALSO:

*Salesforce Help*: Create a Loyalty Program Process

Supported Standard Objects for Experience Cloud Site User Setup

*Salesforce Help*: Create a Loyalty Program Process

Supported Standard Objects for Experience Cloud Site User Setup

## Supported Standard Objects for Experience Cloud Site User Setup

To set up Experience Cloud for your loyalty program member profile, enable permissions for these standard objects.

| Standard Object | Read | Create | Edit |
|---|---|---|---|
| Accounts | ✓ | ✓ | ✓ |
| Contacts | ✓ | ✓ | ✓ |
| Journal SubTypes | ✓ | ✗ | ✗ |

EDITIONS

Available in: all editions that have Loyalty Management enabled

| Standard Object | Read | Create | Edit |
|---|---|---|---|
| Journal Types | ✓ | ✗ | ✗ |
| Loyalty Ledgers | ✓ | ✗ | ✗ |
| Loyalty Member Currency | ✓ | ✗ | ✗ |
| Loyalty Member Tiers | ✓ | ✗ | ✗ |
| Loyalty Program Currencies | ✓ | ✗ | ✗ |
| Loyalty Program Processes | ✓ | ✗ | ✗ |
| Loyalty Tiers | ✓ | ✗ | ✗ |
| Loyalty Tier Groups | ✓ | ✗ | ✗ |
| Member Benefits | ✓ | ✗ | ✗ |
| Promotions | ✓ | ✗ | ✗ |
| Transaction Journals | ✓ | ✗ | ✗ |
| Vouchers | ✓ | ✗ | ✗ |
| Voucher Definitions | ✓ | ✗ | ✗ |

# Loyalty Management Mobile SDK for iOS Development

Loyalty Management Mobile SDK for iOS delivers libraries and sample Xcode project to develop mobile apps on iOS. To create the iOS application, Loyalty Management Mobile SDK for iOS uses the ForceSwift library, which uses SwiftUI to build the user interfaces in iOS apps while interacting with Salesforce.

EDITIONS

Available in: all editions that have Loyalty Management enabled

### Clone and Import Loyalty Management Mobile SDK for iOS

Clone the Loyalty Management Mobile SDK GitHub repository for iOS to create a local copy of the repository on your development machine. The repository contains the code for Loyalty Management Mobile SDK for iOS and the MyNTORewards sample app.

### Loyalty Management Mobile SDK for iOS Classes

Loyalty Management Mobile SDK for iOS classes organize the functionalities and data structures provided by the SDK. When building applications using the SDK, classes provide components, services, or features that you can interact with.

### Loyalty Management Mobile SDK API References for iOS

These API references describe the functions, classes, methods, parameters, and return values of the Loyalty Management Mobile SDK. If your admin has enabled Receipt Make API requests to Salesforce from the POS system to enroll members, view member details, view transactions, manage vouchers, create orders, and accrue and redeem points and vouchers.

# Clone and Import Loyalty Management Mobile SDK for iOS

Clone the Loyalty Management Mobile SDK GitHub repository for iOS to create a local copy of the repository on your development machine. The repository contains the code for Loyalty Management Mobile SDK for iOS and the MyNTORewards sample app.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Clone Mobile SDK for iOS GitHub Repository
   Clone the GitHub repository to copy the code base and revision history of the repository to your local computer.
2. Import SDK into iOS Swift Projects
   After you clone the mobile SDK for iOS repository, import Loyalty Management Mobile SDK in Xcode to automatically download and manage external dependencies.

## Clone Mobile SDK for iOS GitHub Repository

Clone the GitHub repository to copy the code base and revision history of the repository to your local computer.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Go to the Loyalty Management Mobile SDK iOS repository.
2. To copy the repository URL to your clipboard, click **Code**, and then click .
3. Open Terminal, and go to the directory where you want to clone the repository.
4. Enter `git clone https://github.com/salesforce-misc/LoyaltyMobileSDK-iOS`
5. Press Enter and wait for the repository to clone.

You can now set up your own development environment.

## Import SDK into iOS Swift Projects

After you clone the mobile SDK for iOS repository, import Loyalty Management Mobile SDK in Xcode to automatically download and manage external dependencies.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Open your existing app project in Xcode or create an app project.
2. With your app project open in Xcode, select **File** > **Swift Packages** > **Add Package Dependency**.
3. Enter the repository URL:
   `https://github.com/salesforce-misc/LoyaltyMobileSDK-iOS`
4. Select a version, and click **Add Package** and on the confirmation window, click **Add Package**.
5. To import the LoyaltyMobileSDK module into your Swift file, open the swift file where you want to save LoyaltyMobileSDK, and to the first line of code, add `import LoyaltyMobileSDK`.
6. Press Enter or return.

You can now use the classes and structures in the LoyaltyMobileSDK module and API references to manage the features in your application.

Create an App Project in Xcode
If you don't have an existing app project in Xcode, create an app project to import the Loyalty Management Mobile SDK for iOS.

SEE ALSO:
Create an App Project in Xcode
Create an App Project in Xcode

## Create an App Project in Xcode

If you don't have an existing app project in Xcode, create an app project to import the Loyalty Management Mobile SDK for iOS.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Open Xcode, and click **Create a new Xcode project**.
2. Select **iOS** > **App**, and then click **Next**.
3. Enter the product name.
4. Select a team.
5. Select **Storyboard** as the interface and **Swift** as the language.
6. Select **Include Tests**, and then click **Next**.

# Loyalty Management Mobile SDK for iOS Classes

Loyalty Management Mobile SDK for iOS classes organize the functionalities and data structures provided by the SDK. When building applications using the SDK, classes provide components, services, or features that you can interact with.

EDITIONS

Available in: all editions that have Loyalty Management enabled

ForceClient
Create authentication network requests by using the ForceClient class. ForceClient uses ForceAuthenticator, which is a protocol that defines the required methods to handle access tokens in Salesforce API.

Logger
The `Logger` class provides a standardized way to log error, warning, or info messages. Trace the code execution and identify error or debug.

LoyaltyAPIManager
Manage requests related to loyalty program and interactions between the application and the APIs.

NetworkManager
The `NetworkManager` class manages network requests and processing of data. The NetworkManager class conforms to the NetworkManagerProtocol, which defines the set of methods and properties that are used to manage network requests and responses.

## ForceClient

Create authentication network requests by using the ForceClient class. ForceClient uses ForceAuthenticator, which is a protocol that defines the required methods to handle access tokens in Salesforce API.

Use this signature to define the ForceClient class.

```
public class ForceClient
```

## Define Authentication

Handle the authentication process and encapsulate the logic to obtain and refresh the access token. Use this resource and signature to define the auth variable.

```
auth
```

```
public var auth: ForceAuthenticator
```

## Define the Network Manager

Make HTTP requests to the Salesforce server and manage the responses. Use this resource and signature to define the forceNetworkManager variable.

`ForceNetworkManager`

```
public var forceNetworkManager: NetworkManagerProtocol
```

## Create an Instance from Force Authenticator

Create an instance from the ForceAuthenticator, and defines the required methods to handle access tokens in Salesforce API. Use this resource and signature to define the public initializer for the ForceClient class.

`init(auth:forceNetworkManager:)`

```
public init(auth: ForceAuthenticator, forceNetworkManager: NetworkManagerProtocol =
NetworkManager.shared
```

Use the parameters in this table to define an authentication instance.

| Parameters | Description |
|---|---|
| `auth` | A `ForceAuthenticator` instance that defines the required methods to handle access tokens in Salesforce API. |
| `forceNetworkManager` | A `NetworkManagerProtocol` instance that defines the requirements of a network manager. |

## Fetch Authentication Requests

Get all the REST requests for authentication. This request returns a decoded JSON response result. Use this resource and signature to define the fetch request.

`fetch(type:with:urlSession:)`

```
func fetch<T>(type: T.Type, with request: URLRequest, urlSession: URLSession = .shared)
async throws -> T where T : Decodable
```

Use the parameters in this table to create a fetch request.

| Parameters | Description |
|---|---|
| `type` | A type or model of data that you want to decode from the JSON format. |

| Parameters | Description |
| --- | --- |
| `request` | A `URLRequest`, which is executed by `URLSession`. |

## Logger

The `Logger` class provides a standardized way to log error, warning, or info messages. Trace the code execution and identify error or debug.

Use this signature to define the Logger class.

```
public class Logger
```

### Log an Informational Message

Use the message parameter to log an informational message by using this resource and signature.

`info`

```
public static func info(_ message: String)
```

### Log a Debug Message

Use the message parameter to log a debug message by using this resource and signature.

`debug(_:)`

```
public static func debug(_ message: String)
```

### Log an Error Message

Use the message parameter to log an error message by using this resource and signature.

`error(_:)`

```
public static func error(_ message: String)
```

### Log a Faulty Message

Use the message parameter to log a faulty message by using this resource and signature.

`fault(_:)`

```
public static func fault(_ message: String)
```

## LoyaltyAPIManager

Manage requests related to loyalty program and interactions between the application and the APIs.

Use this signature to define the `LoyaltyAPIManager` class.

```
public class LoyaltyAPIManager
```

## Define Authentication

Create an instance of `ForceAuthenticator` for authentication by using this resource and signature.

`auth`

```
public var auth: ForceAuthenticator
```

## Create a Loyalty Program Name

Create a loyalty program name variable by using this resource and signature.

`loyaltyProgramName`

```
public var loyaltyProgramName: String
```

## Create an Instance URL

Provide the base URL of the loyalty program API by using this resource and signature. Base URL is the root address of your Salesforce instance. For example, if the URL in your browser's address bar is `https://na35.salesforce.com/home/home.jsp`, your base URL is `https://na35.salesforce.com`.

`instanceURL`

```
public var instanceURL: String
```

## Initialize the LoyaltyAPIManager Class

Initialize a `LoyaltyAPIManager` that contains the necessary parameters such as auth, loyalty program name, instance URL, and `forceclient` by using this resource and signature.

`init(auth:loyaltyProgramName:instanceURL:forceClient:)`

```
public init(auth: ForceAuthenticator, loyaltyProgramName: String, instanceURL: String,
forceClient: ForceClient)
```

## Sort Requests

Sort the requests by a specific field by using this resource and signature.

`SortBy`

```
public init(auth: ForceAuthenticator, loyaltyProgramName: String, instanceURL: String,
forceClient: ForceClient)
```

Use the parameters in this table to create a sort request.

| Parameter | Definition | Description |
|---|---|---|
| `expirationDate` | `case expirationDate` | Sorts the requests by the expiration date of the authentication token. |
| `effectiveDate` | `case effectiveDate` | Sorts the requests by the effective date of the authentication token. |

| Parameter | Definition | Description |
| --- | --- | --- |
| `createdDate` | `case createdDate` | Sorts the requests by the created date of the authentication token. |

## Sort Results

Specify if you want to view the sort results in ascending or descending order by using this resource and signature.

```
public enum SortOrder : String
```

Use the parameters in this table to create a sort order request.

| Parameter | Definition | Description |
| --- | --- | --- |
| `ascending` | `case ascending` | Sorts the results in ascending order. |
| `descending` | `case descending` | Sorts the results in descending order. |

## Define Voucher Status

Define the possible statuses of a voucher by using this resource and signature.

`VoucherStatus`

```
public enum VoucherStatus : String
```

Use the parameters in this table to define the voucher statuses.

| Parameter | Definition | Description |
| --- | --- | --- |
| `issued` | `case issued` | Represents the vouchers that are issued. |
| `cancelled` | `case cancelled` | Represents the vouchers that are cancelled. |
| `expired` | `case expired` | Represents the vouchers that have expired. |

## Identify Resource Type

Identify the type of resource to request by using this resource and signature. Use these resources to create secure and scalable mobile applications.

`Resource`

```
public enum Resource
```

Use the methods in this table to get resources for a loyalty program.

| Method | Definition | Description |
| --- | --- | --- |
| `individualEnrollment(programName:version:)` | `case individualEnrollment(programName: String, version: String)` | Creates an individual enrollment for the loyalty program. The `individualEnrollment` method takes two parameters: `programName`, |

| Method | Definition | Description |
|---|---|---|
| | | which represents the name of the loyalty program for which the individual enrollment is being created, and `version`, which represents the API version. |
| `getMemberBenefits(memberId:version:)` | `case getMemberBenefits(memberId: String, version: String)` | Retrieves benefits related to the member ID. The `getMemberBenefits` method takes two parameters: `memberId`, which represents the unique identifier of the member whose benefits are being retrieved, and `version`, which represents the API version. |
| `getMemberProfile(programName:version:)` | case getMemberProfile(programName: String, version: String) | Retrieves program name related to the member ID. The `getMemberProfile` method takes two parameters: `programName`, which represents the program membership name, and `version`, which represents the API version. |
| `getTransactionHistory(programName:memberId:version:)` | `case getTransactionHistory(programName: String, memberId: String, version: String)` | Retrieves the transaction history associated with the member ID. The `getTransactionHistory` method takes three parameters: `programName`, which represents the loyalty program name, `memberId`, which represents the unique identifier of the member whose transaction history is being retrieved, and `version`, which represents the API version. |
| `getPromotions(programName:version:)` | `case getPromotions(programName: String, version: String)` | Retrieves a member's existing promotions. The `getPromotions` method takes two parameters: `programName`, which represents the name of the loyalty program, and `version`, which represents the API version. |
| `enrollInPromotion(programName:version:)` | `case enrollInPromotion(programName: String, version: String)` | Enrolls the member in a promotion. The `enrollInPromotion` method takes two parameters: `programName`, which represents the name of the loyalty program, and `version`, which represents the API version. |
| `unenrollPromotion(programName:version:)` | `case unenrollPromotion(programName: String, version: String)` | Opts out a member from an available promotion. The `unenrollInPromotion` method takes two parameters: `programName`, which represents the name of the loyalty |

| Method | Definition | Description |
| --- | --- | --- |
| | | program, and `version`, which represents the API version. |
| getVouchers(programName:membershipNumber:version:) | `case getVouchers(programName: String, membershipNumber: String, version: String)` | Retrieves vouchers available to the member ID. The `getVouchers` method takes three parameters: `programName`, which represents the name of the loyalty program, `membershipNumber`, which represents the unique identifier of the member whose vouchers are being retrieved, and `version`, which represents the API version. |

## Get API Resource Path

Get the path for the API resource by using this resource and signature. The function uses a resource parameter as input and returns the URL path of the resource as a string.

`getPath(for:)`

```
public func getPath(for resource: Resource) -> String
```

## Get Member Benefits

Retrieve the benefits associated with a loyalty program member for the specified API version, while asynchronously requesting data from the Member Benefits API. Use this resource and signature to get member benefits.

`getMemberBenefits(for:version:devMode:)`

```
public func getMemberBenefits(
    for memberId: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> [BenefitModel]
```

The getMemberBenefits method takes three parameters: memberId, which represents the unique identifier of the member whose benefits are being retrieved, version, which represents the API version, and the devMode parameter, which determines if the request is run in developer mode.

## Get Member Profile

Get the profile details of a loyalty program member, while asynchronously requesting data from the Member Profile API. Use this resource and signature to get member profile details.

`getMemberProfile(for:version:devMode:)`

```
public func getMemberProfile(
    for memberId: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> ProfileModel
```

The `getMemberProfile` method takes three parameters:`memberId` , which represents the unique identifier of the member whose profile is being retrieved, `version`, which represents the API version, and the `devMode` parameter, which determines if the request is run in developer mode.

## Get Community Member Profile

Retrieve the Experience Cloud user profile associated with a loyalty program member for the specified API version, while asynchronously requesting data from Salesforce. Use this resource and signature to get the Experience Cloud user profile details.

`getCommunityMemberProfile(version:devMode:)`

```
public func getCommunityMemberProfile(
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> ProfileModel
```

The `getCommunityMemberProfile` method takes two parameters: `version`, which represents the default version of the mobile SDK, and the `devMode` parameter, which determines if the request is run in developer mode.

## Enroll a Member

Enroll a member to a loyalty program, while asynchronously sending data to the Individual Member Enrollments API. Use this resource and signature to enroll a member.

`postEnrollment(membershipNumber:firstName:lastName:email:phone:emailNotification:version:)`

```
public func postEnrollment(
    membershipNumber: String,
    firstName: String,
    lastName: String,
    email: String, phone: String,
    emailNotification: Bool,
   version: String = LoyaltyAPIVersion.defaultVersion) async throws -> EnrollmentOutputModel
```

This table shows the parameters in the method.

| Parameter | Description |
|---|---|
| `membershipNumber` | Membership number of the member being enrolled. |
| `firstName` | First name of the member being enrolled. |
| `lastName` | Last name of the member being enrolled. |
| `email` | Email address of the member being enrolled. |
| `phone` | Phone number of the member being enrolled. |
| `emailNotification` | Indicates whether the member wants to receive email notifications. |
| `version` | The default API version. |

After the enrollment, the request returns the membership number and program member ID.

## Opt In For a Promotion

Enroll a loyalty member to a promotion, while asynchronously sending data to the Enroll for Promotions API. Use this resource and signature to enroll a member.

`enrollIn(promotion:for:version:)`

```
public func enrollIn(
    promotion promotionName: String,
    for membershipNumber: String,
    version: String = LoyaltyAPIVersion.defaultVersion) async throws
```

The `enrollIn` method takes three parameters:`promotionName` , which represents the promotion name the member is being enrolled to, `membershipNumber`, which represents the membership number of the member being enrolled, and `version`, which represents the API version

## Use Promotion ID to Opt Out of a Promotion

Opt out a loyalty member from a promotion by using the promotion ID. Use this resource and signature to opt out of a promotion.

`unenroll(promotionId:for:version:devMode:)`

```
public final func unenroll(
       promotionId: String,
       for membershipNumber: String,
       version: String = LoyaltyAPIVersion.defaultVersion,
       devMode: Bool = false) async throws
```

The `unenroll` method takes two parameters: `promotionID`, which represents the promotion ID from which the member is being unenrolled, `membershipNumber`, which represents the membership number of the member being unenrolled, and `version`, which represents the API version.

## Use Promotion Name to Opt Out of a Promotion

Opt out a loyalty member from a promotion by using the promotion name. Use this resource and signature to opt out of a promotion.

`unenroll(promotionName:for:version:devMode:)`

```
public final func unenroll(
       promotionName: String,
       for membershipNumber: String,
       version: String = LoyaltyAPIVersion.defaultVersion,
       devMode: Bool = false) async throws
```

This table shows the parameters in the unenroll method.

| Parameter | Description |
|---|---|
| `promotionName` | Name of the promotion from which the member is being unenrolled. |
| `membershipNumber` | Membership number of the member being unenrolled. |
| `version` | Version of the mobile SDK. |
| `devMode` | Determines if the request is run in developer mode. |

## Use Member ID to Get Enrolled Promotions

Get the promotions that the member is enrolled to, by using the loyalty program member ID while asynchronously requesting data from the Enroll for Promotions API. Use this resource and signature to get the enrolled promotions.

`getPromotions(memberId:version:devMode:)`

```
public func getPromotions(
    memberId: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> PromotionModel
```

The `getPromotions` method takes three parameters: `memberID`, which represents the unique identifier of the member whose promotions are being retrieved, `version`, which represents the default API version, and `devMode`, which determines if the request is run in developer mode.

## Use Membership Number to Get Enrolled Promotions

Get the promotions that the member is enrolled to, by using the loyalty program membership number while asynchronously requesting data from the Enroll for Promotions API. Use this resource and signature to get the enrolled promotions.

`getPromotions(membershipNumber:version:devMode:)`

```
public func getPromotions(
    membershipNumber: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> PromotionModel
```

The `getPromotions` method takes three parameters: `membershipNumber`, which represents the membership number of the member whose promotions are being retrieved, `version`, which represents the default API version, and `devMode`, which determines if the request is run in developer mode.

## Get Transaction Journals

Get transaction journals of a loyalty member. Obtain either accrual or redemption transaction journal records. Use this resource and signature to get transactions.

`getTransactions(for:pageNumber:journalTypeName:journalSubTypeName:periodStartDate:periodEndDate:version:devMode:)`

```
public func getTransactions(
    for membershipNumber: String,
    pageNumber: Int? = nil,
    journalTypeName: String? = nil,
    journalSubTypeName: String? = nil,
    periodStartDate: String? = nil,
    periodEndDate: String? = nil,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> [TransactionJournal]
```

The `getTransactions` method takes the `pageNumber` parameter that represents the number of the page you want returned. If you don't specify a value, the first page is returned. Each page contains 200 transaction journals and the transaction journals are sorted based on the activity date.

## Get Vouchers

Retrieve the vouchers issued to a loyalty member by using this resource and signature.

```
getVouchers(membershipNumber:voucherStatus:pageNumber:productId:productCategoryId:productName:productCategoryName:sortBy:sortOrder:version:devMode:)
```

```
public func getVouchers(
       membershipNumber: String,
       voucherStatus: [VoucherStatus]? = nil,
       pageNumber: Int? = nil,
       productId: [String]? = nil,
       productCategoryId: [String]? = nil,
       productName: [String]? = nil,
       productCategoryName: [String]? = nil,
       sortBy: SortBy? = nil,
       sortOrder: SortOrder? = nil,
       version: String = LoyaltyAPIVersion.defaultVersion,
       devMode: Bool = false) async throws -> [VoucherModel]
```

This table shows the parameters in the `getVouchers` method.

| Parameter | Description |
|---|---|
| `membershipNumber` | Membership number of the member whose vouchers are being retrieved. |
| `voucherStatus` | The status of a voucher. |
| `pageNumber` | Number of the page you want returned. If you don't specify a value, the first page is returned. By default, each page contains 200 vouchers, which are sorted based on the voucher creation date. |
| `productId` | The ID of the product related to the vouchers that you want to retrieve. You can specify the ID of up to 20 products. |
| `productCategoryId` | The ID of the product categories related to the vouchers that you want to retrieve. You can specify the ID of up to 20 product categories. |
| `productName` | The product name related to the voucher. |
| `productCategoryName` | The name of the product categories related to the vouchers that you want to retrieve. You can specify the ID of up to 20 product category names. |
| `sortBy` | Specifies the field used to sort the vouchers you want to retrieve. The default value is ExpirationDate. |
| `sortOrder` | Specifies the sort order of the vouchers you want to retrieve. The default value is Ascending. |
| `version` | Version of the API. |
| `devMode` | Determines if the request is run in developer mode. |

Create an Instance of LoyaltyAPIManager Class
Create an instance of `LoyaltyAPIManager` class and interact with the Loyalty Management APIs.

## Create an Instance of LoyaltyAPIManager Class

Create an instance of `LoyaltyAPIManager` class and interact with the Loyalty Management APIs.

1. Create an instance of `LoyaltyAPIManager` by using this signature.

```
let loyaltyAPIManager = LoyaltyAPIManager(auth: forceAuthenticator, loyaltyProgramName:
 "YourLoyaltyProgramName", instanceURL: "YourInstanceURL", forceClient: forceClient)
```

2. Call the appropriate methods to interact with the Loyalty Management API by using this signature.

```
import LoyaltyMobileSDK

let instanceURL = URL(string: "https://your_salesforce_instance_url")!
let loyaltyProgramName = "YourLoyaltyProgramName"
let forceClient = ForceClient(clientId: "your_client_id", clientSecret:
"your_client_secret", redirectURI: "your_redirect_uri")

let loyaltyAPIManager = LoyaltyAPIManager(instanceURL: instanceURL, loyaltyProgramName:
 loyaltyProgramName, forceClient: forceClient)
```

3. To enroll an individual member, use this signature.

```
let enrollmentOutput = try await loyaltyAPIManager.postEnrollment(
    membershipNumber: membershipNumber,
    firstName: firstName,
    lastName: lastName,
    email: email,
    phone: phone,
    emailNotification: emailNotification
```

For example:

```
let membershipNumber = "1234567890"
let firstName = "John"
let lastName = "Doe"
let email = "john.doe@example.com"
let phone = "4157891234"
let emailNotification = true
```

4. To retrieve the member benefits, use this signature.

```
let benefits = try await loyaltyAPIManager.getMemberBenefits(for: "memberId")
```

5. To retrieve the member profile, use this signature.

```
let profile = try await loyaltyAPIManager.getMemberProfile(for: "memberId")
```

6. To retrieve the Experience Cloud user profile, use this signature.

```
let communityProfile = try await loyaltyAPIManager.getCommunityMemberProfile()
```

7. To opt a member in to a promotion, use this signature.

```
try await loyaltyAPIManager.enrollIn(promotion: "PromotionName", for: "1234567890")
```

8. To opt out a member from a promotion using promotion ID or promotion name, use this signature.

```
try await loyaltyAPIManager.unenroll(promotionId: "promotionId", for: "1234567890")
try await loyaltyAPIManager.unenroll(promotionName: "PromotionName", for: "1234567890")
```

9. To retrieve loyalty member transactions, use this signature.

```
let transactions = try await loyaltyAPIManager.getTransactions(for: "1234567890")
```

10. To retrieve promotions for a loyalty member, use this signature.

```
let promotions = try await loyaltyAPIManager.getPromotions(membershipNumber: "1234567890")
```

11. To retrieve vouchers for a loyalty member, use this signature.

```
let vouchers = try await loyaltyAPIManager.getVouchers(membershipNumber: "1234567890")
```

## NetworkManager

The `NetworkManager` class manages network requests and processing of data. The NetworkManager class conforms to the NetworkManagerProtocol, which defines the set of methods and properties that are used to manage network requests and responses.

Use this signature to define the `NetworkManager` class.

```
public class NetworkManager : NetworkManagerProtocol
```

### Create a Shared Instance

Create a shared instance of the `NetworkManager` class by using this signature.

`shared`

```
public static let shared: NetworkManager
```

### Get REST Requests

Use Async/Await to get all the REST requests asynchronously by using this signature.

`fetch(type:request:urlSession:)`

```
public func fetch<T>(type: T.Type, request: URLRequest, urlSession: URLSession =
URLSession.shared) async throws -> T where T : Decodable
```

Use the parameters in this table to create a fetch request.

| Parameters | Description |
|---|---|
| type | A type or model of data that you want to decode from the JSON format. |
| request | The `URLRequest`, which is executed by `URLSession`. |

| Parameters | Description |
| --- | --- |
| urlSession | An instance of `URLSession`, which is used to execute the request and manage HTTP requests and responses. The default instance is `URLSession.shared`. |

# Loyalty Management Mobile SDK API References for iOS

These API references describe the functions, classes, methods, parameters, and return values of the Loyalty Management Mobile SDK. If your admin has enabled Receipt Make API requests to Salesforce from the POS system to enroll members, view member details, view transactions, manage vouchers, create orders, and accrue and redeem points and vouchers.

EDITIONS

Available in: all editions that have Loyalty Management enabled.

Individual Member Enrollments
Enroll an individual member in a loyalty program, while asynchronously sending data to the Individual Member Enrollments API.

Enroll for Promotions
Enroll loyalty program member to a promotion, while asynchronously sending data to the Enroll for Promotions API.

Expense Analysis
Stores the product and information from a receipt submitted for review by a member. To get the receipt information, access the LoyaltyProgramMember object reference.

Get Member Promotions
Retrieve a list of promotions that the member is eligible for, while asynchronously requesting data from the Get Member Promotions loyalty program process API.

Member Benefits
Retrieve a list of benefits for a member, while asynchronously requesting data from the Member Benefits API.

Member Profile
Get the profile details of a loyalty program member, while asynchronously requesting data from the Member Profile API.

Member Vouchers
Retrieve a list of vouchers issued to the member, while asynchronously requesting data from the Member Vouchers API.

Receipt Status Updation
Update the status of the receipt, reward points, and create a transaction journal for each line item in the receipt.

Receipt Upload
Upload and scan a receipt with a receipt scanning app that uses optical character recognition to read and interpret receipts. For the unlocked package, this API uploads the image into the Amazon S3 bucket.

Transaction History
Retrieve member's transaction history, while asynchronously requesting data from the Transaction History API.

Opt Out from a Promotion
Opt out a loyalty program member from an available promotion.

## Individual Member Enrollments

Enroll an individual member in a loyalty program, while asynchronously sending data to the Individual Member Enrollments API.

## Resource

```
postEnrollment(membershipNumber:firstName:lastName:email:phone:emailNotification:version:)
```

## Signature

```
public func postEnrollment(
    membershipNumber: String,
    firstName: String,
    lastName: String,
    email: String,
    phone: String,
    emailNotification: Bool,
   version: String = LoyaltyAPIVersion.defaultVersion) async throws -> EnrollmentOutputModel
```

## Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `email` | String | Email address of the member being enrolled. | Required |
| `emailNotification` | Boolean | Indicates whether the member wants to receive email notifications (`(true)`) or not (`(false)`). | Required |
| `firstName` | String | First name of the member being enrolled. | Required |
| `lastName` | String | Last name of the member being enrolled. | Required |
| `membershipNumber` | String | Membership number of the member being enrolled. | Required |
| `phone` | String | Phone number of the member being enrolled. | Required |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

## Return Value

An EnrollmentOutputModel instance of type:

```
public struct EnrollmentOutputModel : Codable
```

## Sample Output


```
{
    "contactId": "0034x00001JdPg6",
    "loyaltyProgramMemberId": "01M4x000000LOrM",
    "loyaltyProgramName": "NTO Insider",
    "membershipNumber": "Member2",
    "transactionJournals": [
        {
            "activityDate": "2022-01-01T08:00:00.000Z",
            "journalSubType": "Member Enrollment",
            "journalType": "Accrual",
            "loyaltyProgram": "NTO Insider",
            "loyaltyProgramMember": "Member2",
            "referredMember": null,
            "status": "Pending",
            "transactionJournalId": "01V4x000000CcBF"
        }
    ]
}
```


## Output Parameters

| Parameter | Type | Description |
|---|---|---|
| `activityDate` | String | The date and time of when transaction journal is created. |
| `contactId` | String | The ID of the loyalty program member's person account. |
| `journalSubType` | String | The journal subtype of the transaction journal. |
| `journalType` | String | The journal type of the transaction journal. |
| `loyaltyProgram` | String | The loyalty program related with the transaction journal. |
| `loyaltyProgramMember` | String | The membership number of the loyalty program related to the transaction journal. |
| `loyaltyProgramMemberId` | String | The ID of the loyalty program member record created for the member. |
| `loyaltyProgramName` | String | The name of the loyalty program into which the member is enrolled. |
| `membershipNumber` | String | The membership number of the enrolled member. |
| `referredMember` | String | The membership number of the loyalty program member who has been referred by the member. |

| Parameter | Type | Description |
|---|---|---|
| `status` | String | The status of the transaction journal. |
| `transactionJournalId` | String | The ID of the transaction journal that is created. |

## Enroll for Promotions

Enroll loyalty program member to a promotion, while asynchronously sending data to the Enroll for Promotions API.

### Resource

```
enrollIn(promotion:for:version:)
```

### Signature

```
public func enrollIn(
    promotionName: String,
    membershipNumber: String,
    version: String = LoyaltyAPIVersion.defaultVersion) async throws
```

### Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `promotionName` | String | Name of the promotion that the member wants to enroll into. | Required |
| `membershipNumber` | String | Unique identifier of the member. | Required |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

### Sample Output

```
{
    "message": null,
    "outputParameters": {
        "outputParameters": {
            "results": [
                {
                    "MemberId": "1lp4x00000002ffAAA"
                }
            ]
        }
    },
    "simulationDetails": {},
    "status": true
```

```
}
```

### Output Parameter

| Parameter | Type | Description |
|---|---|---|
| memberId | String | The ID of the member enrolled for the promotion. |

## Expense Analysis

Stores the product and information from a receipt submitted for review by a member. To get the receipt information, access the LoyaltyProgramMember object reference.

### Resource

```
services/apexrest/expense-analysis
```

### Rest Method Type

POST

### Signature

```
curl --location --request POST
'https://yourInstance.salesforce.com/services/apexrest/expense-analysis/?filename=8925687d-7489-7edb-5307-19d4d33bc650.jpeg&membershipnumber=124345696'
 \
--header 'Authorization: Bearer
00DB000000FX0aR!ARQAQCyXQGgMcxjFvjs1hnPCDJEZyPavtzxM26XvjDU.gr56iTgkGp_EQCZ0yyi1QZzILDqO1my3KpJqhKAOc56o4jqx6CxU'
 \
--header 'Cookie: BrowserId=MZ4W4WebEe6bX0_gtfh0Tw; CookieConsentPolicy=0:1;
LSKey-c$CookieConsentPolicy=0:1'
```

### Request Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| filename | String | The file that contains the image of the receipt. | Required |
| membershipnumber | String | The unique identifier of the member. | Required |

### Sample Output

```
{
  "storeName" : "alpine nutrition",
  "storeAddress" : "625 Market Street,\n6th floor,\nSan Francisco,\nCA, 94105",
```

```
  "receiptSFDCId" : "a0PHp00000tstqeMAA",
  "receiptNumber" : "#0529-0002",
  "receiptDate" : "2020-01-10",
  "memberShipNumber" : "124345696",
  "lineItem" : [ {
    "quantity" : "5",
    "productName" : "Alpine-Bran Cereal",
    "price" : "$7.99",
    "lineItemPrice" : "$39.95",
    "isEligible" : false
  }, {
    "quantity" : "2",
    "productName" : "Alpine-Oat Cereal",
    "price" : "$7.99",
    "lineItemPrice" : "$15.98",
    "isEligible" : false
  } ],
  "confidenceStatus" : "Partial"
}
```

## Output Parameters

| Parameter | Type | Description |
|---|---|---|
| `confidenceStatus` | String | The receipt analysis status based on the confidence value defined in the app.<br>Possible values are:<br>• `Success`<br>• `Failure`<br>• `Partial` |
| `isEligible` | Boolean | Indicates whether the item is eligible for accrual of loyalty points (`(true)`) or not (`(false)`).<br>This value is displayed only if the admin has opted to display ineligible items in the receipt. |
| `lineItem` | String | The details of the receipt line item. |
| `lineItemPrice` | String | The total price of the receipt line item. |
| `memberShipNumber` | String | The unique identifier of the member. |
| `price` | Currency | The unit price of the receipt line item. |
| `productName` | String | The name of the product purchased. |
| `quantity` | Integer | The quantity of the product purchased. |
| `receiptDate` | dateTime | The date when the receipt is generated. |

| Parameter | Type | Description |
| --- | --- | --- |
| `receiptNumber` | String | The receipt number. |
| `receiptSFDCId` | Reference | The unique ID of the receipt. |
| `storeAddress` | String | The store address. |
| `storeName` | String | The store name. |

SEE ALSO:

*Salesforce Help*: Set Up Amazon Web Services

*Salesforce Help*: Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

*Salesforce Help*: Set Up Amazon Web Services

*Salesforce Help*: Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

## Get Member Promotions

Retrieve a list of promotions that the member is eligible for, while asynchronously requesting data from the Get Member Promotions loyalty program process API.

### Resource

Here's the request when the input parameter is member ID.

```
getPromotions(memberId:version:devMode:)
```

### Signature

```
public func getPromotions(
    memberId: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> PromotionModel
```

Here's the request when the input parameter is membership number.

```
getPromotions(memberNumber:version:devMode:)
```

### Signature

```
public func getPromotions(
    membershipNumber: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> PromotionModel
```

## Input Parameters

| Parameter | Types | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the request is run in developer mode (`(true)`) or not (`(false)`).. | Optional |
| `memberId` | String | Identifier of the member whose promotions are being retrieved. | Required |
| `membershipNumber` | String | The membership number of the member whose promotions are being retrieved. | Required |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

## Sample Output


```
{
    "message": null,
    "outputParameters": {
        "outputParameters": {
            "results": [
                {
                    "loyaltyPromotionType": "STANDARD",
                    "maximumPromotionRewardValue": 0,
                    "totalPromotionRewardPointsVal": 0,
                    "loyaltyProgramCurrency": "0lc4x000000L1bmAAC",
                    "memberEligibilityCategory": "Eligible",
                    "promotionEnrollmentRqr": true,
                    "fulfillmentAction": "CREDIT_POINTS",
                    "promotionName": "Anniversary promotion",
                    "promotionId": "0c84x000000CoNhAAK",
                    "startDate": "2020-01-01",
                    "endDate": "2022-12-31",
                    "description": "Double point promotion on member purchases on their
anniversary",
                    "imageName": "offer2"
                },
                {
                    "loyaltyPromotionType": "CUMULATIVE",
                    "maximumPromotionRewardValue": 0,
                    "totalPromotionRewardPointsVal": 200,
                    "loyaltyProgramCurrency": "0lc4x000000L1bmAAC",
                    "memberEligibilityCategory": "Eligible",
                    "promotionEnrollmentRqr": false,
                    "fulfillmentAction": "CREDIT_POINTS",
                    "promotionName": "Referral Promotions",
                    "promotionId": "0c84x000000CoNiAAK",
                    "startDate": "2021-01-02",
```

```
                    "description": "Additional points for member referral",
                    "imageName": "promotion1"
                },
                {
                    "promEnrollmentStartDate": "2022-11-01",
                    "memberEligibilityCategory": "EligibleButNotEnrolled",
                    "promotionEnrollmentEndDate": "2022-11-30",
                    "promotionEnrollmentRqr": true,
                    "promotionName": "New Year Promotion Premium",
                    "promotionId": "0c84x000000CtzRAAS",
                    "startDate": "2022-11-01",
                    "description": "New Year Promotion Premium",
                    "imageName": "meal1"
                },
                {
                    "promEnrollmentStartDate": "2022-11-01",
                    "memberEligibilityCategory": "Eligible",
                    "promotionEnrollmentEndDate": "2022-11-30",
                    "promotionEnrollmentRqr": true,
                    "promotionName": "Christmas Promotion",
                    "promotionId": "0c84x000020CtzWAAS",
                    "startDate": "2022-12-01",
                    "description": "Christmas Promotion - Happy holidays, enjoy a joyful
holiday season with this promotion",
                    "imageName": "promotion3"
                },
                {
                    "loyaltyPromotionType": "STANDARD",
                    "maximumPromotionRewardValue": 0,
                    "totalPromotionRewardPointsVal": 0,
                    "loyaltyProgramCurrency": "0lc4x000000L1bmAAC",
                    "memberEligibilityCategory": "Eligible",
                    "promotionEnrollmentRqr": true,
                    "fulfillmentAction": "CREDIT_POINTS",
                    "promotionName": "Anniversary promotion",
                    "promotionId": "0c84x004000CoNhAAK",
                    "startDate": "2020-01-01",
                    "description": "Double point promotion on member purchases on their
anniversary",
                    "imageName": "offers"
                },
                {
                    "loyaltyPromotionType": "CUMULATIVE",
                    "maximumPromotionRewardValue": 0,
                    "totalPromotionRewardPointsVal": 200,
                    "loyaltyProgramCurrency": "0lc4x000000L1bmAAC",
                    "memberEligibilityCategory": "Eligible",
                    "promotionEnrollmentRqr": false,
                    "fulfillmentAction": "CREDIT_POINTS",
                    "promotionName": "Referral Promotions",
                    "promotionId": "0c84x000006CoNiAAK",
                    "startDate": "2021-01-02",
                    "description": "Additional points for member referral",
                    "imageName": "shoes1"
```

```
                },
                {
                    "promEnrollmentStartDate": "2022-11-01",
                    "memberEligibilityCategory": "EligibleButNotEnrolled",
                    "promotionEnrollmentEndDate": "2022-11-30",
                    "promotionEnrollmentRqr": true,
                    "promotionName": "Thanksgiving Promotion Premium",
                    "promotionId": "0c84x070000CtzRAAS",
                    "startDate": "2022-11-01",
                    "description": "Thanksgiving Promotion Premium",
                    "imageName": "jean1"
                },
                {
                    "promEnrollmentStartDate": "2022-11-01",
                    "memberEligibilityCategory": "Ineligible",
                    "promotionEnrollmentEndDate": "2022-11-30",
                    "promotionEnrollmentRqr": true,
                    "promotionName": "New Year Promotion Premium",
                    "promotionId": "0c84x000000CtzWAAS",
                    "startDate": "2022-11-01",
                    "description": "New Year Promotion Premium - Ineligible",
                    "imageName": "coffee1"
                }
            ]
        }
    },
    "simulationDetails": {},
    "status": true
}
```


## Output Parameters

| Parameter | Type | Description |
|---|---|---|
| `description` | String | The description of the promotion. |
| `endDate` | String | The end date of the promotion. |
| `fulfillmentAction` | String | Specifies the fulfillment action of the related promotion. Possible values are: `Credit_Points` and `Issue_Voucher` |
| `imageName` | String | The name for the promotion image. |
| `loyaltyProgramCurrency` | String | The loyalty program currency associated with the promotion. |
| `loyaltyPromotionType` | String | The type of promotion. Possible values are:<br>• `Cumulative`<br>• `Standard`<br>• `Joint` |

| Parameter | Type | Description |
| --- | --- | --- |
| `maximumPromotionRewardValue` | Double | The value that can be accumulated for the promotion. |
| `memberEligibilityCategory` | String | Specifies whether the loyalty program member is eligible for the promotion. Possible values are:<br>• `Eligible`<br>• `EligibleButNotEnrolled`<br>• `Ineligible` |
| `message` | String | The request response message. |
| `promEnrollmentStartDate` | String | The date when the enrollment in the related promotion starts. |
| `promotionEnrollmentEndDate` | String | The date when the enrollment in the related promotion ends. |
| `promotionEnrollmentRqr` | Boolean | Indicates whether the related promotion requires member enrollment. |
| `promotionId` | String | The ID related to the promotion. |
| `promotionImageURL` | String | The URL for the promotion image.<br>In the promotion record, enter an image URL and ensure that the webpage that hosts the image is publicly accessible. |
| `promotionName` | String | The name of the promotion. |
| `startDate` | String | The start date of the related promotion. |
| `status` | Boolean | Indicates whether the member is eligible to enroll for the promotion. |
| `totalPromotionRewardPointsVal` | Double | The total points credited to the loyalty program member for the related promotion. |

## Member Benefits

Retrieve a list of benefits for a member, while asynchronously requesting data from the Member Benefits API.

### Resource

```
getMemberBenefits(for:version:devMode:)
```

## Signature

```
public func getMemberBenefits(
    for memberId: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> [BenefitModel]
```

## Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the request is run in developer mode `(true)` or not `(false)`. | Optional |
| `memberId` | String | Identifier of the member whose benefits are being retrieved. | Required |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

## Return Value

A BenefitModel instance of type:

```
public struct BenefitModel : Identifiable, Codable
```

## Sample Output

```
{
    "memberBenefits": [
        {
            "benefitId": "0ji4x0000008REdAAM",
            "benefitName": "Extended Returns (7 Days)",
            "benefitTypeId": "0jh4x0000008REQAA2",
            "benefitTypeName": "Extended Returns",
            "createdRecordId": null,
            "createdRecordName": null,
            "endDate": null,
            "isActive": true,
            "memberBenefitStatus": null,
            "startDate": null
        },
        {
            "benefitId": "0ji4x0000008REjAAM",
            "benefitName": "Standard Support",
            "benefitTypeId": "0jh4x0000008REXAA2",
            "benefitTypeName": "Customer Support",
            "createdRecordId": null,
            "createdRecordName": null,
            "endDate": null,
```

```
            "isActive": true,
            "memberBenefitStatus": null,
            "startDate": null
        },
        {
            "benefitId": "0ji4x0000008REeAAM",
            "benefitName": "Free Subscription",
            "benefitTypeId": "0jh4x0000008REXAA2",
            "benefitTypeName": "Free Subscription",
            "createdRecordId": null,
            "createdRecordName": null,
            "endDate": null,
            "isActive": true,
            "memberBenefitStatus": null,
            "startDate": null
        },
        {
            "benefitId": "0ji4x0000008REZAA2",
            "benefitName": "Free Shipping",
            "benefitTypeId": "0jh4x0000008REQAA2",
            "benefitTypeName": "Free Shipping",
            "createdRecordId": null,
            "createdRecordName": null,
            "endDate": null,
            "isActive": true,
            "memberBenefitStatus": null,
            "startDate": null
        },
        {
            "benefitId": "0ji4x0000008REiAAM",
            "benefitName": "Tier Exclusive Offer",
            "benefitTypeId": "0jh4x0000008REXAA2",
            "benefitTypeName": "Tier Exclusive Offer",
            "createdRecordId": null,
            "createdRecordName": null,
            "endDate": null,
            "isActive": true,
            "memberBenefitStatus": null,
            "startDate": null
        },
        {
            "benefitId": "0ji4x0000008REfAAM",
            "benefitName": "Complimentry Voouchers",
            "benefitTypeId": "0jh4x0000008REQAA2",
            "benefitTypeName": "Complimentry Voouchers",
            "createdRecordId": null,
            "createdRecordName": null,
            "endDate": null,
            "isActive": true,
            "memberBenefitStatus": null,
            "startDate": null
        }
    ]
}
```

### Output Parameters

| Parameter | Type | Description |
|---|---|---|
| `benefitId` | String | The ID of the benefit available for the member. |
| `benefitName` | String | The name of the benefit available for the member. |
| `benefitTypeId` | String | The ID of the associated benefit type record. |
| `benefitTypeName` | String | The name of the associated benefit type. |
| `createdRecordId` | String | The ID of the record created during benefit assignment. |
| `createdRecordName` | String | The display name of the record created during benefit assignment. |
| `description` | String | The description of the benefit available to a loyalty program member. |
| `endDate` | String | The date the benefit expires. |
| `isActive` | Boolean | Indicates whether the benefit is active (`true`) or not (`false`). |
| `memberBenefitStatus` | String | The status of the benefit available for the member. |
| `startDate` | String | The date from when the benefit applies to a member. |

## Member Profile

Get the profile details of a loyalty program member, while asynchronously requesting data from the Member Profile API.

### Resource

```
getMemberProfile(for:version:devMode:)
```

### Signature

```
public func getMemberProfile(
    for memberId: String,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> ProfileModel
```

## Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the request is run in developer mode `(true)` or not `(false)`. | Optional |
| `memberId` | String | Identifier of the member whose benefits are being retrieved. | Required |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

## Return Value

A ProfileModel instance of type:

```
public struct ProfileModel : Codable
```

## Sample Output


```
{
    "additionalLoyaltyProgramMemberFields": {
        "City__c": null,
        "Age__c": null,
        "Anniversary__c": null,
        "ReferredMemberPromotion__c": null,
        "DateOfBirth__c": null,
        "Hobbies__c": null,
        "Gender__c": null,
        "SeedData__c": false,
        "Income__c": null,
        "State__c": null,
        "B2CRetail_Most_Recent_Survey_Email_Date__c": null
    },
    "associatedAccount": null,
    "associatedContact": {
        "contactId": "0034x00001EhiXSAAZ",
        "email": "ab@gmail.com",
        "firstName": "Aman",
        "lastName": "Bindal"
    },
    "canReceivePartnerPromotions": true,
    "canReceivePromotions": true,
    "enrollmentChannel": "Email",
    "enrollmentDate": "2022-01-01",
    "groupCreatedByMember": null,
    "groupName": null,
    "lastActivityDate": null,
    "loyaltyProgramMemberId": "01M4x000000LECAEA4",
    "loyaltyProgramName": "NTO Insider",
```

```
    "memberCurrencies": [
        {
            "additionalLoyaltyMemberCurrencyFields": {},
            "escrowPointsBalance": 0.0,
            "expirablePoints": 0.0,
            "lastAccrualProcessedDate": null,
            "lastEscrowProcessedDate": null,
            "lastExpirationProcessRunDate": null,
            "lastPointsAggregationDate": null,
            "lastPointsResetDate": null,
            "loyaltyMemberCurrencyName": "Reward Points",
            "loyaltyProgramCurrencyId": "0lc4x000000L1bmAAC",
            "loyaltyProgramCurrencyName": null,
            "memberCurrencyId": "0lz4x000000LC3nAAG",
            "nextQualifyingPointsResetDate": null,
            "pointsBalance": 17850,
            "qualifyingPointsBalanceBeforeReset": 0.0,
            "totalEscrowPointsAccrued": 0.0,
            "totalEscrowRolloverPoints": 0.0,
            "totalPointsAccrued": 0.0,
            "totalPointsExpired": 0.0,
            "totalPointsRedeemed": 0.0
        },
        {
            "additionalLoyaltyMemberCurrencyFields": {},
            "escrowPointsBalance": 0.0,
            "expirablePoints": 0.0,
            "lastAccrualProcessedDate": null,
            "lastEscrowProcessedDate": null,
            "lastExpirationProcessRunDate": null,
            "lastPointsAggregationDate": null,
            "lastPointsResetDate": null,
            "loyaltyMemberCurrencyName": "Tier Points",
            "loyaltyProgramCurrencyId": "0lc4x000000L1bnAAC",
            "loyaltyProgramCurrencyName": null,
            "memberCurrencyId": "0lz4x000000LC3oAAG",
            "nextQualifyingPointsResetDate": "2023-01-01",
            "pointsBalance": 4000,
            "qualifyingPointsBalanceBeforeReset": 0.0,
            "totalEscrowPointsAccrued": 0.0,
            "totalEscrowRolloverPoints": 0.0,
            "totalPointsAccrued": 0.0,
            "totalPointsExpired": 0.0,
            "totalPointsRedeemed": 0.0
        }
    ],
    "memberStatus": "Active",
    "memberTiers": [
        {
            "additionalLoyaltyMemberTierFields": {},
            "areTierBenefitsAssigned": false,
            "loyaltyMemberTierId": "0ly4x000000btVzAAI",
            "loyaltyMemberTierName": "Silver",
            "tierChangeReason": null,
```

```
            "tierChangeReasonType": null,
            "tierEffectiveDate": "2022-01-01",
            "tierExpirationDate": "2023-08-31",
            "tierGroupId": "0lt4x000000L1bXAAS",
            "tierGroupName": null,
            "tierId": "0lg4x000000L1bmAAC",
            "tierSequenceNumber": 10
        }
    ],
    "memberType": "Individual",
    "membershipEndDate": "2023-01-01",
    "membershipLastRenewalDate": null,
    "membershipNumber": "Member1",
    "referredBy": null,
    "relatedCorporateMembershipNumber": null,
    "transactionJournalStatementFrequency": "Monthly",
    "transactionJournalStatementLastGeneratedDate": null,
    "transactionJournalStatementMethod": "Mail"
}
```


## Output Parameters

| Property Name | Type | Description |
|---|---|---|
| `additionalLoyaltyProgramMemberFields` | Map<String, Object> | The details of the custom fields added in the loyalty program member object. |
| `associatedAccount` | Codable | The details of the account record that is associated with the loyalty program member. |
| `associatedContact` | Codable | The details of the contact record that is associated with the loyalty program member. |
| `canReceivePartnerPromotions` | Boolean | Indicates whether the loyalty program member can receive partner promotions. |
| `canReceivePromotions` | Boolean | Indicates whether the loyalty program member can receive promotions (`true`) or not (`false`). |
| `enrollmentChannel` | String | The channel used by the member to enroll in the loyalty program. |
| `enrollmentDate` | String | The date on which the member enrolled in the loyalty program. |
| `groupCreatedByMember` | String | The membership number of the loyalty program member who created the group. |
| `groupName` | String | The name of the loyalty program group to which the member belongs. |
| `lastActivityDate` | String | The date on which the member performed their last activity. |
| `loyaltyProgramMemberId` | String | The ID of the loyalty program member. |
| `loyaltyProgramName` | String | The name of the loyalty program. |

| Property Name | Type | Description |
|---|---|---|
| `memberCurrencies` | Codable | The currencies associated with the loyalty program member. |
| `memberStatus` | String | The status of the loyalty program member. |
| `memberTiers` | Codable | The tiers associated with the loyalty program member. |
| `memberType` | String | The type of loyalty program member. |
| `membershipEndDate` | String | The date on which the membership ends. |
| `membershipLast RenewalDate` | String | The date on which the loyalty program member last renewed their membership. |
| `membershipNumber` | String | The membership number of the loyalty program member. |
| `referredBy` | String | The membership number of the loyalty program member who referred the member to the loyalty program. |
| `relatedCorporate MembershipNumber` | String | The membership number of the Corporate type loyalty program member associate with the member. |
| `transactionJournal StatementFrequency` | String | The frequency at which transaction journal statements must be delivered to the member.<br>Possible values are:<br>• `Monthly`<br>• `Quarterly` |
| `transactionJournal StatementLastGeneratedDate` | String | The date on which the member's last transaction journal statement was generated. |
| `transactionJournal StatementMethod` | String | The method used to deliver transaction journal statements to the member. |

.

## Member Vouchers

Retrieve a list of vouchers issued to the member, while asynchronously requesting data from the Member Vouchers API.

### Resource

`getVouchers(membershipNumber:voucherStatus:pageNumber:productId:productCategoryId:productName:productCategoryName:sortBy:sortOrder:version:devMode:)`

### Signature

```
public func getVouchers(
       membershipNumber: String,
       voucherStatus: [VoucherStatus]? = nil,
       pageNumber: Int? = nil,
```

```
        productId: [String]? = nil,
        productCategoryId: [String]? = nil,
        productName: [String]? = nil,
        productCategoryName: [String]? = nil,
        sortBy: SortBy? = nil,
        sortOrder: SortOrder? = nil,
        version: String = LoyaltyAPIVersion.defaultVersion,
        devMode: Bool = false) async throws -> [VoucherModel]
```

## Input Parameters

| Parameter Name | Type | Description | Required or Optional |
|---|---|---|---|
| `membershipNumber` | String | Unique identifier of the member whose vouchers are being retrieved. | Required |
| `devMode` | Boolean | Indicates whether the request is run in developer mode `(true)` ot not `(false)`. | Optional |
| `pageNumber` | Integer | The page number to be returned. If you don't specify a value, the first page is returned. Each page contains 200 vouchers, sorted by their date of creation. | Optional |
| `productCategoryId` | String | The ID of a product category associated with the member vouchers to be retrieved. You can specify up to 20 product category IDs. | Optional |
| `productCategoryName` | String | The product category name associated with the vouchers to be retrieved. You can specify up to 20 product categories. | Optional |
| `productId` | String | The product ID associated with the vouchers to be retrieved. You can specify up to 20 product IDs. | Optional |
| `productName` | String | The product name associated with the vouchers to be retrieved. You can specify up to 20 product names. | Optional |
| `voucherStatus` | String | The status of the member vouchers to filter the API response. Possible values are:<br>• `Issued`<br>• `Cancelled`<br>• `Expired` | Optional |
| `sortBy` | String | The voucher field for sorting the API response. The default value is `ExpirationDate`. Possible values are:<br>• `CreatedDate`<br>• `EffectiveDate`<br>• `ExpirationDate` | Optional |

| Parameter Name | Type | Description | Required or Optional |
|---|---|---|---|
| `sortOrder` | String | The sort order of the API response. The default value is `Ascending`. Possible values are:<br>• `Ascending`<br>• `Descending` | Optional |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

## Sample Output


```
{
    "voucherCount": 4,
    "vouchers": [
        {
          "description": "20% discount on children group party at selected event centers.",

            "discountPercent": 50,
            "effectiveDate": "2023-01-01",
            "expirationDate": "2023-04-01",
            "isVoucherDefinitionActive": true,
            "isVoucherPartiallyRedeemable": false,
            "promotionId": "0c8RO00000000ILdYAM",
            "promotionName": "Birthday Promotion",
            "redeemedValue": 0.0,
            "remainingValue": 0.0,
            "status": "Issued",
            "type": "DiscountPercentage",
            "voucherCode": "VOU10101011",
            "voucherDefinition": "Birthday Discount Voucher",
            "voucherId": "0kDRO00000000Hk2AI",
            "voucherImageUrl":
"https://thumbs.dreamstime.com/b/10-percent-discount-24471598.jpg",
            "voucherNumber": "00000001"
        },
        {
          "description": "20% discount on children group party at selected event centers.",

            "discountPercent": 40,
            "effectiveDate": "2023-01-01",
            "expirationDate": "2023-04-01",
            "isVoucherDefinitionActive": true,
            "isVoucherPartiallyRedeemable": false,
            "promotionId": "0c8RO00000000ILdYAM",
            "promotionName": "Birthday Promotion",
            "redeemedValue": 0.0,
            "remainingValue": 0.0,
            "status": "Redeemed",
            "type": "DiscountPercentage",
            "voucherCode": "VOU10101012",
            "voucherDefinition": "Birthday Discount Voucher",
```

```
            "voucherId": "0kDRO00000000Hp2AI",
            "voucherImageUrl":
"https://thumbs.dreamstime.com/b/10-percent-discount-24471598.jpg",
            "voucherNumber": "00000002"
        },
        {
          "description": "20% discount on children group party at selected event centers.",

            "discountPercent": 40,
            "effectiveDate": "2023-01-01",
            "expirationDate": "2023-06-01",
            "isVoucherDefinitionActive": true,
            "isVoucherPartiallyRedeemable": false,
            "promotionId": "0c8RO00000000ILdYAM",
            "promotionName": "Birthday Promotion",
            "redeemedValue": 0.0,
            "remainingValue": 0.0,
            "status": "Redeemed",
            "type": "DiscountPercentage",
            "voucherCode": "VOU10101012",
            "voucherDefinition": "Birthday Discount Voucher",
            "voucherId": "0kDRO00000000Hp2BI",
            "voucherImageUrl":
"https://thumbs.dreamstime.com/b/10-percent-discount-24471598.jpg",
            "voucherNumber": "00000003"
        },
        {
          "description": "20% discount on children group party at selected event centers.",

            "discountPercent": 40,
            "effectiveDate": "2023-01-01",
            "expirationDate": "2023-05-01",
            "isVoucherDefinitionActive": true,
            "isVoucherPartiallyRedeemable": false,
            "promotionId": "0c8RO00000000ILdYAH",
            "promotionName": "Birthday Promotion",
            "redeemedValue": 0.0,
            "remainingValue": 0.0,
            "status": "Expired",
            "type": "DiscountPercentage",
            "voucherCode": "VOU10101012",
            "voucherDefinition": "Birthday Discount Voucher",
            "voucherId": "0kD43872679RO00000000Hp2AI",
            "voucherImageUrl":
"https://thumbs.dreamstime.com/b/10-percent-discount-24471598.jpg",
            "voucherNumber": "00000004"
        }
    ]
}
```

## Output Parameters

| Property Name | Type | Description |
|---|---|---|
| `attributesUrl` | String | The URL of the attribute associated with the voucher. |
| `currencyIsoCode` | String | The currency ISO code in which the member has redeemed the voucher. |
| `description` | String | The description of the voucher issued to the member. |
| `discountPercent` | Integer | The discount percentage that's offered to the member by the voucher. |
| `effectiveDate` | String | The date the member can redeem the voucher. |
| `expirationDate` | String | The date the voucher expires. |
| `faceValue` | Double | The value that the member can redeem using the voucher. |
| `id` | String | The ID of the voucher record. |
| `isVoucherDefinitionActive` | Boolean | Indicates whether the voucher definition associated with the voucher is active (`true`) or not (`false`). |
| `isVoucherPartiallyRedeemable` | Boolean | Indicates whether the voucher can be redeemed across multiple transactions (`true`) or only one transaction (`false`). |
| `partnerAccount` | String | The name of the partner associated with the voucher's voucher definition. |
| `product` | String | The name of the product associated with the voucher definition. |
| `productCategory` | String | The product category associated with the voucher's voucher definition. |
| `productCategoryId` | String | The ID of product category associated with the voucher's voucher definition. |
| `productId` | String | The ID of the product associated with the voucher definition. |
| `promotionId` | String | The ID of the promotion for which the voucher is issued. |
| `promotionName` | String | The name of the promotion for which the voucher is issued. |
| `redeemedValue` | Double | The value that the member has already redeemed from a partially redeemable voucher. |
| `remainingValue` | Double | The remaining value of the voucher after partial redemption. |
| `status` | String | The status of the voucher. |
| `type` | String | The type of voucher issued to the member. |
| `useDate` | String | The date the voucher was redeemed. |
| `voucherCode` | String | The code of the voucher. |

| Property Name | Type | Description |
|---|---|---|
| voucherDefinition | String | The name of the voucher definition used to issue the voucher to the member. |
| voucherImageUrl | String | The URL of the image associated with the voucher definition.<br>In the promotion record, enter an image URL and ensure that the webpage that hosts the image is publicly accessible. |
| voucherNumber | String | The unique number of the voucher. |

## Receipt Status Updation

Update the status of the receipt, reward points, and create a transaction journal for each line item in the receipt.

### Resource

```
services/apexrest/receipt-status-updation
```

### HTTP methods

PUT

### Signature

```
curl --location --request PUT
'https://yourInstance.salesforce.com/services/apexrest/receipt-status-updation/' \
--header 'Content-Type: text/plain' \
--header 'Authorization: Bearer
00DB000000FX0aR!ARQAQCyXQGgMcxjFvjs1hnPCDJEZyPavtzxM26XvjDU.gr56iTgkGp_EQCZ0yyi1QZzILDqO1my3KpJqhKAOc56o4jqx6CxU'
 \
--header 'Cookie: BrowserId=MZ4W4WebEe6bX0_gtfh0Tw; CookieConsentPolicy=0:1;
LSKey-c$CookieConsentPolicy=0:1' \
--data '{
 "receiptId":"a0N1Q00000d0Rv4UAE",
 "status":"In Progress",
 "comments":""
}'
```

### Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| comments | String | The comments related to the receipt status change. | Required |
| receiptId | String | The ID of the receipt whose status is to be updated. | Required |

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `status` | String | The status that's assigned to the receipt after the update. Valid status values are:<br>• `Approved`<br>• `Cancelled`<br>• `Draft`<br>• `In Progress`<br>• `Manual Review`<br>• `Pending`<br>• `Processed`<br>• `Rejected` | Required |

## Sample Output

```
{
  "storeName" : "alpine nutrition",
  "storeAddress" : "625 Market Street,\n6th floor,\nSan Francisco,\nCA, 94105",
  "receiptSFDCId" : "a0PHp00000tstqeMAA",
  "receiptNumber" : "#0529-0002",
  "receiptDate" : "2020-01-10",
  "memberShipNumber" : "124345696",
  "lineItem" : [ {
    "quantity" : "5",
    "productName" : "Alpine-Bran Cereal",
    "price" : "$7.99",
    "lineItemPrice" : "$39.95",
    "isEligible" : false
  }, {
    "quantity" : "2",
    "productName" : "Alpine-Oat Cereal",
    "price" : "$7.99",
    "lineItemPrice" : "$15.98",
    "isEligible" : false
  } ],
  "confidenceStatus" : "Partial"
}
```

## Output Parameter

| Parameter | Type | Description |
|---|---|---|
| `confidenceStatus` | String | The receipt analysis status based on the confidence value defined in the app. Possible values are: `Success`, `Failure`, or `Partial`. |

| Parameter | Type | Description |
|---|---|---|
| `isEligible` | Boolean | Indicates whether the item is eligible for accrual of loyalty points (`(true)`) or not (`(false)`).<br>This value is displayed only if the admin has opted to display ineligible items in the receipt. |
| `lineItem` | String | The details of the receipt line item. |
| `lineItemPrice` | String | The total price of the receipt line item. |
| `memberShipNumber` | String | The unique identifier of the member. |
| `price` | Currency | The unit price of the receipt line item. |
| `productName` | String | The name of the product purchased. |
| `quantity` | Integer | The quantity of the product purchased. |
| `receiptDate` | dateTime | The date when the receipt is generated. |
| `receiptNumber` | String | The receipt number. |
| `receiptSFDCId` | Reference | The unique ID of the receipt. |
| `storeAddress` | String | The store address. |
| `storeName` | String | The store name. |

SEE ALSO:

*Salesforce Help*: Set Up Amazon Web Services

*Salesforce Help*: Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

*Salesforce Help*: Set Up Amazon Web Services

*Salesforce Help*: Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

## Receipt Upload

Upload and scan a receipt with a receipt scanning app that uses optical character recognition to read and interpret receipts. For the unlocked package, this API uploads the image into the Amazon S3 bucket.

### Resource

```
services/apexrest/upload-receipt
```

### Rest Method Type

PUT

### Signature

```
curl --location --request PUT
'https://yourInstance.salesforce.com/services/apexrest/upload-receipt/?membershipnumber=124345696'
 \
--header 'Content-Type: image/jpeg' \
--header 'Authorization: Bearer
00DB000000FX0aR!ARQAQCyXQGgMcxjFvjs1hnPCDJEZyPavtzxM26XvjDU.gr56iTgkGp_EQCZ0yyi1QZzILDqO1my3KpJqhKAOc56o4jqx6CxU'
 \
--header 'Cookie: BrowserId=MZ4W4WebEe6bX0_gtfh0Tw; CookieConsentPolicy=0:1;
LSKey-c$CookieConsentPolicy=0:1' \
--data '@1jFvSuLyR/Alpine receipt (4) (1) (2).jpg'
```

### Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `membershipnumber` | String | The unique identifier of the member. | Required |

### Sample Output

```
{
  "status" : "Success",
  "message" : "b9746ab0-fea3-b9ef-dc9c-ea5b905a822e.jpeg",
  "errorCode" : ""
}
```

### Output Parameter

| Parameter | Type | Description |
|---|---|---|
| `errorCode` | Integer | The error code if the transaction fails for any reason. |
| `message` | String | The error message if the transaction fails for any reason. |
| `status` | String | The status of the receipt upload. |

SEE ALSO:

*Salesforce Help*: Set Up Amazon Web Services

*Salesforce Help*: Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

*Salesforce Help*: Set Up Amazon Web Services

*Salesforce Help*: Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

## Transaction History

Retrieve member's transaction history, while asynchronously requesting data from the Transaction History API.

## Resource

```
getTransactions(for:pageNumber:journalTypeName:journalSubTypeName:periodStartDate:periodEndDate:version:devMode:)
```

## Signature

```
public func getTransactions(
    for membershipNumber: String,
    pageNumber: Int? = nil,
    journalTypeName: String? = nil,
    journalSubTypeName: String? = nil,
    periodStartDate: String? = nil,
    periodEndDate: String? = nil,
    version: String = LoyaltyAPIVersion.defaultVersion,
    devMode: Bool = false) async throws -> [TransactionJournal]
```

## Input Parameters

| Parameter Name | Type | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the request is run in developer mode `(true)` or not `(false)`. | Optional |
| `journalSubTypeName` | String | The subtype of the transaction journal record. | Optional |
| `journalTypeName` | String | The type of the transaction journal record. Possible values are:<br>• `Accrual`<br>• `Redemption` | Optional |
| `membershipNumber` | String | Unique identifier of the member whose transactions are being retrieved. | Required |
| `pageNumber` | Integer | The page number to be returned. If you don't specify a value, the first page is returned. Each page contains 200 transactions, sorted by their date of creation. | Optional |
| `periodStartDate` | String | Retrieve transaction journals starting on this date. | Optional |
| `periodEndDate` | String | Retrieve transaction journals until this date. | Optional |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

## Sample Output

```
{
    "message": null,
    "status": true,
    "transactionJournalCount": 4,
    "transactionJournals": [
```

```
        {
            "activityDate": "2023-04-08T04:59:40.000Z",
            "additionalTransactionJournalAttributes": [],
            "journalTypeName": "Manual Points Adjustment",
            "pointsChange": [
                {
                    "changeInPoints": 100.0,
                    "loyaltyMemberCurrency": "Reward Points"
                }
            ],
            "transactionJournalId": "0lVRO00000002og2AA",
            "transactionJournalNumber": "00000035"
        },
        {
            "activityDate": "2023-04-08T04:58:07.000Z",
            "additionalTransactionJournalAttributes": [],
            "journalTypeName": "Manual Points Adjustment",
            "pointsChange": [
                {
                    "changeInPoints": 300.0,
                    "loyaltyMemberCurrency": "Reward Points"
                }
            ],
            "transactionJournalId": "0lVRO00000002ob2AA",
            "transactionJournalNumber": "00000034"
        },
        {
            "activityDate": "2023-04-08T04:56:38.000Z",
            "additionalTransactionJournalAttributes": [],
            "journalTypeName": "Manual Points Adjustment",
            "pointsChange": [
                {
                    "changeInPoints": -100.0,
                    "loyaltyMemberCurrency": "Reward Points"
                }
            ],
            "transactionJournalId": "0lVRO00000002oW2AQ",
            "transactionJournalNumber": "00000033"
        },
        {
            "activityDate": "2022-03-08T04:53:19.000Z",
            "additionalTransactionJournalAttributes": [],
            "journalTypeName": "Manual Points Adjustment",
            "pointsChange": [
                {
                    "changeInPoints": 100.0,
                    "loyaltyMemberCurrency": "Reward Points"
                }
            ],
            "transactionJournalId": "0lVRO00000002oR2AQ",
            "transactionJournalNumber": "00000032"
        }
    ]
}
```

### Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| `externalTransactionNumber` | String | The transaction journal record ID from an external source system. |
| `message` | String | The message explaining why the request failed. |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). |
| `transactionJournalCount` | Integer | The total number of transaction journals that match the input criteria. |
| `transactionJournals` | Map<String, Object>[] | The details of the transaction journals. |

## Opt Out from a Promotion

Opt out a loyalty program member from an available promotion.

### Resource to Opt Out of a Promotion by Using the Promotion ID

```
unenroll(promotionId:for:version:devMode:)
```

### Signature

```
public final func unenroll(
       promotionId: String,
       for membershipNumber: String,
       version: String = LoyaltyAPIVersion.defaultVersion,
       devMode: Bool = false) async throws
```

### Resource to Opt Out of a Promotion by Using the Promotion Name

```
unenroll(promotionName:for:version:devMode:)
```

### Signature

```
public final func unenroll(
       promotionName: String,
       for membershipNumber: String,
       version: String = LoyaltyAPIVersion.defaultVersion,
       devMode: Bool = false) async throws
```

### Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the request is run in developer mode `(true)` or not `(false)`. | Optional |
| `membershipNumber` | String | Unique identifier of the member who wants to opt out of a promotion | Required |
| `promotionId` | String | ID of the promotion that the member wants to opt out of. | Required |
| `promotionName` | String | Name of the promotion that the member wants to opt out of. | Required |
| `version` | String | Version of the API. The request body is available in version 55.0 and later. | Optional |

### Sample Output

```
{
    "message" : null,
    "outputParameters" : {
        "outputParameters" : {
            "results" : [ {
                "LoyaltyProgramMbrPromotionId" : "1lpT100000000h4IAA"
            } ]
        }
    },
    "simulationDetails" : { },
    "status" : true
}
```

### Output Parameter

| Parameter | Type | Description |
|---|---|---|
| `LoyaltyProgramMbrPromotionId` | String | The ID of the promotion that the member opts out of. |

# Loyalty Management Mobile SDK for Android Development

Loyalty Management Mobile SDK for Android delivers source code, build scripts, and native sample app to develop mobile apps on Android.

To upgrade the Loyalty Management Mobile SDK for Android, see Update your tools with the SDK Manager.

EDITIONS

Available in: all editions that have Loyalty Management enabled

Clone and Import Loyalty Management Mobile SDK for Android
Clone the Loyalty Management Mobile SDK GitHub repository for Android to create a local copy of the repository on your development machine. The repository contains the code for the Loyalty Management Mobile SDK for Android and the MyNTORewards sample app. To create the Android application, Loyalty Management Mobile SDK for Android uses Android Studio to build the user interfaces in Android apps while interacting with Salesforce.

Loyalty Management Mobile SDK for Android Classes
The Android classes organize the Loyalty Management Mobile SDK's functionalities and data structures. When developing mobile apps using the SDK, these classes provide components, services, or features with which you can interact.

Loyalty Management Mobile SDK API References for Android
The Loyalty Management Mobile SDK for Android interacts with Salesforce Loyalty Management APIs and retrieves member benefits, transactions, profiles, promotions, vouchers, enrolls an individual member, opts a member out of a promotion.

# Clone and Import Loyalty Management Mobile SDK for Android

Clone the Loyalty Management Mobile SDK GitHub repository for Android to create a local copy of the repository on your development machine. The repository contains the code for the Loyalty Management Mobile SDK for Android and the MyNTORewards sample app. To create the Android application, Loyalty Management Mobile SDK for Android uses Android Studio to build the user interfaces in Android apps while interacting with Salesforce.

EDITIONS

Available in: all editions that have Loyalty Management enabled

Clone Mobile SDK for Android GitHub Repository
Clone the GitHub repository to copy the code base and revision history of the repository to your local computer.

Import SDK into Android Studio
After you clone the mobile SDK for Android repository, import Loyalty Management Mobile SDK in Android Studio to automatically download and manage external dependencies.

## Clone Mobile SDK for Android GitHub Repository

Clone the GitHub repository to copy the code base and revision history of the repository to your local computer.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Go to the Loyalty Management Mobile SDK Android repository.
2. To copy the repository URL to your clipboard, click **Code**, and then click .
3. Open Terminal, and go to the directory where you want to clone the repository.
4. Enter `git clone https://github.com/salesforce-misc/LoyaltyMobileSDK-Android`
5. Press Enter and wait for the repository to clone.

You can now set up your own development environment.

## Import SDK into Android Studio

After you clone the mobile SDK for Android repository, import Loyalty Management Mobile SDK in Android Studio to automatically download and manage external dependencies.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Unzip the `LoyaltyMobileSDK-Android` package that you downloaded.
2. Open Android Studio.
3. Go to **File** > **New** > **Import Project**, and then select the `LoyaltyMobileSDK-Android` folder.
4. Click **Open**.
5. Open the `SampleApps/MyNTORewards/build.gradle` file and under Dependencies block, to the first line of Dependencies, add:

   ```
   {implementation fileTree(dir: 'libs', include: ['*.jar']) implementation project(path: ':Sources') }
   ```

6. Open the `SampleApps/MyNTORewards/connectedapp.properties.sample` file and modify the properties of the connected app as per your org.
7. Rename the `connectedapp.properties.sample` file to `connectedapp.properties`.
8. Click **Sync Now**.
   Android Studio automatically downloads and manages external dependencies for the Mobile SDK and the Sample App.
9. Open the SDK files and ensure that the files include the appropriate SDK packages.

   Note: If the sync fails, disconnect the VPN to ensure there's no blocker when downloading the dependencies, and then resync.

10. Add the code snippet to add the appropriate SDK package:

    ```
    import com.salesforce.loyalty.mobile.sources.forceUtils.* import
    com.salesforce.loyalty.mobile.sources.loyaltyAPI.* import
    com.salesforce.loyalty.mobile.sources.loyaltyModels.* import
    com.salesforce.loyalty.mobile.sources.loyaltyExtensions.*
    ```

You can now use the classes and structures in the LoyaltyMobileSDK-Android module and API references to manage the features in your application.

# Loyalty Management Mobile SDK for Android Classes

The Android classes organize the Loyalty Management Mobile SDK's functionalities and data structures. When developing mobile apps using the SDK, these classes provide components, services, or features with which you can interact.

EDITIONS

Available in: all editions that have Loyalty Management enabled

### Logger

The `Logger` class provides a standardized way to save debug, verbose, info, or error log messages.

### LoyaltyClient

Create authentication network requests by using the `LoyaltyClient` class. `LoyaltyClient` uses `ForceAuthenticator`, which is an interface that defines the methods to handle access tokens in the Salesforce API. `LoyaltyClient` creates a retrofit instance to invoke Force APIs.

LoyaltyAPIManager for Android

Manage requests related to loyalty program and interactions between the application and the APIs. The `LoyaltyAPIManager` class manages requests related to loyalty programs using the `Force` API and manages authentication by using the instance of ForceAuthenticator that was injected at the time of initialization. Use this class to manage asynchronous requests by using Retrofit and Kotlin coroutines.

LoyaltyAPIInterface

The `LoyaltyApiInterface` class defines the interface for creating, formatting, and sending REST requests to the Salesforce service. This class stores REST API call definitions for all Loyalty API.

## Logger

The `Logger` class provides a standardized way to save debug, verbose, info, or error log messages.

Use this signature to define the Logger class.

```
object Logger
```

### Log a Debug Message

Use the `message` and `tag` parameters to log an informational message by using this code.

```
final Unit d(String tag, String message)
```

### Log an Error Message

Use the `message` parameter to log an error message by using this code.

```
final Unit e(String tag, String message, Throwable throwable)
```

### Log an Information Message

Use the `message` parameter to add an information log by using this code.

```
final Unit i(String tag, String message)
```

### Add a Verbose Log

Use the `message` parameter to log a verbose message by using this code.

```
final Unit v(String tag, String message)
```

## LoyaltyClient

Create authentication network requests by using the `LoyaltyClient` class. `LoyaltyClient` uses `ForceAuthenticator`, which is an interface that defines the methods to handle access tokens in the Salesforce API. `LoyaltyClient` creates a retrofit instance to invoke Force APIs.

Use this signature to define the `LoyaltyClient` class.

EDITIONS

Available in: all editions that have Loyalty Management enabled

```
public final class LoyaltyClient
extends NetworkClient
```

### getNetworkClient Method

Gives an implementation of the `retrofit` interface using an instance of `retrofit`.

```
LoyaltyApiInterface getNetworkClient()
```

## LoyaltyAPIManager for Android

Manage requests related to loyalty program and interactions between the application and the APIs. The `LoyaltyAPIManager` class manages requests related to loyalty programs using the `Force` API and manages authentication by using the instance of ForceAuthenticator that was injected at the time of initialization. Use this class to manage asynchronous requests by using Retrofit and Kotlin coroutines.

Use this signature to define the `LoyaltyAPIManager` class.

```
public final class LoyaltyAPIManager
```

### Method Summary

| Method | Description |
|---|---|
| `enrollInPromotions` | Enroll a loyalty member to a promotion, while asynchronously sending data to the Enroll for Promotions API. |
| `getEligiblePromotions` | Get promotions that a member is eligible to enroll for. |
| `getMemberBenefits` | Retrieve the benefits associated with a loyalty program member for the specified API version, while asynchronously requesting data from the Member Benefits API. |
| `getMemberProfile` | Get the profile details of a loyalty program member by using this code. |
| `getTransactions` | Get transaction journals of a loyalty member. Obtain either accrual or redemption transaction journal records. |
| `getVouchers` | Retrieve the vouchers issued to a loyalty member by using this code. |
| `postEnrollment` | Enroll a member to a loyalty program, while asynchronously sending data to the Individual Member Enrollments API. |
| `unEnrollPromotion` | Opt out a loyalty member from a promotion. |

### enrollInPromotions Method

Enroll a loyalty member to a promotion, while asynchronously sending data to the Enroll for Promotions API. Use this code to enroll a member.

```
final Result<EnrollPromotionsResponse> enrollInPromotions(String membershipNumber, String
 promotionName)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `memberShipNumber` | String | The membership number of the loyalty program member. | Required |
| promotionName | String | The promotion name the member is being enrolled to | Required |

## getEligiblePromotions Method

Get promotions that a member is eligible to enroll for. Use this code to get eligible promotions.

```
final Result<PromotionsResponse> getEligiblePromotions(String membershipNumber, String memberId)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `memberId` | Boolean | The identifier of the member whose eligible promotions are being retrieved. | Optional |
| `memberShipNumber` | String | The membership number of the loyalty program member. | Required |

## getMemberBenefits Method

Retrieve the benefits associated with a loyalty program member for the specified API version, while asynchronously requesting data from the Member Benefits API. Use this code to get member benefits.

```
final Result<MemberBenefitsResponse> getMemberBenefits(String memberId, String membershipNumber)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `memberId` | Boolean | Identifier of the member whose benefits are being retrieved. | Optional |
| `memberShipNumber` | String | The membership number of the loyalty program member. | Required |

## getMemberProfile Method

Get the profile details of a loyalty program member by using this code.

```
final Result<MemberProfileResponse> getMemberProfile(String memberId, String memberShipNumber, String programCurrencyName)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `memberId` | Boolean | Identifier of the member whose profile is being retrieved. | Optional |

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `memberShipNumber` | String | The membership number of the loyalty program member. | Required |
| `programCurrencyName` | String | The name of the loyalty program currency associated with the member. | Optional |

## getTransactions Method

Get transaction journals of a loyalty member. Obtain either accrual or redemption transaction journal records. Use this code to get transactions.

```
final Result<MemberBenefitsResponse> getMemberBenefits(String memberId, String membershipNumber)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `journalSubTypeName` | String | The subtype of the transaction journal record. | Optional |
| `journalTypeName` | String | The type of the transaction journal record. Possible values are:<br>• `Accrual`<br>• `Redemption` | Optional |
| `pageNumber` | Integer | The page number to be returned. If you don't specify a value, the first page is returned. Each page contains 200 transactions, sorted by their date of creation. | Optional |
| `memberShipNumber` | String | The membership number of the loyalty program member. | Required |
| `periodStartDate` | String | Retrieve transaction journals starting on this date. | Optional |
| `periodEndDate` | String | Retrieve transaction journals until this date. | Optional |

## getVouchers Method

Retrieve the vouchers issued to a loyalty member by using this code.

```
final Result<VoucherResult> getVouchers(String membershipNumber, Array<String> voucherStatus,
 Integer pageNumber, Array<String> productId, Array<String> productCategoryId, Array<String>
 productName, Array<String> productCategoryName)
```

This table shows the parameters in the `getVouchers` method.

| Parameter | Description |
|---|---|
| `membershipNumber` | Membership number of the member whose vouchers are being retrieved. |
| `voucherStatus` | The status of a voucher. |
| `pageNumber` | Number of the page you want returned. If you don't specify a value, the first page is returned. By default, each page contains 200 vouchers, which are sorted based on the voucher creation date. |
| `productId` | The ID of the product related to the vouchers that you want to retrieve. You can specify the ID of up to 20 products. |
| `productCategoryId` | The ID of the product categories related to the vouchers that you want to retrieve. You can specify the ID of up to 20 product categories. |
| `productName` | The product name related to the voucher. |
| `productCategoryName` | The name of the product categories related to the vouchers that you want to retrieve. You can specify the ID of up to 20 product category names. |

## postEnrollment Method

Enroll a member to a loyalty program, while asynchronously sending data to the Individual Member Enrollments API. Use this code to enroll a member.

```
final Result<EnrollmentResponse> postEnrollment(String firstName, String lastName, String
 email, Map<String, Object> additionalContactAttributes, Boolean emailNotification,
MemberStatus memberStatus, Boolean createTransactionJournals,
TransactionalJournalStatementFrequency transactionalJournalStatementFrequency,
TransactionalJournalStatementMethod transactionalJournalStatementMethod, EnrollmentChannel
 enrollmentChannel, Boolean canReceivePromotions, Boolean canReceivePartnerPromotions)
```

This table shows the parameters in the `postEnrollment` method.

| Parameter | Description |
|---|---|
| additionalContactAttributes | The person account record details of the individual type member. |
| canReceivePartnerPromotions | Indicates whether the member can receive partner promotions for the program (`true`) or not (`false`). |
| canReceivePromotions | Indicates whether the loyalty program member can receive promotions. |
| createTransactionJournals | Indicates whether to create the transaction journal records `true`) or not (`false`). |
| `email` | The email address of the member being enrolled. |
| `emailNotification` | Indicates whether the member wants to receive email notifications. |

| Parameter | Description |
| --- | --- |
| enrollmentChannel | The channel used to by loyalty program members to enroll in to the loyalty program. Possible values are:<br>• `Pos`<br>• `Web`<br>• `Email`<br>• `CallCenter`<br>• `Social`<br>• `Mobile`<br>• `Store`<br>• `Franchise`<br>• `Partner`<br>• `Print` |
| `firstName` | The first name of the member being enrolled. |
| `lastName` | The last name of the member being enrolled. |
| `memberStatus` | The status of the loyalty program member. Possible values are:<br>• `Active`<br>• `Inactive`<br>• `Custom` |
| `transactionalJournalStatementFrequency` | The frequency at which transaction journal statements must be delivered to the member. Possible values are:<br>• `Monthly`<br>• `Quarterly` |
| `transactionalJournalStatementMethod` | The method used to deliver transaction journal statements to the member. Possible values are:<br>• `Mail`<br>• `Email` |

## unEnrollPromotion Method

Opt out a loyalty member from a promotion. Use this code to opt out of a promotion.

```
final Result<UnenrollPromotionResponse> unEnrollPromotion(String membershipNumber, String
 promotionName)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `memberShipNumber` | String | Unique identifier of the member who wants to opt out of a promotion | Required |
| promotionName | String | Name of the promotion that the member wants to opt out of. | Required |

Create an Instance of LoyaltyAPIManager Class for Android
Create an instance of the `LoyaltyAPIManager` class and interact with the Loyalty Management APIs.

## Create an Instance of LoyaltyAPIManager Class for Android

Create an instance of the `LoyaltyAPIManager` class and interact with the Loyalty Management APIs.

1. Create an instance of `LoyaltyAPIManager` by using this signature.

```
val loyaltyAPIManager = LoyaltyAPIManager(
            auth = forceAuthManager,
            instanceUrl = mInstanceUrl,
            loyaltyClient = LoyaltyClient(forceAuthManager, mInstanceUrl)
        )```
```

2. To interact with the Loyalty Management API, call the appropriate methods by using this signature.

```
import LoyaltyMobileSDK

val forceAuthManager = ForceAuthManager(applicationContext)
val mInstanceUrl =
            forceAuthManager.getInstanceUrl() ?:
AppSettings.DEFAULT_FORCE_CONNECTED_APP.instanceUrl
val loyaltyAPIManager = LoyaltyAPIManager(
            auth = forceAuthManager,
            instanceUrl = mInstanceUrl,
            loyaltyClient = LoyaltyClient(forceAuthManager, mInstanceUrl)
        )
```

3. To enroll an individual member, use this signature.

```
let membershipNumber = "1234567890"
let firstName = "John"
let lastName = "Doe"
let email = "john.doe@example.com"
let phone = "4157891234"
let emailNotification = true

loyaltyAPIManager.postEnrollment(
                    firstName = firstName,
                    lastName = lastName,
                    email = email,
                    additionalContactAttributes = mapof("phone" to phone),
                    emailNotification = emailNotification,
```

```
                    memberStatus = MemberStatus.ACTIVE,
                    createTransactionJournals = true,
                    transactionJournalStatementFrequency =
TransactionalJournalStatementFrequency.MONTHLY,
                    transcationJournalStatementMethod =
TransactionalJournalStatementMethod.EMAIL,
                    enrollmentChannel = EnrollmentChannel.EMAIL,
                    canReceivePromotions = true,
                    canReceivePartnerPromotions = true
                )
```

4. To retrieve the member benefits, use this signature.

```
loyaltyAPIManager.getMemberBenefits(memberId = null, membershipKey = "1234567890")
```

5. To retrieve the member profile, use this signature.

```
loyaltyAPIManager.getMemberProfile(memberId = null, membershipKey = "1234567890",
programCurrencyName = null)
```

6. To opt a member into a promotion, use this signature.

```
loyaltyAPIManager.enrollInPromotions(membershipNumber = "1234567890", promotionName =
"PromotionName")
```

7. To opt out a member from a promotion using promotion ID or promotion name, use this signature.

```
loyaltyAPIManager.unEnrollPromotion(membershipNumber = "1234567890", promotionName =
"PromotionName")
```

8. To retrieve loyalty member transactions, use this signature.

```
loyaltyAPIManager.getTransactions(membershipNumber = "1234567890", pageNumber = null,
            journalTypeName = null, journalSubTypeName = null, periodStartDate = null,
 periodEndDate = null)
```

9. To retrieve promotions for a loyalty member, use this signature.

```
loyaltyAPIManager.getEligiblePromotions(membershipKey = "1234567890", memberId = null)
```

10. To retrieve vouchers for a loyalty member, use this signature.

```
loyaltyAPIManager.getVouchers(
                membershipKey = "1234567890", vouchreStatus = null, pageNumber = 1,
productId = null,
               productCategoryId = null, productName = null, productCategoryName = null

            )
```

## LoyaltyAPIInterface

The `LoyaltyApiInterface` class defines the interface for creating, formatting, and sending REST requests to the Salesforce service. This class stores REST API call definitions for all Loyalty API.

Use this signature to define the `LoyaltyAPIInterface` class.

```
public interface LoyaltyApiInterface
```

## Method Summary

| Modifier and Type | Method | Method Detail | Description |
|---|---|---|---|
| `abstract Result<EnrollmentResponse>` | `postEnrollment(@Url() String url, @Body() EnrollmentRequest json)` | `postEnrollment`<br>`@POST()`<br>`abstract Result<EnrollmentResponse> postEnrollment(@Url() String url,`<br>`@Body() EnrollmentRequest json)` | Creates a POST request for an individual enrollment for the loyalty program. |
| `abstract Result<MemberProfileResponse>` | `getMemberProfile(@Url() String url, @Query(value = "memberId") String memberId, @Query(value = "membershipNumber") String membershipNumber, @Query(value = "programCurrencyName") String programCurrencyName)` | `getMemberProfile`<br>`@GET()`<br>`abstract Result<MemberProfileResponse> getMemberProfile(@Url() String url,`<br>`@Query(value = "memberId") String memberId,`<br>`@Query(value = "membershipNumber") String membershipNumber,`<br>`@Query(value = "programCurrencyName") String programCurrencyName)` | Retrieves profile details related to the member ID. |
| `abstract Result<MemberBenefitsResponse>` | `getMemberBenefits(@Url() String url, @Query(value = "membershipNumber") String membershipNumber)` | `getMemberBenefits`<br>`@GET()`<br>`abstract Result<MemberBenefitsResponse> getMemberBenefits(@Url() String url,`<br>`@Query(value = "membershipNumber") String membershipNumber)` | Retrieves benefits related to the member ID. |
| `abstract Result<TransactionsResponse>` | `getTransactions(@Url() String url, @Query(value = "pageNumber") Integer pageNumber, @Query(value = "journalTypeName") String journalTypeName, @Query(value = "journalSubTypeName") String journalSubTypeName, @Query(value = "periodStartDate") String periodStartDate, @Query(value = "periodEndDate") String periodEndDate)` | `getTransactions`<br>`@GET()`<br>`abstract Result<TransactionsResponse> getTransactions(@Url() String url,`<br>`@Query(value = "pageNumber") Integer pageNumber,`<br>`@Query(value = "journalTypeName") String journalTypeName,`<br>`@Query(value = "journalSubTypeName") String journalSubTypeName,`<br>`@Query(value = "periodStartDate") String periodStartDate,`<br>`@Query(value = "periodEndDate") String periodEndDate)` | Retrieves transactions related to the member. |
| `abstract Result<PromotionsResponse>` | `getEligiblePromotions(@Url() String url, @Body() PromotionsRequest requestBody)` | `getEligiblePromotions`<br>`@POST()`<br>`abstract Result<PromotionsResponse> getEligiblePromotions(@Url() String url,` | Retrieves promotions that a promotion is eligible to enroll for. |

| Modifier and Type | Method | Method Detail | Description |
|---|---|---|---|
| | | `@Body() PromotionsRequest requestBody)` | |
| `abstract Result<EnrollPromotionsResponse>` | `enrollInPromotion(@Url() String url, @Body() PromotionsRequest requestBody)` | `enrollInPromotion`<br>`@POST() abstract Result<EnrollPromotionsResponse> enrollInPromotion(@Url() String url, @Body() PromotionsRequest requestBody)` | Enrolls member in a promotion. |
| `abstract Result<UnenrollPromotionResponse>` | `unenrollPromotion(@Url() String url, @Body() PromotionsRequest requestBody)` | `unenrollPromotion`<br>`@POST() abstract Result<UnenrollPromotionResponse> unenrollPromotion(@Url() String url, @Body() PromotionsRequest requestBody)` | Opts out a member from an available promotion. |
| `abstract Result<VoucherResult>` | `getVouchers(@Url() String url, @Query(value = "voucherStatus") String voucherStatus, @Query(value = "pageNumber") Integer pageNumber, @Query(value = "productId") String productId, @Query(value = "productCategoryId") String productCategoryId, @Query(value = "productName") String productName, @Query(value = "productCategoryName") String productCategoryName)` | `getVouchers`<br>`@GET() abstract Result<VoucherResult> getVouchers(@Url() String url, @Query(value = "voucherStatus") String voucherStatus, @Query(value = "pageNumber") Integer pageNumber, @Query(value = "productId") String productId, @Query(value = "productCategoryId") String productCategoryId, @Query(value = "productName") String productName, @Query(value = "productCategoryName") String productCategoryName)` | Retrieves vouchers that are available to the program member. |

# Loyalty Management Mobile SDK API References for Android

The Loyalty Management Mobile SDK for Android interacts with Salesforce Loyalty Management APIs and retrieves member benefits, transactions, profiles, promotions, vouchers, enrolls an individual member, opts a member out of a promotion.

Interact with the Loyalty Management APIs, including:

EDITIONS

Available in: all editions that have Loyalty Management enabled

| Resource | Description |
|---|---|
| /loyalty-programs/${loyaltyProgramName}/individual-member-enrollments on page 330 | Individual Member Enrollments |
| /connect/loyalty/programs/${programName}/programprocesses/EnrollPromotion on page 360 | Enroll for Promotions |
| services/apexrest/expense-analysis on page 645 | Expense Analysis |
| /connect/loyalty/programs/${programName}/programprocesses/GetMemberPromotions | Get Member Promotions |
| /connect/loyalty/member/${memberId}/memberbenefits | Member Benefits |
| /loyalty-programs/${loyaltyProgramName}/members | Member Profile |
| /loyalty/programs/${programName}/members/${membershipNumber}/vouchers | Member Vouchers |
| services/apexrest/receipt-status-updation on page 663 | Receipt Status Updation |
| services/apexrest/upload-receipt on page 665 | Receipt Upload |
| /connect/loyalty/programs/${programName}/transaction-history | Transaction History |
| /connect/loyalty/programs/${programName}/programprocesses/UnenrollMember | Opt Out from a Promotion |

# Loyalty Management Sample App for Mobile SDK

Loyalty Management Sample App for Mobile SDK is a configurable, native iOS and Android mobile app that delivers a personalized loyalty experience with every iOS and Android mobile device. Build the sample app for your loyalty program members to experience the loyalty and reward capabilities. The app provides a quick turnaround as opposed to a loyalty app that is built from scratch.

EDITIONS

Available in: all editions that have Loyalty Management enabled

Loyalty Management Sample App for Mobile SDK offers a range of customization options. Customize the look and feel of your loyalty program, set up reward structures, and define the accrual and redemption rules.

### Use the Loyalty Management Mobile SDK Sample App

The MyNTORewards sample apps are a reference implementation of Loyalty Management Mobile SDK capabilities, and include the SDK's code, structure, and implementation. You can either implement the source code provided with the sample app in your existing code as-is or extend the capabilities of the code by modifying the code.

### Walkthrough of the Sample App for Loyalty Management Mobile SDK

Adam can enroll as a loyalty program member and can experience Loyalty Management on the mobile device. Let's look at how Adam uses the sample app for Loyalty Management Mobile SDK.

Customize the Android SDK

After you build the Loyalty Management Mobile SDK for Android, you can customize the colors, fonts, and strings.

Customize the iOS SDK

After you build the Loyalty Management Mobile SDK for iOS, you can customize the colors and fonts to suit your requirements. You can also replace the existing images and logos included in the SDK for the sample app.

# Use the Loyalty Management Mobile SDK Sample App

The MyNTORewards sample apps are a reference implementation of Loyalty Management Mobile SDK capabilities, and include the SDK's code, structure, and implementation. You can either implement the source code provided with the sample app in your existing code as-is or extend the capabilities of the code by modifying the code.

After ensuring you have the necessary development tools, dependencies, and the SDK installed, integrate the Loyalty Management Mobile SDK sample app code in your iOS or Android project:

1. Go to the location from where you downloaded the iOS or Android SDK, and select **SampleApps** > **MyNTORewards**.
2. From the Sample Apps project, copy the files that you want to reuse in your project.
3. Open an existing or new project in Xcode or Android Studio, and create a class or file.
4. Paste the files that you copied from the MyNTORewards sample apps.
5. Import any necessary dependencies that are used within.
6. Modify the code as per your requirements.
7. Test your app after you add the sample app code in iOS or Android.

Example: For example, consider the source code for the class, CommunityMemberModel:

```
package com.salesforce.loyalty.mobile.myntorewards.utilities

data class CommunityMemberModel(
    val firstName: String?,
    val lastName: String?,
    val email: String?,
    val loyaltyProgramMemberId: String?,
    val loyaltyProgramName: String?,
    val membershipNumber: String?
)
```

You can use the CommunityMemberModel class to represent the community member information as per your app. For example, you can create instances of this class to store member data:

```
val member = CommunityMemberModel(
    firstName = "Adam",
    lastName = "Smith",
    email = "adamsmith@example.com",
    loyaltyProgramMemberId = "123456",
    loyaltyProgramName = "NTO Insider Loyalty Program",
    membershipNumber = "78190"
)
```

You can modify the code provided with the sample app in the SDK to extract and store member data:

```
val firstName = member.firstName
val lastName = member.lastName
```

```
val email = member.email
val loyaltyProgramName = member.loyaltyProgramName
```

# Walkthrough of the Sample App for Loyalty Management Mobile SDK

Adam can enroll as a loyalty program member and can experience Loyalty Management on the mobile device. Let's look at how Adam uses the sample app for Loyalty Management Mobile SDK.

| CapaBility | Adam's Journey |
|---|---|
| Join as loyalty program | Opens the sample app on a mobile device and signs up as a member of the NTO Rewards loyalty program.<br>Adam uses their Experience Cloud site email address to enroll in the NTO Insider program. |
| Review the membership details on the home page | Checks their current points balance, available promotions, vouchers, and badges. |
| Opt in for promotions | Reviews the list of promotions that are available to join and joins the Gold Tier Rejuvenation promotion.<br>As a promotion enrollment bonus, 500 reward points are credited to Adam's points balance. |
| Add items to a cart and place an order<br>You can extend the checkout workflow based on your mobile app's requirements. | Adds a red jacket to the cart, proceeds to the checkout page, enters the payment details, and places the order. |
| Track order rewards | Views the transactions list on the home page to verify the points that have been credited for the placed order. |
| View vouchers received for orders | Views the list of vouchers to verify that the Holiday Season voucher has been issued as a reward for the placed order. |
| Scan receipts for third-party store purchases | Uses the QR code scanner that's available on the My Profile tab to scan the receipt of a purchase made at a third-party store. |
| View and play assigned games | Goes to the Game Zone tab, opens an assigned game, and plays the game.<br>After Adam plays the game, a game reward of 100 reward points is provided to Adam. |

# Customize the Android SDK

After you build the Loyalty Management Mobile SDK for Android, you can customize the colors, fonts, and strings.

1. Customize the colors.
   a. With your Sample Apps project open in Android Studio, open the **MyNTORewards** > **src** > **main** > **java** > **com** > **salesforce** > **loyalty** > **mobile** > **myntorewards** > **ui** > **theme** > **Color.kt** file.

b. To add a color to the Android UI theme or as another app color, edit the `Color.kt` file.

   For example, to add blue as one of the app colors, open the `Color.kt` file, and under `//App Colors`, add the `val Blue = Color(0x0000FF33)` code.

c. Save the `Color.kt` file.

d. To add the new color in any of the component definitions, add an entry or replace an entry with the new color.

   For example, to replace the vibrant purple 40 color with blue, in any of the files, replace `color = VibrantPurple40` with `color = Blue`.

e. Clean and rebuild your project in Android Studio.

2. Add a font to the Android UI theme.

   a. With your Sample Apps project open in Android Studio, go to the **MyNTORewards** > **src** > **main** > **res** > **font** folder.

   b. In the font folder, paste a .ttf file with the font script that you want to add.

   c. Open the **MyNTORewards** > **src** > **main** > **java** > **com** > **salesforce** > **loyalty** > **mobile** > **myntorewards** > **ui** > **theme** > **Type.kt** file.

   d. Edit the `Type.kt` file, and add the file that you added in the font folder.

      For example, to add Arial as one of the fonts, edit the `Type.kt` file to add the sample code:

```
val font_arial = FontFamily(
    Font(R.font.arial)
)
```

   e. Save the `Type.kt` file.

   f. Add this font in any of the component definitions.

      For example, to replace the `sf_pro` font on the My Transactions page with Arial, replace `fontFamily = font_sf_pro` with `fontFamily = font_arial`.

   g. Clean and rebuild your project in Android Studio.

3. Customize the UI labels or strings used in your Sample App.

   a. Open the **MyNTORewards** > **src** > **main** > **res** > **values** > **strings.xml** file.

   b. Edit any text included in the `<string>` tag.

      For example, to change the text Membership Number to Membership ID, replace all the strings that contain Membership Number with Membership ID.

   c. Save the `strings.xml` file.

   d. Clean and rebuild your project in Android Studio.

4. To replace an image, go to **MyNTORewards** > **src** > **main** > **res** > **drawable**, and replace the image.

# Customize the iOS SDK

After you build the Loyalty Management Mobile SDK for iOS, you can customize the colors and fonts to suit your requirements. You can also replace the existing images and logos included in the SDK for the sample app.

1. Customize the colors.

a. With your Sample Apps project open in Xcode, select **MyNTORewards** > **MyNTORewards** > **Assets** > **Colors**.

b. To modify an existing colorset, click **Any Appearance**, and under Color, edit the Hex value.

c. To add the dark color, click **Dark**, and from Content, select a color.

d. To add a color theme, open the **MyNTORewards** > **MyNTORewards** > **Misc** > **Color** file, and add a color theme to the sample code.

For example, to add blue color to the theme, use this code:

```
struct ColorTheme {let blue = Color("BlueColor")}
```

e. To use a color in the app, use these sample codes as view or within view modifier:

```
ZStack {
       Color.theme.[color]
}
```

Or `background(Color.theme.[color])`

For example, to add Blue color to the theme, use this code as view or within view modifier:

```
ZStack {
       Color.theme.blue
}
```

Or `background(Color.theme.blue)`

2. Add your font to the iOS app.

a. Add your font to the Xcode project.

b. Add your font to the **MyNTORewards** > **MyNTORewards** > **Info.plist** file.

3. Use the font that you added in the app.

a. With your Sample Apps project open in Xcode, select **MyNTORewards** > **MyNTORewards** > **UICompnents** > **FontStyles.swift** file.

b. Edit the file and add the location where you want to use the font. For example, to customize a footer text, use this sample code:

```
static var footerText: Font {
                            return Font.custom("SFPro-Regular", size: 16)
}
```

c. In the Text view, call the font style as a new modifier with the sample code:

```
Text("Footer")
                            .font(.footerText)
```

d. Save your changes.

4. To replace an image, go to **MyNTORewards** > **MyNTORewards** > **Assets** > **Images**. For example, to replace a logo, go to the**MyNTORewards** > **MyNTORewards** > **Assets** > **Icons**folder, and modify the logo file.

# Receipt Scanning with Loyalty Management Mobile SDK

Members of your loyalty program can scan and upload the purchase receipts of third-party store or site transactions on the Loyalty Management iOS or Android mobile app. After members upload their receipts, members are rewarded for eligible purchases, they can also view the accrued points on the Loyalty Management mobile app.

Watch this video to understand how you can enable members to earn rewards by purchasing your company's products from multibrand and third-party stores.

Watch a video

If you aren't able to watch the video in full screen, open the video on a new tab: Reward Members for Shopping at Multibrand (Third-Party) Stores.

How Receipt Scanning Works

Integrate Loyalty Management with receipt scanning to enhance your brand's member experience and streamline how members can earn loyalty points for their store purchases. The receipt scanning workflow is designed to automatically extract and organize essential information from scanned receipts and reward members for their store purchases.

Loyalty Management Receipt Scanner Kit Unlocked Package

The Loyalty Management Receipt Scanner Kit unlocked package allows members to scan and submit receipts to receive loyalty points that they're purchases are eligible for. After the receipt is submitted, the package automatically creates transaction journals for the eligible receipt line items. The unlocked package contains a set of components, and developers can select the modular components that they want to use in their implementation. Unlocked packages are customizable and help you easily manage and reuse components across different projects.

Set Up Amazon Web Services

To integrate the Loyalty Management Receipt Scanning Kit unlocked package with Amazon Web Services (AWS), create an S3 bucket that stores the receipt images, and create roles, policies, and users. Then, get the access key and secret ID to authenticate the access to AWS resources.

Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

To ensure that members can submit their receipts by using their Loyalty Management mobile app and get rewarded for eligible receipt line items, install and set up the Loyalty Management Receipt Scanner Kit Unlocked Package in your Salesforce org. Before you install the unlocked package, ensure that you have a loyalty program already set up in your org.

Receipt Scan and Upload on iOS and Android

After you set up the Loyalty Management Receipt Scanner Kit unlocked package and integrate the Loyalty Management org with an Optical Character Recognition (OCR) software, members can upload and scan receipts by using the loyalty program's mobile app. Members are rewarded for with loyalty points for eligible receipt line items.

## How Receipt Scanning Works

Integrate Loyalty Management with receipt scanning to enhance your brand's member experience and streamline how members can earn loyalty points for their store purchases. The receipt scanning workflow is designed to automatically extract and organize essential information from scanned receipts and reward members for their store purchases.

Why Integrate Loyalty Management With a Receipt Scanner?

Brands that don't own their sales channels can't accurately track customer purchases made in on third-party stores or sites. In such scenarios, the brand's loyalty program needs a receipt-scanning solution that can scan the items from a receipt, identify eligible items, and reward the points to the members.

Receipt Scanning Workflow
The receipt scanning workflow describes how a program member uploads and scans a receipt, verifies the scanned result, and earns loyalty points.

Receipt Evaluation
Members use their mobile phones to upload their purchase receipts. After a member uploads a receipt, they can review the receipt's scanned line items, and submit the scanned receipt. After a receipt is submitted, the eligible line items are processed as transaction journals and members are rewarded. You can define how a receipt is evaluated when you enable Receipt Scanning.

## Why Integrate Loyalty Management With a Receipt Scanner?

Brands that don't own their sales channels can't accurately track customer purchases made in on third-party stores or sites. In such scenarios, the brand's loyalty program needs a receipt-scanning solution that can scan the items from a receipt, identify eligible items, and reward the points to the members.

For Loyalty Management's receipt scanning capabilities, install the Loyalty Management Receipt Scanner Kit package and then integrate the package with any optical character recognition (OCR) and document processing software such as Amazon Textract AnalyzeExpense. The integration helps convert text from receipts into a valid format.

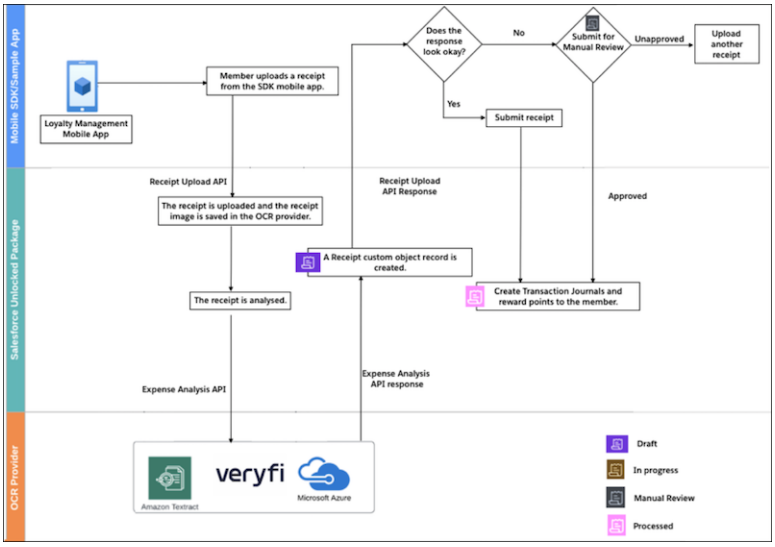
EDITIONS

Available in: all editions that have Loyalty Management enabled

**Example:** Member shops at a shopping mall for their loyalty products. Then, the Member logs in to the mobile app and submits the receipt to earn points. The receipts are verified and the member is rewarded for the purchase of the eligible items.

## Receipt Scanning Workflow

The receipt scanning workflow describes how a program member uploads and scans a receipt, verifies the scanned result, and earns loyalty points.




- After a member uploads a receipt by using the Loyalty Management iOS or Android mobile app, the Receipt Upload API is automatically run to encode the receipt.
- The AnalyzeExpense API is then automatically executed for the encoded receipt, and the response creates a record to store the receipt data in an Amazon S3 bucket. The API scans the uploaded receipt and provides the details of the receipt as a response. The

response is saved in the custom object, Receipts, in the Loyalty Management app. The member then previews the scanned results on the mobile app, and submits the receipt. A transaction journal is created for each line item in the receipt.

- If the member submits the receipt for a manual review, the loyalty program manager or admin reviews, and approves or rejects the receipt.

  If the program manager approves the receipt, the Receipt Status Updation API updates the status of the receipt to Processed, updates the reward points, and creates a transaction journal for each line item in the receipt. The RulesEngineResponseWrapper Apex class shows the response returned from Transaction Journal Execution API that includes the transaction journal details.

## Receipt Evaluation

Members use their mobile phones to upload their purchase receipts. After a member uploads a receipt, they can review the receipt's scanned line items, and submit the scanned receipt. After a receipt is submitted, the eligible line items are processed as transaction journals and members are rewarded. You can define how a receipt is evaluated when you enable Receipt Scanning.

Here are the factors for evaluating.

EDITIONS

Available in: all editions that have Loyalty Management enabled

### Confidence Score

Define a confidence score to assess if the scanned receipt meets the criteria to extract the receipt information. A confidence value higher than the defined threshold value typically implies greater certainty in the accuracy of the receipt scanning result, while a lower value suggests more uncertainty in reading the receipt.

To understand how a receipt is evaluated based on the confidence score, consider these scenarios:

| Business Scenario | Result | What Happens in this Scenario? |
|---|---|---|
| A member uploads a clean receipt and the receipt content is readable. | The confidence value for the receipt is higher than or equal to the threshold value. | Submit the receipt and get rewards for eligible items. |
| A member uploads a crumpled receipt or a receipt with poor image quality, and the receipt lines are partially readable. | The confidence value for the crumpled receipt is lower than the threshold value. | Submit the receipt for a manual review or capture the image again to ensure that it's readable. |
| A member uploads a crumpled or a torn receipt, and the mandatory fields on the receipt such as receipt number, date, and store name aren't readable. | The confidence value for the crumpled receipt is lower than the threshold value. | The receipt is rejected because the information required to process the receipt wasn't extracted. |

### Ineligible Receipt Items

Configure the receipt scanning to show members the items from their receipt that aren't eligible for loyalty points. Typically, items that don't meet the criteria for earning loyalty points include certain excluded categories, products, or expired promotions.

### Required Receipt Fields

If any mandatory information is missing in a receipt uploaded by a member, the receipt is rejected. When you enable receipt scanning, Receipt Date is a mandatory field to be included in every receipt. You can select the other mandatory fields from these options:

- Receipt Number

- Store Name
- Postal Code

You can also configure additional mandatory fields on a receipt.

## Eligible Item Identifier Fields

When you enable receipt scanning, you can select fields that uniquely determine eligible items from a receipt. For example, if you select product name and product code as the eligible item identifier fields, the receipt is evaluated to determine the eligible items, and the results show the products that match the filter criteria with product name and product code.

Consider this example to understand how an eligible item is determined. Adam Smith submits a receipt by using the Loyalty Management mobile app.

The receipt is uploaded using the Receipt Upload API, and the Expense Analysis API provides the scanned results by using this JSON response:


```
"{"ExpenseDocuments":[
{"SummaryFields":[
{"ValueDetection":{"Text":"FROSTFLAKES SNOWFLAKES"},"Type":{"Text":"NAME"}},
{"ValueDetection":{"Text":"260.00"},"Type":{"Text":"AMOUNT_PAID"}},
{"ValueDetection":{"Text":"19-04-2018"},"Type":{"Text":"INVOICE_RECEIPT_DATE"}},
{"ValueDetection":{"Text":"38"},"Type":{"Text":"INVOICE_RECEIPT_ID"}},
{"ValueDetection":{"Text":"23BBNCA2901C1Z6"},"Type":{"Text":"TAX_PAYER_ID"}},
{"ValueDetection":{"Text":"23BBNCA2901C1Z6"},"Type":{"Text":"VENDOR_GST_NUMBER"}},
{"ValueDetection":{"Text":"247.62"},"Type":{"Text":"SUBTOTAL"}},
{"ValueDetection":{"Text":"6.19"},"Type":{"Text":"TAX"}},
{"ValueDetection":{"Text":"6.19"},"Type":{"Text":"TAX"}},
{"ValueDetection":{"Text":"260.00"},"Type":{"Text":"TOTAL"}},
{"ValueDetection":{"Text":"FROSTFLAKES SNOWFLAKES"},"Type":{"Text":"VENDOR_NAME"}},
{"ValueDetection":{"Text":"2001"},"Type":{"Text":"OTHER"}},
{"ValueDetection":{"Text":"01"},"Type":{"Text":"OTHER"}},
{"ValueDetection":{"Text":"06:17:34 PM"},"Type":{"Text":"OTHER"}},
{"ValueDetection":{"Text":"Q38"},"Type":{"Text":"OTHER"}},
{"ValueDetection":{"Text":"Cashier 1"},"Type":{"Text":"OTHER"}},
{"ValueDetection":{"Text":"QUICK SERVICE"},"Type":{"Text":"OTHER"}},
{"ValueDetection":{"Text":"Cash"},"Type":{"Text":"OTHER"}}],
```

```
"LineItemGroups":[
"LineItems":[
{"LineItemExpenseFields":[
{"ValueDetection":{"Text":"THE PHAL"},"Type":{"Text":"PRODUCT_NAME"}},
{"ValueDetection":{"Text":"95.24"},"Type":{"Text":"UNIT_PRICE"}},
{"ValueDetection":{"Text":"1.00"},"Type":{"Text":"QUANTITY"}},
{"ValueDetection":{"Text":"95.24"},"Type":{"Text":"PRICE"}},
{"ValueDetection":{"Text":"THE PHAL 95.24 1.00 95.24"},"Type":{"Text":"EXPENSE_ROW"}}
]},
{"LineItemExpenseFields":[
{"ValueDetection":{"Text":"NATURAL"},"Type":{"Text":"PRODUCT_NAME"}},
{"ValueDetection":{"Text":"76.19"},"Type":{"Text":"UNIT_PRICE"}},
{"ValueDetection":{"Text":"1.00"},"Type":{"Text":"QUANTITY"}},
{"ValueDetection":{"Text":"76.19"},"Type":{"Text":"PRICE"}},
{"ValueDetection":{"Text":"NATURAL 76.19 1.00 76.19"},"Type":{"Text":"EXPENSE_ROW"}}
]},
{"LineItemExpenseFields":[
{"ValueDetection":{"Text":"FIGS"},"Type":{"Text":"PRODUCT_NAME"}},
{"ValueDetection":{"Text":"76.19"},"Type":{"Text":"UNIT_PRICE"}},
{"ValueDetection":{"Text":"1.00"},"Type":{"Text":"QUANTITY"}},
{"ValueDetection":{"Text":"76.19"},"Type":{"Text":"PRICE"}},
{"ValueDetection":{"Text":"FIGS 76.19 1.00 76.19"},"Type":{"Text":"EXPENSE_ROW"}}]}]}
]}]}"
```


The loyalty program admin has selected Price as the eligible item identifier field, and so the receipt line item's response shows eligible items by comparing the line item's price with the product price. The eligible items in the receipt are: The Phal, Natural, and Figs.

# Loyalty Management Receipt Scanner Kit Unlocked Package

The Loyalty Management Receipt Scanner Kit unlocked package allows members to scan and submit receipts to receive loyalty points that they're purchases are eligible for. After the receipt is submitted, the package automatically creates transaction journals for the eligible receipt line items. The unlocked package contains a set of components, and developers can select the modular components that they want to use in their implementation. Unlocked packages are customizable and help you easily manage and reuse components across different projects.

EDITIONS

Available in: all editions that have Loyalty Management enabled

Loyalty Management Receipt Scanner Kit Unlocked Package Components
The Loyalty Management Receipt Scanner Kit unlocked package contains a set of components such as custom objects, fields, Apex classes, Lightning web components, and more to facilitate easier distribution of these bundled components.

## Loyalty Management Receipt Scanner Kit Unlocked Package Components

The Loyalty Management Receipt Scanner Kit unlocked package contains a set of components such as custom objects, fields, Apex classes, Lightning web components, and more to facilitate easier distribution of these bundled components.

EDITIONS

Available in: all editions that have Loyalty Management enabled

### Custom Objects

The package consists of custom objects that store the details of the scanned receipts.

| Object | What the Object Stores |
|---|---|
| Receipt | Saves the details of the scanned and submitted receipts |
| Receipt Scanning Error | Saves the details of the errors that occur while scanning receipts. |

## Permission Set, List View, Page Layout, and Tab

The Receipt Scanning permission set enables loyalty program members to access the Receipt Scanning feature.

Loyalty program managers can review all submitted receipts on the Receipts tab on the Loyalty Management app. In Setup, the Receipt Scanning setting enables your loyalty program members to scan receipts on their Loyalty Management iOS and Android mobile apps, and to earn loyalty points for eligible items.

## Custom Settings

The package consists of a custom setting that stores the values that are required to connect Loyalty Management with an Optical Character Recognition (OCR) software.

| Setting | What the Setting Stores |
|---|---|
| API Endpoint Details | The API Gateway endpoint URL that is used to access and interact with<br>• The APIs<br>• The bucket details that store the objects used in the AWS endpoint<br>• The API Named Credential that provides the API Gateway endpoint's URL<br>• The authentication settings for Salesforce to make callouts to AWS |

## Custom Label

The package consists of a custom label that stores the values that are required to reward non-qualifying points.

| Setting | What the Setting Stores |
|---|---|
| PrimaryNQPCurrencyName | This label stores the primary NQP currency name. To replace this currency name with your program's primary NQP currency, from the Setup page, search and find **Custom Label**, and then edit and replace the label. |

## Apex Classes

The unlocked package contains Apex classes to run the Expense Analysis API and Receipt Status Updation API for submitted receipts, and to show the scan results on the Loyalty Management mobile app.

| Apex Class | What the Class Does |
|---|---|
| DMLManager | Manages Data Manipulation Language (DML) statements to insert, update, merge, delete, and restore data in Salesforce. |
| ExpenseAnalysis | Manages the request to process the uploaded receipt. |
| ProcessTransactionJournal | Creates transaction journals for each line item of a scanned receipt and calls the Rules Engine API to process the transaction journals. |
| ReceiptScanningConfigController | Manages the receipt scanning configuration. |
| ReceiptScanningControllerUtils | Manages the common functionality methods. |
| ReceiptScanningResponseWrapper | Analyzes the eligible and ineligible items in the receipt after a receipt is uploaded and returns a response of line items for the scanned receipt. |
| ReceiptStatusUpdate | Updates the status of receipts by sending REST requests to a specific location or endpoint. |
| ReceiptUpload | Manages the request to upload the receipt and creates a request to analyze the uploaded receipt. |
| ReceiptWrapper | Represents the data structure of an AWS response. |
| RulesEngineResponseWrapper | Analyzes the response returned from the Rules Engine API that includes transaction journal details. |

## Custom Metadata Types

The unlocked package contains custom metadata types to create and store the objects and fields related to receipt scanning.

| Custom Metadata Type | What the Custom Metadata Type Does | Examples |
|---|---|---|
| Accepted Date Format | Represents the configuration of the accepted date format and the store name fields related to the receipt. | 26/02/2022 |
| Required Receipt Fields | Represents the configuration of the mandatory fields to be captured from a scanned receipt. | Receipt Date |
| Receipt Scanning | Represents the configuration details related to the receipt scanning feature. | Confidence score, named credential, receipt scanning activity, and show ineligible receipt items |

## Apex Trigger

The unlocked package contains apex triggers to update the status of a receipt and to automatically assign the Receipt Scanning permission set to Experience Cloud users.

| Apex Trigger | What the Apex Trigger Does |
|---|---|
| ReceiptUpdateTrigger | Creates transaction journals, and processes the journals by using the Rule Engine API. |
| UserReceiptScanTrigger | Automatically assigns the Receipt Scanning permission set to all the Experience Cloud profile users, after the admin installs the unlocked package.<br>For existing loyalty program members, the admin has to manually assign the Receipt Scanning permission set to the members' Experience Cloud users. |

### Customizations

Admins can customize their receipt scanning implementation by extending the component provided by the Loyalty Management Receipt Scanner Kit unlocked package. The admin can add additional checks that decide which elements must be available in a receipt for it to be eligible to be rewarded.

Example: For example, if the loyalty program manager wants to add a filter logic that decides which products details must be available in a receipt, the admin can customize these package components:

- Apex classes
  - ReceiptScanningResponseWrapper
  - ReceiptScanningControllerUtils
  - receiptScanningDetail
  - Eligible Item Identifier Field custom metadata type

## Set Up Amazon Web Services

To integrate the Loyalty Management Receipt Scanning Kit unlocked package with Amazon Web Services (AWS), create an S3 bucket that stores the receipt images, and create roles, policies, and users. Then, get the access key and secret ID to authenticate the access to AWS resources.

1. Create Your Amazon S3 Bucket
   Create a bucket to store your receipt images and any other data in AWS.
2. Create an IAM Role
   Create your Identity and Access Management (IAM) role to control the access to your Amazon S3 bucket. The IAM role ensures the security and functioning of AWS resources.
3. Attach a Policy to the IAM Role
   After you create an Identity and Access Management (IAM) role for your S3 bucket, create a policy and attach the policy to the IAM role. Policies define the actions for IAM roles and users.
4. Get Your AWS ARN
   After the Identity and Access Management (IAM) role is created, and a policy is attached to the role, you can copy the unique identifiers of AWS resources, Amazon Resource Names (ARN). Use the ARN when you create the API gateway.

5. Create an IAM User
   An Identity and Access Management (IAM) user manages the access and permissions for the users and applications within your AWS account. Create an IAM user and assign permissions to the IAM user to independently maintain security and access control in your AWS Management Console.
6. Create Access Key and Secret
   After you create an IAM user, create an access key for the user and download the access key and secret. Use the access keys and secrets to authenticate and authorize programmatic access to AWS resources.
7. Create an API Gateway
   Create an API Gateway that serves as an entry point for all incoming API requests.
8. Get the Invoke URL
   After you create the API and select a deployment stage, deploy the API so that members can upload their receipts and get loyalty points. This invoke URL is used to create the API Endpoint Details custom setting and represents the Remote Site URL for your AWS API Gateway endpoint.

## Create Your Amazon S3 Bucket

Create a bucket to store your receipt images and any other data in AWS.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **S3**.
3. Click **Create bucket**.
4. In AWS Region, select the region where you want the bucket to reside.
5. Enter a name for your bucket.
6. Click **Create bucket**.

## Create an IAM Role

Create your Identity and Access Management (IAM) role to control the access to your Amazon S3 bucket. The IAM role ensures the security and functioning of AWS resources.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **IAM**.
3. From the navigation menu, click **Roles**.
4. Click **Create role**.
5. From the Service or use case dropdown list, select **API Gateway**, and then click **Next**.
6. On the Add permissions page, click **Next**.
7. Enter the role name and description, and then click **Create role**.

## Attach a Policy to the IAM Role

After you create an Identity and Access Management (IAM) role for your S3 bucket, create a policy and attach the policy to the IAM role. Policies define the actions for IAM roles and users.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **IAM**.
3. From the navigation menu, click **Roles**.
4. Click the IAM role that you created.
5. Under Permissions, from Add permissions, select **Attach policies**.
   If you see the Create policy button instead of the Attach policies button, click Create policy and follow the subsequent steps.
6. From the navigation menu, under Access management, click **Policies**, and then click **Create policy**.
7. From Service, select **S3**.
8. In the Actions allowed list, find and select the PutObject write action.
9. Under Resources, click **Add ARNs**.
10. Specify the ARNs.
    a. Enter your S3 bucket name as the resource bucket name.
    b. In Resource object name, select **Any object name**.
    c. Click **Add ARNs**.
11. Click **Next**.
12. On the Review and create page, enter your policy name and description, and then click **Create policy**.
    The policy is created, you can now attach this policy to the IAM role.
13. On the Policies page, find and select your policy.
14. Click **Entities Attached**.
15. Under Attached as a permissions policy, click **Attach**, and select the IAM role that you created.
16. Click **Attach policy**.
17. From the navigation menu, under Access management, click **Roles**, and then select the role that you created.
18. Under Permissions, from Add permissions, select **Attach Policies**.
19. Select the **AdministratorAccess** option, and then click **Add permissions**.

## Get Your AWS ARN

After the Identity and Access Management (IAM) role is created, and a policy is attached to the role, you can copy the unique identifiers of AWS resources, Amazon Resource Names (ARN). Use the ARN when you create the API gateway.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **IAM**.
3. From the navigation menu, click **Roles**.
4. Click the IAM role that you created.
5. Under Summary, click to copy the ARN.

## Create an IAM User

An Identity and Access Management (IAM) user manages the access and permissions for the users and applications within your AWS account. Create an IAM user and assign permissions to the IAM user to independently maintain security and access control in your AWS Management Console.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **IAM**.
3. From the navigation menu, click **Users**.
4. Click **Create user**.
5. Enter a username, and then click **Next**.
6. Under Permissions options, click **Attach policies directly**.
7. Under Permissions policies, enter `textract`.
8. Select **AmazonTextractFullAccess**, and find and select **AmazonS3ReadOnlyAccess**.
9. Click **Next**.
10. Click **Create user**.

## Create Access Key and Secret

After you create an IAM user, create an access key for the user and download the access key and secret. Use the access keys and secrets to authenticate and authorize programmatic access to AWS resources.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **IAM**.
3. From the navigation menu, click **Users**.
4. Select the user that you created.
5. Under Summary, click **Create access key**.
6. Select **Application running outside AWS**, and then click **Next**.
7. Enter a description to define the purpose of the key, and then click **Create access key**.
8. To ensure that you don't lose the access credentials, download the CSV file that contains the access key and secret.

## Create an API Gateway

Create an API Gateway that serves as an entry point for all incoming API requests.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **API Gateway**.
3. Click **Create API**.
4. Under REST API, click **Build**.
5. Enter a name and description for the new API, and then click **Create API**.
6. Click **Create resource**.
7. Enter `{bucket}` as the resource name.

8. Select **CORS (Cross Origin Resource Sharing)**, and then click **Create resource**.
9. To create another resource for bucket, select **bucket**, and then click **Create resource**.
10. Enter `{filename}` as the resource name.
11. Select **CORS (Cross Origin Resource Sharing)**, and then click **Create resource**.
12. To create a method under filename, select **filename**, and then click **Create method**.
13. For the Method type, select **PUT**.
14. Select **AWS service** as the integration type.
15. From AWS Region, select the region of your S3 bucket.
16. From AWS service, select **Simple Storage Service (S3)**.
17. Select **PUT** as the HTTP method.
18. Select **Use path override** as the action type.
19. In Execution role, paste the ARN for the IAM role that you created earlier.
20. Click **Create method**.
21. On the PUT-Method Execution page, click **Integration request.**
22. Click **Edit**.
23. Expand URL path parameters, and click **Add path**, and enter these details:
    - Name: `bucket`
    - Mapped from: `method.request.path.bucket`
24. Save your changes.
25. Under Integration request, click **Edit**, and then expand URL path parameters.
26. Click **Add path** again, and enter these details:
    - Name: `filename`
    - Mapped from: `method.request.path.filename`
27. Save your changes.
28. From the navigation menu, click **API settings**.
29. To allow all the media types, under Binary media types, click **Manage media types**.
30. Click **Add binary media type**, and enter `*/*`.
31. Save your changes.
32. Similarly, create the Get and Delete methods under `/{bucket}/{filename}`.

## Get the Invoke URL

After you create the API and select a deployment stage, deploy the API so that members can upload their receipts and get loyalty points. This invoke URL is used to create the API Endpoint Details custom setting and represents the Remote Site URL for your AWS API Gateway endpoint.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Log in to your AWS Management Console.
2. From the Services menu, find and select **API Gateway**.
3. Click the name of the API that you created.

4. Click **Deploy API**.
5. Select the deployment stage.

   If you don't have a stage, select **[New Stage]** and enter the stage name and the deployment description.
6. Click **Deploy**.

   The deployment takes a couple of minutes to be completed.
7. Under Stage details, click , and copy the Invoke URL.

# Set Up Salesforce Org With Loyalty Management Receipt Scanner Kit Unlocked Package

To ensure that members can submit their receipts by using their Loyalty Management mobile app and get rewarded for eligible receipt line items, install and set up the Loyalty Management Receipt Scanner Kit Unlocked Package in your Salesforce org. Before you install the unlocked package, ensure that you have a loyalty program already set up in your org.

1. Install the Loyalty Management Receipt Scanner Kit Unlocked Package

   Install the Loyalty Management Receipt Scanner Kit unlocked package in the org that contains the loyalty program for members to upload their purchase receipts by using the Loyalty Management mobile app.
2. Assign Permission Set to Existing Users

   After admins install the Loyalty Management Receipt Scanner Kit unlocked package in their org, new users are automatically assigned the Receipt Scanning permission set. The Receipt Scanning permission set provides users access to manage the capabilities of the Loyalty Management Receipt Scanner Kit unlocked package. Assign existing users who need the permissions to manage and work with the capabilities of the package the Receipt Scanning permission set.
3. Assign Permission Set for Members to Access Receipt Scanner

   For your members to access the Receipt Scanner feature on their mobile devices, assign the Receipt Scanning permission set to the Experience Cloud users. Assign permission set to the members to ensure that Apex classes are automatically run when members upload a receipt. After you assign the permission set, modify the Receipts object to provide read and edit permissions.
4. Create a Named Credential

   Connect Amazon Web Services (AWS) with the Loyalty Management Receipt Scanner Kit unlocked package. Make callout requests to AWS from Salesforce after a receipt is uploaded. The AnalyzeExpense API then scans the receipts to analyze and interpret the information from the receipt.
5. Create a Connected App

   Create a connected app for Amazon Web Services (AWS) to connect with the Loyalty Management Receipt Scanner Kit unlocked package. This connected app ensures that the Expense Analysis API runs after the receipts are uploaded and creates transaction journals for the submitted receipts.
6. Add a Loyalty Program Name

   The Loyalty Management Receipt Scanner Kit unlocked package has a custom label to store the name of your loyalty program.
7. Add API Endpoint Details in Custom Setting

   The Loyalty Management Receipt Scanner Kit unlocked package has a custom setting to store the API Gateway endpoint URL and bucket details from your Amazon Web Services (AWS) account.
8. Create a Remote Site Setting

   Before any Apex callout can call the API Gateway endpoint, register the API Gateway endpoint on the Remote Site Settings page. Remote site settings authorize your org to access external websites.

9. Enable Receipt Scanning
   Enable receipt scanning in the org where the Loyalty Management Receipt Scanner Kit unlocked package is installed. Members can then use their mobile device to upload receipts and get loyalty points.

## Install the Loyalty Management Receipt Scanner Kit Unlocked Package

Install the Loyalty Management Receipt Scanner Kit unlocked package in the org that contains the loyalty program for members to upload their purchase receipts by using the Loyalty Management mobile app.

1. From your loyalty org, click Loyalty Management Receipt Scanner Kit Unlocked Package.
2. Enter your Salesforce credentials.
3. Select the audience for your package.
4. Click **Install**.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

After the unlocked package is installed, the Receipt Scanning permission set is automatically assigned to the Experience Cloud users' of new loyalty program members and Apex classes are automatically run when members upload a receipt. Members can now use the Loyalty Management app on their mobile devices to submit receipts and earn loyalty points.

For existing loyalty program members, you've to manually assign the Receipt Scanning permission set to the members' Experience Cloud users.

## Assign Permission Set to Existing Users

After admins install the Loyalty Management Receipt Scanner Kit unlocked package in their org, new users are automatically assigned the Receipt Scanning permission set. The Receipt Scanning permission set provides users access to manage the capabilities of the Loyalty Management Receipt Scanner Kit unlocked package. Assign existing users who need the permissions to manage and work with the capabilities of the package the Receipt Scanning permission set.

1. From Setup, in the Quick Find box, enter `Permission Sets`, and then select **Permission Sets**.
2. Click **Receipt Scanning** > **Manage Assignments** > **Add Assignment**.
3. Select the existing users must manage and work with the receipt scanning capabilities.
4. Click **Next** > **Assign**.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

USER PERMISSIONS

To assign a permission set:
- Assign Permission Sets

To assign a permission set license:
- Manage Users

## Assign Permission Set for Members to Access Receipt Scanner

For your members to access the Receipt Scanner feature on their mobile devices, assign the Receipt Scanning permission set to the Experience Cloud users. Assign permission set to the members to ensure that Apex classes are automatically run when members upload a receipt. After you assign the permission set, modify the Receipts object to provide read and edit permissions.

1. From Setup, in the Quick Find box, enter `User`, and then select **Users**.
2. Select the user record of the Loyalty Customer Community User.
3. Click **Permission Set Assignments** > **Edit Assignments**.
4. Move the **Receipt Scanning** permission set to the Enabled Permission Sets list.
5. Save your changes.
6. From Setup, in the Quick Find box, enter `Permission Sets`, and then select **Permission Sets**.
7. Click **Receipt Scanning**.
8. Click **Object Settings**.
9. From the object settings, click **Receipts**, and then click **Edit**.
10. For the ReceiptScanner__ReceiptID__c field, select the Read and Edit permissions.
11. Save your changes.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

USER PERMISSIONS

To assign a permission set:
- Assign Permission Sets

To assign a permission set license:
- Manage Users

## Create a Named Credential

Connect Amazon Web Services (AWS) with the Loyalty Management Receipt Scanner Kit unlocked package. Make callout requests to AWS from Salesforce after a receipt is uploaded. The AnalyzeExpense API then scans the receipts to analyze and interpret the information from the receipt.

1. From Setup, in the Quick Find box, enter `Named`, and then select **Named Credentials**.
2. From the dropdown, select **New Legacy**.
3. Enter these details:
   - Label: Enter a name for the legacy named credential that's shown in your org.
   - Name: Enter a unique identifier that's used to refer to this legacy-named credential from callout definitions and through the API.
   - URL: Enter `https://textract.[REGION].amazonaws.com`. For example, `https://textract.ap-south-1.amazonaws.com/`.
4. Select **Named Principal** as the identity type.
5. Select **AWS Signature Version 4** as the authentication protocol, and enter these details from the CSV file that's downloaded from AWS:
   - AWS Access Key ID: Enter the access key ID. For example, `AKIAQO45CVNMD4NEU3VB`.
   - Access Secret: Enter the secret access key. For example, `51rC7gCfPF+Rff8GWxZnjBw++ACT3ESm5BYwH+jS`
   - AWS Region: Enter the region that you selected in AWS. For example, `ap-south-1`.
   - AWS Service: Enter `textract` as the AWS service.
6. Save your changes.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

USER PERMISSIONS

To view named credentials:
- View Setup and Configuration

To create, edit, or delete named credentials:
- Manage Named Credentials OR Customize Applications

# Create a Connected App

Create a connected app for Amazon Web Services (AWS) to connect with the Loyalty Management Receipt Scanner Kit unlocked package. This connected app ensures that the Expense Analysis API runs after the receipts are uploaded and creates transaction journals for the submitted receipts.

EDITIONS

Available in: all editions that have Loyalty Management enabled

USER PERMISSIONS

To create connected apps:
- Customize Application

  AND

  Modify All Data OR Manage Connected Apps

1. From Setup, in the Quick Find box, enter `certificate`, and then select **Certificate and Key Management**.
2. Under Certificates, click **Create Self-Signed Certificate**.
3. Enter a label and unique name for the certificate.
4. Save the new certificate.
5. Click **Download Certificate**.
6. From Setup, in the Quick Find box, enter `Apps`, and then select **App Manager**.
7. Click **New Connected App**, and fill these fields.
   - Connected App Name: Enter `Manage Authentication`
   - API Name: Keep the default API name that's automatically filled based on the connected app name
   - Contact Email: Enter your email address
   - Description: Enter `Manage how external users are authenticated when they connect with Salesforce applications`
8. Under API (Enable OAuth Settings), select **Enable OAuth Settings**.
9. In the Callback URL, enter `https://login.salesforce.com/services/oauth2/token/callback`.
10. Select **Use digital signatures**.
11. Click **Choose file**, and upload the certificate that you downloaded.
12. In the Selected OAuth Scopes section, move the **Manage user data via APIs (api)** and **Perform requests at any time (refresh_token, offline_access)** values to Selected OAuth Scopes.
13. Save the connected app.
14. From Setup, in the Quick Find box, enter `Connected Apps`, and then select **Manage Connected Apps**.
15. Next to Manage Authentication, click **Edit**.
16. Select **Admin approved users are Pre-authorized** as the permitted users.
17. From Timeout Value, select **24 hours**.
18. Save your changes.
19. Click **Manage Authentication**.
20. Under Profiles, click **Manage Profiles**.
21. Select **System Administrator**, and save your changes.
22. In the Quick Find box, enter `custom`, and then select **Custom Settings**.
23. For the Manage Authenticate Setting whose namespace prefix is ReceiptScanner, select **Manage**, and then select **New**.
24. Under Manage Authenticate Setting Information, enter these values.
    - Name: Enter `Manage Authentication`

- Audience: Based on your environment, enter one of the values: `https://test.salesforce.com/` or `https://login.salesforce.com/`
- Certificate: Enter the certificate name, without the extension
- Consumer Key: Enter the consumer key. To get the consumer key, from the App Manager setup, for the Manage Authentication app, select **View**. Under API (Enable OAuth Settings), click **Manage Consumer Details**, enter your credentials, and then copy the consumer key.
- Subscriber: Enter the username of the Salesforce admin.
- Token Endpoint: Based on your environment, enter one of the values: `https://test.salesforce.com/services/oauth2/token` or `https://login.salesforce.com/services/oauth2/token`

**25.** Save your changes.

## Add a Loyalty Program Name

The Loyalty Management Receipt Scanner Kit unlocked package has a custom label to store the name of your loyalty program.

Note: If you installed the Loyalty Management Receipt Scanner Kit unlocked package in a B2C Retail Industry Template org, then the loyalty program name is already set up.

1. In the Quick Find box, enter `custom label`, and then select **Custom Label**.
2. Next to Loyalty Program Name, click **Edit**.
3. Enter your loyalty program name.
4. Save your changes.

EDITIONS

Available in: all editions that have Loyalty Management enabled

USER PERMISSIONS

Create, edit, or delete custom labels:
- Customize Application

## Add API Endpoint Details in Custom Setting

The Loyalty Management Receipt Scanner Kit unlocked package has a custom setting to store the API Gateway endpoint URL and bucket details from your Amazon Web Services (AWS) account.

1. In the Quick Find box, enter `custom settings`, and then select **Custom Settings**.
2. Next to API Endpoint Details, click **Manage**.
3. Click **New**.
4. Enter these values.
   - API Gateway Endpoint: From your AWS Account, enter the Invoke URL until the stage name.

     For example, if the Invoke URL is `https://baznrtuyv3.execute-api.us-east-2.amazonaws.com/abc`, where `abc` is the stage name, enter the endpoint URL as `https://baznrtuyv3.execute-api.us-east-2.amazonaws.com`.
   - Bucket Name: From your AWS account, enter the S3 bucket name.
   - Select Disable Duplicate Check if you want members to submit the same receipt multiple times.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

USER PERMISSIONS

To manage, create, edit, and delete custom settings:
- Customize Application

5. Save your changes.
   The location of the endpoint is automatically selected.

## Create a Remote Site Setting

Before any Apex callout can call the API Gateway endpoint, register the API Gateway endpoint on the Remote Site Settings page. Remote site settings authorize your org to access external websites.

1. In the Quick Find box, enter `Remote`, and then select **Remote Site Settings**.
2. Click **New Remote Site**.
3. Enter `AWS Gateway Remote Site` as the remote site name.
4. Enter the Invoke URL of your Amazon Web Services account.
   For example, a sample Invoke URL looks like this:
   `https://*********.execute-api.us-east-2.amazonaws.com`
5. Save your changes.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

USER PERMISSIONS

To configure remote settings:
- Customize Application or Modify All Data

## Enable Receipt Scanning

Enable receipt scanning in the org where the Loyalty Management Receipt Scanner Kit unlocked package is installed. Members can then use their mobile device to upload receipts and get loyalty points.

1. From Setup, in the Quick Find box, enter `Lightning`, and then select **Lightning App Builder**.
2. Next to the Receipt Scanning app, click **Edit**.
3. From the Setup menu, click **Edit Page**.
4. Click **Activation**.
5. To change the icon, click **Change**, and then assign another logo for Receipt Scanning.
6. Click the Lightning Experience tab, and then click **Loyalty Management**.
7. In the Loyalty Management section, drag the Receipt Scanning app based on where you want the app to appear.
8. Save your changes.
9. From the App Launcher, enter `Receipt`, and then select **Receipt Scanning**.
10. Under Named Credential, click **Assign Named Credential**.
11. Select the named credential that you created for the Loyalty Management Receipt Scanning Kit unlocked package to connect with AWS.
12. Read and agree to the terms and conditions, and then save your changes.
13. Turn on Receipt Scanning.
14. Enter the confidence value at which the receipt is eligible for submission.
15. To show ineligible items for a member after a receipt is scanned and analyzed, turn on Ineligible Receipt Items.
16. Under Required Receipt Fields, select the fields that you want to include in a scanned receipt.

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

USER PERMISSIONS

To create and save Lightning Pages in the Lightning App Builder:
- Customize Application

To view Lightning Pages in the Lightning App Builder:
- View Setup and Configuration

Select the Receipt Number field if you want to uniquely identify each receipt that's uploaded.

**17.** Under Eligible Item Identifier Fields, select the fields that identify the eligible items from a receipt.

**18.** Save your changes.

Example: If you select Receipt Number as a required receipt field, the members can upload only the receipts that contain a receipt number. If you select Product Name as an eligible item identifier field, you earn loyalty points only for the items with matching product names in the Products object.

# Receipt Scan and Upload on iOS and Android

After you set up the Loyalty Management Receipt Scanner Kit unlocked package and integrate the Loyalty Management org with an Optical Character Recognition (OCR) software, members can upload and scan receipts by using the loyalty program's mobile app. Members are rewarded for with loyalty points for eligible receipt line items.

Members can use the loyalty program's mobile app to upload purchase receipts from third-party partner stores and sites. To get the latest mobile app SDK, developers can clone and import the latest Loyalty Management Mobile SDKs for iOS and Android.

Considerations Before You Upload a Receipt
Members can upload receipts of products purchased at third-party stores, and get rewards for eligible purchases.

Upload and Submit a Receipt
Members can upload receipts from their third-party store purchases that are less than 5 MB, and get loyalty points for eligible receipt line items. After the receipt is scanned, members can review the line items detected by the Expense Analysis API and then submit the receipt.

View Submitted Receipts
Loyalty program members can view the submitted receipts and line items from their loyalty management mobile app after uploading the receipts, and view the loyalty points credit for a processed receipt.

## Considerations Before You Upload a Receipt

Members can upload receipts of products purchased at third-party stores, and get rewards for eligible purchases.

To ensure the receipt upload and scan process is seamless, check these conditions before you upload a scanned receipt.

- The receipt is legible, and not torn or rumpled.
- The size of the receipt file is less than 5 MB.
- The receipt is valid and accurate, and contains this data:
  - purchase date
  - receipt number
  - store name and address,
  - product information
  - quantity purchased
  - price of a unit
  - total price
  - any other information that's mandatory to process the receipt.

EDITIONS

The Loyalty Management mobile app is available in: all editions that have Loyalty Management and Receipt Scanning enabled

- The receipt isn't duplicated.
- The receipt's date format matches the store's date format that's specified in the Accepted Date Format custom metadata type.

  The custom metadata type supports theese date formats:

  - mm-dd-yyyy
  - dd-mm-yyyy
  - yyyy-mm-dd
  - mm.dd.yyyy
  - dd.mm.yyyy
  - yyyy.mm.dd
  - mm/dd/yyyy
  - dd/mm/yyyy
  - yyyy/mm/dd

## Upload and Submit a Receipt

Members can upload receipts from their third-party store purchases that are less than 5 MB, and get loyalty points for eligible receipt line items. After the receipt is scanned, members can review the line items detected by the Expense Analysis API and then submit the receipt.

EDITIONS

The Loyalty Management mobile app is available in: all editions that have Loyalty Management and Receipt Scanning enabled

1. On the home screen of the iOS or the Android Loyalty Management mobile app, tap .
2. Tap **New**, and provide access to your photo library.
3. Tap the camera, and click the photo of a receipt or tap the gallery icon and upload a receipt from your mobile device.
4. Tap **Upload**.
   The receipt is processed and the results show eligible and ineligible items from the receipt.
5. Select an option:
   - If the processed receipt results are accurate, tap **Submit**, and then tap **Done**.

     The receipt is submitted and the screen shows the number of loyalty points credited for the receipt.
   - To rescan or upload another receipt, tap **Try Again**.
   - If your receipt doesn't list all eligible items, tap **Request a Manual Review**.

     Enter a reason for the manual request, and tap **Submit**.

### What Happens When Members Upload Receipts

Members can upload receipts of their third-party store purchases and after they upload the receipts, the Expense Analysis API scans the receipts and reviews the eligibility of the receipt.

### What Happens When Members Submit Receipts

After members submit receipts, they can view the submitted receipts and the line items for which they are rewarded from their loyalty management mobile app.

### What Happens When Members Submit Receipts for Manual Review

If the eligible items of a receipt don't show all items or if there's an incorrect evaluation of loyalty points for the receipt, members can submit the receipt for a manual review.

## What Happens When Members Upload Receipts

EDITIONS

Available in: all editions that have Loyalty Management and Receipt Scanning enabled

Members can upload receipts of their third-party store purchases and after they upload the receipts, the Expense Analysis API scans the receipts and reviews the eligibility of the receipt.

Here's what happens in the Loyalty Management Receipt Scanner Kit unlocked package org when members upload their receipts.

- The ReceiptUpload Apex class runs the Receipt Upload API to upload the receipt.
- Then, the ReceiptScanningControllerUtils Apex class runs the Expense Analysis API to scan receipts uploaded by members.
- The ExpenseAnalysis class runs the Expense Analysis API to analyze the receipt.
- The API scans the receipts and provides a response, which is stored in the ReceiptScanningResponseWrapper class. The response consists of the store details, receipt ID, number, and date, and the detected line item details. The response also shows a confidence value, if applicable.

## What Happens When Members Submit Receipts

EDITIONS

The Loyalty Management mobile app is available in: all editions that have Loyalty Management and Receipt Scanning enabled

After members submit receipts, they can view the submitted receipts and the line items for which they are rewarded from their loyalty management mobile app.

Here's what happens in your Loyalty Management Receipt Scanner Kit unlocked package org after members submit their receipts.

- The ReceiptStatusUpdate Apex class runs the Receipt Status Updation API, to update the status of the receipt to Processed.
- The ProcessTransactionJournal Apex class runs the Transaction Journal Execution Business API, which creates and processes transaction journals.
- The RulesEngineResponseWrapper class deserializes the response from the Rules Engine API that includes transaction journal details. The response provides loyalty points, which are shown in the mobile app.
- The Receipt Status Updation API creates and processes receipt records for each line item.

## What Happens When Members Submit Receipts for Manual Review

EDITIONS

The Loyalty Management mobile app is available in: all editions that have Loyalty Management and Receipt Scanning enabled

If the eligible items of a receipt don't show all items or if there's an incorrect evaluation of loyalty points for the receipt, members can submit the receipt for a manual review.

Here's what happens when the receipt is submitted for manual review.

- The ReceiptStatusUpdate Apex class runs the Receipt Status Updation API, to update the status of the receipt to Manual Review.
- The ReceiptUpdateTrigger updates the receipt record.

To view the receipt in the Loyalty Management app, loyalty program managers go to the App Launcher, and find and select **Receipts**. After the admin or loyalty program manager manually completes the review, the Receipts screen on the mobile app shows the status of the receipt. If the receipt is manually approved, the member gets loyalty points for the eligible items.

Tip: Admins can also add the Receipts related list on the Loyalty Program Member record. This allows program managers to review all the receipts that are pending review for a loyalty program member.

## View Submitted Receipts

Loyalty program members can view the submitted receipts and line items from their loyalty management mobile app after uploading the receipts, and view the loyalty points credit for a processed receipt.

EDITIONS

The Loyalty Management mobile app is available in: all editions that have Loyalty Management and Receipt Scanning enabled

1. On the home screen of the iOS or the Android Loyalty Management mobile app, tap .
2. On the Receipts screen, view these details:
   - Receipt number
   - Receipt date
   - Receipt total
   - Loyalty points credited for a processed receipt
   - Receipt status for an unprocessed receipt
3. Tap the receipt and view the details of each eligible and ineligible detected line item including:
   - Item name
   - Quantity purchased
   - Unit price
   - Total price
   - Receipt image
4. To download the receipt image, tap **Receipt Image**, and then tap **Download Original Receipt**.

# Loyalty Management Mobile SDK and Sample App Support

Loyalty Management Mobile SDK is an open-source product. If you have any questions or feedback on the mobile SDK, post your questions or feedback on the Salesforce Stack Exchange site and use the loyaltymobile hashtag. If you find a bug with either the SDK or the sample app, raise a ticket on GitHub.

# Upgrade Loyalty Management Mobile SDK for iOS

For a major upgrade, clone and import the latest version of the SDK. For minor or incremental patch updates, update the Loyalty Management Mobile SDK to the latest package version.

EDITIONS

Available in: all editions that have Loyalty Management enabled

- To update the Loyalty Management Mobile SDK for iOS to the latest package version, in Xcode, click **File** > **Swift Packages** > **Update to Latest Package Versions**.
- For a major upgrade of Loyalty Management Mobile SDK for iOS, clone and import the latest version of the Loyalty Management Mobile SDK for iOS.

SEE ALSO:

Clone and Import Loyalty Management Mobile SDK for iOS

Clone and Import Loyalty Management Mobile SDK for iOS

# CHAPTER 12 Gamification Mobile SDK

In this chapter ...


- Supported Versions of Tools and Components
- Gamification Mobile SDK for iOS
- Gamification Mobile SDK for Android


Enhance brand engagement by providing gamification features on Android and iOS mobile devices. Use the Gamification mobile Software Development Kit (SDK) for Android and iOS to build custom mobile applications with unique game reward experiences. Or, use the SDK as an external dependency in your existing Loyalty Management Mobile SDK, and extend the `MyNTORewards` sample app to include games that a loyalty member can play to win rewards.

Watch this video to understand how to design and run games.

Watch a video

If you aren't able to watch the video in full screen, open the video in a new tab: Gamify Member Engagement with Loyalty Management.

# Supported Versions of Tools and Components

The Gamification Mobile SDK works on iOS 15.0+ and Android 8.0+ versions. Install the tools and components required to set up the Gamification Mobile SDK.

EDITIONS

Available in: all editions that have Loyalty Management enabled

## iOS

| Tool or Component | Supported Version | Installation Details |
|---|---|---|
| Swift Version | 5.7+ | Installed by Xcode |
| Xcode | 14.0+ | Install from the App Store |
| iOS SDK | 15.0+ | Installed by Xcode |
| Swift Package Manager | 5.7+ | Included in Swift |

## Android

| Tool or Component | Supported Version | Installation Details |
|---|---|---|
| Android Studio Electric Eel | 2022.1.1+ | Install from the Android Developer site |
| Android SDK and APIs | 8.0+ (API level 26+) | Install from the Android Developer site |
| Android SDK Tools | 8.0+ | Install from the Android Developer site |
| Android Virtual Device | 8.0+ | Install from Android Studio |
| Kotlin | 1.8.0+ | Installed by Android Studio |

# Gamification Mobile SDK for iOS

Clone and import the Gamification Mobile iOS SDK to integrate the gamification feature in a mobile app.

EDITIONS

Available in: all editions that have Loyalty Management enabled

### Clone and Import Gamification Mobile SDK for iOS

Clone the Gamification Mobile iOS SDK GitHub repository to copy the code base and revision history of the repository to your local computer. After you clone the repository, import Gamification Mobile iOS SDK in an Xcode project.

### Integrate Gamification Mobile iOS SDK into Loyalty Management Mobile iOS SDK

Import the Gamification Mobile iOS SDK into the existing Loyalty Management Mobile iOS SDK by adding it as an external dependency.

### Gamification Mobile SDK iOS Classes

The iOS classes organize the Gamification Mobile SDK's functionalities and data structures. When developing mobile apps using the SDK, these classes provide components, services, or features with which you can interact.

Gamification Mobile SDK API Reference for iOS

The Gamification Mobile iOS SDK interacts with the Salesforce Gamification APIs, and retrieves games assigned to a loyalty member, and the rewards won by the member after playing the game.

Game Zone UI Customization for iOS

After you build the Gamification Mobile SDK for iOS, you can customize the game zone UI components.

# Clone and Import Gamification Mobile SDK for iOS

Clone the Gamification Mobile iOS SDK GitHub repository to copy the code base and revision history of the repository to your local computer. After you clone the repository, import Gamification Mobile iOS SDK in an Xcode project.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Go to the Gamification Mobile SDK iOS repository.
2. To copy the repository URL to your clipboard, click **Code**, and then click .
3. Open Terminal, and go to the directory where you want to clone the repository.
4. Enter `git clone https://github.com/loyaltysampleapp/GamificationMobileSDK-iOS`.
5. Press Enter and wait for the repository to clone.
6. Open the project where you want to import `GamificationMobileSDK-iOS` in Xcode.
7. Go to **File** > **Swift Packages** > **Add Package Dependency**.
8. Click **Add Local**, and then select the local `GamificationMobileSDK-iOS` folder.
9. Select a version, and click **Add Package** and on the confirmation window, click **Add Package**.
10. To import the `GamificationMobileSDK-iOS` module into your Swift file, open the swift file where you want to use `GamificationMobileSDK-iOS`, and to the first line of code, add:

    ```
    import GamificationMobileSDK-iOS
    ```

You can now use the classes, structures, and protocols in the `GamificationMobileSDK-iOS` module to manage and customize the gamification features in your mobile application.

# Integrate Gamification Mobile iOS SDK into Loyalty Management Mobile iOS SDK

Import the Gamification Mobile iOS SDK into the existing Loyalty Management Mobile iOS SDK by adding it as an external dependency.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Open the `LoyaltyMobileSDK-iOS` project in Xcode.
2. Go to **File** > **Swift Packages** > **Add Package Dependency**.
3. Enter the repository

   URL: *`https://github.com/loyaltysampleapp/GamificationMobileSDK-iOS`*, or if you've cloned the repository, click **Add Local**, and then select the local `GamificationMobileSDK-iOS` folder.
4. Select a version, and click **Add Package** and on the confirmation window, click **Add Package**.
5. To import the `GamificationMobileSDK-iOS` module into your Swift file, open the swift file where you want to use `GamificationMobileSDK-iOS`, and to the first line of code, add:

   ```
   import GamificationMobileSDK-iOS
   ```

You can now use the classes, structures, and protocols in the `GamificationMobileSDK-iOS` module to extend and manage the gamification features in the `MyNTORewards` sample app.

# Gamification Mobile SDK iOS Classes

The iOS classes organize the Gamification Mobile SDK's functionalities and data structures. When developing mobile apps using the SDK, these classes provide components, services, or features with which you can interact.

EDITIONS

Available in: all editions that have Loyalty Management enabled

APIManager

The `APIManager` class manages requests related to gamification, and invokes the gamification REST APIs. Use this class to interact with the Salesforce gamification APIs and retrieve member games, and game rewards.

GamificationForceClient

The `GamificationForceClient` class handles network requests using the `GamificationForceAuthenticator` protocol.

GamificationForceAuthenticator

The `GamificationForceAuthenticator` protocol defines the necessary methods for handling access tokens in the Salesforce API.

## APIManager

The `APIManager` class manages requests related to gamification, and invokes the gamification REST APIs. Use this class to interact with the Salesforce gamification APIs and retrieve member games, and game rewards.

The Gamification Mobile iOS SDK requires a valid access token to interact with the Salesforce gamification APIs. To provide a valid access token, pass an instance of `GamificationForceAuthenticator` protocol in your `APIManager` class at the time of initialization. The `APIManager` class manages authentication using the provided instance of `GamificationForceAuthenticator`.

Use this initializer to initialize the `GamificationRemoteRepository` class.

```
public init(auth: GamificationForceAuthenticator, instanceURL: String, forceClient:
GamificationForceClient) {
        self.auth = auth
        self.instanceURL = instanceURL
        self.forceClient = forceClient
    }
```

| Parameter | Type | Description |
|---|---|---|
| `auth` | GamificationForceAuthenticator | An instance of the `GamificationForceAuthenticator` protocol. |
| `instanceUrl` | String | The URL of your Salesforce org. |
| `forceClient` | GamificationForceClient | An instance of the `GamificationForceClient` class. |

## Methods

### getGames

Retrieve games for the specified participant ID. This method returns an instance of the `GameModel` object.

```
public func getGames(
           participantId: String,
           version: String = APIVersion.defaultVersion,
           devMode: Bool = false,
           mockFileName: String = "GetGames_Success"
       ) async throws -> GameModel
```

| Parameter | Type | Description |
|---|---|---|
| `participantId` | String | The ID of a loyalty program member, an account, or a contact whose eligible games are to be retrieved. |
| `version` | String | The API version. |
| `mockFileName` | String | The name of the file that has the sample response. |
| `devMode` | Boolean | Indicates whether the method is run in the developer mode (`true`) or not (`false`). |

### getGameReward

Retrieve the details of the reward that's provided to a participant after the game play. This method returns an instance of the `PlayGameModel` object.

```
public func playGame(
           gameParticipantRewardId: String,
           version: String = APIVersion.defaultVersion,
           devMode: Bool = false,
           mockFileName: String = "PlayGame_Success"
       ) async throws -> PlayGameModel
```

| Parameter | Type | Description |
|---|---|---|
| `gameParticipantRewardId` | String | The ID of the participant's game reward won by the participant whose details are to be fetched. |
| `version` | String | The API version. |
| `mockFileName` | String | The name of the file that has the sample response. |
| `devMode` | Boolean | Indicates whether the method is run in the developer mode (`true`) or not (`false`). |

# GamificationForceClient

The `GamificationForceClient` class handles network requests using the `GamificationForceAuthenticator` protocol.

This class uses a `NetworkManager` instance to handle network requests and data processing.

Use this initializer to initialize the `GamificationForceClient` class.

```
public init(auth: GamificationForceAuthenticator, forceNetworkManager: NetworkManagerProtocol
 = NetworkManager.shared)
```

| Parameter | Type | Description |
|---|---|---|
| `auth` | GamificationForceAuthenticator | An instance of the `GamificationForceAuthenticator` protocol. |
| `forceNetworkManager` | NetworkManagerProtocol | A `NetworkManager` instance. |

## Methods

### fetchLocalJson

Returns a decoded JSON response result from the given local JSON file.

```
public func fetchLocalJson<T: Decodable>(type: T.Type, file: String, bundle: Bundle =
Bundle.publicModule)
```

| Parameter | Type | Description |
|---|---|---|
| `type` | T.Type | The model to be used by the JSON decoder. |
| `file` | String | The file name of a local JSON file. |
| `bundle` | Bundle | The app bundle name. |

### fetch

Returns a decoded JSON response result.

```
public func fetch<T: Decodable>(type: T.Type, with request: URLRequest, urlSession:
URLSession = .shared)
```

| Parameter | Type | Description |
|---|---|---|
| `type` | T.Type | The model to be used by the JSON decoder. |
| `request` | URLRequest | The URL request to be executed by the URL session. |
| `urlSession` | URLSession | An instance of `URLSession` to execute the request. |

## GamificationForceAuthenticator

The `GamificationForceAuthenticator` protocol defines the necessary methods for handling access tokens in the Salesforce API.

### Methods

### getAccessToken()

Returns a valid access token as a string if available, otherwise null.

```
func getAccessToken()
```

### grantAccessToken

Returns a refreshed or newly granted access token as a string.

```
func grantAccessToken()
```

# Gamification Mobile SDK API Reference for iOS

The Gamification Mobile iOS SDK interacts with the Salesforce Gamification APIs, and retrieves games assigned to a loyalty member, and the rewards won by the member after playing the game.

EDITIONS

Available in: all editions that have Loyalty Management enabled.

Assigned Games

Get a list of eligible, expired, and played games, such as Spin the Wheel, or Scratch card, for a loyalty program member, an account, or a contact.

Game reward

Get the details of the reward that's provided to a participant after the participant plays a Spin the Wheel, or Scratch Card game.

## Assigned Games

Get a list of eligible, expired, and played games, such as Spin the Wheel, or Scratch card, for a loyalty program member, an account, or a contact.

### Resource

```
getGames(participantId:version:devMode:mockFileName:)
```

### Signature

```
public func getGames(
            participantId: String,
            version: String = APIVersion.defaultVersion,
            devMode: Bool = false,
            mockFileName: String = "GetGames_Success"
        ) async throws -> GameModel
```

## Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the method is run in the developer mode (`true`) or not (`false`). | Optional |
| `mockFileName` | String | The name of the file that has the sample response. | Optional |
| `participantId` | String | The ID of a loyalty program member, an account, or a contact whose eligible games are to be retrieved. | Required |
| `version` | String | Version of the API. The request body is available in version 60.0 and later. | Optional |

## Return Value

A `GameModel` instance.

```
public struct GameModel : Codable
```

## Sample Output

```
{
   "message":null,
   "gameDefinitions":[
      {
         "description":"Play Spin The Wheel to get amazing rewards",
         "endDate":"2024-07-31T19:00:00.000Z",
         "gameRewards":[
            {
               "color":"FF5733",
               "description":"Get 10%  Off Voucher",
               "imageUrl":null,
               "name":"10 % Off",
               "rewardType":"Voucher",
               "rewardValue":null
            },
            {
               "color":"000000",
               "description":"Loyalty Points",
               "imageUrl":null,
               "name":"1000 Reward Points",
               "rewardType":"LoyaltyPoints",
               "rewardValue":"100.0"
            },
            {
```

```
            "color":"762E2E",
            "description":"Better Luck Next Time",
            "imageUrl":null,
            "name":"No Reward",
            "rewardType":"NoReward",
            "rewardValue":null
         }
      ],
      "participantGameRewards":[
         {
            "expirationDate":"2024-01-04T20:00:00.000Z",
            "gameParticipantRewardId":"3PRSB0000000hjJ4AQ",
            "gameRewardId":null,
            "issuedRewardReference":null,
            "sourceActivity":null,
            "status":"YetToReward"
         }
      ],
      "name":"Spin The Wheel",
      "startDate":"2023-10-01T19:00:00.000Z",
      "timeoutDuration":10,
      "type":"SpintheWheel"
   },
   {
      "description":"Play Scratch card to get amazing rewards",
      "endDate":"2024-07-31T19:00:00.000Z",
      "gameRewards":[
                     {
            "color":"",
            "description":"Get 10%  Off Voucher",
            "imageUrl":null,
            "name":"10 % Off",
            "rewardType":"Voucher",
            "rewardValue":null
         },
         {
            "color":"",
            "description":"Better Luck Next Time",
            "imageUrl":null,
            "name":"No Reward",
            "rewardType":"NoReward",
            "rewardValue":null
         }
      ],
      "participantGameRewards":[
         {
            "expirationDate":"2024-01-04T20:00:00.000Z",
            "gameParticipantRewardId":"2ABSB0000000hjJ3AM",
            "gameRewardId":"2GRSB0000000Caf4AB",
            "issuedRewardReference":"0lVSB000000032j2AA",
            "sourceActivity":"0c85i0000009c6D",
            "status":"Rewarded"
         }
      ],
```

```
            "name":"Scratch Card",
            "startDate":"2023-10-01T19:00:00.000Z",
            "timeoutDuration":20,
            "type":"Scratchcard"
        }
    ],
    "status":true
}
```

## Output Parameters

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | Message that provides the reason why a list of games weren't found for the participant. | Small, 60.0 | 60.0 |
| `gameDefinitions` | GameDefinition[] | List of game definitions associated with the games assigned to the member.<br>A game definition has the details of a game, including:<br>• The list of possible rewards for the game.<br>• The participant game reward records that contain details of the game reward the participant has won for each game play, or can win after playing the game. | Small, 60.0 | 60.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 60.0 | 60.0 |

**Table 11: GameDefinition**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `description` | String | Description of the game. | Small, 60.0 | 60.0 |
| `endDate` | String | Date until which participants are eligible to play the game. | Small, 60.0 | 60.0 |
| `gameDefinitionId` | String | ID of the game definition associated with the game. | Small, 60.0 | 60.0 |
| `gameRewards` | GameReward [] | List of possible rewards for a game. | Small, 60.0 | 60.0 |
| `name` | String | Name of the game definition. | Small, 60.0 | 60.0 |
| `participantGameRewards` | ParticipantGameReward[] | List of participant game reward records that contain the details of the game reward the | Small, 60.0 | 60.0 |

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| | | participant has won for each game play, or can win after playing the game. | | |
| `startDate` | String | Date from which participants are eligible to play the game. | Small, 60.0 | 60.0 |
| `timeoutDuration` | Integer | Duration of the game in seconds before the game session times out. | Small, 60.0 | 60.0 |
| `type` | String | Type of the game. Possible values are:<br>• `Scratchcard`<br>• `SpintheWheel` | Small, 60.0 | 60.0 |

**Table 12: GameReward**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `color` | String | Color of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| `description` | String | Description of the game reward. | Small, 60.0 | 60.0 |
| `imageUrl` | String | Image URL of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| `name` | String | Name of the game reward. | Small, 60.0 | 60.0 |
| `gameRewardId` | String | ID of the game reward. | Small, 60.0 | 60.0 |
| `rewardType` | String | Type of the game reward. Possible values are:<br>• `CustomReward`<br>• `LoyaltyPoints`<br>• `NoReward`<br>• `Raffle`<br>• `Voucher` | Small, 60.0 | 60.0 |
| `rewardValue` | String | Value of the voucher, or the number of points to credit as a game reward to participants. | Small, 60.0 | 60.0 |

**Table 13: ParticipantGameReward**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `expirationDate` | String | Date until which the game reward is valid. | Small, 60.0 | 60.0 |
| `gameParticipantRewardId` | String | ID of the participant game reward object. | Small, 60.0 | 60.0 |
| `gameRewardId` | String | ID of the game reward won. This field is null for a game yet to be played. | Small, 60.0 | 60.0 |
| `issuedRewardReference` | String | Voucher ID, or the transaction journal ID associated with the voucher, or the loyalty points rewarded to the participant. This field is null for a game yet to be played. | Small, 60.0 | 60.0 |
| `sourceActivity` | String | ID of the promotion, or the transaction journal that is associated with the activity because of which the participant was eligible to play the game. Examples of source activities include purchasing a product, and reviewing on social media.<br>This field is null for a game yet to be played. | Small, 60.0 | 60.0 |
| `status` | String | Status of the reward. Possible values are:<br>• `Expired`<br>• `NoReward`<br>• `Rewarded`<br>• `YetToReward` | Small, 60.0 | 60.0 |

## Game reward

Get the details of the reward that's provided to a participant after the participant plays a Spin the Wheel, or Scratch Card game.

### Resource

```
playGame(gameParticipantRewardId:version:devMode:mockFileName:)
```

### Signature

```
public func playGame(
            gameParticipantRewardId: String,
            version: String = APIVersion.defaultVersion,
            devMode: Bool = false,
            mockFileName: String = "PlayGame_Success"
        ) async throws -> PlayGameModel
```

## Input Parameters

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `devMode` | Boolean | Indicates whether the method is run in the developer mode (`true`) or not (`false`). | Optional |
| `mockFileName` | String | The name of the file that has the sample response. | Optional |
| `gameParticipantRewardId` | String | The ID of the participant's game reward won by the participant whose details are to be fetched. | Required |
| `version` | String | Version of the API. The request body is available in version 60.0 and later. | Optional |

## Return Value

A `PlayGameModel` instance.

```
public struct PlayGameModel: Codable
```

## Sample Output

```
{
   "message":null,
   "gameReward":[
      {
         "color":"01CD6C",
         "description":”Loyalty Points”,
         "gameRewardId":"3GRSB0000000Caf4AE",
         "imageUrl":null,
         "issuedRewardReference":"0lVSB000000032j2AA",
         "name":"1000 Reward Points",
         "rewardType":"LoyaltyPoints",
         "rewardValue":"100.0"
      }
   ],
   "status":true
}
```

## Output Parameters

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | Error message that provides the reason why the details of the participant reward weren't found. | Small, 60.0 | 60.0 |
| `gameReward` | PlayGameReward [] | Details of the game reward won by the participant. | Small, 60.0 | 60.0 |
| `status` | Boolean | Indicates whether the request succeeded (`true`) or failed (`false`). | Small, 60.0 | 60.0 |

**Table 14: PlayGameReward**

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `color` | String | Color of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| `description` | String | Description of the game reward. | Small, 60.0 | 60.0 |
| `gameRewardId` | String | ID of the game reward won by the participant. | Small, 60.0 | 60.0 |
| `imageUrl` | String | Image URL of the segment in the Spin the Wheel game that represents the game reward. | Small, 60.0 | 60.0 |
| `issuedRewardReference` | String | Voucher ID, or the transaction journal ID associated with the voucher, or the loyalty points rewarded to the participant. | Small, 60.0 | 60.0 |
| `name` | String | Name of the game reward. | Small, 60.0 | 60.0 |
| `rewardType` | String | Type of the game reward. Possible values are:<br>• `CustomReward`<br>• `LoyaltyPoints`<br>• `NoReward`<br>• `Raffle`<br>• `Voucher` | Small, 60.0 | 60.0 |
| `rewardValue` | String | Value of the voucher, or the number of points to credit as a game reward to participants. | Small, 60.0 | 60.0 |

# Game Zone UI Customization for iOS

After you build the Gamification Mobile SDK for iOS, you can customize the game zone UI components.

The game zone UI components are available in the `LoyaltyMobileSDK-iOS/SampleApps/MyNTORewards/MyNTORewards/GameZone` package.

## Spinner Customization

Customize the spinner components, such as the wheel size, frame width and color, wheel segments, spin button, and more in the `FortuneWheelView.swift` file. Here are all the parameters you can modify.

```
VStack {
                HStack {
                    Button {
                        // Invalidating the timer to avoid unintended navigation because
of the timer
                        timer?.invalidate()
                        isSpinning ? nil : dismiss()
                    } label: {
                        Image("ic-backarrow")
                    }
                    .padding(.leading, 20)
                    .padding(.bottom, 10)
                    .frame(width: 30, height: 30)

                    Spacer()
                }
                ZStack {
                    Color.theme.accent
                    VStack {
                        VStack(spacing: 10) {
                            Text(gameDefinitionModel?.name ??
StringConstants.Gamification.spinaWheelHeaderLabel)
                                .font(.gameHeaderTitle)

                            Text(gameDefinitionModel?.description ??
StringConstants.Gamification.spinaWheelSubHeaderLabel)
                                .font(.gameHeaderSubTitle)
                        }
                        .padding(30)

                        Spacer()
                        ZStack {
                            // Fortune Wheel Segments
                            ZStack {
                              if let colors: [Color] = viewModel.getWheelColors(gameModel:
 gameDefinitionModel),
                                    let labels: [LocalizedStringKey] =
gameDefinitionModel?.gameRewards.map({LocalizedStringKey($0.name)}) {
                                 ForEach(0..<colors.count, id: \.self) { index in
                                     let startAngle = (360.0 / Double(colors.count) *
Double(index)) - 90.0
                                     let endAngle = (360.0 / Double(colors.count) *
```

```
Double(index + 1)) - 90.0
                                        WheelSegment(startAngle: startAngle,
                                                     endAngle: endAngle,
                                                     color: colors[index],
                                                     label: labels[index])
                                    }
                                }
                            }
                            .overlay {
                                ZStack {
                                    Circle()
                                       .strokeBorder(Color.theme.fortuneWheelStrokeColor,
 lineWidth: 5)
                                        .frame(width: 316, height: 316)
                                    Circle()

.strokeBorder(Color.theme.fortuneWheelSecondaryStrokeColor, lineWidth: 1)
                                        .frame(width: 307, height: 307)
                                }
                            }
                            .rotationEffect(Angle(degrees: rotationAngle))
                            .animation(isSpinning ? Animation.easeOut(duration:
gameDefinitionModel?.timeoutDuration ?? 15)
                                .delay(0)
                                .repeatForever(autoreverses: false) : .default, value:
isSpinning)

                            // Triangle Arrow Indicator
                            ZStack {
                                Triangle()
                                    .fill(Color.white)
                                    .frame(width: 70, height: 70)  // Increase these
dimensions by the stroke width
                                    .offset(y: -40)

                                Triangle()
                                    .fill(Color.theme.wheelIndicatorBackground)
                                    .frame(width: 60, height: 60)
                                    .offset(y: -35)
                            }

                            // Spin Button
                            Button {
                                playGame()
                            } label: {
                                userStartedSpinning ?

Text(StringConstants.Gamification.tapSpinButtonLabel).foregroundColor(Color.theme.wheelIndicatorBackground)
 :

Text(StringConstants.Gamification.tapSpinButtonLabel).foregroundColor(.white)

                            }
                            .frame(width: 70, height: 70)
```

```
                            .background(Color.theme.wheelIndicatorBackground)
                            .clipShape(Circle())
                            .overlay(Circle().stroke(Color.white, lineWidth: 5))
                            .disabled(userStartedSpinning)  // Disable the button when
spinning

                        }
                        .frame(width: 300, height: 300)

                        Spacer()

                        VStack(spacing: 20) {
                            Text((StringConstants.Gamification.tapSpinaWheeltoPlayLabel))

                                .font(.gameDescTitle)
                            Text(StringConstants.Gamification.spinaWheelBodyLabel)
                                .font(.gameDescText)
                                .multilineTextAlignment(.center)
                                .frame(width: 258)
                        }
                        Spacer()
                    }
                    .foregroundColor(.white)
                }
                .cornerRadius(15, corners: [.topLeft, .topRight])
                .edgesIgnoringSafeArea(.bottom)
                .fullScreenCover(isPresented: $showAlertForError) {
                    Spacer()
                 ProcessingErrorView(message: "Oops! Something went wrong while processing
 the request. Try again.")
                    Spacer()
                    Button {
                        timer?.invalidate()
                        isSpinning ? nil : dismiss()
                    } label: {
                        Text(StringConstants.Receipts.tryAgainButton)
                            .frame(maxWidth: .infinity)
                    }
                    .buttonStyle(.borderedProminent)
                    .longFlexibleButtonStyle()
                }
            }
        }
```

For example, to change the spin wheel outer frame width and height, open the `LoyaltyMobileSDK-iOS/SampleApps/MyNTORewards/MyNTORewards/GameZone/Views/FortuneWheel/FortuneWheelView.swift` file in Xcode, and replace `Circle() frame(width: 316, height: 316)` with `Circle() frame(width: 300, height: 300)`.

```
overlay {
                                ZStack {
                                    Circle()
                                       .strokeBorder(Color.theme.fortuneWheelStrokeColor,
 lineWidth: 5)
```

```
                                        .frame(width: 316, height: 316)
                                    Circle()

.strokeBorder(Color.theme.fortuneWheelSecondaryStrokeColor, lineWidth: 1)
                                        .frame(width: 307, height: 307)
                                }
                            }
```

To change the spin button background color to blue, open the `LoyaltyMobileSDK-iOS/SampleApps/MyNTORewards/MyNTORewards/Misc/Color.swift` file, and inside the `ColorTheme` structure, replace `let wheelIndicatorBackground = Color("wheelIndicatorBackgroundColor") // #23475F` with `let wheelIndicatorBackground = Color.blue`.

## Scratch Card Customization

You can customize the scratch card components, such as the box, canvas, wrapper text, and more in the `ScratchCanvasView.kt` file. Here are all the properties you can customize:

```
private var backButton: some View {
        HStack {
            Button {
                // Invalidating the timer to avoid unintended navigation because of the
timer
                timer?.invalidate()
                dismiss()
            } label: {
                Image("ic-backarrow")
            }
            .padding(.leading, 20)
            .padding(.bottom, 10)
            .frame(width: 30, height: 30)

            Spacer()
        }
    }

    private var titleView: some View {
        VStack(spacing: 10) {
            Text(gameDefinitionModel?.name ??
StringConstants.Gamification.scratchCardTitleLabel)
                .font(.gameHeaderTitle)
            Text(gameDefinitionModel?.description ??
StringConstants.Gamification.scratchCardSubTitleLabel)
                .font(.gameHeaderSubTitle)
        }
        .padding(30)
    }

    private var loadingView: some View {
        Text("Loading...")
            .foregroundStyle(.white)
            .font(.system(size: 24))
            .fontWeight(.bold)
```

```
            .frame(width: cardSize.width, height: cardSize.height)
            .background(Color.theme.accent)
    }

    private var rewardText: some View {
        Text(playGameViewModel.playedGameRewards?.first?.name ?? "--")
            .font(.largeTitle)
            .bold()
            .foregroundStyle(.white)
            .frame(width: cardSize.width, height: cardSize.height)
            .background(Color.theme.accent)
            .zIndex(finishedScratching ? 10 : 0)
    }

    private var scratchCardWrapperText: some View {
        Text(String(repeating: (StringConstants.Gamification.scratchCardLabel), count:
70))
            .font(Font.scratchText)
            .multilineTextAlignment(.center)
            .foregroundColor(Color.theme.scratchCardText)
            .rotationEffect(Angle(degrees: -45))
            .mask {
                Rectangle()
                    .frame(width: cardSize.width, height: cardSize.height)
                    .cornerRadius(10)
                    .opacity(finishedScratching ? 0 : 1)
            }
            .opacity(finishedScratching ? 0 : 1)
    }

    private var scratchCardContentView: some View {
        ZStack {
            // Purple background with postage stamp border
            DottedBorderRectangle(width: backgroundSize.width,
                                  height: backgroundSize.height,
                                  color: Color.theme.accent)

            // Grey scratch card
            Rectangle()
                .fill(Color.theme.scratchCardBackground)
                .frame(width: cardSize.width, height: cardSize.height)
                .cornerRadius(10)
                .opacity(finishedScratching ? 0 : 1)

            // Text overlay
            scratchCardWrapperText
        }
    }

    private var scratchCardGame: some View {
       ScratchCardGame(cursorSize: 30, cardSize: cardSize, gameModel: gameDefinitionModel,
 onFinish: $finishedScratching) {
            scratchCardContentView
        } overlayView: {
```

```
            // Reward text
            switch playGameViewModel.state {
            case .loaded:
                rewardText
            default:
                loadingView
            }
        }
        .animation(.linear(duration: 0.5), value: playGameViewModel.state)
        .environmentObject(playGameViewModel)
    }

    private var descriptionView: some View {
        VStack(spacing: 20) {
            Text((StringConstants.Gamification.scratchCardBodyLabel))
                .font(.gameDescText)
                .multilineTextAlignment(.center)
                .frame(width: 258)
        }
    }
}
```

For example, to change the angle of the scratch card wrapper text inside the gray box, open the `LoyaltyMobileSDK-iOS/SampleApps/MyNTORewards/MyNTORewards/GameZone/Views/ScrachCard/ScratchCardView.swift` file in Xcode, and replace `rotationEffect(Angle(degrees: -45))` with `rotationEffect(Angle(degrees: -25))`. To change the number of times the text appears inside the gray box, replace `Text(String(repeating: (StringConstants.Gamification.scratchCardLabel), count: 70))` with `Text(String(repeating: (StringConstants.Gamification.scratchCardLabel), count: 50))`.

```
private var scratchCardWrapperText: some View {
        Text(String(repeating: (StringConstants.Gamification.scratchCardLabel), count:
50))
            .font(Font.scratchText)
            .multilineTextAlignment(.center)
            .foregroundColor(Color.theme.scratchCardText)
            .rotationEffect(Angle(degrees: -25))
            .mask {
                Rectangle()
                    .frame(width: cardSize.width, height: cardSize.height)
                    .cornerRadius(10)
                    .opacity(finishedScratching ? 0 : 1)
            }
            .opacity(finishedScratching ? 0 : 1)
    }
```

# Gamification Mobile SDK for Android

Clone and import the Gamification Mobile Android SDK to integrate the gamification feature in a mobile app.

EDITIONS

Available in: all editions that have Loyalty Management enabled

Clone and Import Gamification Mobile SDK for Android
Clone the GitHub repository to copy the code base and revision history of the repository to your local computer. After you clone the mobile SDK for Android repository, import Gamification Mobile Android SDK in Android Studio to automatically download and manage external dependencies.

Integrate Gamification Mobile Android SDK into Loyalty Management Mobile Android SDK
To integrate the Gamification Mobile Android SDK into the existing Loyalty Management Mobile Android SDK, add it as an external dependency.

Gamification Mobile SDK Android Classes
The Android classes organize the Gamification Mobile SDK's functionalities and data structures. When developing mobile apps using the SDK, these classes provide components, services, or features with which you can interact.

Gamification Mobile Android SDK API Reference
The Gamification Mobile Android SDK interacts with the Salesforce Gamification APIs, and retrieves games assigned to a loyalty member, and the rewards won by the member after playing the game.

Game Zone UI Customization for Android
After you build the Gamification Mobile SDK for Android, you can customize the game zone UI components.

# Clone and Import Gamification Mobile SDK for Android

Clone the GitHub repository to copy the code base and revision history of the repository to your local computer. After you clone the mobile SDK for Android repository, import Gamification Mobile Android SDK in Android Studio to automatically download and manage external dependencies.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Go to the Gamification Mobile SDK Android repository.
2. To copy the repository URL to your clipboard, click **Code**, and then click .
3. Open Terminal, and go to the directory where you want to clone the repository.
4. Enter `git clone https://github.com/loyaltysampleapp/GamificationMobileSDK-Android`.
5. Press Enter and wait for the repository to clone.
6. Unzip the `GamificationMobileSDK-Android` package that you downloaded.
7. Open Android Studio.
8. Go to **File** > **New** > **Import Project**, and then select the `GamificationMobileSDK-Android` folder.
9. Click **Open**.
10. Open the SDK files and ensure that the files include the appropriate SDK packages.

Note: If the sync fails, disconnect the VPN to ensure there's no blocker when downloading the dependencies, and then resync.

You can now use the classes and interfaces in the `GamificationMobileSDK-Android` module to manage and customize the gamification features in your application.

# Integrate Gamification Mobile Android SDK into Loyalty Management Mobile Android SDK

To integrate the Gamification Mobile Android SDK into the existing Loyalty Management Mobile Android SDK, add it as an external dependency.

EDITIONS

Available in: all editions that have Loyalty Management enabled

1. Open Terminal, and go to the `LoyaltyMobileSDK-Android` folder.
2. Run these commands:

```
git submodule add

git@github.com:loyaltysampleapp/GamificationMobileSDK-Android.git
git submodule sync
git submodule update
cd GamificationMobileSDK-Android
git submodule update --init --recursive --remote
```

3. Open the `LoyaltyMobileSDK-Android` project in Android Studio.
4. Click **Open**.
5. Open the `SampleApps/MyNTORewards/build.gradle` file, and under Dependencies block, to the first line of Dependencies, add:

```
implementation(project(":GamificationMobileSDK-Android:GamificationMobileSDK"))
```

6. Open the `SampleApps/MyNTORewards/connectedapp.properties.sample` file and modify the properties of the connected app as per your org.
7. Click **Sync Now**.
8. Open the SDK files and ensure that the files include the appropriate SDK packages.

   Note: If the sync fails, disconnect the VPN to ensure there's no blocker when downloading the dependencies, and then resync.

9. To add the gamification SDK package, include this code snippet in your code.

```
`import com.salesforce.gamification.api.*
import com.salesforce.gamification.model.*
import com.salesforce.gamification.repository.*
import com.salesforce.gamification.utilities.*`
```

You can now use the classes and interfaces in the `GamificationMobileSDK-Android` module to extend and manage the gamification features in the MyNTORewards sample app.

# Gamification Mobile SDK Android Classes

The Android classes organize the Gamification Mobile SDK's functionalities and data structures. When developing mobile apps using the SDK, these classes provide components, services, or features with which you can interact.

EDITIONS

Available in: all editions that have Loyalty Management enabled

GamificationRemoteRepository

The `GamificationRemoteRepository` class invokes and manages gamification-related REST API requests. Use this class to interact with the Salesforce gamification APIs and retrieve member games, and play a game.

GameAPIClient

The `GameAPIClient` class creates a retrofit instance to invoke REST APIs.

GameAuthenticator

The `GameAuthenticator` interface defines the necessary methods for handling access tokens in the Salesforce API.

## GamificationRemoteRepository

The `GamificationRemoteRepository` class invokes and manages gamification-related REST API requests. Use this class to interact with the Salesforce gamification APIs and retrieve member games, and play a game.

The Gamification Mobile Android SDK requires a valid access token to interact with the Salesforce gamification APIs. To provide a valid access token, implement the `GameAuthenticator` interface in your `GamificationRemoteRepository` class at the time of initialization. This class manages authentication using the provided instance of `GameAuthenticator`.

Use this constructor to initialize the `GamificationRemoteRepository` class.

```
class GamificationRemoteRepository constructor(
    auth: GameAuthenticator,
    instanceUrl: String,
    gameClient: NetworkClient
)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `auth` | GameAuthenticator | An instance of the `GameAuthenticator` interface. | Required |
| `instanceUrl` | String | The URL of your Salesforce org. | Required |
| `gameClient` | NetworkClient | An instance of the `GameAPIClient` class. | Required |

### Methods

### getGames

Retrieve games for the specified participant ID.

```
final Result<Games> getGames(String participantId, String gameParticipantRewardId, Boolean
 mockResponse)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `participantId` | String | The ID of a loyalty program member, an account, or a | Required |

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| | | contact whose eligible games are to be retrieved. | |
| `gameParticipantRewardId` | String | The ID of the participant's game reward associated with the game whose details are to be fetched. | Optional |
| `mockResponse` | Boolean | Indicates whether to include a sample response (`true`) or not (`false`). | Optional |

### getGameReward

Retrieve the details of the reward that's provided to a participant after the game play.

```
final Result<GameRewardResponse> getGameReward(String gameParticipantRewardId, Boolean
mockResponse)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `gameParticipantRewardId` | String | The ID of the participant's game reward won by the participant whose details are to be fetched. | Required |
| `mockResponse` | Boolean | Indicates whether to include a sample response (`true`) or not (`false`). | Optional |

## GameAPIClient

The `GameAPIClient` class creates a retrofit instance to invoke REST APIs.

This class extends the `NetworkClient` abstract class.

Use this constructor to initialize the `GameAPIClient` class.

```
class GameAPIClient constructor(auth: GameAuthenticator, instanceUrl: String) :
    NetworkClient(auth, instanceUrl)
```

| Parameter | Type | Description | Required or Optional |
|---|---|---|---|
| `auth` | GameAuthenticator | An instance of the `GameAuthenticator` interface. | Required |
| `instanceUrl` | String | The URL of your Salesforce org. | Required |

### Methods

#### getOkHttpClientBuilder

Retrieve an instance of `OkHttpClient`.

```
final OkHttpClient getOkHttpClientBuilder()
```

#### getNetworkClient

Override the `getNetworkClient` method of the `NetworkClient` abstract class to get an instance of `GameAPIInterface`.

```
final GameAPIInterface getNetworkClient()
```

## GameAuthenticator

The `GameAuthenticator` interface defines the necessary methods for handling access tokens in the Salesforce API.

### Methods

#### getAccessToken()

Returns a valid access token as a string if available, otherwise null.

```
final String getAccessToken()
```

#### grantAccessToken

Returns a refreshed or newly granted access token as a string.

```
final String grantAccessToken()
```

# Gamification Mobile Android SDK API Reference

The Gamification Mobile Android SDK interacts with the Salesforce Gamification APIs, and retrieves games assigned to a loyalty member, and the rewards won by the member after playing the game.

Interact with the Gamification APIs, including:

| Resource | Description |
|---|---|
| /game/participant/${participantId}/games on page 368 | Get games assigned to a participant. |
| /game/participantreward/${gameParticipantRewardId}/game-reward on page 369 | Get details of the reward won after the member plays the game. |

EDITIONS

Available in: all editions that have Loyalty Management enabled

# Game Zone UI Customization for Android

After you build the Gamification Mobile SDK for Android, you can customize the game zone UI components.

The game zone UI components are available in the /LoyaltyMobileSDK-Android/SampleApps/MyNTORewards/src/main/java/com/salesforce/loyalty/mobile/myntorewards/views/gamezone package.

## Spinner Customization

Customize the spinner components, such as the wheel size, frame width and color, and more in the `SpinnerConfiguration.kt` file. Here are all the parameters you can modify.

```
class SpinnerConfiguration {

    companion object {
        //preferences
        val WHEEL_SIZE = 280.dp
        val WHEEL_FRAME_WIDTH = 4.dp
        val WHEEL_FRAME_COLOUR = SpinnerFrameColour
        val WHEEL_BORDER_WIDTH = 12.dp
        val WHEEL_SEGMENT_BACKGROUND = Color.White //same colour will apply on border
        const val START_DEGREE = 0f
        //spinner default loading position degree 30f represents when spinner will load
it will be at 30 degree
        const val ROTATION_PER_SECOND = 3f
        const val PADDING_ANGLE_BETWEEN_WHEEL_SEGMENT = 2f //padding between two segments
 of wheel
        const val ROTATION_DURATION = 3000 // duration of wheel rotate after the API
responds
        const val INITIAL_ROTATION_DURATION = 20000 // duration of wheel rotate till API
responds
        const val WHEEL_TEXT_INITIAL_ROTATION = 0f // we can configure the orientation of
 text
        //based on this angle,we can make wheel content straight or with angle inside the
 wheel
    }
}
```

For example, to change the spinner frame color to blue, open the /LoyaltyMobileSDK-Android/SampleApps/MyNTORewards/src/main/java/com/salesforce/loyalty/mobile/myntorewards/views/gamezone/spinner/SpinnerConfiguration.kt file in Android Studio, and change the value of `val WHEEL_FRAME_COLOUR` from `SpinnerFrameColour` to `Color.Blue`.

To increase the padding between two segments of the wheel, change the value of `const val PADDING_ANGLE_BETWEEN_WHEEL_SEGMENT` from 2f to 4f.

## Scratch Card Customization

You can customize the scratch card components, such as the box and canvas in the `ScratchCanvasView.kt` file.

For example, to change the scratch card background color to white, open the /LoyaltyMobileSDK-Android/SampleApps/MyNTORewards/src/main/java/com/salesforce/loyalty/mobile/myntorewards/views/gamezone/spinner/ScratchCanvasView.kt file in Android Studio, and inside the `CanvasForScratching` method, replace `Box( modifier = modifier.background(VibrantPurple40).testTag(TEST_TAG_SCRATCH_CARD)` with `Box( modifier = modifier.background(Color.White).testTag(TEST_TAG_SCRATCH_CARD)`.

# CHAPTER 13 Data Processing Engine, Batch Management, and Monitor Workflow Services

In this chapter ...


- Data Model
- Common Tooling API Object
- Common Platform Event
- Common Business APIs
- Data Processing Engine
- Batch Management
- Monitor Workflow Services


Data Processing Engine and Batch Management help automate your business processes. Use objects, APIs, Platform Events, and invocable actions to define, run, and review Data Processing Engine definitions and Batch Management jobs.

Here's how both these features can automate your business processes:

- Data Processing Engine: Transform data that's available in your Salesforce org and write back the transformation results as new or updated records. You can transform the data for standard and custom objects.
- Batch Management: Automate the processing of records in scheduled flows. You can process a high volume of standard and custom object records.

Once a Data Processing Engine definition is run or a Batch Management job is run, you can view the progress of the run and the results of the run using Monitor Workflow Services.

EDITIONS

Available in: Lightning Experience

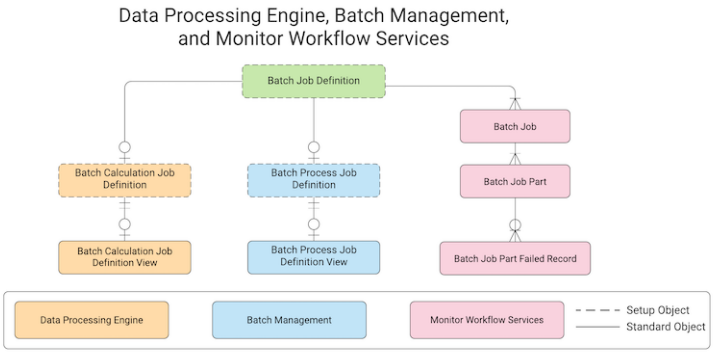
Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

# Data Model

Data Processing Engine, Batch Management, and Monitor Workflow Servics share a data model. Let's learn about the objects and relationships in this shared data model.

Here's the data model:




EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

# Common Tooling API Object

BatchJobDefinition is a common Tooling API object that is shared between Data Processing Engine and Batch Management.

Tooling API objects let you interact with metadata for declarative development. For example, you can create your own version of Setup.

BatchJobDefinition
Represents the definition of a batch job. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

## BatchJobDefinition

Represents the definition of a batch job. This object is available in API version 51.0 and later.

Note: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

### Supported SOAP API Calls

`describeSObjects()`, `query()`, `retrieve()`

### Supported REST API Methods

`GET, HEAD, Query`

### Fields

| Field | Details |
|---|---|
| `Description` | **Type**<br>textarea<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The description of the batch job definition. |
| `DeveloperName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The developer name of the batch job. |
| `Language` | **Type**<br>picklist |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Group, Restricted picklist, Sort<br>**Description**<br>The language in which the batch job is created.<br>Possible values are:<br>• af—Afrikaans<br>• am—Amharic<br>• ar—Arabic<br>• ar_AE—Arabic (United Arab Emirates)<br>• ar_BH—Arabic (Bahrain)<br>• ar_DZ—Arabic (Algeria)<br>• ar_EG—Arabic (Egypt)<br>• ar_IQ—Arabic (Iraq)<br>• ar_JO—Arabic (Jordan)<br>• ar_KW—Arabic (Kuwait)<br>• ar_LB—Arabic (Lebanon)<br>• ar_LY—Arabic (Libya)<br>• ar_MA—Arabic (Morocco)<br>• ar_OM—Arabic (Oman)<br>• ar_QA—Arabic (Qatar)<br>• ar_SA—Arabic (Saudi Arabia)<br>• ar_SD—Arabic (Sudan)<br>• ar_SY—Arabic (Syria)<br>• ar_TN—Arabic (Tunisia)<br>• ar_YE—Arabic (Yemen)<br>• bg—Bulgarian<br>• bn—Bengali<br>• bs—Bosnian<br>• ca—Catalan<br>• cs—Czech<br>• cy—Welsh<br>• da—Danish<br>• de—German<br>• de_AT—German (Austria)<br>• de_BE—German (Belgium)<br>• de_CH—German (Switzerland)<br>• de_LU—German (Luxembourg)<br>• el—Greek |

| Field | Details |
| --- | --- |
| | • en_AU—English (Australian)<br>• en_CA—English (Canadian)<br>• en_GB—English (UK)<br>• en_HK—English (Hong Kong)<br>• en_IE—English (Ireland)<br>• en_IN—English (Indian)<br>• en_MY—English (Malaysian)<br>• en_NZ—English (New Zealand)<br>• en_PH—English (Phillipines)<br>• en_SG—English (Singapore)<br>• en_US—English<br>• en_ZA—English (South Africa)<br>• eo—Esperanto (Pseudo)<br>• es—Spanish<br>• es_AR—Spanish (Argentina)<br>• es_BO—Spanish (Bolivia)<br>• es_CL—Spanish (Chile)<br>• es_CO—Spanish (Colombia)<br>• es_CR—Spanish (Costa Rica)<br>• es_DO—Spanish (Dominican Republic)<br>• es_EC—Spanish (Ecuador)<br>• es_GT—Spanish (Guatemala)<br>• es_HN—Spanish (Honduras)<br>• es_MX—Spanish (Mexico)<br>• es_NI—Spanish (Nicaragua)<br>• es_PA—Spanish (Panama)<br>• es_PE—Spanish (Peru)<br>• es_PR—Spanish (Puerto Rico)<br>• es_PY—Spanish (Paraguay)<br>• es_SV—Spanish (El Salvador)<br>• es_US—Spanish (United States)<br>• es_UY—Spanish (Uruguay)<br>• es_VE—Spanish (Venezuela)<br>• et—Estonian<br>• eu—Basque<br>• fa—Farsi<br>• fi—Finnish<br>• fr—French |

| Field | Details |
| --- | --- |
| | • `fr_BE`—French (Belgium)<br>• `fr_CA`—French (Canadian)<br>• `fr_CH`—French (Switzerland)<br>• `fr_LU`—French (Luxembourg)<br>• `ga`—Irish<br>• `gu`—Gujarati<br>• `hi`—Hindi<br>• `hr`—Croatian<br>• `hu`—Hungarian<br>• `hy`—Armenian<br>• `in`—Indonesian<br>• `is`—Icelandic<br>• `it`—Italian<br>• `it_CH`—Italian (Switzerland)<br>• `iw`—Hebrew<br>• `iw_EO`—Esperanto RTL (Pseudo)<br>• `ja`—Japanese<br>• `ka`—Georgian<br>• `km`—Khmer<br>• `kn`—Kannada<br>• `ko`—Korean<br>• `lb`—Luxembourgish<br>• `lt`—Lithuanian<br>• `lv`—Latvian<br>• `mi`—Te reo<br>• `mk`—Macedonian<br>• `ml`—Malayalam<br>• `mr`—Marathi<br>• `ms`—Malay<br>• `mt`—Maltese<br>• `my`—Burmese<br>• `nl_BE`—Dutch (Belgium)<br>• `nl_NL`—Dutch<br>• `no`—Norwegian<br>• `pl`—Polish<br>• `pt_BR`—Portuguese (Brazil)<br>• `pt_PT`—Portuguese (European)<br>• `rm`—Romansh |

| Field | Details |
| --- | --- |
| | • ro—Romanian<br>• ro_MD—Romanian (Moldova)<br>• ru—Russian<br>• sh—Serbian (Latin)<br>• sh_ME—Montenegrin<br>• sk—Slovak<br>• sl—Slovene<br>• sq—Albanian<br>• sr—Serbian (Cyrillic)<br>• sv—Swedish<br>• sw—Swahili<br>• ta—Tamil<br>• te—Telugu<br>• th—Thai<br>• tl—Tagalog<br>• tr—Turkish<br>• uk—Ukrainian<br>• ur—Urdu<br>• vi—Vietnamese<br>• xh—Xhosa<br>• zh_CN—Chinese (Simplified)<br>• zh_HK—Chinese (Hong Kong)<br>• zh_SG—Chinese (Singapore)<br>• zh_TW—Chinese (Traditional)<br>• zu—Zulu |
| MasterLabel | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The label of the batch job. |
| ProcessGroup | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The group or team that's using the batch job. This field is only applicable to Batch Management jobs. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>The status of the batch job.<br>Possible values are:<br>• `Active`<br>• `Inactive` |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>The type of batch job.<br>Possible values are:<br>• `Calc`—Data Processing Engine<br>• `DecisionTableRefresh`<br>• `Flow` |

# Common Platform Event

Batch Management jobs and Data Processing Engine definitions are run using invocable actions in Flows. Use the BatchJobStatusChanged event to notify subscribers after a Batch Management job or a Data Processing Engine definition is processed in a flow.

BatchJobStatusChangedEvent
Notifies subscribers of when a batch job is completed in a flow. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

## BatchJobStatusChangedEvent

Notifies subscribers of when a batch job is completed in a flow. This object is available in API version 51.0 and later.

### Supported Calls

`describeSObjects()`

### Supported Subscribers

| Subscriber | Supported? |
|---|---|
| Flows | ✔ |

### Fields

| Field | Details |
|---|---|
| `BatchJob` | **Type**<br>string<br>**Description**<br>The unique identifier of the batch job. |
| `BatchJobDefinition` | **Type**<br>string<br>**Properties**<br>Nillable<br>**Description**<br>The unique identifier of the batch job's definition. |
| `EndDateTime` | **Type**<br>dateTime |

| Field | Details |
| --- | --- |
| | **Properties**<br>Nillable<br>**Description**<br>The timestamp for when the batch job execution is complete. |
| `EventUuid` | **Type**<br>string<br>**Properties**<br>Nillable<br>**Description**<br>A universally unique identifier (UUID) that identifies a platform event message. This field is available in API version 52.0 and later. |
| `ReplayId` | **Type**<br>string<br>**Properties**<br>Nillable<br>**Description**<br>Represents an ID value that is populated by the system and refers to the position of the event in the event stream. Replay ID values aren't guaranteed to be contiguous for consecutive events. A subscriber can store a replay ID value and use it on resubscription to retrieve missed events that are within the retention window. |
| `StartDateTime` | **Type**<br>dateTime<br>**Properties**<br>Nillable<br>**Description**<br>The timestamp for when the batch job execution is started. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Restricted picklist<br>**Description**<br>The status of the batch job.<br>Possible values are:<br>• `Canceled`—Canceled<br>• `Failure`<br>• `Success` |

# Common Business APIs

Common Business APIs are RESTful APIs that are sometimes available as Apex classes and methods.

REST Reference
You can access Common Business APIs using REST endpoints. These REST APIs follow similar conventions as Connect REST APIs.

# REST Reference

You can access Common Business APIs using REST endpoints. These REST APIs follow similar conventions as Connect REST APIs.

To understand the architecture, authentication, rate limits, and how the requests and responses work, see Connect REST API Developer Guide.

Resources
Here's a list of Common Business API resources.

Response Bodies
Here's a list of Common Business API response bodies.

SEE ALSO:
Connect REST API Developer Guide

## Resources

Here's a list of Common Business API resources.

Batch Job Cancel
Cancel a batch job of type data processing engine (calc job) and batch management. A batch job with only the status Submitted or In Progress can be canceled.

### Batch Job Cancel

Cancel a batch job of type data processing engine (calc job) and batch management. A batch job with only the status Submitted or In Progress can be canceled.

**Special Access Rules**

To use this resource, the following permissions are required:

- Your org must have the Batch Management and Data Processing Engine licenses
- Users in your org require System Administration profile

**Resource**

```
/connect/batch-job/batchJobId/cancel-job
```

**Resource example**

```
/connect/batch-job/0mdxx00000000fxAAA/cancel-job
```

**Available version**
52.0

**Requires Chatter**
No

**HTTP methods**
POST

Note: POST doesn't take request parameters or a request body.

**Response body for POST**
Returns HTTP 201 on success.

See Batch Job Cancel Output for HTTP code descriptions that are unique to this resource in case of failure of the batch job cancel request.

## Response Bodies

Here's a list of Common Business API response bodies.

Batch Job Cancel Output
Output representation of the batch job cancel request.

### Batch Job Cancel Output

Output representation of the batch job cancel request.

| Property Name | Type | Description | Filter Group and Version | Available Version |
|---|---|---|---|---|
| `message` | String | Details about why the batch job cancel request failed. | Small, 52.0 | 52.0 |

This table lists HTTP response code descriptions that are unique to this resource.

| HTTP Response Code | Error Code | Description |
|---|---|---|
| 400 | `INVALID_STATUS` | We can't cancel the batch job that doesn't have an active run. Specify the ID of a batch job with an active run and try again. |
| 400 | `INVALID_STATUS` | We can't cancel the batch job that is already canceled or completed. Specify the ID of a valid batch job with the status InProgress or Submitted and try again. |
| 400 | `DELETE_FAILED` | We can't cancel the batch job of which the results are already being written back. |
| 400 | `DELETE_FAILED` | We can't cancel the batch job because of an error in processing your org's data. Run the Data Processing Engine definition and try again. |

| HTTP Response Code | Error Code | Description |
|---|---|---|
| 403 | `FORBIDDEN` | You don't have the permission to cancel a batch job. Ask your Salesforce admin for help. |
| 404 | `RESOURCE_NOT_FOUND` | Specify the ID of a valid batch job and try again. |
| 500 | `INTERNAL_SERVER_ERROR` | Something went wrong when we tried to cancel the batch job. Try again or ask your Salesforce admin for help. |

# Data Processing Engine

Transform data that's available in your Salesforce org and write back the transformation results as new or updated records. You can transform the data for standard and custom objects. Data Processing Engine consists of a Tooling API object, a standard object, a Metadata API, and an invocable action. You can use these to view, create, edit, and run Data Processing Engine definitions.

EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

### Data Processing Engine Tooling API Objects

Data Processing Engine consists of one Tooling API object, BatchCalcJobDefinition. Use this object to create and edit a Data Processing Engine definition.

### Data Processing Engine Standard Object

Data Processing Engine contains one standard object, BatchCalcJobDefinitionView. Use this object to view all the Data Processing Engine definitions available in your Salesforce org, including file-based definitions.

### Data Processing Engine Metadata API

Use a Metadata API to create, update, and activate Data Processing Engine definitions.

### Data Processing Engine Invocable Actions

Run an active Data Processing Engine definition. For more information on custom invocable actions, see **REST API Developer Guide** and **Actions Developer Guide**.

# Data Processing Engine Tooling API Objects

Data Processing Engine consists of one Tooling API object, BatchCalcJobDefinition. Use this object to create and edit a Data Processing Engine definition.

Tooling API objects let you interact with metadata for declarative development. For example, you can create your own version of Setup.

BatchCalcJobDefinition
Represents a Data Processing Engine (DPE) definition. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

## BatchCalcJobDefinition

Represents a Data Processing Engine (DPE) definition. This object is available in API version 51.0 and later.

Note: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

### Supported SOAP API Calls

`create()`, `delete()`, `describeSObjects()`, `query()`, `retrieve()`, `update()`, `upsert()`

### Supported REST API Methods

`DELETE, GET, HEAD, PATCH, POST, Query`

### Fields

| Field | Details |
| --- | --- |
| `BatchJobDefinitionId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier of the associated batch job definition.<br>This is a relationship field.<br>**Relationship Name**<br>BatchJobDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJobDefinition |

| Field | Details |
| --- | --- |
| `DataSpaceApiName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The Data Space API name from Data Cloud. |
| `DefinitionRunMode` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The execution mode of the Data Processing Engine definition.<br>Possible values are:<br>• `Batch`<br>• `OnDemand`—This value is reserved for internal use.<br>The default value is `Batch`. |
| `DeveloperName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The developer name of the Data Processing Engine definition. |
| `DoesGenAllFailedRecords` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the error file includes a complete list of all failed writeback records (`true`) or not (`false`). The default value is `false`, and only the first instance of a failure is recorded in the error file. If set to `true`, all failed records are recorded in the error file for the writeback node.<br>Available in API version 65.0 and later. |
| `ExecutionPlatformObjectType` | **Type**<br>Picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>Required. The execution platform object type that's used during the read, transform, and writeback process for the Data Processing Engine definition. Possible values are:<br>• `CalculatedInsightsObject`<br>• `DataLakeObject`<br>• `DataModelObject`<br>• `None`<br>Available in API version 65.0 and later. |
| `ExecutionPlatformType` | **Type**<br>Picklist<br>**Properties**<br>Filter, Group, Restricted picklist, Sort, Not-Nillable<br>**Description**<br>Specifies the platform that's used to run the Data Processing Engine definition. Possible values:<br>• `CRMA`—CRM Analytics<br>• `CDP`— Data Cloud<br>• `CORE`—This value is reserved for internal use. |
| `FullName` | **Type**<br>string<br>**Properties**<br>Create, Group, Nillable<br>**Description**<br>The name of the Data Processing Engine definition.<br>Query this field only if the query result contains no more than one record. Otherwise, an error is returned. If more than one record exists, use multiple queries to retrieve the records. This limit protects performance. |
| `IsTemplate` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether this is a template Data Processing Engine definition. |
| `Language` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The language in which this Data Processing Engine definition is created. |
| `ManageableState` | **Type**<br>ManageableState enumerated list<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Indicates the manageable state of the specified component that is contained in a package:<br>• `beta`<br>• `deleted`<br>• `deprecated`<br>• `deprecatedEditable`<br>• `installed`<br>• `installedEditable`<br>• `released`<br>• `unmanaged` |
| `MasterLabel` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The label of the Data Processing Engine definition. |
| `Metadata` | **Type**<br>complexvalue<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>Data Processing Engine definition's metadata.<br>Query this field only if the query result contains no more than one record. Otherwise, an error is returned. If more than one record exists, use multiple queries to retrieve the records. This limit protects performance. |
| `NamespacePrefix` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The namespace prefix associated with this object. Each Developer Edition organization that creates a managed package has a unique namespace prefix. Limit: 15 characters. You can refer to a component in a managed package by using the ***namespacePrefix__componentName*** notation.<br>The namespace prefix can have one of the following values:<br>• In Developer Edition organizations, the namespace prefix is set to the namespace prefix of the organization for all objects that support it. There's an exception if an object is in an installed managed package. In that case, the object has the namespace prefix of the installed managed package. This field's value is the namespace prefix of the Developer Edition organization of the package developer.<br>• In organizations that aren't Developer Edition organizations, `NamespacePrefix` is only set for objects that are part of an installed managed package. There's no namespace prefix for all other objects. |
| `ProcessType` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Restricted picklist, Sort<br>**Description**<br>Required. The process type for which the Data Processing Engine definition is created.<br>Possible values are:<br>• `AccountingPeriodClosure`—Legal Entity Accounting Period Closure—Available in API version 62.0 and later.<br>• `ActionableList`<br>• `AdvancedAccountForecast`<br>• `BenefitManagement`—Available in API version 61.0 and later.<br>• `BillingSchedulesforInvoiceGeneration`—Billing Schedules for Invoice Generation—Available in API version 62.0 and later.<br>• `CDPEnrichment`<br>• `ChannelInventoryManagement`—Available in API version 63.0 and later.<br>• `CollectionsAndRecovery`<br>• `CriteriaBsdSearchAndFilter - Criteria-Based Search And Filter`<br>• `DataProcessingEngine - Standard`<br>• `DecisionMatrixDataUpload`-This value is available only if you have Business Rules Engine enabled.<br>• `Decisiontable`—Decision table activation—Available in API version 62.0 and later.<br>• `Education`<br>• `EmployeeService`—Available in API version 63.0 and later.<br>• `FinancialSummaryRollup`—Available in API version 63.0 and later. |

| Field | Details |
| --- | --- |
| | • `ForeignExchangeGainLossCalculations`<br>• `FSCHierarchyRollUp`<br>• `Fundraising`<br>• `FundraisingRollups`—Available in API version 63.0 and later.<br>• `GeneralLedgerAccountBalancesSummary`<br>• `InventoryBatchSearch`<br>• `InventorySearch`<br>• `InvoiceGeneration`—Available in API version 62.0 and later.<br>• `LegalEntityAccountingPeriodClosureAdvanced`—Available in API version 63.0 and later.<br>• `LifeSciencesCommercialTerritoryAlignment`—Available in API version 63.0 and later.<br>• `LifeSciencesCustomerEngagement`<br>• `Loyalty`<br>• `LoyaltyPartnerManagement`<br>• `LoyaltyPointsAggregation`<br>• `NetZero`<br>• `NextGenForecasting`—Available in API version 62.0 and later.<br>• `PatientServicesProgram`<br>• `PnmRosterFileUpload`—Available in API version 62.0 and later.<br>• `PriceProtection`—Available in API version 62.0 and later.<br>• `ProductCatalogManagement`—Available in API version 63.0 and later.<br>• `ProgramBasedBusiness`<br>• `ProgramManagementRollups`<br>• `Rebates`<br>• `RecordAggregation`<br>• `RevenueTransactionManagement`—Available in API version 63.0 and later.<br>• `AccountingSubledger`—This value is reserved for internal use.<br>• `ProviderSearch`—This value is reserved for internal use.<br>• `Recruitment`—Available in API version 62.0 and later.<br>• `SalesAgreement`—Available in API version 63.0 and later.<br>• `StockRotation`<br>• `UsageManagement`—Available in API version 62.0 and later.<br>When Data Processing Engine is enabled for a Salesforce org, the default value is 'Standard'. Other process types may be available to you depending on the licenses available in your org. |

# Data Processing Engine Standard Object

Data Processing Engine contains one standard object, BatchCalcJobDefinitionView. Use this object to view all the Data Processing Engine definitions available in your Salesforce org, including file-based definitions.

BatchCalcJobDefinitionView
Represents the details of a Data Processing Engine definition. The definition can also be a file-based definition that is available in your Salesforce org. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

## BatchCalcJobDefinitionView

Represents the details of a Data Processing Engine definition. The definition can also be a file-based definition that is available in your Salesforce org. This object is available in API version 51.0 and later.

Note: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

### Supported Calls

`describeSObjects()`, `query()`

### Fields

| Field | Details |
|---|---|
| `DataSpaceApiName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>Stores the data space API name from Data Cloud. |
| `DefinitionRunMode` | **Type**<br>picklist<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort, Update<br>**Description**<br>The execution mode of the Data Processing Engine definition.<br>Possible values are:<br>• `Batch`<br>• `OnDemand`—On Demand<br>The default value is `Batch`. |

| Field | Details |
| --- | --- |
| `Description` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The description of a Data Processing Engine definition. |
| `DurableId` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier for the field. Always retrieve this value before using it, as the value isn't guaranteed to stay the same from one release to the next. Simplify queries by using this field instead of making multiple queries. |
| `ExecutionPlatformObjectType` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Specifies the execution platform object type used to read, transform, and write back processes during the execution of a Data Processing Engine definition. This field is available in API version 65.0 and later.<br>Possible values are:<br>• `CalculatedInsightsObject`—Calculated Insights Object<br>• `DataLakeObject`—Data Lake Object<br>• `DataModelObject`—Data Model Object<br>• `None` |
| `ExecutionPlatformType` | **Type**<br>Picklist<br>**Properties**<br>**Filter, Group, Restricted picklist, Sort, Not-Nillable**<br>**Description**<br>Specifies the platform that's used to run the Data Processing Engine definition. Possible values:<br>• CRMA: CrmAnalytics<br>• CDP: DataCloudForMarketing |

| Field | Details |
| --- | --- |
| `InstalledPackageName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the package used to add the definition to the org. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the definition is active. |
| `IsTemplate` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the definition is a template. You can make a copy of a template definition and update it based on your requirements. |
| `LastModifiedBy` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier of the user who modified the definition last. |
| `ManageableState` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Indicates the manageable state of the definition if it's contained in a package.<br>Possible values are:<br>• `beta`—Managed-Beta<br>• `deleted`—Managed-Proposed-Deleted<br>• `deprecated`—Managed-Proposed-Deprecated<br>• `deprecatedEditable`—SecondGen-Installed-Deprecated<br>• `installed`—Managed-Installed |

| Field | Details |
| --- | --- |
| | • `installedEditable`—SecondGen-Installed-Editable<br>• `released`—Managed-Released<br>• `unmanaged`—Unmanaged |
| `MasterLabel` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The label of the Data Processing Engine definition. |
| `Name` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the Data Processing Engine definition. |
| `NamespacePrefix` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The namespace prefix associated with this object. Each Developer Edition organization that creates a managed package has a unique namespace prefix. Limit: 15 characters. You can refer to a component in a managed package by using the namespacePrefix__componentName notation.<br>The namespace prefix can have one of the following values:<br>• In Developer Edition organizations, the namespace prefix is set to the namespace prefix of the organization for all objects that support it. There's an exception if an object is in an installed managed package. In that case, the object has the namespace prefix of the installed managed package. This field's value is the namespace prefix of the Developer Edition organization of the package developer.<br>• In organizations that aren't Developer Edition organizations, NamespacePrefix is only set for objects that are part of an installed managed package. There's no namespace prefix for all other objects. |
| `ProcessType` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The process type of the definition.<br>Possible values are:<br>• `AccountingPeriodClosure`—Legal Entity Accounting Period Closure—Available in API version 62.0 and later.<br>• `ActionableList`<br>• `AdvancedAccountForecast`<br>• `BenefitManagement`—Available in API version 61.0 and later.<br>• `BillingSchedulesforInvoiceGeneration`—Billing Schedules for Invoice Generation—Available in API version 62.0 and later.<br>• `CDPEnrichment`<br>• `ChannelInventoryManagement`—Available in API version 63.0 and later.<br>• `CollectionsAndRecovery`<br>• `CriteriaBsdSearchAndFilter - Criteria-Based Search And Filter`<br>• `DataProcessingEngine - Standard`<br>• `DecisionMatrixDataUpload`-This value is available only if you have Business Rules Engine enabled.<br>• `Decisiontable`—Decision table activation—Available in API version 62.0 and later.<br>• `Education`<br>• `EmployeeService`—Available in API version 63.0 and later.<br>• `FinancialSummaryRollup`—Available in API version 63.0 and later.<br>• `ForeignExchangeGainLossCalculations`<br>• `FSCHierarchyRollUp`<br>• `Fundraising`<br>• `FundraisingRollups`—Available in API version 63.0 and later.<br>• `GeneralLedgerAccountBalancesSummary`<br>• `InventoryBatchSearch`<br>• `InventorySearch`<br>• `InvoiceGeneration`—Available in API version 62.0 and later.<br>• `LegalEntityAccountingPeriodClosureAdvanced`—Available in API version 63.0 and later.<br>• `LifeSciencesCommercialTerritoryAlignment`—Available in API version 63.0 and later.<br>• `LifeSciencesCustomerEngagement`<br>• `Loyalty`<br>• `LoyaltyPartnerManagement`<br>• `LoyaltyPointsAggregation`<br>• `NetZero` |

| Field | Details |
| --- | --- |
| | • `NextGenForecasting`—Available in API version 62.0 and later.<br>• `PatientServicesProgram`<br>• `PnmRosterFileUpload`—Available in API version 62.0 and later.<br>• `PriceProtection`—Available in API version 62.0 and later.<br>• `ProductCatalogManagement`—Available in API version 63.0 and later.<br>• `ProgramBasedBusiness`<br>• `ProgramManagementRollups`<br>• `Rebates`<br>• `RecordAggregation`<br>• `RevenueTransactionManagement`—Available in API version 63.0 and later.<br>• `AccountingSubledger`—This value is reserved for internal use.<br>• `ProviderSearch`—This value is reserved for internal use.<br>• `Recruitment`—Available in API version 62.0 and later.<br>• `SalesAgreement`—Available in API version 63.0 and later.<br>• `StockRotation`<br>• `UsageManagement`—Available in API version 62.0 and later.<br>When Data Processing Engine is enabled for a Salesforce org, the default value is 'Standard'. Other process types may be available to you depending on your industry solution and permission sets. |

# Data Processing Engine Metadata API

Use a Metadata API to create, update, and activate Data Processing Engine definitions.

BatchCalcJobDefinition
Represents a Data Processing Engine definition.

EDITIONS

Available in: Lightning Experience

Available in: Data Processing Engine is available with Enterprise, Unlimited, and Performance Editions with the Financial Services Cloud, Loyalty Management, Manufacturing Cloud, Rebate Management, Accounting Subledger, or Provider Search in Health Cloud.

## BatchCalcJobDefinition

Represents a Data Processing Engine definition.

### Parent Type

This type extends the Metadata metadata type and inherits its `fullName` field.

### File Suffix and Directory Location

BatchCalcJobDefinition components have the suffix `.batchCalcJobDefinition` and are stored in the `batchCalcJobDefinitions` folder.

## Version

BatchCalcJobDefinition components are available in API version 51.0 and later.

## Special Access Rules

To use this metadata type, one of these licenses is required:

- Loyalty Management
- Financial Services Cloud
- Rebate Management
- Manufacturing Cloud
- Net Zero Cloud

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `aggregates` | BatchCalcJob Aggregate[] | Collection of aggregate nodes in a data processing engine. |
| `appends` | BatchCalcJobUnion[] | Collection of append nodes in a data processing engine. |
| `atomicWritebacks` | BatchCalcJobAtomicWriteBack[] | Collection of composite writeback nodes in a data processing engine definition. Available in API version 62.0 and later. |
| `customNodes` | BatchCalcJobCustomNode[] | Collection of custom nodes in a data processing engine. Available in API version 57.0 and later. |
| `dataSpaceApiName` | string | Stores the Data Space API Name from . Available in API version 60.0 and later. |
| `datasources` | BatchCalcJob Datasource[] | Collection of data source nodes in a data processing engine. |
| `definitionRunMode` | BatchCalcJobRunModeEnum (enum of type string) | Specifies the execution mode in a data processing engine. Valid values are:<br>• `Batch`<br>• `OnDemand` |
| `description` | string | Description of a data processing engine definition. |
| `doesGenAllFailedRecords` | boolean | Indicates whether the error file includes a complete list of all failed writeback records (`true`) or not (`false`). The default value is `false`, and only the first instance of a failure is recorded in the error file. If set to `true`, all failed records are recorded in the error file for the writeback node.<br>Available in API version 65.0 and later. |

| Field Name | Field Type | Description |
|---|---|---|
| executionPlatformObjectType | ExecutionPlatformObjectType (enumeration of type string) | The execution platform object type that's used during the read, transform, and writeback process for the Data Processing Engine definition. Possible values are:<br>• CalculatedInsightsObject<br>• DataLakeObject<br>• DataModelObject<br>• None<br>Available in API version 65.0 and later. |
| executionPlatformType | ExecutionPlatformType (enumeration of type string) | The platform that's used to run the Data Processing Engine definition. Valid values are:<br>• CRMA<br>• CDP<br>• CORE<br>Available in API version 59.0 and later. |
| filters | BatchCalcJobFilter[] | Collection of filter nodes in a data processing engine. definition. |
| forecasts | BatchCalcJobForecast[] | Collection of forecast nodes in a data processing engine. definition.<br>Available in API version 58.0 and later. |
| hierarchyPaths | BatchCalcJobHierarchyPath[] | Collection of hierarchy path nodes in a data processing engine definition. |
| isTemplate | boolean | Indicates whether it's a template data processing engine definition. |
| joins | BatchCalcJobSourceJoin[] | Collection of join nodes in a data processing engine. |
| label | string | The label of a data processing engine definition. |
| parameters | BatchCalcJobParameter[] | Collection of input variables in a data processing engine. |
| processType | BatchCalcProcessType (enumeration of type string) | The process type of a data processing engine. These process types may be available to you depending on your industry solution and permission sets. Valid values are:<br>• AccountingPeriodClosure<br>• AccountingSubledger—This value is reserved for internal use.<br>• ActionableList<br>• AdvancedAccountForecast<br>• BenefitManagement<br>• BillingSchedulesforInvoiceGeneration<br>• CDPEnrichment<br>• ChannelInventoryManagement—Available in API version 63.0 and later. |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `CollectionPlan`—Available in API version 65.0 and later.<br>• `CriteriaBsdSearchAndFilter`<br>• `DataProcessingEngine`<br>• `DecisionMatrixDataUpload`<br>• `Decisiontable`<br>• `Education`<br>• `EmployeeService`—Available in API version 63.0 and later.<br>• `FinancialSummaryRollup`<br>• `ForeignExchangeGainLossCalculations`—Available in API version 65.0 and later.<br>• `FSCHierarchyRollUp`<br>• `Fundraising`—Available in API version 64.0 and later.<br>• `FundraisingRollups`—Available in API version 63.0 and later.<br>• `GeneralLedgerAccountBalancesSummary`—Available in API version 65.0 and later.<br>• `InventoryBatchSearch`—Available in API version 65.0 and later.<br>• `InventorySearch`—Available in API version 65.0 and later.<br>• `InvoiceGeneration`<br>• `Loyalty`<br>• `LegalEntityAccountingPeriodClosureAdvanced`—Available in API version 63.0 and later.<br>• `LifeSciencbatchcalesCommercialTerritoryAlignment`—Available in API version 63.0 and later.<br>• `LifeSciencesCustomerEngagement`—Available in API version 64.0 and later.<br>• `LoyaltyPartnerManagement`<br>• `LoyaltyPointsAggregation`<br>• `NextGenForecasting`—Available in API version 64.0 and earlier.<br>• `NetZero`<br>• `PatientServicesProgram`—Available in API version 64.0 and later.<br>• `PnmRosterFileUpload`<br>• `PriceProtection`<br>• `ProductCatalogManagement`<br>• `ProgramBasedBusiness`<br>• `ProviderSearch`—This value is reserved for internal use.<br>• `Rebates`<br>• `Recruitment` |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `RevenueTransactionManagement`—Available in API version 63.0 and later.<br>• `SalesAgreement`—Available in API version 63.0 and later.<br>• `TestAtomicWritebackScale`—Available in API version 64.0 and later.<br>• `TestProcessType`<br>• `UsageManagement` |
| `status` | BatchJobDefinition Status (enumeration of type string) | Status of a data processing engine definition. Valid values are:<br>• `Active`<br>• `Inactive` |
| `transforms` | BatchCalcJobTransform[] | Collection of data transformation nodes in a data processing engine. |
| `writebacks` | BatchCalcJobWriteback Object[] | Collection of writeback objects in which the results of the data processing engine are written back. |

## BatchCalcJobAggregate

Represents a collection of fields relating to an aggregate node in a data processing engine.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `description` | string | Description of an aggregate node. |
| `fields` | BatchCalcJob AggregateField[] | Required. Collection of aggregation fields. |
| `groupBy` | string[] | Required. Collections of fields used to group data in an aggregate node. |
| `label` | string | Required. Label of an aggregate node. |
| `name` | string | Required. Name of an aggregate node. |
| `sourceName` | string | Required. Name of the source node. |

## BatchCalcJobAggregateField

Represents a collection of fields relating to an aggregation field in an aggregate node of a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `aggregateFunction` | BatchCalcJobAggregateFunction (enumeration of type string) | Required. Function used for aggregation.<br>Valid values are:<br>• `Unique`—A count of unique values.<br>• `Sum`—The sum of all values.<br>• `Max`—The largest value.<br>• `Min`—The smallest value.<br>• `Avg`—The average value, calculated as the mean.<br>• `Std`—The standard deviation.<br>• `Stdp`—A standard deviation with population variance.<br>• `Var`—The variance.<br>• `VarP`—The variance with population.<br>• `Count`—The total count of values. |
| `alias` | string | Required. Name that subsequent nodes within the data processing engine use to refer to the aggregate field. |
| `sourceFieldName` | string | Required. Source node field on which the aggregate is calculated. |

## BatchCalcJobAtomicWriteback

Represents a node in a DPE definition that stores the details about the relationship between the writeback nodes and the composite writeback operations between the nodes.

| Field Name | Field Type | Description |
|---|---|---|
| `description` | string | Description of the composite writeback object. |
| `label` | string | Required. Name of the composite writeback object. |
| `name` | string | Required. API name of the composite writeback object. |
| `writebackObject Relationships` | BatchCalcJobAtomicWritebackRelationship[] | Specifies the relationship between the writeback objects that are involved in the writeback operation. |
| `writebackSequence` | int | Sequence in which the data processing engine executes the composite write back node. |

## BatchCalcJobAtomicWritebackRelationship

Represents the relationships between the writeback objects that are involved in a composite writeback operation. It captures the relationships between these objects and the sequence in which they should be processed.

| Field Name | Field Type | Description |
|---|---|---|
| childWritebackObjectField | string | Field name that's associated with the child writeback object in a composite writeback relationship. Available in API version 63.0 and later. |
| childWritebackObjectName | string | Name of the child writeback object that's associated with the writeback relationship. |
| parentWritebackObjectField | string | Field name that's associated with the parent writeback object in a composite writeback relationship. Available in API version 63.0 and later. |
| parentWritebackObjectName | string | Required. Name of the parent writeback object that's associated with the writeback relationship. |
| relationshipName | string | Describes the relationship between the child and parent writeback objects in a composite writeback node. Available in API version 64.0 and later. |
| sequenceNumber | int | Sequence number of the writeback node that's associated with its parent node in the relationship. |

## BatchCalcJobCustomNode

Represents a collection of custom nodes in a data processing engine. Use a custom node to add a custom action.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| description | string | Description of a custom node. |
| extensionName | string | Required. Name of an extension node. |
| extensionNamespace | string | Required. Namespace of an extension node. |
| label | string | Required. Label of a custom node. |
| name | string | Required. Name of a custom node. |
| parameters | BatchCalcJobCustomNodeParameter[] | The field mappings of an extension node. |
| sources | string[] | Sources of an extension node. |

## BatchCalcJobCustomNodeParameter

Represents the field mappings of an extension node.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| name | string | Required. Name of a parameter. |

| Field Name | Field Type | Description |
|---|---|---|
| value | string | Required. Value of a parameter. |

## BatchCalcJobDatasource

Represents a collection of fields relating to a data source node in a data processing engine.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| CSVDelimiter | BatchCalcJobCSVDelimiter (enumeration of type string) | Specifies the field separator to read fields from a CSV file record.<br>Possible values are:<br>• COMMA<br>• BACKQUOTE<br>• CARET<br>• PIPE<br>• SEMICOLON<br>• TAB<br>The default value is COMMA.<br>The same delimiter value used for the CSV file can't be used within any of the column values in the file. If you mistakenly use the same delimiter value in column values, it can cause data parsing issues. |
| description | string | Description of a data source node. |
| fields | BatchCalcJob DatasourceField[] | Required. Collection of data source fields. |
| fileIdentifier | string | Specifies the source of the file or file storage system. |
| filePath | string | The file path for the specified file. |
| fileSource | BatchCalcJobFileSource (enumeration of type string) | Specifies the source of the file or file storage system.<br>Possible value is:<br>• ContentManagement |
| label | string | Required. Label of a data source node. |
| name | string | Required. Name of a data source node. |
| sourceName | string | Required. Name of a standard or custom object from which the data source node extracts data. |
| type | BatchCalcJobDataSource Type (enumeration of type string) | Required. Type of object for the source object field. Supported values are:<br>• Analytics<br>• CalculatedInsightsObject |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `CRMObject`<br>• `CSV`<br>• `DataModelObject`<br>• `StandardObject`<br>. |

## BatchCalcJobDatasourceField

Represents a collection of fields relating to a source object field that are selected in the data source node of a data processing engine.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `alias` | string | Name that subsequent nodes within the data processing engine use to refer to the data source field. Required when the field name is lookup. |
| `dataType` | BatchCalcJobDataType (enumeration of type string) | Specifies the data type of the input field when using a CSV file as a data source.<br>Possible values are:<br>• `Boolean`—Available in API version 65.0 and later.<br>• `Date`<br>• `DateTime`<br>• `MultiValue`<br>• `Numeric`<br>• `Text` |
| `isPrimaryKey` | boolean | Indicates whether a column name is the primary key (`true`) or not (`false`) for the Data Cloud CSV file. |
| `name` | string | Required. Name of the field. Can be either of the following:<br>• Name of the source field selected in the associated data source object.<br>• Name from a nested lookup object with three child levels. |

## BatchCalcJobFilter

Represents a collection of fields relating to a filter node in a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `criteria` | BatchCalcJobFilterCriteria[] | Collection of filter criteria in a filter node.<br>The field is required when `isDynamicFilter` is set to `False`. |
| `description` | string | Description of the batch calculation job filter. |
| `filterCondition` | string | Logic that is specified to apply the filter conditions.<br>The field is required when `isDynamicFilter` is set to `False`. |
| `filterParameterName` | string | Name of the parameter of type filter. |
| `isDynamicFilter` | boolean | Indicates whether the filter criteria is dynamic. If value is set to `True`, filter criteria is passed in runtime with `filterParameterName`. |
| `label` | string | Required. Label of the filter node. |
| `name` | string | Required. Name of the filter node. |
| `sourceName` | string | Required. Name of the source node. |

## BatchCalcJobForecast

Represents a collection of fields relating to a forecast node in a data processing engine. Available in API version 58.0 and later.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| accuracyPercent | BatchCalcJobFrcstAccuracy (enumeration of type string) | The interval percentage to account for errors in forecasts.<br>Possible values are:<br>• `Eighty`<br>• `NinetyFive`<br>• `None`<br>The default value is `None`. |
| aggregateFields | BtchCalcJobFrcstAggrFld[] | The list of fields to forecast. |
| dateFieldName | string | Required.<br>The date field from the source node used to forecast values for the specified forecast length. |

| Field Name | Field Type | Description |
|---|---|---|
| description | string | The description of the forecast node. |
| forecastModelType | BatchCalcJobFrcstModel (enumeration of type string) | The model used to forecast data.<br>Possible values are:<br>• `Additive`<br>• `Auto`<br>• `Multiplicative`<br>The default value is `Auto`. |
| forecastPeriodCount | int | The number of time periods to generate forecast data. For example, if you select Year-Month as the forecast period type, and 4 as the forecast period count, the forecast results are generated for the next 4 months.<br>The minimum and the default count is 1, and the maximum is 100. |
| forecastPeriodType | BatchCalcJobFrcstPeriodType (enumeration of type string) | Required.<br>The type of forecast period to group date field values in the forecast results.<br>Possible values are:<br>• `FiscalYear`<br>• `FiscalYearMonth`<br>• `FiscalYearQuarter`<br>• `FiscalYearWeek`<br>• `Year`<br>• `YearMonth`<br>• `YearMonthDay`<br>• `YearQuarter`<br>• `YearWeek` |
| groupFields | BatchCalcJobFrcstGrpFld[] | The source fields for grouping the data to be |

| Field Name | Field Type | Description |
|---|---|---|
| | | processed by the forecast node. |
| `label` | string | Required.<br>The name of the forecast node in the UI. |
| `name` | string | Required.<br>A unique name for the forecast node. |
| [illegible] | string | Required.<br>The start date of the forecast period. |
| [illegible] | BatchCalcJobFrcstSeasonality (enumeration of type string) | Represents the periodic fluctuations that occur around the same time every year.<br>Possible values are:<br>• `Two`<br>• `Three`<br>• `Four`<br>• `Five`<br>• `Six`<br>• `Seven`<br>• `Eight`<br>• `Nine`<br>• `Ten`<br>• `Eleven`<br>• `Twelve`<br>• `Thirteen`<br>• `Fourteen`<br>• `Fifteen`<br>• `Sixteen`<br>• `Seventeen`<br>• `Eighteen`<br>• `Nineteen`<br>• `Twenty`<br>• `TwentyOne` |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `TwentyTwo`<br>• `TwentyThree`<br>• `TwentyFour`<br>• `Auto`<br>• `None`<br>The default value is `None`. |
| [illegible] | boolean | Indicates whether to ignore the last period in the source node when it has incomplete data (`true`) or not (`false`).<br>The default value is `false`. |
| sourceName | string | Required.<br>The name of the source node.<br>A source can be any node other than the datasink and register node. |

## BtchCalcJobFrcstAggrFld

Represents a list of fields to forecast in a forecast node.

| Field Name | Field Type | Description |
|---|---|---|
| `aggregateFunction` | BatchCalcJobAggregateFunction (enumeration of type string) | Required.<br>The function of the aggregate field.<br>Possible values are:<br>• `Avg`<br>• `Count`<br>• `Max`<br>• `Min`<br>• `Std`<br>• `StdP`<br>• `Sum`<br>• `Unique`<br>• `Var` |

| Field Name | Field Type | Description |
|---|---|---|
| | | • `VarP` |
| `aggregationResultLabel` | string | Required.<br>The name of the aggregation result generated from the aggregation function that's applied to the source node field. |
| `fieldName` | string | Required.<br>The name of the source field. |

## BatchCalcJobFrcstGrpFld

Represents source fields for grouping the data to be processed by the forecast node.

| Field Name | Field Type | Description |
|---|---|---|
| `fieldName` | string | Required.<br>The name of the source field to group the data to be processed by the forecast node. |
| `groupBy` | string | A comma-separated list of values to group data by.<br>Required when the source field type is Date or DateTime.<br>Possible values are:<br>• `Second`<br>• `Second Epoch`<br>• `Minute`<br>• `Hour`<br>• `Day`<br>• `Day Epoch`<br>• `Week`<br>•<br>• `Month`<br>• `Quarter`<br>• `Year` |

## BatchCalcJobHierarchyPath

Represents a collection of hierarchy path nodes in a data processing engine definition.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `description` | string | Description of the hierarchy path node. |
| `hierarchyFieldName` | string | Required. Field name that contains the hierarchy path. |
| `isSelfFieldValueIncluded` | boolean | Indicates whether the self value is included in the calculated hierarchy path (`True`) or not (`False`). |
| `label` | string | Required. Label of the hierarchy path node. |
| `name` | string | Required. Name of the hierarchy path node. |
| `parentFieldName` | string | Required. Parent field name to calculate hierarchy path. |
| `selfFieldName` | string | Required. Self field name to calculate hierarchy path. |
| `sourceName` | string | Required. Name of the source node. |

## BatchCalcJobFilterCriteria

Represents a collection of fields relating to a filter condition in a filter node in a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `inputVariable` | string | Name of the input variable used as a filter. |
| `operator` | BatchCalcJobFilterOperator (enumeration of type string) | Required. Operator that is specified in the filter condition.<br>Valid values are:<br>• `Equals`<br>• `NotEquals`<br>• `GreaterThan`<br>• `GreaterThanOrEqual`<br>• `LessThan`<br>• `LessThanOrEqual`<br>• `StartsWith`<br>• `EndsWith`<br>• `Contains`<br>• `DoesNotContain`<br>• `IsNull`<br>• `IsNotNull`<br>• `In`<br>• `NotIn` |

| Field Name | Field Type | Description |
|---|---|---|
| `sequence` | integer | Required. Sequence number used to refer the criteria in a filter node. |
| `sourceFieldName` | string | Required. Name of the field from the source node to apply the filter. |
| `value` | string | Value used to filter data from the source node. |

## BatchCalcJobParameter

Represents a collection of fields relating to an input variable in a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `dataType` | BatchCalcJobParameterDataType (enumeration of type string) | Required. Data type of the parameter. Valid values are:<br>• `Date`<br>• `DateTime`<br>• `Expression`<br>• `FileIdentifier`<br>• `Filter`<br>• `Numeric`<br>• `Text` |
| `defaultValue` | string | Default value of the parameter. |
| `description` | string | Description of the batch calculation job parameter. |
| `isMultiValue` | boolean | Indicates whether the parameter has different values (`True`) or not (`False`). This field is supported only for the `Text` data type. |
| `label` | string | Required. Label of the batch calculation job parameter. |
| `name` | string | Required. Name of the batch calculation job parameter. |

## BatchCalcJobSourceJoin

Represents a collection of fields relating to a join node in a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `description` | string | Description of the join node. |
| `fields` | BatchCalcJobJoinResultField[] | Collection of fields in a join node. |

| Field Name | Field Type | Description |
|---|---|---|
| `joinKeys` | BatchCalcJobJoinKey[] | Collection of mapping of fields from the primary source node and the second source node in a join node. |
| `label` | string | Required. Label of the join node. |
| `name` | string | Required. Name of the join node. |
| `primarySourceName` | string | Required. Name associated with the node as the primary source node. |
| `secondarySourceName` | string | Required. Name associated with the node as the secondary source node. |
| `type` | BatchCalcJobSourceJoinType (enumeration of type string) | Required. Type of join specified between the primary source node and secondary source node. Valid values are:<br>• `LeftOuter`<br>• `RightOuter`<br>• `Inner`<br>• `Outer`<br>• `Lookup` |

## BatchCalcJobJoinKey

Represents a collection of fields relating to a mapping of fields from the first source node and second source node in a join node of a data processing engine.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `primarySourceFieldName` | string | Required. Mapped field name of the primary source node. |
| `secondarySourceFieldName` | string | Required. Mapped field name of the secondary source node. |

## BatchCalcJobJoinResultField

Represents a collection of fields relating to a set of resultant fields in a join node of a data processing engine.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `alias` | string | Required. Name that subsequent nodes within the data processing engine definition use to refer to the resultant field. |
| `sourceFieldName` | string | Required. Name of field from the primary or secondary data source. |
| `sourceName` | string | Required. Source node of the primary or secondary data source. |

## BatchCalcJobTransform

Represents a collection of fields relating to a data transformation in a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `description` | string | The description of the batch calculation job transform. |
| `droppedFields` | BatchCalcJobTransformDroppedField[] | The collection of dropped fields in a data transformation. Available when the transformation type is `Slice`. |
| `expressionFields` | BatchCalcJobTransformAddedField[] | The collection of formula fields in a data transformation. Available when the transformation type is `Expression`. |
| `label` | string | Required. The label of the batch calculation job transform. |
| `name` | string | Required. The name of the batch calculation job transform. |
| `orderBy` | BatchCalcJobOrderByField on page 778[] | A collection of fields that's used to sort the records within each partition group. |
| `partitionBy` | string[] | A group of fields that's used to partition the source data into partition groups. |
| `sourceName` | string | Required. Name of the source node. |
| `transformType` | BatchCalcJobTransformType (enumeration of type string) | Required. The type of transformation.<br>Valid values are:<br>• `ComputeRelative`—This transformation calculates values based on values of the same partition group.<br>• `Expression`—This transformation calculates values based on existing values of fields in the same record.<br>• `Slice`—This transformation removes fields from the source node. |

## BatchCalcJobTransformDroppedField

Represents a collection of fields relating to a dropped field in a data transformation of a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `sourceFieldName` | string | Required. Name of the field that is dropped. |

## BatchCalcJobTransformAddedField

Represents a collection of fields relating to a formula in a data transformation of a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `alias` | string | Required. Name that subsequent nodes within the data processing engine use to the transform node. |
| `dataType` | BatchCalcJobDataType (enumeration of type string) | Required. Data type of the formula.<br>Valid values are:<br>• `Boolean`—Available in API version 65.0 and later.<br>• `Date`<br>• `DateTime`<br>• `MultiValue`<br>• `Numeric`<br>• `Text` |
| `decimalPlaces` | integer | Number of digits to the right of a decimal point in the value. Required for the `Numeric` data type. |
| `expression` | string | Required. Formula defined by the user. |
| `length` | integer | Total length of the value including the decimal places. Required for data types: `Text` and `Numeric`. |

## BatchCalcJobOrderByField

Represents a collection of fields that are used to sort the partitioned data.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `name` | string | Required. Name of the field that is used to sort data. |
| `orderType` | BatchCalcJobOrderType (enumeration of type string) | Order in which the data is sorted.<br>Valid values are:<br>• Ascending<br>• Descending |

## BatchCalcJobUnion

Represents a collection of fields relating to the union of data from two nodes in a data processing engine.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `description` | string | Description of the batch calculation job union. |
| `isDisjointedSchema` | boolean | Indicates whether the union is of two disjointed datasets (`true`) or not (`false`). Set to `True` to allow joining of two datasets having no common fields. |
| `label` | string | Required. Label of the batch calculation job union. |
| `name` | string | Required. Name of the batch calculation job union. |
| `sources` | string[] | Names of the source nodes. |

## BatchCalcJobWritebackObject

Represents a collection of fields relating to the object in which the results of the data processing engine are written back.

### Fields

| Field Name | Field Type | Description |
|---|---|---|
| `canWrtbckToNonEditableFields` | boolean | Indicates whether the non-editable fields are included in field mapping when the action type is upsert. The default value is `false`.<br>Available in API version 64.0 and later. |
| `description` | string | Descriptions of the batch calculation job writeback object. |
| `externalIdFieldName` | string | Unique external field ID for the target object name.<br>Available in API version 60.0 and later. |
| `fields` | BatchCalcJobWriteback Mapping[] | Collection of the writeback fields. |
| `filterCondition` | string | The condition that filters the records from a writeback dataset for a user. Examples of a filter condition include a user ID, stage name, and a security policy that returns only the records that a user owns.<br>Available in API version 57.0 and later. |
| `folderName` | string | The folder where the writeback dataset is saved. Available in API version 57.0 and later. |
| `isChangedRow` | boolean | Indicates whether a row in the write back object is changed. Set to `True` to write back the changed rows. |
| `isExistingDataset` | boolean | Indicates whether a CRM Application (CRMA) dataset or a Data Lake object is present (`true`) or will be created (`false`). Available in API version 62.0 and later. |
| `label` | string | Required. Name of the write back object. |

| Field Name | Field Type | Description |
|---|---|---|
| `name` | string | Required. Name of the batch calculation job write back object. |
| `operationType` | BatchCalcJobWritebackOpn (enumeration of type string) | Type of operation specified.<br>Valid values are:<br>• `Delete`—This value is available in API version 56.0 and later.<br>• `Insert`<br>• `Overwrite`—Available only when `storageType` is `DataLakeObject`. This value is available in API version 60.0 and later.<br>• `Update`<br>• `Upsert` |
| `sharingInheritanceObjectName` | string | The name of the source object from which the row-level sharing inheritance settings are applied. Available in API version 57.0 and later. |
| `shouldCreateTargetObject` | boolean | Indicates whether target Data Lake Object or Salesforce Object is created in Salesforce (`true`) or not (`false`). Available in API version 65.0 and later. |
| `sourceName` | string | Required. Name of the source node associated with the write back object. |
| `storageType` | BatchCalcJobWritebackType (enumeration of type string) | Specifies where you want to use the data stored in the source node. Available in API version 57.0 and later.<br>Valid values are:<br>• `Analytics`<br>• `DataLakeObject`<br>• `sObject`<br>The default value is `sObject`. |
| `targetObjectName` | string | Required. Object that is inserted or upserted by the data processing engine. |
| `writebackSequence` | integer | Sequence in which the target object is updated by the data processing engine. |
| `writebackUser` | string | ID of the user whose permissions decide which objects and fields of the target object can be updated. |

## BatchCalcJobWritebackMapping

Represents a collection of fields relating to the mapping between results and the fields in the target object.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `fieldType` | string | Target field type on the writeback object. Valid values are:<br>• Primary Key<br>• Qualifier Key |

| Field Name | Field Type | Description |
|---|---|---|
| | | Available in API version 64.0 and later. |
| isAutogenerated | boolean | Indicates whether the target field value on the writeback object is autogenerated (`true`) or not (`false`).<br>Available in API version 64.0 and later. |
| `parentName` | string | Name of the lookup object. Required only when the `relationshipName` field is defined. |
| `relationshipName` | string | Name of the lookup relationship. |
| `runtimeParameter` | boolean | Indicates whether the source field from runtime parameter is `true` or `false`. The default value is `false`.<br>Available in API version 59.0 and later. |
| `sourceFieldName` | string | Required. Name of the field in the source node that is written back. |
| `targetFieldName` | string | Name of the sObject field to which the results are written back. |

## Declarative Metadata Sample Definition

The following is an example of a BatchCalcJobDefinition component.

```
<?xml version="1.0" encoding="UTF-8"?>
<BatchCalcJobDefinition xmlns="http://soap.sforce.com/2006/04/metadata">
    <aggregates>
        <description>Aggregate Description</description>
        <fields>
            <aggregateFunction>Count</aggregateFunction>
            <alias>NameCount</alias>
            <sourceFieldName>Name</sourceFieldName>
        </fields>
        <groupBy>ContactId</groupBy>
        <groupBy>Name</groupBy>
        <label>AggregateOpportunities</label>
        <name>AggregateOpportunities</name>
        <sourceName>Opportunity</sourceName>
    </aggregates>
    <forecasts>
        <description>ForecastNode Description</description>
        <label>ContactForecast</label>
        <name>ContactForecast</name>
        <sourceName>Contact</sourceName>
        <dateFieldName>CreatedDate</dateFieldName>
        <forecastPeriodType>YearMonth</forecastPeriodType>
        <shouldExcludeLastPeriod>false</shouldExcludeLastPeriod>
        <forecastPeriodCount>12</forecastPeriodCount>
        <periodStartDateName>CreatedDateYM</periodStartDateName>
        <forecastModelType>Auto</forecastModelType>
        <seasonality>None</seasonality>
        <accuracyPercent>None</accuracyPercent>
```

```
        <aggregationFields>
            <aggregateFunction>Count</aggregateFunction>
            <aggregationResultLabel>CountOfLastName</aggregationResultLabel>
            <fieldName>LastName</fieldName>
        </aggregationFields>
        <groupFields>
            <fieldName>LastModifiedDate</fieldName>
            <groupBy>Week</groupBy>
        </groupFields>
    </forecasts>
    <appends>
        <description>Append desc</description>
        <isDisjointedSchema>true</isDisjointedSchema>
        <label>AppendAllAccounts</label>
        <name>AppendAllAccounts</name>
        <sources>AccountsOfManufacturingIndustry</sources>
        <sources>ComputeRelativeManufacturingIndustry</sources>
    </appends>
    <datasources>
        <description>Desc Contact</description>
        <fields>
            <alias>Id</alias>
            <name>Id</name>
            <isPrimaryKey>false</isPrimaryKey>
            <dataType>Text</dataType>
        </fields>
        <fields>
            <alias>LastName</alias>
            <name>LastName</name>
            <isPrimaryKey>false</isPrimaryKey>
            <dataType>Text</dataType>
        </fields>
        <fields>
            <alias>CreatedDate</alias>
            <name>CreatedDate</name>
            <isPrimaryKey>false</isPrimaryKey>
            <dataType>Date</dataType>
        </fields>
        <fields>
            <alias>LastModifiedDate</alias>
            <name>LastModifiedDate</name>
            <isPrimaryKey>false</isPrimaryKey>
            <dataType>Date</dataType>
        </fields>
        <label>Contact</label>
        <name>Contact</name>
        <sourceName>Contact</sourceName>
        <type>StandardObject</type>
        <fileSource>ContentManagement</fileSource>
        <fileIdentifier>069xx0000004CAeAAM</fileIdentifier>
        <CSVDelimiter>COMMA</CSVDelimiter>
        <filePath>parentFolder/childFolder</filePath>
    </datasources>
    <datasources>
```

```
        <fields>
            <alias>Name</alias>
            <name>Name</name>
            <isPrimaryKey>false</isPrimaryKey>
            <dataType>Text</dataType>
        </fields>
        <fields>
            <alias>ContactId</alias>
            <name>ContactId</name>
            <isPrimaryKey>false</isPrimaryKey>
            <dataType>Text</dataType>
        </fields>
        <label>Opportunity</label>
        <name>Opportunity</name>
        <sourceName>Opportunity</sourceName>
        <type>StandardObject</type>
        <fileSource>ContentManagement</fileSource>
        <fileIdentifier>069xx0000004CAeAAM</fileIdentifier>
        <CSVDelimiter>COMMA</CSVDelimiter>
        <filePath>parentFolder/childFolder</filePath>
    </datasources>
    <description>Calculates and creates transaction journal records based on the orders
placed by the loyalty program members. The transaction journals are used to accrue points
 to the member.</description>
    <filters>
        <criteria>
            <operator>Equals</operator>
            <sequence>1</sequence>
            <sourceFieldName>LastName</sourceFieldName>
            <value>Salesforce</value>
        </criteria>
        <description>Filter Desc</description>
        <filterCondition>1</filterCondition>
        <isDynamicFilter>false</isDynamicFilter>
        <label>AccountsOfManufacturingIndustry</label>
        <name>AccountsOfManufacturingIndustry</name>
        <sourceName>AccountOpportunities</sourceName>
    </filters>
    <hierarchyPaths>
        <description>Hierarchy Path Node</description>
        <hierarchyFieldName>Hierarchy_Path</hierarchyFieldName>
        <isSelfFieldValueIncluded>true</isSelfFieldValueIncluded>
        <label>Get Hierarchy</label>
        <name>Get_Hierarchy</name>
        <parentFieldName>ContactId</parentFieldName>
        <selfFieldName>LastName</selfFieldName>
        <sourceName>AppendAllAccounts</sourceName>
    </hierarchyPaths>
    <isTemplate>false</isTemplate>
    <joins>
        <description>Left Outer Join</description>
        <fields>
            <alias>ContactId</alias>
            <sourceFieldName>Id</sourceFieldName>
```

```
            <sourceName>Contact</sourceName>
        </fields>
        <fields>
            <alias>LastName</alias>
            <sourceFieldName>LastName</sourceFieldName>
            <sourceName>Contact</sourceName>
        </fields>
        <fields>
            <alias>NameCount</alias>
            <sourceFieldName>NameCount</sourceFieldName>
            <sourceName>AggregateOpportunities</sourceName>
        </fields>
        <fields>
            <alias>OpportunityName</alias>
            <sourceFieldName>Name</sourceFieldName>
            <sourceName>AggregateOpportunities</sourceName>
        </fields>
        <joinKeys>
            <primarySourceFieldName>Id</primarySourceFieldName>
            <secondarySourceFieldName>ContactId</secondarySourceFieldName>
        </joinKeys>
        <label>AccountOpportunities</label>
        <name>AccountOpportunities</name>
        <primarySourceName>Contact</primarySourceName>
        <secondarySourceName>AggregateOpportunities</secondarySourceName>
        <type>LeftOuter</type>
    </joins>
    <label>Create Transaction Journals Based on Orders</label>
    <parameters>
        <dataType>Date</dataType>
        <defaultValue>2020-01-01</defaultValue>
        <description>Desc TextParameter</description>
        <isMultiValue>false</isMultiValue>
        <label>DateParameter</label>
        <name>DateParameter</name>
    </parameters>
    <parameters>
        <dataType>Filter</dataType>
        <defaultValue>{&quot;filterCondition&quot;: &quot;1 AND 2&quot;,
&quot;criteria&quot;: [{&quot;sourceFieldName&quot;:
&quot;NameCount&quot;,&quot;operator&quot;: &quot;GreaterThan&quot;,&quot;value&quot;:
&quot;20&quot;,&quot;sequence&quot;: &quot;1&quot;}, {&quot;sourceFieldName&quot;:
&quot;Name&quot;,&quot;operator&quot;: &quot;Equals&quot;,&quot;value&quot;:
&quot;Salesforce&quot;,&quot;sequence&quot;: &quot;2&quot;}]}</defaultValue>
        <isMultiValue>false</isMultiValue>
        <label>FilterParameter</label>
        <name>FilterParameter</name>
    </parameters>
    <parameters>
        <dataType>Numeric</dataType>
        <defaultValue>5000</defaultValue>
        <description>Desc TextParameter</description>
        <isMultiValue>false</isMultiValue>
        <label>NumericParameter</label>
```

```
        <name>NumericParameter</name>
    </parameters>
    <parameters>
        <dataType>Text</dataType>
        <defaultValue>@salesforce.com</defaultValue>
        <description>Desc TextParameter</description>
        <isMultiValue>false</isMultiValue>
        <label>TextParameter</label>
        <name>TextParameter</name>
    </parameters>
    <processType>Rebates</processType>
    <definitionRunMode>Batch</definitionRunMode>
    <status>Inactive</status>
    <transforms>
        <description>transforms Desc</description>
        <expressionFields>
            <alias>NewLastName</alias>
            <dataType>Text</dataType>
            <expression>TODAY()</expression>
            <length>80</length>
        </expressionFields>
        <label>ManufacturingIndustry</label>
        <name>ManufacturingIndustry</name>
        <sourceName>AccountsOfManufacturingIndustry</sourceName>
        <transformationType>Expression</transformationType>
    </transforms>
    <transforms>
        <droppedFields>
            <sourceFieldName>NewLastName</sourceFieldName>
        </droppedFields>
        <label>MediaIndustry</label>
        <name>MediaIndustry</name>
        <sourceName>ManufacturingIndustry</sourceName>
        <transformationType>Slice</transformationType>
    </transforms>
    <transforms>
        <description>compute relative transforms Desc</description>
        <expressionFields>
            <alias>NewLastName</alias>
            <dataType>Text</dataType>
            <expression>rank()</expression>
            <length>80</length>
        </expressionFields>
        <label>ComputeRelativeManufacturingIndustry</label>
        <name>ComputeRelativeManufacturingIndustry</name>
        <orderBy>
            <name>LastName</name>
            <orderType>Ascending</orderType>
        </orderBy>
        <partitionBy>LastName</partitionBy>
        <sourceName>MediaIndustry</sourceName>
        <transformationType>ComputeRelative</transformationType>
    </transforms>
    <customNodes>
```

```
        <name>RebatesCustomNode</name>
        <label>Rebates Custom Node</label>
        <description>customNodes Desc</description>
        <sources>Get_Hierarchy</sources>
        <extensionName>RebatesExpression</extensionName>
        <extensionNamespace>industries_mfg</extensionNamespace>
        <parameters>
            <name>inputColumn</name>
            <value>LastName</value>
        </parameters>
        <parameters>
            <name>isFilterCriteria</name>
            <value>true</value>
        </parameters>
        <parameters>
            <name>outputColumn</name>
            <value>GenName</value>
        </parameters>
    </customNodes>
    <writebacks>
        <fields>
            <sourceFieldName>GenName</sourceFieldName>
            <targetFieldName>LastName</targetFieldName>
        </fields>
        <isChangedRow>false</isChangedRow>
        <label>exportToContact</label>
        <name>exportToContact</name>
        <description>Export To Contact</description>
        <operationType>Insert</operationType>
        <sourceName>RebatesCustomNode</sourceName>
        <targetObjectName>Contact</targetObjectName>
        <writebackSequence>1</writebackSequence>
    </writebacks>
    <writebacks>
        <fields>
            <sourceFieldName>CreatedDateYM</sourceFieldName>
            <targetFieldName>CreatedDate</targetFieldName>
        </fields>
        <isChangedRow>false</isChangedRow>
        <isExistingDataset>false</isExistingDataset>
        <label>exportToContactFC</label>
        <name>exportToContactFC</name>
        <description>Export To Contact</description>
        <operationType>Insert</operationType>
        <sourceName>ContactForecast</sourceName>
        <targetObjectName>Contact</targetObjectName>
        <writebackSequence>2</writebackSequence>
    </writebacks>
</BatchCalcJobDefinition>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
   ~ Copyright 2020 Salesforce, Inc.
```

```
   ~ All Rights Reserved
   ~ Company Confidential
-->
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
   <types>
      <members>*</members>
      <name>BatchCalcJobDefinition</name>
   </types>
   <version>60.0</version>
</Package>
```

### Wildcard Support in the Manifest File

This metadata type supports the wildcard character `*` (asterisk) in the `package.xml` manifest file. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

# Data Processing Engine Invocable Actions

Run an active Data Processing Engine definition. For more information on custom invocable actions, see **REST API Developer Guide** and **Actions Developer Guide**.

Data Processing Engine Actions
Run an active Data Processing Engine definition. This action executes a Data Processing Engine definition asynchronously.

## Data Processing Engine Actions

Run an active Data Processing Engine definition. This action executes a Data Processing Engine definition asynchronously.

A Data Processing Engine definition transforms data from your Salesforce org and writes back the results to your org. For more information about running Data Processing Engine definitions, see Run a Data Processing Engine Definition in Salesforce Help.

This object is available in API version 51.0 and later.

### Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/custom/dataProcessingEngineAction`

**Formats**

JSON

**HTTP Methods**

GET, POST

**Authentication**

`Authorization: Bearer` ***`token`***

### Inputs

Use the GET method to retrieve input variables of a Data Processing Engine definition. The input variables of each Data Processing Engine definition are unique. The Data Processing Engine action uses the input variables to execute the Data Processing Engine definition and generate a batch job ID.

Note: You can't use this action to start two simultaneous runs of a definition with the same input variables.

## Outputs

| Output | Details |
| --- | --- |
| `batchJobId` | **Type**<br>string<br>**Description**<br>ID of the batch job generated after the request is successful. This ID is used to track the progress of the batch job in Monitor Workflow Services. |

## Usage

**JSON Sample Request to execute PointsAccrual DPE Definition**

```
{
   "PointsAccrual" : {
      "memberTier" : "Gold",
      "minimumPointBalanceRequired" : "50000",
      "pointType" : "non-qualifying"
   }
}
```

**JSON Sample Response**

```
{
   "actionName":"PointsAccrual",
      "errors":null,
      "isSuccess":true,
      "outputValues":{
        "batchJobId":"0lMxx0000A000001EAA"
      }
}
```

## Example

**GET**

This example shows how to retrieve input variables of a Data Processing Engine action type.

```
curl --include --request GET \
--header "Authorization: Authorization: Bearer 00DR...xyz" \
--header "Content-Type: application/json" \
"https://instance.salesforce.com/services/data/v60.0/actions/custom/dataProcessingEngineAction/newinputvardefn"
```

**POST**

Here's a request to retrieve DPE definition

```
{
  "inputs": [
```

```
    {
      "start_date": "26-09-2023",
      "end_date": "12-12-2023",
      "randomkey": "069SM0000001SgbYAE"
    }
  ]
}
```

Here's a response for this action.

```
[
  {
    "actionName": "newinputvardefn",
    "errors": null,
    "invocationID": null,
    "isSuccess": true,
    "outputValues": {
      "batchJobId": "0mdSM0000006EJdYAM",
      "accepted": true
    },
    "version": 1
  }
]
```

# Batch Management

Automate the processing of records in scheduled flows. You can process a high volume of standard and custom object records. Batch Management consists of three Tooling API objects, a standard object, a Metadata API, and an invocable action. You can use these resources to view, create, edit, and run Batch Management jobs.

EDITIONS

Available in: Lightning Experience

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

### Batch Management Tooling API Objects

You can use the Batch Management Tooling API object to view the settings of Batch Management jobs.

### Batch Management Standard Objects

Batch Management contains a standard BatchProcessJobDefinitionView object, which you can use to view all the batch jobs available in your Salesforce org, including file-based jobs.

### Batch Management Metadata API

Use a Metadata API to create, update, and activate Batch Management jobs.

### Batch Management Invocable Actions

Run an active Batch Management job definition. For more information on custom invocable actions, see **REST API Developer Guide** and **Actions Developer Guide**.

# Batch Management Tooling API Objects

You can use the Batch Management Tooling API object to view the settings of Batch Management jobs.

Tooling API objects let you interact with metadata for declarative development. For example, you can create your own version of Setup.

BatchProcessJobDefinition
Represents the details of a Batch Management job. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

## BatchProcessJobDefinition

Represents the details of a Batch Management job. This object is available in API version 51.0 and later.

Note: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

Data and processes in your org are impacted if you update or delete a BatchProcessJobDefinition record. Update or delete a Batch Management job using the Metadata API on page 798.

### Supported SOAP API Calls

`describeSObjects()`, `query()`, `retrieve()`

### Supported REST API Methods

`DELETE, GET, HEAD, PATCH, POST, Query`

### Fields

| Field | Details |
|---|---|
| `BatchJobDefinitionId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier of the associated batch job definition.<br>This is a relationship field.<br>**Relationship Name**<br>BatchJobDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJobDefinition |

| Field | Details |
| --- | --- |
| `BatchJobDefinitionName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the associated batch job definition. |
| `BatchSize` | **Type**<br>int<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>Required. The number of records that each Batch Management job part can process. The maximum number of transaction journal records that a batch management job can process for flow or loyalty program process is 2000. |
| `Description` | **Type**<br>textarea<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The description of the Batch Management job. |
| `DeveloperName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The developer name of the Batch Management job. |
| `FlowDefinitionId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The input variable of the associated flow that uniquely identifies each record that the Batch Management job processes. |
| `FullName` | **Type**<br>string<br>**Properties**<br>Create, Group, Nillable |

| Field | Details |
| --- | --- |
| | **Description**<br>The name of the Batch Management job.<br>Query this field only if the query result contains no more than one record. Otherwise, an error is returned. If more than one record exists, use multiple queries to retrieve the records. This limit protects performance. |
| `Language` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The language in which the batch job is created.<br>Possible values are:<br>• `da`—Danish<br>• `de`—German<br>• `en_US`—English<br>• `es`—Spanish<br>• `es_MX`—Spanish (Mexico)<br>• `fi`—Finnish<br>• `fr`—French<br>• `it`—Italian<br>• `ja`—Japanese<br>• `ko`—Korean<br>• `nl_NL`—Dutch<br>• `no`—Norwegian<br>• `pt_BR`—Portuguese (Brazil)<br>• `ru`—Russian<br>• `sv`—Swedish<br>• `th`—Thai<br>• `zh_CN`—Chinese (Simplified)<br>• `zh_TW`—Chinese (Traditional) |
| `ManageableState` | **Type**<br>ManageableState enumerated list<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Indicates the manageable state of the specified component that is contained in a package:<br>• `beta` |

| Field | Details |
| --- | --- |
| | • `deleted`<br>• `deprecated`<br>• `deprecatedEditable`<br>• `installed`<br>• `installedEditable`<br>• `released`<br>• `unmanaged` |
| `MasterLabel` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The label of the Batch Management job. |
| `Metadata` | **Type**<br>complexvalue<br>**Properties**<br>Create, Nillable, Update<br>**Description**<br>The Batch Management job's metadata.<br>Query this field only if the query result contains no more than one record. Otherwise, an error is returned. If more than one record exists, use multiple queries to retrieve the records. This limit protects performance. |
| `NamespacePrefix` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The namespace prefix that is associated with this object. Each Developer Edition org that creates a managed package has a unique namespace prefix. Limit: 15 characters. You can refer to a component in a managed package by using the ***namespacePrefix__componentName*** notation.<br>The namespace prefix can have one of the following values.<br>• In Developer Edition orgs, `NamespacePrefix` is set to the namespace prefix of the org for all objects that support it, unless an object is in an installed managed package. In that case, the object has the namespace prefix of the installed managed package. This field's value is the namespace prefix of the Developer Edition org of the package developer. |

| Field | Details |
| --- | --- |
| | • In orgs that are not Developer Edition orgs, `NamespacePrefix` is set only for objects that are part of an installed managed package. All other objects have no namespace prefix. |
| `ProcessGroup` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The group or team for which the Batch Management job processes records. |
| `RecordIdVariable` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier that identifies each record that must be processed by the Batch Management job. |
| `RetryCount` | **Type**<br>int<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Required. The number of times this Batch Management job must be rerun in case it fails. |
| `RetryInterval` | **Type**<br>int<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Required. The number of milliseconds after which the Batch Management job must be rerun in case it fails. A retry interval can be 1,000–10,000 milliseconds. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The status of the Batch Management job.<br>Possible values are:<br>• `Active` |

| Field | Details |
| --- | --- |
| | • `Inactive` |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The type of process for which the Batch Management job processes records.<br>Possible values are:<br>• `DecisionTableRefresh`<br>• `Flow`<br>• `LoyaltyProgramProcess`<br>The default value is `Flow`.<br>This field is available in API version 55.0 and later. |
| `TypeInstance` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>Required. The API name of the process that the Batch Management job must execute. |

# Batch Management Standard Objects

Batch Management contains a standard BatchProcessJobDefinitionView object, which you can use to view all the batch jobs available in your Salesforce org, including file-based jobs.

BatchProcessJobDefView
Represents the details of a Batch Job definition. The definition can also be file-based definitions that are available in your Salesforce org. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

## BatchProcessJobDefView

Represents the details of a Batch Job definition. The definition can also be file-based definitions that are available in your Salesforce org. This object is available in API version 51.0 and later.

### Supported Calls

`describeSObjects()`,`query()`

## Fields

| Field | Details |
|---|---|
| `DurableId` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier for the field. Always retrieve this value before using it, as the value isn't guaranteed to stay the same from one release to the next. Simplify queries by using this field instead of making multiple queries. |
| `IsActive` | **Type**<br>boolean<br>**Properties**<br>Defaulted on create, Filter, Group, Sort<br>**Description**<br>Indicates whether the definition is active. |
| `Label` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The label of the Batch Job definition. |
| `Name` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the Batch Job definition. |
| `NamespacePrefix` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The namespace prefix associated with this object. Each Developer Edition organization that creates a managed package has a unique namespace prefix. Limit: 15 characters. You can refer to a component in a managed package by using the namespacePrefix__componentName notation.<br>The namespace prefix can have one of the following values: |

| Field | Details |
| --- | --- |
| | • In Developer Edition organizations, the namespace prefix is set to the namespace prefix of the organization for all objects that support it. There is an exception if an object is in an installed managed package. In that case, the object has the namespace prefix of the installed managed package. This field's value is the namespace prefix of the Developer Edition organization of the package developer.<br>• In organizations that are not Developer Edition organizations, NamespacePrefix is only set for objects that are part of an installed managed package. There is no namespace prefix for all other objects. |
| `ProcessDefinition` | **Type**<br>textarea<br>**Properties**<br>Nillable<br>**Description**<br>The name of the process group for the batch process job definition. |
| `ProcessGroup` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The team or group for which the definition processes records. |
| `SourceObjectName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The API name of the object whose records are processed. |
| `Type` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The type of process for which the Batch Management job processes records.<br>Possible values are:<br>• `Flow`<br>• `LoyaltyProgramProcess`<br>This field is available in API version 55.0 and later. |

| Field | Details |
| --- | --- |
| `TypeInstance` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The API name of the process that's processed by the Batch Job definition. |

# Batch Management Metadata API

Use a Metadata API to create, update, and activate Batch Management jobs.

BatchProcessJobDefinition
Represents the details of a Batch Management job definition. This type extends the Metadata metadata type and inherits its `fullName` field.

EDITIONS

Available in: Lightning Experience

Available in: Batch Management is available with Enterprise, Unlimited, and Performance Editions with the Loyalty Management, Manufacturing Cloud, Rebate Management, or Accounting Subledger

## BatchProcessJobDefinition

Represents the details of a Batch Management job definition. This type extends the Metadata metadata type and inherits its `fullName` field.

Important: Where possible, we changed noninclusive terms to align with our company value of Equality. We maintained certain terms to avoid any effect on customer implementations.

### File Suffix and Directory Location

BatchProcessJobDefinition components have the suffix `.batchProcessJobDefinition` and are stored in the `batchProcessJobDefinitions` folder.

### Version

BatchProcessJobDefinition components are available in API version 51.0 and later.

### Special Access Rules

To use this metadata type, your Salesforce org must have the Loyalty Management or the Rebate Management license. The Loyalty Program Process type is only available in orgs that have Loyalty Management enabled.

### Fields

| Field Name | Field Type | Description |
| --- | --- | --- |
| `batchSize` | integer | Required. Number of records that each Batch Management job can process. Flow type Batch Management jobs can process up to 2000 |

| Field Name | Field Type | Description |
|---|---|---|
| | | records and Loyalty Program Process type Batch Management jobs can process up to 250 records. |
| `dataSource` | BatchDataSource on page 800[] | Required. Source of information whose records must be processed by the Batch Management job. |
| `description` | string | Description of the Batch Management job, up to 255 characters. |
| `executionProcessApiName` | string | API name of process that must be executed by the Batch Management job. This field is available in API version 55.0 and later.<br>• If the batch job's type is Flow, enter the API name of an active flow that the batch job must execute.<br>• If the batch job's type is Loyalty Program Process, enter:<br>– Transaction_Journals if you want the batch job to process Transaction Journal records by applying the applicable active loyalty program process of the type TransactionJournal.<br>– API name of an active loyalty process of the type TierProcessing if you want the batch job to run the loyalty program process to assess the tier of eligible members. The API name consists of the name of the process, the process type, and the name of the loyalty program separated by two consecutive underscores. For example, the process API name is `Update Member Tier__TierProcessing__Inner Circle` if the process name is Update Member Tier, the process type is TierProcessing, and the loyalty program name is Inner Circle.<br>You can use database-based APEX classes that let you use flex queues in the Batch Management job, allowing to place more than 5 jobs in a queue. This functionality is applicable to all Industry Clouds that use managed packages. See Apex Flex Queue. |
| `flowApiName` | string | API name of an active flow process that must be executed by the Batch Management job.<br>Note: You can either specify the flow API name in the `executionProcessApiName` field or in the `flowApiName` field. |
| `flowInputVariable` | string | Input variable of associated flow that is used by the batch job to uniquely identify records. |
| `masterLabel` | string | Required. Name of the Batch Management job, up to 80 characters. |
| `processGroup` | string | Required. Name of the group for which the Batch Management job processes records. |
| `retryCount` | integer | Required. Number of times this Batch Management job must be rerun in case it fails. The maximum retry count is 3. Valid values are 1–3. |

| Field Name | Field Type | Description |
|---|---|---|
| `retryInterval` | integer | Required. Number of milliseconds after which the Batch Management job must be rerun in case it fails. Valid values are 1,000–10,000. |
| `status` | string | Indicates the status of the Batch Management job. Valid values are `Active` and `Inactive`. |
| `type` | string (enumeration of type string) | The type of process that the Batch Management job must execute. This field is available in API version 55.0 and later. Valid values are:<br>• `Flow`<br>• `Loyalty Program Process` |

## BatchDataSource

Represents the source of information whose records must be processed by the Batch Management job.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| `condition` | string | Required. Criteria defined to filter the records. |
| `criteria` | string | Type of filter criteria that's used to filter records for processing. |
| `dataSourceType` | string | Type of data source that's used to create the batch job definition. Valid values are:<br>• SingleSobject<br>• MultiSobject<br>Available in API version 64.0 and later. |
| `filters` | BatchDataSrcFilterCriteria on page 801[] | Filter criterion that decides which records must be processed by the Batch Management job. |
| orderFields | BatchDataSourceOrderField on page 802 | Fields that are used to order the records before the records are added to a batch in a job. |
| `sourceObject` | string | Required. API name of an object whose records must be processed by the batch job.<br>If the batch job type is Loyalty Program Process, the source object must be:<br>• TransactionJournal if the batch job is used to process transaction journals by applying the applicable loyalty program process.<br>• An object that stores the details of loyalty program members whose tier must be assessed by the loyalty program process specified in the executionProcessApiName field. |

| Field Name | Field Type | Description |
|---|---|---|
| `sourceObjectField` | string | API name of the source object field that uniquely identifies records for which the batch job is executed. This field is available in API version 57.0 and later.<br>This field is only applicable when the batch job's type is Loyalty Program Process and a TierProcess type active loyalty program process is specified in the `executionProcessApiName` field. Specify the API name of a field that is a lookup to the LoyaltyProgramMember object and uniquely identifies the members whose tier must be assessed. |

## BatchDataSrcFilterCriteria

Represents the filter conditions that decide which records must be processed by the Batch Management job.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| domainObjectName | string | Name of the object the field is associated with. Available in API version 64.0 and later. |
| `dynamicValueType` | string | Data type of the input variable used as a filter. |
| `fieldName` | string | Required. Name of the field that must be used to filter records. |
| `fieldPath` | string | Stores the path to a field in the object. Available in API version 64.0 and later. |
| `fieldValue` | string | Required. Value of the field that must be filtered. Specify the field if `isDynamicValue` is set to `False`. |
| `isDynamicValue` | boolean | Required. Indicates whether the filter criteria is dynamic. |
| `operator` | string (enumeration of type string) | Required. Operator that is specified in the filter criteria. Valid values are:<br>• `equals`<br>• `excludes`<br>• `greaterThan`<br>• `greaterThanOrEqualTo`<br>• `in`<br>• `includes`<br>• `lessThan`<br>• `LessThanOrEqualTo`<br>• `GreaterOrEqual`<br>• `like`<br>• `notEquals`<br>• `notIn` |
| `sequenceNo` | integer | Required. Sequence number used to refer the criteria in a filter. |

## BatchDataSourceOrderField

Represents the fields that are used to group data.

## Fields

| Field Name | Field Type | Description |
|---|---|---|
| domainObjectName | string | Required. Name of the object the field is associated with. Available in API version 64.0 and later. |
| `fieldName` | string | Required. Name of the field that must be used to filter records. Available in API version 64.0 and later. |
| `fieldPath` | string | Required. Stores the path to a field in the object. Available in API version 64.0 and later. |

## Declarative Metadata Sample Definition

The following is an example of a BatchProcessJobDefinition component.

```
<?xml version="1.0" encoding="UTF-8"?>
<BatchProcessJobDefinition xmlns="http://soap.sforce.com/2006/04/metadata">
   <batchSize>10</batchSize>
   <dataSource>
      <condition>1</condition>
      <criteria>all</criteria>
      <filters>
         <dynamicValue>false</dynamicValue>
         <dynamicValueType>string</dynamicValueType>
         <fieldName>Name</fieldName>
         <fieldValue>abcd</fieldValue>
         <operator>equals</operator>
         <sequenceNo>1</sequenceNo>
      </filters>
      <sourceObject>Account</sourceObject>
   </dataSource>
   <flowApiName>Flow1</flowApiName>
   <flowInputVariable>recordId</flowInputVariable>
   <masterLabel>BatchJob1</masterLabel>
   <processGroup>Loyalty</processGroup>
   <retryCount>2</retryCount>
   <retryInterval>1000</retryInterval>
   <status>Inactive</status>
   <description>test</description>
   <type>Flow</type>
   <executionProcessApiName>testFlow</executionProcessApiName>
</BatchProcessJobDefinition>
```

The following is an example of a Flow object used in Metadata API.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--
   ~ Copyright 2020 Salesforce, Inc.
   ~ All Rights Reserved
   ~ Company Confidential
-->
<Flow xmlns="http://soap.sforce.com/2006/04/metadata">
   <apiVersion>51.0</apiVersion>
   <interviewLabel>Flow1 {!$Flow.CurrentDateTime}</interviewLabel>
   <label>Flow1</label>
   <processMetadataValues>
      <name>BuilderType</name>
      <value>
         <stringValue>LightningFlowBuilder</stringValue>
      </value>
   </processMetadataValues>
   <processMetadataValues>
      <name>OriginBuilderType</name>
      <value>
         <stringValue>LightningFlowBuilder</stringValue>
      </value>
   </processMetadataValues>
   <processType>AutoLaunchedFlow</processType>
   <recordLookups>
      <name>getAcc</name>
      <label>getAcc</label>
      <locationX>614</locationX>
      <locationY>465</locationY>
      <assignNullValuesIfNoRecordsFound>false</assignNullValuesIfNoRecordsFound>
      <filterLogic>and</filterLogic>
      <filters>
         <field>Id</field>
         <operator>EqualTo</operator>
         <value>
            <elementReference>recordId</elementReference>
         </value>
      </filters>
      <getFirstRecordOnly>true</getFirstRecordOnly>
      <object>Account</object>
      <storeOutputAutomatically>true</storeOutputAutomatically>
   </recordLookups>
   <start>
      <locationX>73</locationX>
      <locationY>213</locationY>
      <connector>
         <targetReference>getAcc</targetReference>
      </connector>
   </start>
   <status>Draft</status>
   <variables>
      <name>recordId</name>
      <dataType>String</dataType>
      <isCollection>false</isCollection>
      <isInput>true</isInput>
      <isOutput>false</isOutput>
```

```
    </variables>
</Flow>
```

The following is an example `package.xml` that references the previous definition.

```
<?xml version="1.0" encoding="UTF-8"?>
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
    <types>
        <members>*</members>
        <name>BatchProcessJobDefinition</name>
    </types>
    <types>
        <members>Flow1</members>
        <name>Flow</name>
    </types>
    <version>51.0</version>
</Package>
```

### Wildcard Support in the Manifest File

This metadata type supports the wildcard character `*` (asterisk) in the `package.xml` manifest file. For information about using the manifest file, see Deploying and Retrieving Metadata with the Zip File.

## Batch Management Invocable Actions

Run an active Batch Management job definition. For more information on custom invocable actions, see **REST API Developer Guide** and **Actions Developer Guide**.

Batch Job Actions

Run an active Batch Management job definition. This action executes a defined Batch Management job asynchronously.

Submit Failed Records Batch Job

Run to resubmit an existing batch job with failed records for processing. This action executes the batch job asynchronously.

## Batch Job Actions

Run an active Batch Management job definition. This action executes a defined Batch Management job asynchronously.

A Batch Management job processes a flow in manageable parts. For more information about running an active Batch Management jobs, see Schedule a Batch Job in Salesforce Help.

This object is available in API version 51.0 and later.

### Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/custom/batchJobAction`

**Formats**

JSON

**HTTP Methods**
GET, POST

**Authentication**
`Authorization: Bearer token`

### Inputs

The batch job action uses the batch job definition ID and input variables to execute the job and generate a batch job ID. The input values vary according to the input variables in that flow.

### Outputs

| Output | Details |
| --- | --- |
| `batchJobId` | **Type**<br>string<br>**Description**<br>ID of the batch job generated after the request is successful. This batch job ID is used to track the progress of the batch job in Monitor Workflow Services. |

### Usage

A request body is always required. The input values vary according to the input variables in that flow. If your batch job doesn't require any input variables, you still must send an empty JSON body.

```
{
  "inputs": [{}]
}
```

**JSON Sample Request**

```
{
   "noOfEmployees" : 900,
   "accountIndustry" : "Technology"
}
```

**JSON Sample Response**

```
{
   "batchJobId": "0lMxx0000A000001EAA"
   "accepted": "true"
}
```

## Submit Failed Records Batch Job

Run to resubmit an existing batch job with failed records for processing. This action executes the batch job asynchronously.

This object is available in API version 52.0 and later.

## Supported REST HTTP Methods

**URI**

`/services/data/v`***`XX.X`***`/actions/standard/submitFailedRecordsBatchJob`

**Formats**

JSON

**HTTP Methods**

GET, POST

**Authentication**

`Authorization: Bearer` ***`token`***

## Inputs

| Input | Details |
| --- | --- |
| `failedRecordIds` | **Type**<br>array<br>**Description**<br>The IDs of failed records in a batch job. |
| `parentBatchJobId` | **Type**<br>string<br>**Description**<br>Required. The ID of a batch job with failed records. |

## Outputs

| Output | Details |
| --- | --- |
| `batchJobId` | **Type**<br>string<br>**Description**<br>The ID of a batch job generated after the request is successful. This batch job ID is used to track the progress of the batch job in Monitor Workflow Services in the org. |
| `status` | **Type**<br>string<br>**Description**<br>Indicates whether a batch job succeeded or failed. |

### Usage

**JSON Sample Request**

```
{
   "inputs": [{
      "parentBatchJobId": "0mdRM0000004DXrYAM",
      "failedRecordIds": [
         "001RM000005AG0bYAG", "001RM000005AERZYA4", "001RM000005AG0WYAW"
      ]
   }]
}
```

**JSON Sample Response**

```
[ {
   "actionName" : "submitFailedRecordsBatchJob",
   "errors" : null,
   "isSuccess" : true,
   "outputValues" : {
      "batchJobId" : "0mdRM0000004DZ9YAM"
   }
} ]
```

# Monitor Workflow Services

The Montior Workflow Services standard objects can be used to track the run of Data Processing Engine definitons and Batch Management jobs. During a run, you can view details about each part that the run is broken down into. After the run is complete, you can view its status and the records which weren't processed during the run.

The objects of Monitor Workflow Services aren't available in Object Manager of your Salesforce org.

BatchJob
Represents an instance of a batch job that is either running and has been run. This object is available in API version 51.0 and later.

BatchJobPart
Represents one part of a batch job. This object is available in API version 51.0 and later.

BatchJobPartFailedRecord
Represents records that a batch job part couldn't successfully process. This object is available in API version 51.0 and later.

EDITIONS

Available in: Lightning Experience

Available in: Monitor Workflow Services is available with Enterprise, Unlimited, and Performance Editions where Data Processing Engine or Batch Management is avaiable

# BatchJob

Represents an instance of a batch job that is either running and has been run. This object is available in API version 51.0 and later.

## Supported Calls

`delete()`, `describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`, `search()`, `undelete()`

## Fields

| Field | Details |
| --- | --- |
| `BatchJobDefinitionId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The unique identifier of the associated batch job definition.<br>This is a relationship field.<br>**Relationship Name**<br>BatchJobDefinition<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJobDefinition |
| `BatchJobDefinitionName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The developer name of the associated batch job definition. |
| `EndTime` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The timestamp when the batch job run was completed. |
| `ErrorDescription` | **Type**<br>string<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The error message in case the batch job run failed. |
| `ExternalReference` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort |

| Field | Details |
| --- | --- |
| | **Description**<br>The unique identifier of the process that's running or has run the batch job. |
| `IsDebugOn` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The default value is `false`. |
| `IsDebugRecipeDeleted` | **Type**<br>boolean<br>**Properties**<br>Create, Defaulted on create, Filter, Group, Sort, Update<br>**Description**<br>The default value is `false`. |
| `LastReferencedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The timestamp for when the current user last viewed the batch job. |
| `LastViewedDate` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The timestamp for when the current user last viewed this item. |
| `Name` | **Type**<br>string<br>**Properties**<br>Filter, Group, idLookup, Sort<br>**Description**<br>The name of the batch job. |
| `OwnerId` | **Type**<br>reference |

| Field | Details |
| --- | --- |
| | **Properties**<br>Filter, Group, Sort<br>**Description**<br>Unique identifier of the user who initiated the batch job run.<br>This is a polymorphic relationship field.<br>**Relationship Name**<br>Owner<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>Group, User |
| `ProcessGroup` | **Type**<br>string<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The group or team for which the batch job is run. |
| `RetryCount` | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The number of times the batch job run is automatically rerun in case it fails. |
| `RuntimeParameter` | **Type**<br>textarea<br>**Properties**<br>Nillable<br>**Description**<br>The values of the input variables that are used as filter criteria in a Batch Management job. |
| `StartTime` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The timestamp when the batch job run was started. |

| Field | Details |
| --- | --- |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Restricted picklist, Sort<br>**Description**<br>The status of the batch job run.<br>Possible values are:<br>• `Canceled`<br>• `Completed`<br>• `CompletedWithFailures`<br>• `Failed`<br>• `InProgress`<br>• `Submitted` |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>The type of batch job that is run.<br>Possible values are:<br>• `Calc`—Data Processing Engine<br>• `DecisionTableRefresh`<br>• `Flow` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**BatchJobFeed**
Feed tracking is available for the object.

**BatchJobHistory**
History is available for tracked fields of the object.

# BatchJobPart

Represents one part of a batch job. This object is available in API version 51.0 and later.

When a batch job is run, it is divided in to multiple parts. Each part is used to process a specific number of records.

## Supported Calls

`describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`

## Fields

| Field | Details |
|---|---|
| `BatchJobId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The unique identifier of the associated batch job.<br>This is a relationship field.<br>**Relationship Name**<br>BatchJob<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJob |
| `EndTime` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The timestamp when the batch job part was processed. |
| `ErrorDescription` | **Type**<br>string<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The error message in case the batch job part failed. |
| `FailedRecordCount` | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The number of records that the batch job part couldn't process. |

| Field | Details |
| --- | --- |
| `FailedRecFile` | **Type**<br>FILE<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The file containing failed records downloaded as CSV, JSON, or TXT formats during a Data Processing Engine definition's run by using CRM Analytics (CRMA) or Data Cloud runtime. Available in API version 63.0 and later. |
| `InputRecordCount` | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The number of records that the batch job part must process. |
| `Name` | **Type**<br>string<br>**Properties**<br>Filter, Group, idLookup, Sort<br>**Description**<br>The name of the batch job part. |
| `OutputRecordCount` | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The number of records the batch job part has processed. |
| `ParentBatchJobPartId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier of the part batch job part associated with the batch job part.<br>This is a relationship field.<br>**Relationship Name**<br>ParentBatchJobPart<br>**Relationship Type**<br>Lookup |

| Field | Details |
| --- | --- |
| | **Refers To**<br>BatchJobPart |
| `RetryCount` | **Type**<br>int<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The number of times the batch job part is automatically rerun in case it fails. |
| `StartTime` | **Type**<br>dateTime<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The timestamp when the batch job part's run was started. |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Restricted picklist, Sort<br>**Description**<br>The status of the batch job part.<br>Possible values are:<br>• `Canceled`—Canceled<br>• `Completed`<br>• `Failed`<br>• `InProgress`—In Progress |
| `Type` | **Type**<br>picklist<br>**Properties**<br>Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>The type of node in case the associated batch job is of the type Calc (Data Processing Engine).<br>Possible values are:<br>• `Aggregate`<br>• `Append`<br>• `Compute`<br>• `Custom` |

| Field | Details |
| --- | --- |
| | • `Datasync`<br>• `Filter`<br>• `Forecast`<br>• `Hierarchy`<br>• `Join`<br>• `Slice`<br>• `Source`<br>• `Transform`<br>• `Writeback` |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**BatchJobPartFeed**
Feed tracking is available for the object.

**BatchJobPartHistory**
History is available for tracked fields of the object.

# BatchJobPartFailedRecord

Represents records that a batch job part couldn't successfully process. This object is available in API version 51.0 and later.

## Supported Calls

`describeLayout()`, `describeSObjects()`, `getDeleted()`, `getUpdated()`, `query()`, `retrieve()`

## Fields

| Field | Details |
| --- | --- |
| `BatchJobId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier of the associated batch job.<br>This is a relationship field.<br>**Relationship Name**<br>BatchJob |

| Field | Details |
| --- | --- |
| | **Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJob |
| `BatchJobPartId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Sort<br>**Description**<br>The unique identifier of the associated batch job part.<br>This is a relationship field.<br>**Relationship Name**<br>BatchJobPart<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJobPart |
| `ErrorDescription` | **Type**<br>string<br>**Properties**<br>Filter, Nillable, Sort<br>**Description**<br>The error message that indicates why the batch job part couldn't process the records. |
| `Name` | **Type**<br>string<br>**Properties**<br>Filter, Group, idLookup, Sort<br>**Description**<br>The name of the batch job part failed record. |
| `Record` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The unique identifier of the batch record that processed the failed records. |

| Field | Details |
| --- | --- |
| `RecordName` | **Type**<br>string<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The name of the record that's associated with the batch job part failed record. |
| `ResubmittedBatchJobId` | **Type**<br>reference<br>**Properties**<br>Filter, Group, Nillable, Sort<br>**Description**<br>The batch job used to submit failed records. This field is available in API version 52.0 and later.<br>This is a relationship field.<br>**Relationship Name**<br>ResubmittedBatchJob<br>**Relationship Type**<br>Lookup<br>**Refers To**<br>BatchJob |
| `Status` | **Type**<br>picklist<br>**Properties**<br>Defaulted on create, Filter, Group, Nillable, Restricted picklist, Sort<br>**Description**<br>Specifies the status of the failed records. This field is available in API version 52.0 and later.<br>Possible values are:<br>• `Failed`<br>• `Resubmitted`<br>The default value is 'Failed'. |

## Associated Objects

This object has the following associated objects. If the API version isn't specified, they're available in the same API versions as this object. Otherwise, they're available in the specified API version and later.

**BatchJobPartFailedRecordFeed**
Feed tracking is available for the object.

**BatchJobPartFailedRecordHistory**

History is available for tracked fields of the object.