CHAPTER 5 Reference

The following table lists supported REST resources in the API and provides a brief description for each. In each case, the URI for the resource follows the base URI, https://MyDomainName.my.salesforce.com.

For example, to retrieve basic information about an Account object in version 55.0 use

https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Account.

Some of these resources are only available if you have the corresponding package installed or have the corresponding feature enabled.



Note: Some parts of request URIs are case-sensitive, such as IDs. Other parts of URIs aren't case-sensitive, such as object and field names. If your requests aren't successful, check that your URI has the right letter cases by comparing the URI to the reference and examples in this guide.

Resource Name	URI and Description
Versions	/services/data
	Lists summary information about each Salesforce version currently available, including the version, label, and a link to each version's root.
Resources by Version	/services/data/v XX.X
	Lists available resources for the specified API version, including resource name and URI.
Invocable Actions	/services/data/v XX.X /actions/standard
	/services/data/v XX.X /actions/custom
	Use actions to add more functionality to your applications. Choose from standard actions, such as posting to Chatter or sending email, or create actions based on your company's needs.
Analytics	/services/data/v XX.X /analytics
(Accesses Reports and Dashboards REST API)	Accesses Reports and Dashboards REST API resources. See the Salesforce Reports and Dashboards REST API Developer Guide.
AppMenu	/services/data/v XX.X /appMenu/AppSwitcher
	/services/data/v XX.X /appMenu/Salesforce1
	Returns a list of items in either the Salesforce app drop-down menu or the Salesforce for Android, iOS, and mobile web navigation menu.
Asset Management	/services/data/v XX.X /asset-management
	Makes make lifecycle-managed asset data available for sales and account reps to view in Lightning Experience. See Customer Asset Lifecycle Management in the Connect REST API Developer Guide.
Async Queries	/services/data/v XX.X /async-queries
	Submits a SOQL guery to be processed asynchronously. See

Resource Name	URI and Description
	Async Query in the Connect REST API Developer Guide.
	• Use Async SOQL with Real-Time Event Monitoring in the Salesforce Security Guide.
	• Async SOQL Use Cases in the Big Objects Implementation Guide.
Chatter	/services/data/v XX.X /chatter
(Connect REST API)	Accesses features in the Connect REST API. See the Connect REST API Developer Guide.
Commerce	/services/data/v XX.X /commerce
(Place Order REST API)	Accesses features in the Place Order REST API. See the Place Order REST API Developer Guide.
Compact Layouts	/services/data/v XX.X /compactLayouts?q= objectList
	Returns a list of compact layouts for multiple objects.
Composite	/services/data/v XX.X /composite
	Executes a series of REST API requests in a single POST request, or retrieves a list of other composite resources with a GET request.
Composite Batch	/services/data/v XX.X /composite/batch
	Executes up to 25 subrequests in a single request.
Composite Graphs	/services/data/v XX.X /composite/graph
	Provides an enhanced way to perform composite requests.
sObject Tree	/services/data/v XX.X /composite/tree
	Creates one or more sObject trees with root records of the specified type. An sObject tree is a collection of nested, parent-child records with a single root record.
sObject Collections	/services/data/v XX.X /composite/sobjects
	Executes actions on multiple records in one request.
Connect REST API	/services/data/v XX.X /connect
	Accesses features in the Connect REST API. See the Connect REST API Developer Guide.
Financial Services	/services/data/v XX.X /connect/financialservices
	Accesses Financial Services objects. See the Financial Services Cloud Developer Guide.
Health Cloud	/services/data/v XX.X /connect/health/care-services
	Accesses Health Cloud objects. See the Health Cloud Developer Guide.
Manufacturing	/services/data/v XX.X /connect/manufacturing
	Accesses Manufacturing Cloud objects. See the Manufacturing Cloud Developer Guide.

Resource Name	URI and Description
Consumer Goods	/services/data/v XX.X /connect/object-detection
	/services/data/v XX.X /connect/visit/recommendations
	Accesses the Consumer Goods Business API. See the Consumer Goods Cloud Developer Guide.
Consent	/services/data/v XX.X /consent
	Tracks users' consent preferences.
Contact Tracing	/services/data/v XX.X /contact-tracing
	Tracks health contacts. See the Emergency Response Management for Public Health Developer Guide.
Dedupe	/services/data/v XX.X /dedupe
	Lists duplicate resources, job definitions, and jobs. See the Connect REST API Developer Guide.
Domino	/services/data/v XX.X /domino
	For internal use only.
Eclair	/services/data/v XX.X /eclair
(geodata)	Accesses geodata definitions. See Charts Geodata Resource in the <i>Analytics REST API Developer Guide</i> .
Email Connect	/services/data/v XX.X /emailConnect
	For internal use only.
Platform Event Schema by	/services/data/v XX.X /event/eventSchema/ schemaId
Schema ID	Gets the definition of a platform event in JSON format for a schema ID.
Folders	/services/data/v XX.X /folders
	Use the Analytics Folders API to perform operations on report and dashboard folders. See Folders in the <i>Reports and Dashboards REST API Developer Guide</i> .
loT	/services/data/v XX.X /iot
	Accesses features in the IoT REST API. See the IoT REST API Getting Started Guide.
Jobs	/services/data/v XX.X /jobs
(Bulk API 2.0)	Accesses jobs in the Bulk API 2.0. See the Bulk API 2.0 and Bulk API Developer Guide.
jsonxform	/services/data/v XX.X /jsonxform
(Analytics REST API)	Tests the results of a rule in a Tableau template. See Rules Testing with jsonxform/transformation endpoint the <i>Analytics Templates Developer Guide</i> .

Resource Name	URI and Description
Knowledge Management	/services/data/v xx.x /knowledgeManagement
	Accesses Salesforce Knowledge features. See the Knowledge Developer Guide.
Licensing	/services/data/v XX.X /licensing
	For internal use only.
Limits	/services/data/v XX.X /limits
	Lists information about limits in your org. For each limit, this resource returns the maximum allocation and the remaining allocation based on usage.
Record Count	/services/data/v XX.X /limits/recordCount
	Lists information about object record counts in your organization.
Salesforce Surveys Translation	/services/data/v XX.X /localizedvalue
Resources	Use REST APIs to translate survey fields, view, update, or delete translated survey fields. The translated values of surveys fields are stored in Flow fields.
Metadata	/services/data/v XX.X /metadata
	Accesses features in the Metadata API. See the Metadata API Developer Guide.
Parameterized Search	/services/data/v XX.X /parameterizedSearch/?q= searchString
	Executes a simple RESTful search using parameters instead of a SOSL clause. Indicate parameters in a URL in the GET method. Or, use POST for more complex JSON searches.
Payments	/services/data/v XX.X /payments
	For internal use only.
Process Approvals	/services/data/v XX.X /process/approvals
	Returns a list of all approval processes. Can also be used to submit a particular record if that entity supports an approval process and one has already been defined. Records can be approved and rejected if the current user is an assigned approver.
Process Rules	/services/data/v XX.X /process/rules
	Returns a list of all active workflow rules. If a rule has actions, the actions will be listed under the rule. Can also be used to trigger all workflow rules that are associated with a specified record. The actions for a rule are only fired if the rule's criteria is met.
Query	/services/data/v XX.X /query/?q= soq1
(SOQL)	Executes the specified SOQL query.
QueryAll	/services/data/v XX.X /queryAll/?q= soq1
(SOQL)	Executes the specified SOQL query. Results can include deleted, merged and archived records.

Resource Name	URI and Description
Quick Actions	/services/data/v XX.X /quickActions
	Returns a list of global quick actions and their types, as well as custom fields and objects that appear in the Chatter feed.
Recently Viewed Items	/services/data/v XX.X /recent
	Gets the most recently accessed items that were viewed or referenced by the current user.
Salesforce Scheduler Resources	/services/data/v XX.X /scheduling/
	Accesses Scheduler REST APIs to get appointment time slots or available service resources based on work type groups and service territories.
Search	/services/data/v XX.X /search/?q= sos1
(SOSL)	Executes the specified SOSL search. The search string must be URL-encoded.
Search Scope and Order	/services/data/v XX.X /search/scopeOrder
	Returns an ordered list of objects in the default global search scope of a logged-in user. Global search keeps track of which objects the user interacts with and how often and arranges the search results accordingly. Objects used most frequently appear at the top of the list.
Search Suggested Queries	/services/data/v XX.X /search/suggestSearchQueries?q= searchString &language= languageOfQuery
	Returns a list of suggested searches based on the user's query string text matching searches that other users have performed in Salesforce Knowledge. Provides a way to improve search effectiveness, before the user performs a search.
Search Suggested Article Title Matches	/services/data/v XX.X /search/suggestTitleMatches?q= searchString &language= articleLanguage &publishStatus= articlePublicationStatus
	Returns a list of Salesforce Knowledge article titles that match the user's search query string. Provides a shortcut to navigate directly to likely relevant articles before the user performs a search.
Search Result Layouts	/services/data/v XX.X /searchlayout/?q= commaDelimitedObjectList
	Returns search result layout information for the objects in the query string. For each object, this call returns the list of fields displayed on the search results page as columns, the number of rows displayed on the first page, and the label used on the search results page.
Service Templates	/services/data/v XX.X /serviceTemplates
	For internal use only.
Smart Data Discovery	/services/data/v XX.X /smartdatadiscovery
(Insights API)	Uses the Insights API to embed insights into a website, application, or dashboard. See Get Descriptive and Diagnostic Insights Programmatically.
Describe Global	/services/data/v XX.X /sobjects

Resource Name	URI and Description
	Lists the available objects and their metadata for your organization's data.
Platform Event Schema by Event	/services/data/v XX.X /sobjects/ eventName /eventSchema
Name	Gets the definition of a platform event in JSON format for an event name.
Lightning Exit by Page Metrics	/services/data/v XX.X /sobjects/LightningExitByPageMetrics
	Returns frequency metrics about the standard pages within which users switched from Lightning Experience to Salesforce Classic.
Lightning Toggle Metrics	/services/data/v XX.X /sobjects/LightningToggleMetrics
	Returns details about users who switched between Salesforce Classic and Lightning Experience.
Lightning Usage by App Type	/services/data/v XX.X /sobjects/LightningUsageByAppTypeMetrics
	Returns the total number of Lightning Experience and Salesforce Mobile users.
Lightning Usage by Browser	/services/data/v XX.X /sobjects/LightningUsageByBrowserMetrics
	Returns Lightning Experience usage results grouped by browser instance.
Lightning Usage by FlexiPage	/services/data/v XX.X /sobjects/LightningUsageByFlexiPageMetrics
	Returns details about the custom pages viewed most frequently in Lightning Experience.
Lightning Usage by Page	/services/data/v XX.X /sobjects/LightningUsageByPageMetrics
	Represents standard pages users viewed most frequently in Lightning Experience.
sObject PlatformAction	/services/data/v XX.X /sobjects/PlatformAction
	Queries for actions displayed in the UI, given a user, a context, device format, and a record ID. Examples include standard and custom buttons, quick actions, and productivity actions.
sObject Relevant Items	/services/data/v XX.X /sobjects/relevantItems
	Gets the current user's most relevant items. Relevant items include records for objects in the user's global search scope and also most recently used (MRU) objects.
sObject Basic Information	/services/data/v XX.X /sobjects/ sObject
	Retrieves basic metadata for a specified object, or creates a new record for the specified object.
sObject Get Deleted	/services/data/v XX.X /sobjects/ sObject /deleted/ ?start= startDateAndTime &end= endDateAndTime
	Retrieves the list of individual records that have been deleted within the given timespan for the specified object.
sObject Describe	/services/data/v XX.X /sobjects/ sObject /describe
	Completely describes the individual metadata at all levels for the specified object.
sObject ApprovalLayouts	/services/data/v XX.X /sobjects/ sObject /describe/approvalLayouts

Resource Name	URI and Description
	Returns a list of approval layouts for a specified object.
sObject CompactLayouts	/services/data/v XX.X /sobjects/ sObject /describe/compactLayouts
	Returns a list of compact layouts for a specific object.
sObject Describe Layouts	/services/data/v XX.X /sobjects/ sObject /describe/layouts
	/services/data/v XX.X /sobjects/Global/describe/layouts
	Returns a list of global publisher layouts and descriptions. You can request descriptions for a specific object or for all publisher layouts. Layout names and a list of fields are returned. Global publisher layouts customize the actions on global pages (like the Home page). In Lightning Experience, these layouts populate the Global Actions menu.
sObject Named Layouts	/services/data/v XX.X /sobjects/ sObject /describe/namedLayouts/ layoutName
	Retrieves information about alternate named layouts for a given object.
sObject Rows by External ID	/services/data/v XX.X /sobjects/ sObject/fieldName/fieldValue
	Creates new records or updates existing records (upserts records) based on the value of a specified external ID field.
List Views	/services/data/v XX.X /sobjects/ sObject /listviews
	/services/data/v XX.X /sobjects/ sObject /listviews/ listViewId
	Returns the list of list views for the specified sObject, including the ID and other basic information about each list view. You can also get basic information for a specific list view by ID.
List View Results	/services/data/vXX.X/sobjects/ <i>sObject</i> /listviews/ <i>listViewID</i> /results
	Executes the SOQL query for the list view and returns the resulting data and presentation information.
List View Describe	/services/data/v XX.X /sobjects/ sObject /listviews/ queryLocator /describe
	Returns detailed information about a list view, including the ID, the columns, and the SOQL query.
Recent List Views	/services/data/v XX.X /sobjects/ sObject /listviews/recent
	Returns the list of recently used list views for the given object.
sObject Quick Actions	/services/data/v XX.X /sobjects/ sObject /quickActions/
	Returns a list of actions and their details.
sObject Get Updated	/services/data/v XX.X /sobjects/ sObject /updated/ ?start= startDateAndTime &end= endDateAndTime
	Retrieves the list of individual records that have been updated (added or changed) within the given timespan for the specified object.
sObject Rows	/services/data/v XX.X /sobjects/ sObject /id

Resource Name	URI and Description
	Accesses records based on a specified object and record ID. Retrieves, updates, or deletes records based on the HTTP method. Use the GET method to retrieve records or specific field values, the DELETE method to delete records, or the PATCH method to update records.
sObject Blob Retrieve	/services/data/v XX.X /sobjects/ sObject/id/blobField
	Retrieves the specified blob field from an individual record and returns it as binary data.
sObject Relationships	/services/data/v XX.X /sobjects/ sObject/id/relationshipName
	Accesses records by traversing object relationships via friendly URLs. You can retrieve, update, or delete the record associated with the traversed relationship field. If there are multiple related records, you can retrieve the complete set of associated records.
sObject Rich Text Image Retrieve	/services/data/v XX.X /sobjects/ sObject/id / richTextImageFields/ fieldName / contentReferenceId
	Retrieves the specified image data from a specific rich text area field in a given record.
sObject Suggested Articles	/services/data/v XX.X /sobjects/ sObject / ID /suggestedArticles ?language= articleLanguage
	/services/data/v XX.X /sobjects/ sObject /suggestedArticles ?language=articleLanguage&subject=subject&description=description
	Returns a list of suggested Salesforce Knowledge articles for a case, work order, or work order line item.
Delete Lightning Experience Event Series	/services/data/v XX.X /sobjects/Event/ id /fromThisEventOnwards
Event series	Removes one or more IsRecurrence2 events in a series.
Streaming Channel Push	/services/data/vXX.X/sobjects/StreamingChannel/ <i>channelId</i> /push
(Steaming API)	Gets subscriber information, and pushes notifications for streaming channels. See the Streaming API Developer Guide.
sObject User Password	/services/data/v XX.X /sobjects/User/ userId /password
	/services/data/v XX.X /sobjects/SelfServiceUser/ selfServiceUserId/password
	Sets, resets, or gets information about a user password.
Data Category Groups	/services/data/v XX.X /support/dataCategoryGroups
	Gets data category groups that are visible to the current user.
Data Category Detail	/services/data/v XX.X /support/dataCategoryGroups/ group /dataCategories/ category
	Gets data category details and the child categories by a given category.

Reference Versions

Resource Name	URI and Description
Embedded Service Configuration Describe	/services/data/v XX.X /support/embeddedservice/configuration/
	Returns information corresponding to one or more service report templates in field service.
Field Service Flow	/services/data/v XX.X /support/fieldservice/Flow ?developerNames= flowName
	Returns information corresponding to a field service flow. See Field Service Flow in the <i>Field Service Developer Guide</i> .
Field Service Report Template	/services/data/v XX.X /support/fieldservice/ServiceReportTemplate
	Returns information corresponding to one or more service report templates in field service. See Service Report Template in the <i>Field Service Developer Guide</i> .
Articles Details	/services/data/v XX.X /support/knowledgeArticles/ articleId
	/services/data/v XX.X /support/knowledgeArticles/ articleUrlName
	Gets all online article fields, accessible to the user.
Tabs	/services/data/v XX.X /tabs
	Returns a list of all tabs—including Lightning page tabs—available to the current user, regardless of whether the user has chosen to hide tabs via the All Tabs (+) tab customization feature.
Themes	/services/data/v XX.X /theme
	Gets the list of icons and colors used by themes in the Salesforce application.
Tooling API	/services/data/v XX.X /tooling
	Accesses features in the Tooling API. See the Tooling API Developer Guide.
UI API	/services/data/v xx.x /ui-api
	Accesses features in the UI API. See the User Interface API Developer Guide.
Wave	/services/data/v XX.X /wave
(Analytics REST API)	Accesses features in the Analytics REST API. See the Analytics REST API Developer Guide.

Versions

Lists summary information about each Salesforce version currently available, including the version, label, and a link to each version's root.

URI

/services/data/

Reference Resources by Version

Formats

JSON, XML

HTTP Method

GET

Authentication

none

Parameters

none

Example

See List Available REST API Versions on page 23.

Resources by Version

Lists available resources for the specified API version, including resource name and URI.

URI

/services/data/v**XX.X**/

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

none

Example

See List Available REST Resources. on page 29

Limits

Lists information about limits in your org. For each limit, this resource returns the maximum allocation and the remaining allocation based on usage. This resource is available in REST API version 29.0 and later for API users with the View Setup and Configuration permission. The resource returns these limits:

Limit Label	Description
Analytics	
AnalyticsExternalDataSizeMB	Maximum amount of external data in bytes that can be uploaded daily via REST API
ConcurrentAsyncGetReportInstances	Concurrent REST API requests for results of asynchronous report runs
ConcurrentSyncReportRuns	Concurrent synchronous report runs via REST API
HourlyAsyncReportRuns	Hourly asynchronous report runs via REST API

Reference Limits

Limit Label	Description
HourlySyncReportRuns	Hourly synchronous report runs via REST API
HourlyDashboardRefreshes	Hourly dashboard refreshes via REST API
HourlyDashboardResults	Hourly REST API requests for dashboard results
HourlyDashboardStatuses	Hourly dashboard status requests via REST API
Email	
MassEmail	Daily number of mass emails that are sent to external email addresses via Apex or APIs
SingleEmail	Daily number of single emails that are sent to external email addresses
	Note: For orgs created before Spring '19, the daily limit is enforced only for emails sent via Apex and Salesforce APIs except for the REST API. For orgs created in Spring '19 and later, the daily limit is also enforced for email alerts, simple email actions, Send Email actions in flows, and REST API. If one of the newly counted emails can't be sent because your org has reached the limit, we notify you by email and add an entry to the debug logs.
Lightning Platform REST and Bulk APIs	
DailyApiRequests	Daily API calls
DailyBulkApiBatches (API version 49.0 and later) or DailyBulkApiRequests (API version 48.0 and earlier)	Daily Bulk API and Bulk API 2.0 batches. In Bulk API, batches are used by both ingest and query operations. In Bulk API 2.0, batches are used only by ingest operations.
DailyBulkV2QueryFileStorageMB	Daily storage for queries in Bulk API 2.0 (measured in MB). This limit is available in API version 47.0 and later.
DailyBulkV2QueryJobs	Daily number of query jobs in Bulk API 2.0. This limit is available in API version 47.0 and later.
Platform Events	
The following values apply only to platform events. The	ey don't apply to Change Data Capture events.
HourlyPublishedPlatformEvents	High-volume platform event notifications published per hour
HourlyPublishedStandardVolumePlatform	Standard-volume platform event notifications published per hour
Events	(You can no longer define standard-volume events. New platform events are high volume by default.)
DailyStandardVolumePlatformEvents	Daily standard-volume platform event notifications delivered to CometD clients
	(You can no longer define standard-volume events. New platform events are high volume by default.)

Reference Limits

Org With Add-On License: Monthly Usage-Based Entitlement If your org has the high-volume platform event or Change Data Capture add-on, use MonthlyPlatformEventsUsageEntitlement. This value is the monthly entitlement and usage of event delivery to CometD clients and is incremented for each client. This value doesn't apply to non-CometD subscribers, such as Apex triggers, flows, and processes. This value includes usage for both high-volume platform events and Change Data Capture events. Usage tracking frequency: MonthlyPlatformEventsUsageEntitlement is updated once a day. The entitlement is reset every month after your contract start date. Entitlement usage is computed only for production orgs. It is not available in sandbox or
If your org has the high-volume platform event or Change Data Capture add-on, use MonthlyPlatformEventsUsageEntitlement. This value is the monthly entitlement and usage of event delivery to CometD clients and is incremented for each client. This value doesn't apply to non-CometD subscribers, such as Apex triggers, flows, and processes. This value includes usage for both high-volume platform events and Change Data Capture events. Usage tracking frequency: MonthlyPlatformEventsUsageEntitlement is updated once a day. The entitlement is reset every month after your contract start date. Entitlement usage is computed only for production orgs. It is not available in sandbox or
add-on, use MonthlyPlatformEventsUsageEntitlement. This value is the monthly entitlement and usage of event delivery to CometD clients and is incremented for each client. This value doesn't apply to non-CometD subscribers, such as Apex triggers, flows, and processes. This value includes usage for both high-volume platform events and Change Data Capture events. Usage tracking frequency: MonthlyPlatformEventsUsageEntitlement is updated once a day. The entitlement is reset every month after your contract start date. Entitlement usage is computed only for production orgs. It is not available in sandbox or
MonthlyPlatformEventsUsageEntitlement is updated once a day. The entitlement is reset every month after your contract start date. Entitlement usage is computed only for production orgs. It is not available in sandbox or
usage is computed only for production orgs. It is not available in sandbox or
trial orgs. For more information, see Usage-based Entitlement Fields.
With an add-on license, you can exceed the maximum entitlement by a certain amount. As a result, the remaining value returned can be negative if you exceeded the maximum value.
Use MonthlyPlatformEventsUsageEntitlement with API version 48.0 or later to get an accurate event delivery usage based on the first day of your contract. In API version 47.0 and earlier, the MonthlyPlatformEvents value returns the usage based on the first of the month instead of the contract start date.
Org Without Add-On License: Daily Default Allocation
If your org doesn't have the high-volume platform event or Change Data Capture add-on, use MonthlyPlatformEvents. This value contains the default allocation and usage for event delivery to CometD clients and is incremented for each client. This value doesn't apply to non-CometD subscribers, such as Apex triggers, flows, and processes. To get the limit that is enforced daily, divide the monthly value returned by 30. MonthlyPlatformEvents includes usage for both high-volume platform events and Change Data Capture events.
Usage tracking frequency: MonthlyPlatformEvents is updated within a few minutes after event delivery.
Maximum amount of data in bytes that can be transferred per hour via outbound private connections.
Hourly new long-term external record ID mappings

Reference Limits

Limit Label	Description
HourlyODataCallout	Hourly OData callouts
HourlyShortTermIdMapping	Hourly new short-term external record ID mappings
Salesforce Developer Experience	
ActiveScratchOrgs	Daily and active scratch org counts
Package2VersionCreates	Daily number of package versions that you can create. Applies to unlocked and second-generation managed packages.
Package2VersionCreatesWithoutValidation	Daily number of package versions that skip validation that you can create. Applies to unlocked and second-generation managed packages.
Salesforce Functions	
DailyFunctionsApiCallLimit (API version 53.0 and later)	Daily API calls in an org with Functions. Values are visible only if Salesforce Functions is enabled. For more information, see Functions Limits.
Storage	
DataStorageMB	Data storage (MB)
	(The API user must have the Manage Users permission)
FileStorageMB	File storage (MB)
	(The API user must have the Manage Users permission)
Streaming API—Durable (API version 37.0 and lat	er)
DailyDurableGenericStreamingApiEvents	Generic events notifications delivered in the past 24 hours to all CometD clients
DailyDurableStreamingApiEvents	PushTopic event notifications delivered in the past 24 hours to all CometD clients
DurableStreamingApiConcurrentClients	Concurrent CometD clients (subscribers) across all channels and for all event types
Streaming API (API version 36.0 and earlier)	
DailyGenericStreamingApiEvents	Generic events notifications delivered in the past 24 hours to all CometD clients
DailyStreamingApiEvents	PushTopic event notifications delivered in the past 24 hours to all CometD clients
StreamingApiConcurrentClients	Concurrent CometD clients (subscribers) across all channels and for all event types
Workflows	
DailyWorkflowEmails	Daily workflow emails
HourlyTimeBasedWorkflow	Hourly workflow time triggers

Reference Describe Global

URI

/services/data/v**XX.X**/limits/

Formats

JSON, XML

HTTP Method

GFT

Authentication

Authorization: Bearer token

Example

See List Organization Limits.

Describe Global

Lists the available objects and their metadata for your organization's data. In addition, it provides the organization encoding, as well as the maximum batch size permitted in queries. For more information on encoding, see Internationalization and Character Sets.

You can use the If-Modified-Since or If-Unmodified-Since header with this resource. When using the If-Modified-Since header, if no available object's metadata has changed since the provided date, a 304 Not Modified status code is returned with no response body.



Note: The If-Modified-Since and If-Unmodified-Since headers check for more than object-specific metadata changes. They also check for org-wide events, such as changes to permissions, profiles, or field labels.

URI

/services/data/v**XX.X**/sobjects/

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
If-Modified-Since	An optional header specifying a date and time. The request returns records that have been modified after that date and time.
	The format is EEE, dd MMM yyyy HH:mm:ss z.For example: If-Modified-Since: Mon, 30 Nov 2020 08:34:54 MST.
If-Unmodified-Since	An optional header specifying a date and time. The request returns records that have not been modified after that date and time.
	The format is EEE, dd MMM yyyy HH:mm:ss z.For example: If-Unmodified-Since: Mon, 30 Nov 2020 08:34:54 MST.

Reference sObject Basic Information

Example

See Get a List of Objects on page 31.

Error responses

See Status Codes and Error Responses on page 345.

sObject Basic Information

Retrieves basic metadata for a specified object, or creates a new record for the specified object. For example, this resource can be used to retrieve the metadata for the Account object using the GET method, or create a new Account object using the POST method.

IN THIS SECTION:

Retrieve Object Metadata Using sObject Basic Information

Retrieves basic metadata for a specified object, including some object properties, recent items, and URIs for other resources related to the object.

Create Records Using sObject Basic Information

Creates a new record for a specified object based on field values in the request body.

Retrieve Object Metadata Using sObject Basic Information

Retrieves basic metadata for a specified object, including some object properties, recent items, and URIs for other resources related to the object.

To retrieve the complete metadata for an object, use the sObject Describe resource.

URI

/services/data/v**XX.X**/sobjects/**sObject**/

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
sObject	The name of the object. For example, Account. A required path parameter.

Examples

For an example of retrieving metadata for an object, see Retrieve Metadata for an Object on page 33.

Create Records Using sObject Basic Information

Creates a new record for a specified object based on field values in the request body.

You must specify values for required fields in the request body. Specifying values for other fields is optional.

URI

/services/data/v**XX.X**/sobjects/**sObject**/

Formats

JSON, XML

HTTP Method

POST

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
Content-Type	An optional header, specifying the format for the request and response. Possible choices are:
	 Content-Type: application/json
	• Content-Type: application/xml
s0bject	The name of the object. For example, Account. A required path parameter.

Examples

- For an example of creating a new record using POST, see Create a Record on page 36.
- For an example of create a new record along with providing blob data for the record, see Insert or Update Blob Data on page 66.

sObject Describe

Completely describes the individual metadata at all levels for the specified object. For example, this can be used to retrieve the fields, URLs, and child relationships for the Account object.

For more information about the metadata that is retrieved, see DescribesObjectResult in the SOAP API Developers Guide.

You can use the If-Modified-Since or If-Unmodified-Since header with this resource. When using the If-Modified-Since header, if no available object's metadata has changed since the provided date, a 304 Not Modified status code is returned with no response body.

URI

/services/data/vXX.X/sobjects/sObject/describe/

Formats

JSON, XML

Reference sObject Get Deleted

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
sObject	The name of the object. For example, Account.
	A required path parameter.
If-Modified-Since	An optional header specifying a date and time. The request returns records that have been modified after that date and time.
	The format is EEE, dd MMM yyyy HH:mm:ss z.For example: If-Modified-Since: Mon, 30 Nov 2020 08:34:54 MST.
If-Unmodified-Since	An optional header specifying a date and time. The request returns records that have not been modified after that date and time.
	The format is EEE, dd MMM yyyy HH:mm:ss z.For example: If-Unmodified-Since: Mon, 30 Nov 2020 08:34:54 MST.

Example

See Get Field and Other Metadata for an Object. For an example that uses the If-Modified-Since HTTP header, see Get Object Metadata Changes.

sObject Get Deleted

Retrieves the list of individual records that have been deleted within the given timespan for the specified object. sObject Get Deleted is available in API version 29.0 and later.

This resource is commonly used in data replication applications. Note the following considerations:

- Deleted records are written to a delete log which this resource accesses. A background process that runs every two hours purges
 records that have been in an organization's delete log for more than two hours if the number of records is above a certain limit.
 Starting with the oldest records, the process purges delete log entries until the delete log is back below the limit. This is done to
 protect Salesforce from performance issues related to massive delete logs
- Information on deleted records is returned only if the current session user has access to them.
- Results are returned for no more than 15 days previous to the day the call is executed (or earlier if an administrator has purged the Recycle Bin).

See "Data Replication" in the SOAP API Developer Guide for additional details on data replication and data replication limits.

URI

/services/data/vXX.X/sobjects/sObject/deleted/?start=startDateAndTime&end=endDateAndTime

Formats

JSON, XML

Reference sObject Get Updated

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
start	Starting date/time (Coordinated Universal Time (UTC)—not local—timezone) of the timespan for which to retrieve the data. The API ignores the seconds portion of the specified dateTime value (for example, 12:30:15 is interpreted as 12:30:00 UTC). The date and time must be formatted as described in Valid Date and DateTime Formats. The date/time value for start must chronologically precede end. This parameter should be URL-encoded.
end	Ending date/time (Coordinated Universal Time (UTC)—not local—timezone) of the timespan for which to retrieve the data. The API ignores the seconds portion of the specified dateTime value (for example, 12:35:15 is interpreted as 12:35:00 UTC). The date and time must be formatted as described in Valid Date and DateTime Formats. This parameter should be URL-encoded

Response format

Property	Туре	Description
deletedRecords	array	Array of deleted records that satisfy the start and end dates specified in the request. Each entry contains the record ID and the date and time the record was deleted in ISO 8601 format, using Coordinated Universal Time (UTC) timezone.
earliestDateAvailable	String	ISO 8601 format timestamp (Coordinated Universal Time (UTC)—not local—timezone) of the last physically deleted object.
latestDateCovered	String	ISO 8601 format timestamp (Coordinated Universal Time (UTC)—not local—time zone) of the last date covered in the request.

Example

For an example of getting a list of deleted items, see Get a List of Deleted Records Within a Given Timeframe.

sObject Get Updated

Retrieves the list of individual records that have been updated (added or changed) within the given timespan for the specified object. sObject Get Updated is available in API version 29.0 and later.

This resource is commonly used in data replication applications. Note the following considerations:

• Results are returned for no more than 30 days previous to the day the call is executed.

Reference sObject Get Updated

• Your client application can replicate any objects to which it has sufficient permissions. For example, to replicate all data for your organization, your client application must be logged in with "View All Data" access rights to the specified object. Similarly, the objects must be within your sharing rules.

• There is a limit of 600,000 IDs returned from this resource. If more than 600,000 IDs would be returned, EXCEEDED_ID_LIMIT is returned. You can correct the error by choosing start and end dates that are closer together.

See "Data Replication" in the SOAP API Developer Guide for additional details on data replication and data replication limits.

URI

 $/services/data/v \textbf{\textit{XX}}.\textbf{\textit{X}}/sobjects/\textbf{\textit{sObject}}/updated/?start = \textbf{\textit{startDateAndTime}} \& end = \textbf{\textit{endDateAndTime}} \& en$

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
start	Starting date/time (Coordinated Universal Time (UTC) time zone—not local—timezone) of the timespan for which to retrieve the data. The API ignores the seconds portion of the specified dateTime value (for example, 12:30:15 is interpreted as 12:30:00 UTC). The date and time must be formatted as described in Valid Date and DateTime Formats. The date/time value for start must chronologically precede end. This parameter should be URL-encoded
end	Ending date/time (Coordinated Universal Time (UTC) time zone—not local—timezone) of the timespan for which to retrieve the data. The API ignores the seconds portion of the specified dateTime value (for example, 12:35:15 is interpreted as 12:35:00 UTC). The date and time must be formatted as described in Valid Date and DateTime Formats. This parameter should be URL-encoded

Response format

Property	Туре	Description
ids	array	Array of updated records that satisfy the start and end dates specified in the request. Each entry contains the record ID.
latestDateCovered	String	ISO 8601 format timestamp (Coordinated Universal Time (UTC)—not local—time zone) of the last date covered in the request.

Example

For an example of getting a list of updated deleted items, see Get a List of Updated Records Within a Given Timeframe.

Reference sObject Named Layouts

sObject Named Layouts

Retrieves information about alternate named layouts for a given object.

Syntax

URI

/services/data/vXX.X/sobjects/Object/describe/namedLayouts/layoutName

Available since release

31.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None

Example

/services/data/v55.0/sobjects/User/describe/namedLayouts/UserAlt

This example retrieves information on the "UserAlt" named layout for User.

Usage

Use this resource to get information on a named layout for a given object. You must provide a valid named layout name as part of the resource URI

To get a list of named layouts for a given object, use the sObject Describe resource and look for the "namedLayoutInfos" field in the response body.

sObject Rows

Accesses records based on a specified object and record ID. Retrieves, updates, or deletes records based on the HTTP method. Use the GET method to retrieve records or specific field values, the DELETE method to delete records, or the PATCH method to update records.

To create new records, use the sObject Basic Information or sObject Rows by External ID resources.

IN THIS SECTION:

Retrieve Records Using sObject Rows

Retrieves a record based on the specified object and record ID. The fields and field values of the record are returned in the response body.

Update Records Using sObject Rows

Updates a record based on the specified object and record ID. Field values provided in the request body replace the existing values in the record.

Delete Records Using sObject Rows

Deletes records based on the specified object and record ID.

Retrieve Records Using sObject Rows

Retrieves a record based on the specified object and record ID. The fields and field values of the record are returned in the response body.

URI

/services/data/v**XX.X**/sobjects/**sObject/id**/

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
sObject	The name of the object. For example, Account.
id	The identifier of the object. For example, 001R000005hDFYIA2.
fields	A comma-delimited list of fields specifying the fields and values returned in the response body. For example,
	?fields=name, description, numberofemployees, industry.
If-Match	An optional header specifying a comma-delimited list of one or more ETags. This only has an effect when used with Account objects. The request is only processed if the Account's ETag matches one of the ETags in the list.
	For example: If-Match: "94C83JSreaVMGpL+1Uzv8Dr3inI0kCvuKATVJcTuApA=gzip", "ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1S12ykkP7g=gzip".
If-None-Match	An optional header specifying a comma-delimited list of one or more ETags. This only has an effect when used with Account objects. The request is only processed if the Account's ETag does not match one of the ETags in the list.
	For example: If-None-Match: "94C83JSreaVMGpL+1Uzv8Dr3inI0kCvuKATVJcTuApA=gzip", "ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1S12ykkP7g=gzip".

Description
An optional header specifying a date and time. The request returns records that have been modified after that date and time.
The format is EEE, dd MMM yyyy HH:mm:ss z
For example: If-Modified-Since: Mon, 30 Nov 2020 08:34:54 MST.
An optional header specifying a date and time. The request returns records that have not been modified after that date and time.
The format is EEE, dd MMM yyyy HH:mm:ss z
For example: If-Unmodified-Since: Mon, 30 Nov 2020 08:34:54 MST.

Usage

This resource can be used with external objects in API version 32.0 and later.

External objects that are associated with non-high-data-volume external data sources use the 18-character Salesforce ID for the ia. Otherwise, external objects use the External ID standard field of the external object for the ia.

For information about the items in the response body, see DescribeSObjectResult in the SOAP API Developer's Guide.

If the object is an Account object, the response also contains an ETag header. For example: ETag:

"ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1Sl2ykkP7g=--gzip" This ETag can be used with the If-Match and If-None-Match headers. For more information, see Conditional Request Headers.

Examples

For examples of retrieving field values using GET, see Get Field Values from a Standard Object Record.

Update Records Using sObject Rows

Updates a record based on the specified object and record ID. Field values provided in the request body replace the existing values in the record.

URI

/services/data/v**XX.X**/sobjects/**sObject/id**/

Formats

JSON, XML

HTTP Method

PATCH

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
Content-Type	An optional header that specifies the format for the request and response. The possible header values are:
	 Content-Type: application/json
	• Content-Type: application/xml
sObject	The name of the object. For example, Account and CustomObjectc.
id	The identifier of the object. For example, 001R000005hDFYIA2.
If-Match	An optional header specifying a comma-delimited list of one or more ETags. This only has an effect when used with Account objects. The request is only processed if the Account's ETag matches one of the ETags in the list.
	For example: If-Match: "94C83JSreaVMGpL+lUzv8Dr3inI0kCvuKATVJcTuApA=gzip", "ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1Sl2ykkP7g=gzip".
If-None-Match	An optional header specifying a comma-delimited list of one or more ETags. This only has an effect when used with Account objects. The request is only processed if the Account's ETag does not match one of the ETags in the list.
	For example: If-None-Match:
	"94C83JSreaVMGpL+lUzv8Dr3inI0kCvuKATVJcTuApA=gzip", "ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1S12ykkP7g=gzip".
If-Modified-Since	An optional header specifying a date and time. The request returns records that have been modified after that date and time.
	The format is EEE, dd MMM yyyy HH:mm:ss z
	For example: If-Modified-Since: Mon, 30 Nov 2020 08:34:54 MST.
If-Unmodified-Since	An optional header specifying a date and time. The request returns records that have not been modified after that date and time.
	The format is EEE, dd MMM yyyy HH:mm:ss z
	For example: If-Unmodified-Since: Mon, 30 Nov 2020 08:34:54 MST.

Usage

This resource can be used with external objects in API version 32.0 and later.

External objects that are associated with non-high-data-volume external data sources use the 18-character Salesforce ID for the *id*. Otherwise, external objects use the External ID standard field of the external object for the *id*.

For information about the items in the response body, see DescribeSObjectResult in the SOAP API Developer Guide.

If the object is an Account object, the response also contains an ETag header. For example: ETag:

"ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1S12ykkP7g=--gzip" This ETag can be used with the If-Match and If-None-Match headers. For more information, see Conditional Request Headers.

Examples

For an example of updating a record using PATCH, see Update a Record.

Delete Records Using sObject Rows

Deletes records based on the specified object and record ID.

URI

/services/data/v**XX.X**/sobjects/**sObject/id**/

Formats

JSON, XML

HTTP Method

DELETE

Authentication

Authorization: Bearer token

Parameters

Description
The name of the object. For example, Account.
The identifier of the record. For example, 001R000005hDFYIA2.
An optional header specifying a comma-delimited list of one or more ETags. This only has an effect when used with Account objects. The request is only processed if the Account's ETag matches one of the ETags in the list.
For example: If-Match: "94C83JSreaVMGpL+lUzv8Dr3inI0kCvuKATVJcTuApA=gzip", "ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1Sl2ykkP7g=gzip".
An optional header specifying a comma-delimited list of one or more ETags. This only has an effect when used with Account objects. The request is only processed if the Account's ETag does not match one of the ETags in the list.
For example: If-None-Match: "94C83JSreaVMGpL+1Uzv8Dr3inI0kCvuKATVJcTuApA=gzip", "ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1S12ykkP7g=gzip".
An optional header specifying a date and time. The request returns records that have been modified after that date and time.
The format is EEE, dd MMM yyyy HH:mm:ss z
For example: If-Modified-Since: Mon, 30 Nov 2020 08:34:54 MST.

Parameter	Description
If-Unmodified-Since	An optional header specifying a date and time. The request returns records that have not been modified after that date and time.
	The format is EEE, dd MMM yyyy $\mathtt{HH:mm:ss}\ z$
	For example: If-Unmodified-Since: Mon, 30 Nov 2020 08:34:54 MST.

Usage

This resource can be used with external objects in API version 32.0 and later.

External objects that are associated with non-high-data-volume external data sources use the 18-character Salesforce ID for the *id*. Otherwise, external objects use the External ID standard field of the external object for the *id*.

If the object is an Account object, the response also contains an ETag header. For example: ETag:

"ddpAdaTHz+GcV35e7NLJ9iKD3XXVqAzXT1S12ykkP7g=--gzip" This ETag can be used with the If-Match and If-None-Match headers. For more information, see Conditional Request Headers.

Examples

For an example of deleting a record using DELETE, see Delete a Record.

sObject Rows by External ID

Creates, retrieves, upserts, or deletes records based on the value of a specified external ID field. By using the PATCH method with this resource, you can send upsert requests to Salesforce.

IN THIS SECTION:

Retrieve Records Using sObject Rows by External ID

Retrieves a record based on the value of the specified external ID field.

Create Records Using sObject Rows by External ID

Creates a new record based on the field values included in the request body. This resource does not require the use of an external ID field.

Upsert Records Using sObject Rows by External ID

Upserts a record based on the value of the specified external ID field. Based on whether the value of the external ID already exists, the request either creates a new record or updates an existing one.

Delete Records Using sObject Rows by External ID

Deletes a record based on the value of the specified external ID field.

Return Headers Using sObject Rows by External ID

Returns only the headers that are returned by sending a GET request to the sObject Rows by External ID resource. This gives you a chance to see returned header values of the GET request before retrieving the content itself.

Retrieve Records Using sObject Rows by External ID

Retrieves a record based on the value of the specified external ID field.



Note: For security reasons, some Top Level Domains (TLD) may conflict with certain file format extensions. Adjust your implementation to work around such cases. For example, when an email address is used as the External ID in the request URL, and the TLD ".inc" is used as part of the field value, the request returns a "404 not found" error.

For example,

curl

https://*MyDomainName*.my.salesforce.com/services/data/v55.0/sobjects/Lead/Email/example@email.inc -H "Authorization: Bearer *token*"

returns a "404 not found" error.

Workarounds:

- Use a different External ID field.
- Create a new External ID field that is the same as the email field and replace the "." with an "_" to handle this case.
- Run a query for emails ending in ".inc" to retrieve the record ID and use that for the upsert.
- Use SOAP API instead of REST API for upsert operations.
- Accept the email as a query parameter instead of a path parameter by creating a custom Apex REST API. Use Apex to perform the upsert operation.

URI

/services/data/vXX.X/sobjects/sObjectName/fieldName/fieldValue

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

None

Examples

• For an example of retrieving a record based on an external ID, see Retrieve a Record Using an External ID on page 40.

Create Records Using sObject Rows by External ID

Creates a new record based on the field values included in the request body. This resource does not require the use of an external ID field.



Note: Do not specify Id or an external ID field in the request body or an error is generated.



Note: For security reasons, some Top Level Domains (TLD) may conflict with certain file format extensions. Adjust your implementation to work around such cases. For example, when an email address is used as the External ID in the request URL, and the TLD ".inc" is used as part of the field value, the request returns a "404 not found" error.

For example,

curl

https://**MyDomainName**.my.salesforce.com/services/data/v55.0/sobjects/Lead/Email/example@email.inc -H "Authorization: Bearer **token**" -X POST

returns a "404 not found" error.

Workarounds:

- Use a different External ID field.
- Create a new External ID field that is the same as the email field and replace the "." with an "_" to handle this case.
- Run a query for emails ending in ".inc" to retrieve the record ID and use that for the upsert.
- Use SOAP API instead of REST API for upsert operations.
- Accept the email as a query parameter instead of a path parameter by creating a custom Apex REST API. Use Apex to perform the upsert operation.

URI

/services/data/vXX.X/sobjects/sObjectName/Id

Formats

JSON, XML

HTTP Method

POST

Authentication

Authorization: Bearer token

Parameters

None

Usage

As a special case, in API version 37.0 and later, you can create a record with a POST request to

/services/data/v**XX.X**/sobjects/**sObjectName**/Id. Because Id has a null value, it is omitted from the request, and the record is created according to the request body. Creating records with this resource is useful because you can use the same URI in each POST request for each new record. In this case, you are not required to specify an external ID to create a record.

Upsert Records Using sObject Rows by External ID

Upserts a record based on the value of the specified external ID field. Based on whether the value of the external ID already exists, the request either creates a new record or updates an existing one.

- If the external ID doesn't match an existing record, then a new record is created according to the request body.
- If the external ID matches one existing record, then the existing record is updated according to the request body.
- If the external ID matches multiple existing records, then a 300 error is returned, and no records are created or updated.
- Note: Do not specify Id or an external ID field in the request body or an error is generated.
- Note: For security reasons, some Top Level Domains (TLD) may conflict with certain file format extensions. Adjust your implementation to work around such cases. For example, when an email address is used as the External ID in the request URL, and the TLD ".inc" is used as part of the field value, the request returns a "404 not found" error.

For example,

```
curl
```

https://*MyDomainName*.my.salesforce.com/services/data/v55.0/sobjects/Lead/Email/example@email.inc -H "Authorization: Bearer *token*" -X PATCH

returns a "404 not found" error.

Workarounds:

- Use a different External ID field.
- Create a new External ID field that is the same as the email field and replace the "." with an "_" to handle this case.
- Run a query for emails ending in ".inc" to retrieve the record ID and use that for the upsert.
- Use SOAP API instead of REST API for upsert operations.
- Accept the email as a query parameter instead of a path parameter by creating a custom Apex REST API. Use Apex to perform the upsert operation.

URI

/services/data/vXX.X/sobjects/sObjectName/fieldName/fieldValue

Formats

JSON, XML

HTTP Method

PATCH

Authentication

Authorization: Bearer token

Parameters

None

Usage

If you are upserting a record for an object that has a custom field with both the External ID and Unique attributes selected (a unique index), you do not need any special permissions. The Unique attribute prevents the creation of duplicates. If you are upserting a record for an object that has the External ID attribute selected but not the Unique attribute selected, (a non-unique index) your client application must have the permission "View All Data" to execute this call.

Examples

• For examples of creating and updating records based on external IDs, see Insert or Update (Upsert) a Record Using an External ID on page 41.

Delete Records Using sObject Rows by External ID

Deletes a record based on the value of the specified external ID field.



Note: For security reasons, some Top Level Domains (TLD) may conflict with certain file format extensions. Adjust your implementation to work around such cases. For example, when an email address is used as the External ID in the request URL, and the TLD ".inc" is used as part of the field value, the request returns a "404 not found" error.

For example,

curl

https://*MyDomainName*.my.salesforce.com/services/data/v55.0/sobjects/Lead/Email/example@email.inc -H "Authorization: Bearer *token*" -X DELETE

returns a "404 not found" error.

Workarounds:

- Use a different External ID field.
- Create a new External ID field that is the same as the email field and replace the "." with an "_" to handle this case.
- Run a guery for emails ending in ".inc" to retrieve the record ID and use that for the upsert.

- Use SOAP API instead of REST API for upsert operations.
- Accept the email as a query parameter instead of a path parameter by creating a custom Apex REST API. Use Apex to perform the upsert operation.

URI

/services/data/vXX.X/sobjects/sObjectName/fieldName/fieldValue

Formats

JSON, XML

HTTP Method

DFI FTF

Authentication

Authorization: Bearer token

Parameters

None

Return Headers Using sObject Rows by External ID

Returns only the headers that are returned by sending a GET request to the sObject Rows by External ID resource. This gives you a chance to see returned header values of the GET request before retrieving the content itself.



Note: For security reasons, some Top Level Domains (TLD) may conflict with certain file format extensions. Adjust your implementation to work around such cases. For example, when an email address is used as the External ID in the request URL, and the TLD ".inc" is used as part of the field value, the request returns a "404 not found" error.

For example,

curl

https://*MyDomainName*.my.salesforce.com/services/data/v55.0/sobjects/Lead/Email/example@email.inc -H "Authorization: Bearer *token*" -X HEAD

returns a "404 not found" error.

Workarounds:

- Use a different External ID field.
- Create a new External ID field that is the same as the email field and replace the "." with an "_" to handle this case.
- Run a query for emails ending in ".inc" to retrieve the record ID and use that for the upsert.
- Use SOAP API instead of REST API for upsert operations.
- Accept the email as a query parameter instead of a path parameter by creating a custom Apex REST API. Use Apex to perform the upsert operation.

URI

/services/data/vXX.X/sobjects/sObjectName/fieldName/fieldValue

Formats

JSON, XML

HTTP Method

HEAD

Authentication

Authorization: Bearer token

Reference sObject Blob Retrieve

Parameters

None

sObject Blob Retrieve

Retrieves the specified blob field from an individual record and returns it as binary data.



Note: Only certain standard objects have blob fields, such as Attachment, ContentDocument, ContentNote, Document, Folder, and Note.

URI

/services/data/vXX.X/sobjects/sObject/id/blobField

Formats

Binary data

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

none required

Example

For an example of retrieving blob data from a Document, see Retrieve Blob Data on page 72.

Error responses

See Status Codes and Error Responses on page 345.

sObject ApprovalLayouts

Returns a list of approval layouts for a specified object. Specify a particular approval process name to limit the return value to one specific approval layout. This resource is available in REST API version 30.0 and later.

Syntax

URI

To get an approval layout description for a specified object, use

/services/data/v**XX.X**/sobjects/**sObject**/describe/approvalLayouts/

To get an approval layout description for a particular approval process, use

/services/data/vXX.X/sobjects/sObject/describe/approvalLayouts/approvalProcessName

Formats

JSON, XML

HTTP methods

HEAD, GET

Authentication

Authorization: Bearer token

Reference sObject CompactLayouts

Request parameters

None required

Example

Getting all approval layouts for an sObject

```
\label{lem:curl} $$ $ \text{https://} $$ MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Account/describe/approvalLayouts/-H "Authorization: Bearer $token"$ $$
```

Example JSON Response body

```
"approvalLayouts" : [ {
    "id" : "04aD00000008Py9IAE",
    "label" : "MyApprovalProcessName",
    "name" : "MyApprovalProcessName"
    }, {
    "id" : "04aD00000008Q0KIAU",
    "label" : "Process1",
    "layoutItems" : [...],
    "name" : "Process1"
} ]
```

If you haven't defined any approval layouts for an object, the response is { "approvalLayouts": []}.

Getting the approval layout for a particular approval process

```
curl
https://MyDamainName.my.salesforce.com/services/data/v55.0/sdbjects/Account/describe/approvalIayouts/MyApprovalProcessName
-H "Authorization: Bearer token"
```

Example JSON Response body

```
"approvalLayouts" : [ {
    "id" : "04aD00000008Py9IAE",
    "label" : "MyApprovalProcessName",
    "layoutItems" : [...],
    "name" : "MyApprovalProcessName"
} ]
```

sObject CompactLayouts

Returns a list of compact layouts for a specific object. This resource is available in REST API version 29.0 and later.

Reference sObject CompactLayouts

Syntax

URI

For a compact layout description for a specific object, use /services/data/v**XX.X**/sobjects/**sObject**/describe/compactLayouts/

Formats

JSON, XML

HTTP methods

HEAD, GET

Authentication

Authorization: Bearer token

Request parameters

None required

Example

Getting compact layouts

/services/data/v55.0/sobjects/Account/describe/compactLayouts

Example JSON Response body

This sample JSON response is for compact layouts created on the Account object. In this example, only one custom compact layout was created for Account. The custom compact layout is assigned as the primary compact layout for the object, and it contains two fields: Account Name and Phone.

```
"compactLayouts" : [ {
 "actions" : [ {
   "custom" : false,
   "icons" : null,
   "label" : "Call",
    "name" : "CallHighlightAction"
 }, {
    "custom" : false,
   "icons" : null,
   "label" : "Send Email",
   "name" : "EmailHighlightAction"
   "custom" : false,
   "icons" : null,
   "label" : "Map",
    "name" : "MapHighlightAction"
 }, {
    "custom" : false,
   "icons" : null,
   "label" : "Read News",
   "name" : "NewsHighlightAction"
 }, {
    "custom" : false,
   "icons" : null,
```

```
"label" : "View Website",
 "name" : "WebsiteHighlightAction"
"fieldItems" : [ {
 "editable" : false,
 "label" : "Account Name",
  "layoutComponents" : [ {
    "components" : [ ],
    "details" : {
      "autoNumber" : false,
      "byteLength" : 765,
      "calculated" : false,
      "calculatedFormula" : null,
      "cascadeDelete" : false,
      "caseSensitive" : false,
      "controllerName" : null,
      "createable" : true,
      "custom" : false,
      "defaultValue" : null,
      "defaultValueFormula" : null,
      "defaultedOnCreate" : false,
      "dependentPicklist" : false,
      "deprecatedAndHidden" : false,
      "digits" : 0,
      "displayLocationInDecimal" : false,
      "externalId" : false,
      "extraTypeInfo" : null,
      "filterable" : true,
      "groupable" : true,
      "htmlFormatted" : false,
      "idLookup" : false,
      "inlineHelpText" : null,
      "label" : "Account Name",
      "length" : 255,
      "mask" : null,
      "maskType" : null,
      "name" : "Name",
      "nameField" : true,
      "namePointing" : false,
      "nillable" : false,
      "permissionable" : false,
      "picklistValues" : [ ],
      "precision" : 0,
      "queryByDistance" : false,
      "referenceTo" : [ ],
      "relationshipName" : null,
      "relationshipOrder" : null,
      "restrictedDelete" : false,
      "restrictedPicklist" : false,
      "scale" : 0,
      "soapType" : "xsd:string",
      "sortable" : true,
      "type" : "string",
      "unique" : false,
```

```
"updateable" : true,
      "writeRequiresMasterRead" : false
    } ,
    "displayLines" : 1,
    "tabOrder" : 2,
    "type" : "Field",
    "value" : "Name"
  } ],
  "placeholder" : false,
  "required" : false
}, {
  "editable" : false,
  "label" : "Phone",
  "layoutComponents" : [ {
    "components" : [ ],
    "details" : {
      "autoNumber" : false,
      "byteLength" : 120,
      "calculated" : false,
      "calculatedFormula" : null,
      "cascadeDelete" : false,
      "caseSensitive" : false,
      "controllerName" : null,
      "createable" : true,
      "custom" : false,
      "defaultValue" : null,
      "defaultValueFormula" : null,
      "defaultedOnCreate" : false,
      "dependentPicklist" : false,
      "deprecatedAndHidden" : false,
      "digits" : 0,
      "displayLocationInDecimal" : false,
      "externalId" : false,
      "extraTypeInfo" : null,
      "filterable" : true,
      "groupable" : true,
      "htmlFormatted" : false,
      "idLookup" : false,
      "inlineHelpText" : null,
      "label" : "Account Phone",
      "length" : 40,
      "mask" : null,
      "maskType" : null,
      "name" : "Phone",
      "nameField" : false,
      "namePointing" : false,
      "nillable" : true,
      "permissionable" : true,
      "picklistValues" : [ ],
      "precision" : 0,
      "queryByDistance" : false,
      "referenceTo" : [ ],
      "relationshipName" : null,
      "relationshipOrder" : null,
```

```
"restrictedDelete" : false,
      "restrictedPicklist" : false,
      "scale" : 0,
      "soapType" : "xsd:string",
      "sortable" : true,
      "type" : "phone",
      "unique" : false,
      "updateable" : true,
      "writeRequiresMasterRead" : false
   },
   "displayLines" : 1,
   "tabOrder" : 3,
   "type" : "Field",
   "value" : "Phone"
 "placeholder" : false,
  "required" : false
"id" : "OAHD000000000AbOAI",
"imageItems" : [ {
 "editable" : false,
  "label" : "Photo URL",
  "layoutComponents" : [ {
   "components" : [ ],
    "details" : {
      "autoNumber" : false,
      "byteLength" : 765,
      "calculated" : false,
      "calculatedFormula" : null,
      "cascadeDelete" : false,
      "caseSensitive" : false,
      "controllerName" : null,
      "createable" : false,
      "custom" : false,
      "defaultValue" : null,
      "defaultValueFormula" : null,
      "defaultedOnCreate" : false,
      "dependentPicklist" : false,
      "deprecatedAndHidden" : false,
      "digits" : 0,
      "displayLocationInDecimal" : false,
      "externalId" : false,
      "extraTypeInfo" : "imageurl",
      "filterable" : true,
      "groupable" : true,
      "htmlFormatted" : false,
      "idLookup" : false,
      "inlineHelpText" : null,
      "label" : "Photo URL",
      "length" : 255,
      "mask" : null,
      "maskType" : null,
      "name" : "PhotoUrl",
      "nameField" : false,
```

Reference sObject CompactLayouts

```
"namePointing" : false,
          "nillable" : true,
          "permissionable" : false,
          "picklistValues" : [ ],
          "precision" : 0,
          "queryByDistance" : false,
          "referenceTo" : [ ],
          "relationshipName" : null,
          "relationshipOrder" : null,
          "restrictedDelete" : false,
         "restrictedPicklist" : false,
          "scale" : 0,
          "soapType" :
          "xsd:string",
          "sortable" : true,
          "type" : "url",
          "unique" : false,
          "updateable" : false,
          "writeRequiresMasterRead" : false
       },
       "displayLines" : 1,
       "tabOrder" : 1,
       "type" : "Field",
       "value" : "PhotoUrl"
     "placeholder" : false,
     "required" : false
   "label" : "Custom Account Compact Layout",
   "name" : "Custom Account Compact Layout"
 "defaultCompactLayoutId" : "OAHD000000000AbOAI",
 "recordTypeCompactLayoutMappings" : [ {
   "available" : true,
   "compactLayoutId" : "OAHD000000000AbOAI",
   "compactLayoutName" : "Custom Account Compact Layout",
   "recordTypeId" : "012000000000000AAA",
   "recordTypeName" : "Master",
   "urls" : {
     "compactLayout" :
"/services/data/v55.0/sobjects/Account/describe/compactLayouts/01200000000000AAA"
 } ],
 "urls" : {
   "primary": "/services/data/v55.0/sobjects/Account/describe/compactLayouts/primary"
 }
```

If you haven't defined any compact layouts for an object, the compactLayoutId returns as Null.

Reference sObject Describe Layouts

sObject Describe Layouts

Returns a list of global publisher layouts and descriptions. You can request descriptions for a specific object or for all publisher layouts. Layout names and a list of fields are returned. Global publisher layouts customize the actions on global pages (like the Home page). In Lightning Experience, these layouts populate the Global Actions menu.

URI

To return descriptions of all global publisher layouts, the URI is:

/services/data/v**XX.X**/sobjects/Global/describe/layouts/

For a layout description for a specific object, use /services/data/vXX.X/sobjects/Object/describe/layouts/

For a layout description for objects that have more than one record type defined, use

/services/data/vXX. X/sobjects/Object/describe/layouts/<recordTypeId>. For example, the following URI requests the layout for a specific Contact record ID:

/services/data/v**XX.X**/sobjects/Contact/describe/layouts/012xx00000024x5AAA. A GET request for objects that have more than one record type defined returns null for the layouts section of the response.

Formats

JSON, XML

HTTP Method

HEAD, GET

Authentication

Authorization: Bearer token

Parameters

None required

Example for getting global publisher layouts

```
curl
https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Global/describe/layouts/
-H "Authorization: Bearer token"
```

Example JSON Response body contactlayout. json file

```
[ { "name" : "contactlayout",
   "searchColumns" : [ { "field" : "Account.Name",
         "format" : null,
          "label" : "Account Name",
          "name" : "Name"
       },
        { "field" : "Account.Site",
          "format" : null,
          "label" : "Account Site",
          "name" : "Site"
       },
        { "field" : "Account.Phone",
          "format" : null,
          "label" : "Phone",
          "name" : "Phone"
        { "field" : "User.Alias",
          "format" : null,
          "label" : "Account Owner Alias",
```

```
"name" : "Owner.Alias"
     }
    1
},
{ "label" : "Search Results",
  "limitRows" : 25,
  "searchColumns" : [ { "field" : "Contact.Name",
        "format" : null,
        "label" : "Name",
        "name" : "Name"
      },
      { "field" : "Account.Name",
        "format" : null,
        "label" : "Account Name",
        "name" : "Account.Name"
      } ,
      { "field" : "Account.Site",
        "format" : null,
        "label" : "Account Site",
        "name" : "Account.Site"
      },
      { "field" : "Contact.Phone",
        "format" : null,
        "label" : "Phone",
        "name" : "Phone"
      { "field" : "Contact.Email",
        "format" : null,
        "label" : "Email",
        "name" : "Email"
      },
      { "field" : "User.Alias",
        "format" : null,
        "label" : "Contact Owner Alias",
        "name" : "Owner.Alias"
},
{ "label" : "Search Results",
  "limitRows" : 25,
  "searchColumns" : [ { "field" : "Lead.Name",
        "format" : null,
        "label" : "Name",
        "name" : "Name"
      },
      { "field" : "Lead.Title",
        "format" : null,
        "label" : "Title",
        "name" : "Title"
      },
      { "field" : "Lead.Phone",
        "format" : null,
        "label" : "Phone",
        "name" : "Phone"
```

Reference sObject PlatformAction

```
{ "field" : "Lead.Company",
        "format" : null,
        "label" : "Company",
        "name" : "Company"
      { "field" : "Lead.Email",
        "format" : null,
        "label" : "Email",
        "name" : "Email"
      },
      { "field" : "Lead.Status",
        "format" : null,
        "label" : "Lead Status",
        "name" : "toLabel(Status)"
      },
      { "field" : "Name.Alias",
        "format" : null,
        "label" : "Owner Alias",
        "name" : "Owner.Alias"
      }
    ]
},
```

sObject PlatformAction

PlatformAction is a virtual read-only object. It enables you to query for actions displayed in the UI, given a user, a context, device format, and a record ID. Examples include standard and custom buttons, quick actions, and productivity actions.

Returns the description of the PlatformAction.

Syntax

URI

Use /services/data/vXX.X/sobjects/PlatformAction

Available since release

This resource is available in API version 33.0 and later.

Formats

JSON, XML

HTTP methods

GFT

Authentication

Authorization: Bearer token

Request body

None.

Reference SObject Quick Actions

Usage

The only thing you can do with this resource is Query it.

sObject Quick Actions

Returns a list of actions and their details. This resource is available in REST API version 28.0 and later. When working with actions, also refer to Quick Actions.

URI

To return a specific object's actions as well as global actions, use:

/services/data/vXX.X/sobjects/sObject/quickActions/

To return a specific action, use /services/data/vXX.X/sobjects/SObject/quickActions/action name

To return a specific action's descriptive detail, use

/services/data/vXX.X/sobjects/sObject/quickActions/action name/describe/

To return a specific action's default values, including default field values, use

/services/data/vXX.X/sobjects/sObject/quickActions/action name/defaultValues/

In API version 28.0, to evaluate the default values for an action, use

/services/data/vXX.X/sobjects/sObject/quickActions/action name/defaultValues/parent

In API version 29.0 and greater, to evaluate the default values for an action, use

/services/data/vXX.X/sobjects/sObject/quickActions/action name/defaultValues/context id

This returns the default values specific to the context id object.

Formats

JSON, XML

HTTP Method

HEAD, GET, POST

Authentication

Authorization: Bearer token

Parameters

None required

Example for getting Account actions

```
curl
```

 $\label{lem:mysales} \mbox{https://{\it MyDomainName}.my.salesforce.com/services/data/v55.0/sobjects/Account/quickActions} - \mbox{H "Authorization: Bearer $\it token$"}$

Example for creating a contact on Account using an action

```
curl
```

https://**MyDomainName**.my.salesforce.com/services/data/v55.0/sobjects/Account/quickActions/CreateContact -H 'Authorization: Bearer access_token -H "Content-Type: application/json" -d @newcontact.json'

Example JSON request body newcontact.json file

```
"contextId" : "001D000000JRSGf",
"record" : { "LastName" : "Smith" }
```

Considerations

• The resources return all actions—both global and standard—in addition to the ones requested.

sObject Rich Text Image Retrieve

Retrieves the specified image data from a specific rich text area field in a given record. To retrieve an image, you must have a record with an image uploaded to a rich text area field.

URI

/ services/data/v XX.X/sobjects/sObject/id/richTextImageFields/fieldName/contentReferenceId

Formats

PNG or JPEG binary image data.

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description		
sObjectName	Indicates the name of the standard object of the record.		
id	The ID of the object.		
fieldName	The name of the rich text area field.		
contentReferenceId	The reference ID that uniquely identifies an image within a rich text area field.		
	You can obtain the reference by retrieving information for the object. The description shows the contents of the rich text area field. For example:		
	<pre>"attributes" : { "type" : "Lead", "url" : "/services/data/v55.0/sobjects/Lead/00QRM000003ZfDb2AK" }, "Id" : "00QRM000003ZfDb2AK", "ContactPhotoc" : "Sarah Loehr and her two dogs. <img alt='\"Sarah' loehr.\"<="" pre=""/></pre>		

Reference sObject Relationships

Parameter	Description	
	<pre>src=\"https://MyDomainName.file.force.com/servlet/rtaImage?</pre>	
	<pre>eid=00QRM000003ZfDb& feoid=00NRM000001E73j& refid=0EMRM0000002Ip\">" }</pre>	
	The refid parameter of the image (OEMRM000000021p in this example) is the contentReferenceId.	
	Note: If you're not using enhanced domains, your org's My Domain URLs are different. For details, see My Domain URL Formats in Salesforce Help.	

Example

For an example of retrieving the blob data from a rich text area field, see Get an Image from a Rich Text Area Field on page 65.

Error responses

See Status Codes and Error Responses on page 345.

sObject Relationships

Accesses records by traversing object relationships via friendly URLs. You can retrieve, update, or delete the record associated with the traversed relationship field. If there are multiple related records, you can retrieve the complete set of associated records. This resource is available in REST API version 36.0 and later.

URI

/services/data/vXX.X/sobjects/sObject/id/relationship field name

Formats

JSON, XML

HTTP Methods

GET, PATCH, DELETE

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
fields	Optional for GET. A list of fields in the associated relationship record to return. Fields are separated by commas. For example:	
	/services/data/v55.0/sobjects/sObject/id/relationship field?fields=field1, field2	

Reference sObject Suggested Articles

Response Body

For retrievals via GET, the response body is the contents of the record associated with the relationship field. Here is an example of a request and JSON response body for a simple relationship traversal that returns the Distributor__c record associated with a relationship field on custom object Merchandise__c.

 $\verb|https://\textit{MyDmainName}.my.salesforce.com/services/data/v55.0/sobjects/Merchandise c/a01D0000001NijVe/Distributor r$

```
"attributes" :
    "type" : "Distributor__c",
        "url" : "/services/data/v55.0/sobjects/Distributor__c/a03D0000003DUhcIAG"
},
    "Id" : "a03D0000003DUhcIAG",
    "OwnerId" : "005D00000001KyEIIAO",
    "IsDeleted" : false,
    "Name" : "Distributor1",
    "CreatedDate" : "2011-12-16T17:43:01.000+0000",
    "CreatedById" : "005D0000001KyEIIAO",
    "LastModifiedDate" : "2011-12-16T17:43:01.000+0000",
    "LastModifiedById" : "005D00000001KyEIIAO",
    "SystemModstamp" : "2011-12-16T17:43:01.000+0000",
    "Location__c" : "San Francisco"
```

A response body isn't returned for updates via PATCH and deletions via DELETE.

Error Responses

If no record is associated with a relationship field, a 404 error response is returned. If the relationship field normally resolves to multiple records and no relationship set exists, a 200 response is returned. If the fields parameter is used with fields that don't exist or aren't visible to the consumer by field-level security, a 400 error response is returned. For other error messages, see Status Codes and Error Responses on page 345.

Example

For examples of using sObject Relationships to access relationship fields, see Traverse Relationships with Friendly URLs on page 45.

sObject Suggested Articles

Returns a list of suggested Salesforce Knowledge articles for a case, work order, or work order line item.

Syntax

URI

To return suggested articles for a case, work order, or work order line item that is being created, use

/services/data/v**XX.X**/sobjects/**sObject**/suggestedArticles

?language=articleLanguage&subject=subject&description=description. The sObject can be Case, WorkOrder, or WorkOrderLineItem. Suggestions are based on common keywords in the title, description, and other information that's entered before the record has been saved and assigned an ID.

For example:

/services/data/vXX.X/sobjects/Case/suppestedArticles?language-articleIanguage.subject-subjectScdescription-description

or

 $v \textbf{\textit{XX}}. \textbf{\textit{X}} / \text{sobjects} / \textbf{\textit{WorkOrder}} / \text{suggestedArticles?} \\ \text{language=} \textbf{\textit{articleLanguage}} \\ \text{subject} \\ \text{Sub$

To return suggested articles for an existing record with an ID, use

 $/ \texttt{services/data/v} \textbf{\textit{XX}}. \textbf{\textit{X}} / \texttt{sobjects} / \textbf{\textit{SObject/ID}} / \texttt{suggestedArticles?language} = \textbf{\textit{articleLanguage}}$

Available since release

30.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None required

Request parameters

Parameter	Description	
articleTypes	Optional. Three-character ID prefixes indicating the desired article types. You can specify multiple values for this parameter in a single REST call, by repeating the parameter name for each value. For example, articleTypes=ka0&articleTypes=ka1.	
categories	Optional. The name of the data category group and the data category API name (not category title) for desired articles. The syntax is categories={"Group":"Category"}. Characters in the URL might need to be encoded. For example:	
	categories=%7B%22Regions%22%3A%22Asia%22%2C%22 Products%22%3A%22Laptops%22%7D	
	The same data category group can't be specified more than once. However, you can specify multiple data category group and data category pairs. For example, categories={"Regions":"Asia", "Products": "Laptops"}.	
description	Text of the description. Valid only for new records without an existing ID and required if subject is null. Article suggestions are based on common keywords in the subject, description, or both.	
language	Required. Language that the article is written in.	
limit	Optional. Specifies the maximum number of suggested articles to return.	
publishStatus	Optional. The article's publication status. Valid values: • Draft—Not published • Online—Published in Salesforce Knowledge • Archived	

Reference sObject User Password

Parameter	Description	
subject	Text of the subject. Valid only for new records without an existing ID and required if description is null. Article suggestions are based on common keywords in the subject, description, or both.	
topics	Optional. The topic of returned articles. For example: topics=outlook&topics=email.	
validationStatus	Optional. The validation status of returned articles.	

Example for getting suggested articles for a case that's being created

```
curl
https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Case/suggestedArticles?
language=en_US&subject=orange+banana&articleTypes=ka0&articleTypes=ka1
-H "Authorization: Bearer token"
```

Example JSON response body

```
[ {
   "attributes" : {
      "type" : "KnowledgeArticleVersion",
      "url" : "/services/data/v55.0/sobjects/KnowledgeArticleVersion/ka0D00000004CcQ"
   "Id" : "ka0D00000004CcQ"
}, {
   "attributes" : {
      "type" : "KnowledgeArticleVersion",
      "url" : "/services/data/v55.0/sobjects/KnowledgeArticleVersion/ka0D00000004CXo"
   },
   "Id" : "ka0D000000004CXo"
} ]
```

Usage

Salesforce Knowledge must be enabled in your organization. The user must have the "View Articles" permission enabled. The articles suggested include only the articles the user can access, based on the data categories and article types the user has permissions to view.

Articles are suggested based on a relevance algorithm. The suggestedArticles resource is designed to get the IDs of articles relevant to a case, work order, or work order line item. It's intended to be used with other services that then use the IDs to get article data for display.

sObject User Password

Sets, resets, or gets information about a user password. This resource is available in REST API version 24.0 and later.

URI

/services/data/v \pmb{XX} . \pmb{X} /sobjects/User/ $\pmb{user_Id}$ /password

For managing passwords for self-service users, the URI is:

/services/data/vXX.X/sobjects/SelfServiceUser/self service user Id/password

Formats

JSON, XML

HTTP Method

HEAD, GET, POST, DELETE

Authentication

Authorization: Bearer token

Parameters

None required

Example

For examples of getting password information, setting a password, and resetting a password, see Manage User Passwords on page 74

Considerations

- If the session does not have permission to access the user information, an INSUFFICIENT_ACCESS error will be returned.
- When using this resource to set a new password, the new password must conform to the password policies for the organization, otherwise you will get an INVALID_NEW_PASSWORD error response.
- You can only set one password per request.
- When you use the DELETE method of this resource, Salesforce will reset the user password to an auto-generated password, which will be returned in the response.

Platform Event Schema by Event Name

Gets the definition of a platform event in JSON format for an event name.

Syntax

URI

/services/data/v**XX.X**/sobjects/**eventName**/eventSchema

Available since release

40.0

Formats

JSON

HTTP methods

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
payloadFormat	(Optional query parameter. Available in API version 43.0 and later.) The format of the returned event schema. This parameter can take one of the following values.	
	• EXPANDED—The JSON representation of the event schema, which is the default format when payloadFormat is not specified in API version 43.0 and later.	
	• COMPACT—A format that adheres to the open-source Apache Avro specification for the record complex type (see Apache Avro Format). Subscribers use the compact schema format to deserialize compact events received in binary form.	

Error Codes

400 Bad Request	Description
In API version 43.0 and later	The request was formatted incorrectly—an invalid value was passed for the payloadFormat parameter in the URI.
In API version 42.0 and earlier	The request was formatted incorrectly—the payloadFormat parameter was passed in the URI but this API version doesn't support this parameter.

Examples for API Version 43.0 and Later

This URI gets the schema of a platform event named Low_Ink__e. In API version 43.0 and later, the default response format is the JSON representation of the event schema.

```
/services/data/v55.0/sobjects/Low_Ink__e/eventSchema
```

Or:

```
/services/data/v55.0/sobjects/Low_Ink__e/eventSchema?payloadFormat=EXPANDED
```

The returned response for the expanded format looks like the following in API version 43.0.

```
"name" : "Low_Ink__e",
"namespace" : "com.sforce.eventbus",
"type" : "expanded-record",
"fields" : [ {
    "name" : "data",
    "type" : {
        "type" : "record",
        "name" : "Data",
        "namespace" : "",
        "fields" : [ {
            "name" : "schema",
            "type" : "string"
        }, {
            "name" : "payload",
```

```
"type" : {
        "type" : "record",
        "name" : "Payload",
        "doc" : "",
        "fields" : [ {
          "name" : "CreatedDate",
          "type" : "string",
          "doc" : "CreatedDate:DateTime"
        }, {
          "name" : "CreatedById",
          "type" : "string",
          "doc" : "CreatedBy:EntityId"
          "name" : "Printer Model c",
          "type" : [ "null", "string" ],
          "doc" : "Data:Text",
          "default" : null
        }, {
          "name" : "Serial_Number__c",
          "type" : [ "null", "string" ],
          "doc" : "Data:Text",
          "default" : null
        }, {
          "name" : "Ink Percentage c",
          "type" : [ "null", "double" ],
          "doc" : "Data:Double",
          "default" : null
        } ]
      }
    }, {
      "name" : "event",
      "type" : {
        "type" : "record",
        "name" : "Event",
        "fields" : [ {
          "name" : "replayId",
          "type" : "long"
        } ]
      }
    } ]
  }
}, {
  "name" : "channel",
  "type" : "string"
} ]
```

To get the compact (Apache Avro) format, use the following URI.

```
/services/data/v55.0/sobjects/Low_Ink__e/eventSchema?payloadFormat=COMPACT
```

The returned response for the compact format looks like the following in API version 55.0.

```
{
   "name" : "Low_Ink__e",
```

```
"namespace" : "com.sforce.eventbus",
"doc" : "55.0",
"type" : "record",
"fields" : [ {
 "name" : "CreatedDate",
 "type" : "long",
 "doc" : "CreatedDate:DateTime"
  "name" : "CreatedById",
 "type" : "string",
 "doc" : "CreatedBy:EntityId"
  "name" : "Printer Model c",
  "type" : [ "null", "string" ],
 "doc" : "Data:Text",
 "default" : null
  "name" : "Serial Number c",
  "type" : [ "null", "string" ],
 "doc" : "Data:Text",
  "default" : null
}, {
  "name" : "Ink_Percentage__c",
 "type" : [ "null", "double" ],
 "doc" : "Data:Double",
 "default" : null
"uuid" : "5E5OtZj5 Gm6Vax9XMXH9A"
```

Note: The compact schema doesn't include the replayId or channel fields because these fields are not necessary for deserializing the compact event received.

Examples for API Version 42.0 and Earlier

In API version 42.0 and earlier, the response format adheres to the open-source Apache Avro specification for the record complex type.

Note: This format is what the API returns in API version 43.0 and later when appending the <code>?payloadFormat=COMPACT</code> parameter.

```
/services/data/v42.0/sobjects/Low_Ink__e/eventSchema
```

The returned response looks like the following in API version 42.0.

```
"name" : "Low_Ink__e",
"namespace" : "com.sforce.eventbus",
"doc" : "42.0",
"type" : "record",
"fields" : [ {
    "name" : "CreatedDate",
    "type" : "long",
    "doc" : "CreatedDate:DateTime"
}, {
```

```
"name" : "CreatedById",
 "type" : "string",
  "doc" : "CreatedBy:EntityId"
  "name" : "Printer Model c",
 "type" : [ "null", "string" ],
 "doc" : "Data:Text",
  "default" : null
}, {
  "name" : "Serial Number c",
 "type" : [ "null", "string" ],
  "doc" : "Data:Text",
  "default" : null
  "name" : "Ink Percentage c",
  "type" : [ "null", "double" ],
  "doc" : "Data:Double",
  "default" : null
"uuid" : "5E5OtZj5 Gm6Vax9XMXH9A"
```



Note: When you change the definition of a platform event, the schema ID for this platform event changes.

Apache Avro Format

The fields in the returned response adhere to the open-source Apache Avro specification for the record complex type (see Avro Records in the Apache Avro specification). Note the following:

- name is the name of the platform event.
- namespace corresponds to com.sforce.eventbus.
- type is the Avro complex type.
- fields is a JSON array containing the fields of the platform event. For each field:
 - type indicates that the field can be either null or have a value of the specified type. When the field is not present, the value is default.
 - doc is the field data type. This field is intended for internal use. For example, the data type information is used to convert
 DateTime fields from long to DateTime. We recommend that you don't rely on this field's value because it might change in the
 future.

The response also includes the uuid field, which contains the schema's ID. The ID is the MD5 fingerprint of the normalized Avro schema encoded as a base-64 URL variant. You can append this ID to the /vxx.x/event/eventSchema/ URI to retrieve the schema.

Platform Event Schema by Schema ID

Gets the definition of a platform event in JSON format for a schema ID.

Syntax

URI

/services/data/v**XX.X**/event/eventSchema/**schemaId**

Available since release

40.0

Formats

JSON

HTTP methods

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
payloadFormat	(Optional query parameter. Available in API version 43.0 and later.) The format of the returned event schema. This parameter can take one of the following values.	
	• EXPANDED—The JSON representation of the event schema, which is the default format when payloadFormat is not specified in API version 43.0 and later.	
	• COMPACT—A format that adheres to the open-source Apache Avro specification for the record complex type (see Apache Avro Format). Subscribers use the compact schema format to deserialize compact events received in binary form.	

Error Codes

400 Bad Request	Description
In API version 43.0 and later	The request was formatted incorrectly—an invalid value was passed for the payloadFormat parameter in the URI.
In API version 42.0 and earlier	The request was formatted incorrectly—the payloadFormat parameter was passed in the URI but this API version doesn't support this parameter.

Examples for API Version 43.0 and Later

This URI gets the schema of a platform event whose schema ID is 5E50tZj5_Gm6Vax9XMXH9A. This schema ID is a sample ID. Replace it with a valid schema ID for your event.

/services/data/v55.0/event/eventSchema/5E5OtZj5_Gm6Vax9XMXH9A

Or:

/services/data/v55.0/event/eventSchema/5E5OtZj5_Gm6Vax9XMXH9A?payloadFormat=EXPANDED

In API version 43.0 and later, the response format is the JSON representation of the event schema by default. The returned response looks like the following in API version 55.0.

```
{
 "name" : "Low Ink e",
 "namespace" : "com.sforce.eventbus",
  "type" : "expanded-record",
  "fields" : [ {
   "name" : "data",
   "type" : {
      "type" : "record",
      "name" : "Data",
      "namespace" : "",
      "fields" : [ {
        "name" : "schema",
        "type" : "string"
      }, {
        "name" : "payload",
        "type" : {
          "type" : "record",
          "name" : "Payload",
          "doc" : "",
          "fields" : [ {
            "name" : "CreatedDate",
            "type" : "string",
            "doc" : "CreatedDate:DateTime"
          }, {
            "name" : "CreatedById",
            "type" : "string",
            "doc" : "CreatedBy:EntityId"
          }, {
            "name" : "Printer_Model__c",
            "type" : [ "null", "string" ],
            "doc" : "Data:Text",
            "default" : null
          }, {
            "name" : "Serial Number c",
            "type" : [ "null", "string" ],
            "doc" : "Data:Text",
            "default" : null
          }, {
            "name" : "Ink Percentage c",
            "type" : [ "null", "double" ],
            "doc" : "Data:Double",
            "default" : null
          } ]
        }
      }, {
        "name" : "event",
        "type" : {
          "type" : "record",
          "name" : "Event",
          "fields" : [ {
            "name" : "replayId",
            "type" : "long"
```

```
} ]
} 
} ]

} , {
   "name" : "channel",
   "type" : "string"
} ]
```

To get the compact (Apache Avro) format, use the following URI.

```
/services/data/v55.0/event/eventSchema/5E5OtZj5\_Gm6Vax9XMXH9A?payloadFormat=COMPACT
```

The returned response for the compact format looks like the following in API version 55.0.

```
"name" : "Low Ink e",
"namespace" : "com.sforce.eventbus",
"doc" : "55.0",
"type" : "record",
"fields" : [ {
  "name" : "CreatedDate",
  "type" : "long",
  "doc" : "CreatedDate:DateTime"
  "name" : "CreatedById",
  "type" : "string",
  "doc" : "CreatedBy:EntityId"
}, {
  "name" : "Printer Model c",
  "type" : [ "null", "string" ],
  "doc" : "Data:Text",
  "default" : null
  "name" : "Serial Number c",
  "type" : [ "null", "string" ],
  "doc" : "Data:Text",
  "default" : null
  "name" : "Ink Percentage c",
  "type" : [ "null", "double" ],
  "doc" : "Data:Double",
  "default" : null
"uuid" : "5E5OtZj5 Gm6Vax9XMXH9A"
```

Ø

Note: The compact schema doesn't include the replayId or channel fields because these fields are not necessary for descrializing the compact event received.

Example for API Version 42.0 and Earlier

In API version 42.0 and earlier, the response format adheres to the open-source Apache Avro specification for the record complex type.



Note: This format is what the API returns in API version 43.0 and later when appending the <code>?payloadFormat=COMPACT</code> parameter.

This URI gets the schema of a platform event whose schema ID is 5E50tZj5_Gm6Vax9XMXH9A. This schema ID is a sample ID. Replace it with a valid schema ID for your event.

```
/services/data/v42.0/event/eventSchema/5E5OtZj5 Gm6Vax9XMXH9A
```

The returned response looks like the following in API version 42.0.

```
"name" : "Low Ink e",
"namespace" : "com.sforce.eventbus",
"doc" : "42.0",
"type" : "record",
"fields" : [ {
  "name" : "CreatedDate",
  "type" : "long",
  "doc" : "CreatedDate:DateTime"
}, {
  "name" : "CreatedById",
  "type" : "string",
  "doc" : "CreatedBy:EntityId"
  "name" : "Printer Model c",
  "type" : [ "null", "string" ],
  "doc" : "Data:Text",
  "default" : null
}, {
  "name" : "Serial Number c",
  "type" : [ "null", "string" ],
  "doc" : "Data:Text",
  "default" : null
  "name" : "Ink Percentage c",
  "type" : [ "null", "double" ],
  "doc" : "Data:Double",
  "default" : null
} ],
"uuid": "5E5OtZj5 Gm6Vax9XMXH9A"
```

Ø

Note: When you change the definition of a platform event, the schema ID for this platform event changes.

If you don't have the schema ID, you can get the schema by supplying the platform event name. Make a GET request to /services/data/v**XX.X**/sobjects/**eventName**/eventSchema. See Platform Event Schema by Event Name.

Apache Avro Format

The fields in the returned response adhere to the open-source Apache Avro specification for the record complex type (see Avro Records in the Apache Avro specification). Note the following:

- name is the name of the platform event.
- namespace corresponds to com.sforce.eventbus.

- type is the Avro complex type.
- fields is a JSON array containing the fields of the platform event. For each field:
 - type indicates that the field can be either null or have a value of the specified type. When the field is not present, the value is default.
 - doc is the field data type. This field is intended for internal use. For example, the data type information is used to convert DateTime fields from long to DateTime. We recommend that you don't rely on this field's value because it might change in the future.

The response also includes the uuid field, which contains the schema's ID. The ID is the MD5 fingerprint of the normalized Avro schema encoded as a base-64 URL variant. You can append this ID to the /vXX.X/event/eventSchema/URI to retrieve the schema.

AppMenu

Returns a list of items in either the Salesforce app drop-down menu or the Salesforce for Android, iOS, and mobile web navigation menu.

Syntax

URI

To return a list of the Salesforce app drop-down menu items, the URI is:

```
/services/data/vXX.X/appMenu/AppSwitcher/
```

To return a list of the Salesforce for Android, iOS, and mobile web navigation menu items, the URI is:

/services/data/vXX.X/appMenu/Salesforce1/

Available since release

29.0

Formats

JSON, XML

HTTP methods

GET, HEAD

Authentication

Authorization: Bearer token

Request body

None

Request parameters

None required

Example

Getting appMenu types

```
curl https://MyDomainName.my.salesforce.com/services/data/v55.0/appMenu/ -H "Authorization: Bearer token"
```

Example response body for /vXX. X/appMenu/AppSwitcher/

```
"appMenuItems" : [ {
  "type" : "Tabset",
  "content" : null,
  "icons" : null,
  "colors" : null,
  "label" : "Sales",
  "url" : "/home/home.jsp?tsid=02uxx00000056Sq"
}, {
  "type" : "Tabset",
  "content" : null,
  "icons" : null,
  "colors" : null,
  "label" : "Service",
  "url" : "/home/home.jsp?tsid=02uxx00000056Sr"
  "type" : "Tabset",
  "content" : null,
  "icons" : null,
  "colors" : null,
  "label" : "Marketing",
  "url" : "/home/home.jsp?tsid=02uxx00000056St"
}, {
  "type" : "Tabset",
  "content" : null,
  "icons" : null,
  "colors" : null,
  "label" : "Salesforce Chatter",
  "url" : "/home/home.jsp?tsid=02uxx00000056Su"
  "type" : "Tabset",
  "content" : null,
  "icons" : null,
  "colors" : null,
  "label" : "Community",
  "url" : "/home/home.jsp?tsid=02uxx00000056Sw"
}, {
  "type" : "Tabset",
  "content" : null,
  "icons" : null,
  "colors" : null,
  "label" : "App Launcher",
  "url": "/app/mgmt/applauncher/appLauncher.apexp?tsid=02uxx00000056Sx"
} ]
```

Example response body for /vXX. X/appMenu/Salesforce1/

```
"appMenuItems" : [ {
   "type" : "Standard.Search",
   "content" : null,
   "icons" : null,
```

```
"colors" : null,
 "label" : "Smart Search Items",
 "url" : "/search"
  "type" : "Standard.MyDay",
 "content" : null,
 "icons" : null,
  "colors" : null,
  "label" : "Today",
 "url" : "/myDay"
}, {
  "type" : "Standard. Tasks",
  "content" : null,
  "icons" : null,
 "colors" : null,
 "label" : "Tasks",
  "url" : "/tasks"
}, {
  "type" : "Standard.Dashboards",
 "content" : null,
 "icons" : null,
  "colors" : null,
  "label" : "Dashboards",
 "url" : "/dashboards"
}, {
  "type" : "Tab.flexiPage",
  "content" : "MySampleFlexiPage",
  "icons" : [ {
    "contentType" : "image/png",
    "width" : 32,
    "height" : 32,
    "theme" : "theme3",
    "url" : "http://myorg.com/img/icon/custom51 100/bel132.png"
    "contentType" : "image/png",
    "width" : 16,
    "height" : 16,
    "theme" : "theme3",
    "url" : "http://myorg.com/img/icon/custom51 100/bell16.png"
  }, {
    "contentType" : "image/svg+xml",
    "width" : 0,
    "height" : 0,
    "theme" : "theme4",
    "url" : "http://myorg.com/img/icon/t4/custom/custom53.svg"
    "contentType" : "image/png",
    "width" : 60,
    "height" : 60,
    "theme" : "theme4",
    "url" : "http://myorg.com/img/icon/t4/custom/custom53 60.png"
 }, {
    "contentType" : "image/png",
    "width" : 120,
```

```
"height" : 120,
   "theme" : "theme4",
   "url" : "http://myorg.com/img/icon/t4/custom/custom53 120.png"
  "colors" : [ {
   "context" : "primary",
   "color": "FC4F59",
   "theme" : "theme4"
 }, {
    "context" : "primary",
   "color" : "FC4F59",
   "theme" : "theme3"
  } ],
 "label" : "My App Home Page",
 "url" : "/servlet/servlet.Integration?lid=01rxx0000000Vsd&ic=1"
}, {
  "type" : "Tab.apexPage",
  "content" : "/apex/myapexpage",
  "icons" : [ {
   "contentType" : "image/png",
   "width" : 32,
   "height" : 32,
   "theme" : "theme3",
   "url" : "http://myorg.com/img/icon/cash32.png"
    "contentType" : "image/png",
   "width" : 16,
   "height" : 16,
   "theme" : "theme3",
   "url" : "http://myorg.com/img/icon/cash16.png"
    "contentType" : "image/svg+xml",
   "width" : 0,
   "height" : 0,
   "theme" : "theme4",
    "url" : "http://myorg.com/img/icon/t4/custom/custom41.svg"
    "contentType" : "image/png",
   "width" : 60,
   "height" : 60,
   "theme" : "theme4",
   "url" : "http://myorg.com/img/icon/t4/custom/custom41_60.png"
    "contentType" : "image/png",
   "width" : 120,
   "height" : 120,
   "theme" : "theme4",
   "url" : "http://myorg.com/img/icon/t4/custom/custom41_120.png"
 } ],
  "colors" : [ {
   "context" : "primary",
   "color" : "3D8D8D",
   "theme" : "theme4"
 }, {
```

Reference Compact Layouts

```
"context" : "primary",
    "color" : "3D8D8D",
    "theme" : "theme3"
} ],
    "label" : "label",
    "url" : "/servlet/servlet.Integration?lid=01rxx0000000Vyb&ic=1"
} ]
```

Compact Layouts

Returns a list of compact layouts for multiple objects. This resource is available in REST API version 31.0 and later.

This resource returns the primary compact layout for a set of objects. The set of objects is specified using a query parameter. Up to 100 objects can be queried at once.



Note: PersonAccount isn't supported for bulk queries. If you want to get the primary compact layout for PersonAccount, get it directly from

/services/data/v55.0/sobjects/Account/describe/compactLayouts/primaryPersonAccount.

Syntax

URI

/services/data/vXX.X/compactLayouts?q=object list

Available since release

31.0

Formats

JSON, XML

HTTP methods

GET

Authentication

```
Authorization: Bearer token
```

Request parameters

Parameter	Description	
q	A comma-delimited list of objects. The primary compact layout for each object in this list will be returned in the response of this resource.	

Example

Request for getting compact layouts for multiple objects

/services/data/v55.0/compactLayouts?q=Account,Contact,CustomObj__c

Reference Compact Layouts

Response for compact layouts for multiple objects

```
"Account" : {
  "actions" : [ {
    "behavior" : null,
    "content" : null,
    "contentSource" : null,
    "custom" : false,
    "encoding" : null,
    "height" : null,
    "icons" : null,
    "label" : "Call",
    "menubar" : false,
    "name" : "CallHighlightAction",
    "overridden" : false,
    "resizeable" : false,
    "scrollbars" : false,
    "showsLocation" : false,
    "showsStatus" : false,
    "toolbar" : false,
    "url" : null,
    "width" : null,
    "windowPosition" : null
  },
  "id" : "OAHD000000000AbOAI",
  "label" : "Custom Account Compact Layout",
  "name" : "Custom_Account_Compact_Layout"
},
"Contact" : {
  "actions" : [ {
    "behavior" : null,
    "content" : null,
    "contentSource" : null,
    "custom" : false,
    "encoding" : null,
    "height" : null,
    "icons" : null,
    "label" : "Call",
    "menubar" : false,
    "name" : "CallHighlightAction",
    "overridden" : false,
    "resizeable" : false,
    "scrollbars" : false,
    "showsLocation" : false,
    "showsStatus" : false,
    "toolbar" : false,
    "url" : null,
    "width" : null,
    "windowPosition" : null
  },
  "id" : null,
```

```
"label" : "System Default",
  "name" : "SYSTEM"
"CustomObj c" : {
  "actions" : [ {
   "behavior" : null,
   "content" : null,
    "contentSource" : null,
    "custom" : false,
   "encoding" : null,
   "height" : null,
   "icons" : null,
    "label" : "Call",
    "menubar" : false,
   "name" : "CallHighlightAction",
   "overridden" : false,
    "resizeable" : false,
    "scrollbars" : false,
    "showsLocation" : false,
   "showsStatus" : false,
   "toolbar" : false,
    "url" : null,
    "width" : null,
    "windowPosition" : null
 },
  "id" : null,
  "imageItems" : null,
  "label" : "System Default",
  "name" : "SYSTEM"
```

Consent

Your users can store consent preferences in different locations and possibly inconsistently. You can locate your customers' preferences for consent across multiple records when using API version 44.0 and later. Tracking consent preferences helps you and your users respect the most restrictive requests. You can use the Consent API with specific Salesforce CDP parameters with API version 50.0 and later. See the syntax and parameters for Salesforce CDP in the following section.

Consent API aggregates consent settings across the Contact, Contact Point Type Consent, Data Use Purpose, Individual, Lead, Person Account, and User objects when the records have a lookup relationship. The Consent API can't locate records in which the email address field is protected by Platform Encryption.

The API returns consent details based on a single action, like email or track. Starting with API version 45.0, the multiaction endpoint allows you to request multiple actions in a single API call.

You can use the Consent API with specific Salesforce CDP parameters with API version 50.0 and later. Syntax and parameters for Salesforce CDP are at the end of this topic.

Consent API Syntax

URI

/services/data/v**XX.X**/consent/action/action?ids=list_of_Ids

/services/data/v**XX.X**/consent/multiaction?actions= $list_of_actions$ &ids= $list_of_Ids$ (Available in API version 45.0 and later.)

Available since release

44.0

Formats

JSON

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None

Request parameters

Parameter	Description		
actions	Comma-separated list of proposed actions. This required parameter applies only to the multiaction endpoint.		
	This parameter is available in API version 45.0 and later.		
	If this parameter is used, action can't be used.		
aggregatedConsent	Optional: true or false. aggregatedConsent is the same as aggregatedConsent=true. If true, one result is returned indicating whether to proceed or not, rather than a result for each ID. If any ID in the list returns false, the aggregated result is false.		
datetime	Optional. The timestamp for which consent is determined. The value is converted to the UTC timezone and must be formatted as described in Valid Date and DateTime Formats. If not specified, defaults to the current date and time.		
ids	Required. Comma-separated list of IDs. The ID can be the record ID or the email address listed on the record.		
policy	Optional. Use policy=requireExplicitConsent to specify in the API response whether explicit consent was given for a contact point channel. The API returns an infoNotFound response when consent isn't specified. This parameter is available in API version 49.0 and later.		
	<u> </u>		
purpose	Optional. The reason for contacting a customer.		
verbose	Optional: true or false. verbose is the same as verbose=true. Verbose responses are slower than non-verbose responses. See the examples for a verbose response.		

Action

Allowed values are:

- email
- fax
- geotrack
- mail
- phone
- portability
- process
- profile
- shouldforget
- social
- solicit
- storepiielsewhere
- track
- web

If action is used, actions can't be used.



Note: When you select *email* as the action, the API only aggregates consent for records that contain the same email address. If the record ID specified in the URI is associated with a record that contains a different email address, the consent settings of the associated record aren't included in the API response.

Examples

Simple URI structure

/services/data/v55.0/consent/action/track?ids=003xx000004TxyY,00Qxx00000syy0,003zz000004zzZ

Multiaction URI structure

/services/data/v55.0/consent/multiaction?actions=track, qeotrack, email&ids=003xx000008TiyY, 00gxx000008kw0, dek65@tf7h.com

Email addresses as IDs, specified purpose and timespan, and a verbose response

/services/deta/v55.0/carsent/action/eneil?ids=j0t5t5520tkhyp5ia.com/4qxlsvo623vj7pvh.com6detetime=2018-12-12100:00:00Z6purpose-billing&erbose-true

Response

```
{
  "j0t5t5b2@tkbxp5ia.com" : {
    "result" : "Success",
    "proceed" : {
        "email" : "true"
        "emailResult" : "Success"
    },
    "explanation" : [ {
        "objectConsulted" : "ContactTypePointConsent",
        "status" : "opt_in",
        "purpose" : "billing",
        "purpose" : "billing",
        "status" : "opt_in",
        "purpose" : "billing",
```

```
"recordId" : "003xx000004TxyY",
   "value" : "true"
 },{
    "objectConsulted" : "Contact",
   "field" : "HasOptedOutOfTracking",
   "recordId" : "1",
   "value" : "true"
 } ]
},
"4quxlswo@23wj7pwh.com" : {
 "result" : "Success",
  "proceed" : {
    "email" : "false"
    "emailResult" : "Success"
 },
  "explanation" : [ {
    "objectConsulted" : "Contact",
    "field" : "HasOptedOutOfEmail",
    "recordId" : "00Qxx00000skw0",
   "value" : "true"
 }
    ]
}
```

Security

To call Consent API, you must have either the View All Data or the Allow User Access to Privacy Data user permission. Requiring a perm ensures that the System Administrator gives explicit permission. This API accesses org-wide consent data, such as links between records and the value of consent flags, not just records to which the user ordinarily has access.

Usage

The following table shows how the API responses are determined. If the consulted fields find conflicting consent preferences, the response returns the least permissive preference. For example, if Contact. Has Opted Out Of Email is false, but Lead. Has Opted Out Of Email is true, the response indicates that you can't proceed with emailing the user.

When you select *email* as the action, the API only aggregates consent for records that contain the same email address. If the record ID specified in the URI is associated with a record that contains a different email address, the consent settings of the associated record aren't included in the API response.



Note: When the API compares consent settings across records, it doesn't incorporate settings from converted leads.

Action	Fields Consulted	API Response	Response Schema
email	Contact.HasOptedOutOfEmail ContactPointTypeConsentContactPointType ContactPointTypeConsentEffectiveFrom ContactPointTypeConsentEffectiveTo ContactPointTypeConsentPivacyConsentStatus	Within the time range if specified in ContactPointTypeConsent: Returns TRUE if all consulted field values are 0.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "emailResult": "<success errormessage="">", email: "<true false="">" }</true></success></success></id>

	DataUsePurpose.Name Lead.HasOptedOutOfEmail PersonAccount.HasOptedOutOfEmail	Returns FALSE if any consulted field value is 1 or if no related Contact, Contact Point Type Consent, Lead, or Person Account object exists.	<pre>} }</pre>
fax	Contact. Has Opted Out Of Fax Data Use Purpose. Name Lead. Has Opted Out Of Fax Person Account. Has Opted Out Of Fax	Returns TRUE if all consulted field values are 0. Returns FALSE if any consulted field value is 1 or if no related Contact, Lead, or Person Account object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "faxResult": "<success errormessage="">", fax : "<true false="">" } }</true></success></success></id>
geotrack	DataUsePurpose.Name Individual.HasOptedOutGeoTracking	Returns TRUE if the consulted field value is 0. Returns FALSE if the consulted field value is 1 or if no related Individual object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "geotrackResult": "<success errormessage="">", "geotrack": "<true false="">" } }</true></success></success></id>
mail	ContactPointTypeConsentContactPointType ContactPointTypeConsentEffectiveFrom ContactPointTypeConsentEffectiveTo ContactPointTypeConsentPixeyConsentStatus DataUsePurpose.Name	Within the time range if specified in ContactPointTypeConsent: Returns TRUE if all consulted field values are 0. Returns FALSE if any consulted field value is 1 or if no related Contact, Contact Point Type Consent, Lead, or Person Account object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "mailingResult": "<success errormessage="">", "mail": "<true false="">" } } }</true></success></success></id>
phone	Contact.DoNotCall	Within the time range if specified in ContactPointTypeConsent:	{ " <id email="">":</id>

```
Returns TRUE if all
                 ContactPointTypeConsentContactPointType
                                                    consulted field values
                 ContactPointTypeConsent.EffectiveFrom
                                                                             "result": "<Success/errormessage>",
                 ContactPointTypeConsent.EffectiveTo
                                                                             "proceed": { "phoneResult": "<Success/errormessage>",
                                                    Returns FALSE if any
                                                                             "phone": "<true/false>"}
                 ContadPointTypeConsentPivacyConsentStatus
                                                   consulted field value is
                                                    1 or if no related
                 DataUsePurpose.Name
                                                    Contact, Contact Point }
                 Lead.DoNotCall
                                                    Type Consent, Lead, or
                 PersonAccount.DoNotCall
                                                    Person Account object
                                                    exists.
portability
                 DataUsePurpose.Name
                                                    Returns TRUE if the
                                                    consulted field value is
                                                                            "<ID/Email>":
                 Individual.SendIndividualData
                                                    1.
                                                    Returns FALSE if the
                                                                             "result": "<Success/errormessage>",
                                                    consulted field value is
                                                   0 or if no related
                                                                             "proceed": { "portabilityResult":
                                                   Individual object exists.
                                                                             "<Success/errormessage>", "portability": "<true/false>"
process
                 DataUsePurpose.Name
                                                    Returns TRUE if the
                                                    consulted field value is
                                                                             "<ID/Email>":
                 Individual.HasOptedOutProcessing
                                                   Returns FALSE if the
                                                                             "result": "<Success/errormessage>",
                                                    consulted field value is
                                                    1 or if no related
                                                                             "proceed": { "processResult": "< Success/errormessage>",
                                                   Individual object exists.
                                                                             "process": "<true/false>"}
profile
                 DataUsePurpose.Name
                                                    Returns TRUE if the
                                                    consulted field value is
                                                                             "<ID/Email>":
                 Individual.HasOptedOutProfiling
                                                    Returns FALSE if the
                                                                             "result": "<Success/errormessage>",
                                                    consulted field value is
                                                    1 or if no related
                                                                             "proceed": { "profileResult": "<Success/errormessage>",
                                                   Individual object exists.
                                                                             "profile": "<true/false>"}
```

shouldforget	Data Use Purpose. Name Individual. Should Forget	Returns TRUE if the consulted field value is 1. Returns FALSE if the consulted field value is 0 or if no related Individual object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "shouldForgetResult": "<success errormessage="">", "shouldforget": "<true false="">" } }</true></success></success></id>
social	ContactPointTypeConsentContactPointType ContactPointTypeConsentEffectiveFrom ContactPointTypeConsentEffectiveTo ContactPointTypeConsentPivacyConsentStatus DataUsePurpose.Name	Within the time range if specified in ContactPointTypeConsent: Returns TRUE if all consulted field values are 0. Returns FALSE if any consulted field value is 1 or if no related Contact, Contact Point Type Consent, Lead, or Person Account object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "socialResult": "<success errormessage="">", "social": "<true false="">" } }</true></success></success></id>
solicit	DataUsePurpose.Name Individual.HasOptedOutSolicit	Returns TRUE if the consulted field value is 0. Returns FALSE if the consulted field value is 1 or if no related Individual object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "solicitResult": "<success errormessage="">", "solicit": "<true false="">" } }</true></success></success></id>
storepiielsewhere	DataUsePurpose.Name Individual.CanStorePiiElsewhere	Returns TRUE if the consulted field value is 1. Returns FALSE if the consulted field value is 0 or if no related Individual object exists.	{ " <id email="">": { "result": "<success errormessage="">", "proceed": { "storePIIEIsewhereResult": "<success errormessage="">", "storepiieIsewhere": "<true false="">" } }</true></success></success></id>

```
}
track
                 DataUsePurpose.Name
                                                    Returns TRUE if the
                                                    consulted field value is
                                                                              "<ID/Email>":
                 Individual.HasOptedOutTracking
                                                    Returns FALSE if the
                                                                              "result": "<Success/errormessage>",
                                                    consulted field value is
                                                    1 or if no related
                                                                              "proceed": { "trackResult": "<Success/errormessage>",
                                                    Individual object exists. "track" : "<true/false>" }
                                                                              }
web
                 ContactPointTypeConsent.ContactPointType
                                                    Within the time range
                                                    if specified in
                                                                              "<ID/Email>":
                 ContactPointTypeConsent.EffectiveFrom
                                                     ContactPointTypeConsent:
                 ContactPointTypeConsent.EffectiveTo
                                                    Returns TRUE if all
                 ContadPointTypeConsentPivacyConsentStatus
                                                                              "result": "<Success/errormessage>",
                                                    consulted field values
                                                    are 0.
                                                                              "proceed": { "webResult": "<Success/errormessage>",
                 DataUsePurpose.Name
                                                                              "web": "<true/false>"}
                                                    Returns FALSE if any
                                                    consulted field value is
                                                    1 or if no related
                                                    Contact, Contact Point
                                                    Type Consent, Lead, or
                                                    Person Account object
                                                    exists.
```

Use the Consent API with Salesforce CDP

The Consent API supports Salesforce CDP (Customer Data Platform). Use the Consent API to read and write to the Salesforce CDP profile. Contact your Salesforce Representative for consumer rights guidance within Salesforce CDP.

Required Permissions

To use the Salesforce CDP parameters for the Consent API, you must have either the ModifyAllData or the ConsentApiUpdate user permission. Requiring a perm ensures that the Salesforce admin gives explicit permission. These parameters write org-wide consent data, such as links between records and the value of consent flags, which are usually inaccessible to non-admin users.

Actions supported by Consent API with Salesforce CDP

Action	Description
Processing	This action is used to restrict processing of data in CDP processes such as query, segmentation and so on.
Portability	This action is used to allow export of CDP profile data.

Action	Description
Shouldforget	This action indicates right to be forgotten, which means delete my PII (Personally Identifiable Information) data and any related records.

Salesforce CDP Read Parameters

The Consent API allows you to gather information about the Salesforce CDP profile. Use the mode and ids Salesforce CDP parameters as described below.

Syntax

HTTP method

GFT

Available since release:

48.0

URI



Note: You can access the consent API using three different URIs based on the Action. The Actions supported are processing, portability, and shouldforget.

```
/services/data/vXX.X/consent/action/processing?ids=<list of ids>&mode=<cdp>
/services/data/vXX.X/consent/action/portability?ids=<list_of_ids>&mode=<cdp>
/services/data/vxx.x/consent/action/shouldforget?ids=<list of ids>&mode=<cdp>
```

Request parameters

Parameter	Description
ids	Required. Comma-separated list of IDs. The ID can be the record ID or the email address listed on the record. When mode is set to cdp, the ids value is a string equal to the Individual ID attribute. This is the email address used to sync consent.
mode	Optional. Default is normal. Valid value to retrieve a CDP profile is cdp.

Salesforce CDP Read Example

URI

/services/data/v55.0/consent/action/portability?ids=00932I3SU92&mode=cdp

Response

```
{ "j00932I3SU92" : { "result" : "Success", "proceed" : { "portability" : "true"
"portabilityResult" : "Success" } }
```

Salesforce CDP Write Parameters

The Consent API also allows you to write information to the Salesforce CDP profile. Use the ids, mode, and status parameters as described below.



Note: You can update your consent information with the consent API using three different URIs. The URIs are based on the action that is to be performed on the CDP profile. The actions supported are processing, portability, and shouldforget.

Syntax

HTTP method

PATCH

Available since release

50.0

URI when action is processing

/services/data/v**XX.X**/consent/action/processing?ids= $list_of_ids$ &mode=cdp&status=optin or optout

Request parameters when action is processing

Parameter	Description
ids	Required. Comma-separated list of IDs. The ID can be the record ID or the email address listed on the record. When mode is cdp, the ids value is a string equal to the Individual ID attribute. This is the email address used to sync consent.
mode	Optional. Default is normal. Valid value to use for updating a CDP profile is cdp.
status	Required. Status of the consent. Allowed values are optin or optout. However, when action is processing use status as optout.

URI action is portability

/services/data/vXX.X/consent/action/portability?ids= $list_of_ids$ &mode=cdp&status=optin or optout

Request parameters when action is portability

Parameter	Description
ids	Required. Comma-separated list of IDs. The ID can be the record ID or the email address listed on the record. When mode is cdp, the ids value is a string equal to the Individual ID attribute. This is the email address used to sync consent.
mode	Optional. Default is normal. Valid value to use for updating a CDP profile is cdp.
status	Required. Status of the consent. Allowed values are optin or optout. However, when action is portability use status as optout.

URI when action is shouldforget

 $/services/data/v \textit{XX.X}/consent/action/shouldforget?ids=\textit{list_of_ids} \& mode=\textit{cdp} \& status=\textit{optin} \\ \textit{or optout}$

Request parameters when action is shouldforget

Parameter	Description
ids	Required. Comma-separated list of IDs. The ID can be the record ID or the email address listed on the record. When mode is cdp, the ids value is a string equal to the Individual ID attribute. This is the email address used to sync consent.
mode	Optional. Default is normal. Valid value to use for updating a CDP profile is cdp.
status	Required. Status of the consent. Allowed values are optin or optout. When Action is portability use status as optin.
aws_s3_bucket_id	Required only when mode is 'cdp' and the action is 'portability'. This parameter must be passed in as part of the PATCH request body. This parameter is used to pass the S3 bucket location for portability requests to Salesforce CDP.
aws_access_key_id	Required only when mode is 'cdp' and the action is 'portability'. This parameter must be passed in as part of the PATCH request body. This parameter is used to pass the S3 bucket access key for portability requests to Salesforce CDP.
aws_secret_access_key	Required only when mode is 'cdp' and the action is 'portability'. This parameter must be passed in as part of the PATCH request body. This parameter is used to pass the S3 bucket secret access key for portability requests to Salesforce CDP.
aws_s3_folder	Required only when mode is 'cdp' and the action is 'portability'. This parameter must be passed in as part of the PATCH request body. This parameter is used to pass the S3 bucket folder for portability requests to Salesforce CDP.
aws_region	Required only when mode is 'cdp' and the action is 'portability'. This parameter must be passed in as part of the PATCH request body. This parameter is used to pass the S3 bucket's aws region for portability requests to Salesforce CDP.

Salesforce CDP Write Example

When action is processing

/services/data/v55.0/consent/action/processing?ids=100000695&mode=cdp&status=optout body: {}

When action is portability

```
/services/data/v55.0/consent/action/portability?ids=100000695&mode=cdp&status=optin
body:{
    "aws_s3_bucket_id": "cdpgdprtest",
    "aws_access_key_id": "AKIAS4AK7TBJBHUPOBEI",
    "aws_secret_access_key": "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",
    "aws_s3_folder": "yyun/Person",
    "aws_region": "us-west-1"
}
```

Reference Consent Write

When action is shouldforget

/services/data/v55.0/consent/action/shouldforget?ids=100000695 &mode=cdp&status=optin body: {}

Consent Write

Your users can store consent preferences in different locations. The Consent Write API can update and write consent across multiple records through a single API call, helping you sync consent across records or populate the new Consent data model. This API is available with version 48.0 and later.

Consent API writes consent values across the Contact, Contact Point Type Consent, Data Use Purpose, Individual, Lead, Person Account, and User objects when the records have a lookup relationship or share an email address. This API can also write to the Salesforce CDP Individual record. The Consent API can't locate records in which the email address field is protected by Platform Encryption.



Note: For the Spring '21 release, the API only takes in a single email address. Any record with a matching email address is updated based on the parameters set in the API call.

Consent Write API Syntax

URI

/services/data/vXX.X/consent/action/action?ids=list of Ids

Available since release

48.0

Formats

JSON

HTTP methods

PATCH

Authentication

Authorization: Bearer token

Request body

Only Salesforce CDP uses the request body. If not passing anything in the request body, pass in an empty object {}.

Request parameters

Parameter	Description	
blobParam	Optional. Use to pass information to Salesforce CDP, such as portability write location. Use only for mode=cdp. This parameter must be passed in as part of the PATCH request body.	
captureDate	Optional. The date and time when consent is captured. The default is the date and time the API call is made.	
captureContactPointType	Optional. Describes how consent is captured (web, phone, email). Supported values are: email phone	

Reference Consent Write

Parameter	Description	
	• web (default)	
captureSource	Optional. The source through which consent is captured. The default capture source is Consent API. Max length 255 characters.	
consentName	Optional. Use to set the name for any new consent records. Default is: Individual Name-Datetime (<name></name> 2019-03-31T15:47:57). Max length is 255 characters.	
createIndividual	Optional. Boolean. If set to true and the API call includes an email address that matches multiple records without an Individual object, then an Individual object is created. Any consent records with an email address that match the email in the API call are linked to the new Individual object. If multiple records are found, then any records not linked to an Individual object is linked to the Individual object found in the other records. If more than one Individual object is found on the matching records, then the call is rejected.	
doubleOptIn	Optional. The date and time that the double opt-in is completed, formatted as described in Valid Date and DateTime Formats.	
effectiveFrom	Optional. The date from which consent is effective, formatted as described in Valid Date and DateTime Formats. The default is the date the API call is made.	
effectiveTo	Optional. The date through which consent is effective, formatted as described in Valid Date and DateTime Formats.	
ids	Required. The email address used to sync consent. The ID can be the record ID or the email address listed on the record. When mode=cdp, the ID value is a string equal to the Individual ID attribute.	
individualName	Optional. The name of the person in an Individual record. If a name isn't provided for a new Individual record, then the local part of the passed-in email address is used. Max length is 80 characters.	
mode	Optional. Default is normal. The allowed modes are: normal or cdp. With mode=cdp, the request is passed to the Salesforce CDP data platform to get or write consent. The mode=cdp parameter only supports the action, blobParam, and ids parameters.	
purposeName	Optional. The data use purpose for which consent is provided. Must use an existing data use purpose that you previously created. If more than one purpose with the same name exists, only one purpose is selected.	
status	Required. Status of the consent (OptIn, OptOut, Seen, NotSeen.) If action exists on an Individual object (for example, tracking or processing), the only valid values are OptIn and OptOut.	

Action

Allowed values are:

• email

Reference Consent Write

- fax
- geotrack
- mailing
- phone
- portability
- process
- profile
- shouldForget
- social
- solicit
- storePiiElsewhere
- track
- web

Security

To call the Consent Write API, you must have either the ModifyAllData or the ConsentApiUpdate user permission. This API writes org-wide consent data, such as links between records and the value of consent flags, and not just records to which the user ordinarily has access. The ConsentApiUpdate user permission grants full write permission to the user during the Consent Write API call.

Usage

All records with the email address listed are updated. If the Create Individual parameter is selected and no Individual record exists, the API creates an Individual record. If warranted, the API also creates a Contact Point Type Consent and Contact Point Email record.

Example PATCH

URI

/services/data/v55.0/consent/action/<action/>:ids<erail-OR-recordID%status<activ/optin/seen/notseen%createIndividual=<active/false>

Request body

```
{}
```

Response

```
"<email-OR-recordID>" : {
    "result" : "Success",
    "edited" : [{
        "objectType" : "<Contact, Lead, User, etc.>",
        "field" : "<HasOptedOutofFax, DoNotCall, etc>",
        "valueOfField" : "<true/false>",
        "id" : "<recordID>"
    }],
}
```

Embedded Service Configuration Describe

Retrieves the values for your Embedded Service deployment configuration, including the branding colors, font, and site URL.

Syntax

URI

/services/data/vXX.X/support/embeddedservice/configuration/EmbeddedServiceConfigDeveloperName

Available since release

45.0

Formats

JSON

HTTP methods

GET, HEAD

Authentication

You must be logged in to the account that owns the EmbeddedServiceConfigDeveloperName you are querying.

Request parameters

None

Example

Retrieving the values for the Embedded Service deployment TestOne

```
/services/data/v55.0/support/embeddedservice/configuration/TestOne
```

JSON Response body

This sample JSON response is for an Embedded Chat deployment. The JSON response for another Embedded Service feature, such as an embedded flow, will have different values.

```
"embeddedServiceConfig" : {
 "areGuestUsersAllowed" : false,
  "authMethod" : "CustomLogin",
 "embeddedServiceBranding" : {
   "contrastInvertedColor" : "#ffffff",
   "contrastPrimaryColor" : "#333333",
   "font" : "Salesforce Sans",
   "height" : 498,
   "navBarColor" : "#222222",
   "primaryColor" : "#222222",
   "secondaryColor" : "#005290",
   "width" : 320
 },
  "embeddedServiceLiveAgent" : {
   "avatarImg" : "",
    "embeddedServiceQuickActions" : [ {
      "order" : 1,
      "quickActionDefinition" : "Snapins_Case_OfflineCaseQuickAction_08hRM00000000CC",
      "quickActionType" : "OfflineCase"
```

Reference Invocable Actions

```
}, {
    "order" : 1,
   "quickActionDefinition": "Snapins_Contact_PrechatQuickAction_08hRM0000000RC",
    "quickActionType" : "Prechat"
 }, {
    "order" : 2,
    "quickActionDefinition" : "Snapins_Case_PrechatQuickAction 08hRM00000000RC",
    "quickActionType" : "Prechat"
  } ],
  "enabled" : true,
 "fontSize" : "Medium",
 "headerBackgroundImg" : "https://google.com/img/headerBgImgUrl.png",
 "isOfflineCaseEnabled" : true,
 "isQueuePositionEnabled" : true,
 "liveChatButton": "573RM0000004GGf",
 "liveChatDeployment": "572RM0000004CDV",
 "offlineCaseBackgroundImg" : "https://google.com/img/offlineBgImgUrl.png",
  "prechatBackgroundImg" : "https://google.com/img/prechatBgImgUrl.png",
  "prechatEnabled" : true,
 "scenario" : "Service",
 "smallCompanyLogoImg" : "https://google.com/img/logoImgUrl.png",
 "waitingStateBackgroundImg": "https://google.com/img/bgImgUrl.png"
},
"shouldHideAuthDialog" : false,
"siteUrl": "https://snapins-15f082fb956-15fbc261d27.stmfa.stm.force.com/napili2"
```

Invocable Actions

Represents a standard or custom invocable action.

Use actions to add more functionality to your applications. Choose from standard actions, such as posting to Chatter or sending email, or create actions based on your company's needs.

This resource is available in REST API version 32.0 and later.

Syntax

URI

Get a list of endpoints for each action type:

/services/data/v**XX.X**/actions

Formats

JSON, XML

HTTP Methods

GET, POST

Authentication

Authorization: Bearer token

Reference Invocable Actions

Parameters

None

Example

Using GET to retrieve a list of general action types for the current organization:

```
/services/data/v55.0/actions
```

JSON Response body

```
{
  "standard" : "/services/data/v55.0/actions/standard",
  "custom" : "/services/data/v55.0/actions/custom"
}
```

Example

Using POST to send a simple email message:

```
/services/data/v55.0/actions/standard/emailSimple
```

JSON Request body

```
"inputs" : [ {
    "emailAddresses" : "Fred@Acme.com",
    "emailSubject" : "Note",
    "emailBody" : "Message of the day.",
    "senderAddress" : "Bill@TheCloud.org"
} ]
```

JSON Response body

```
"actionName" : "emailSimple",
"errors" : null,
"isSuccess" : true,
"outputValues" : null
}
```

Standard actions return their name in actionName. The value of actionName varies for custom actions.

Action	actionName value
Flow	The flow name
Apex	The class's invocable method name
Quick action	<pre><object name="">.<quick action="" name=""> For a global quick action, there's no <object name="">. prefix.</object></quick></object></pre>
Email alert	<pre><object name="">.<email alert="" name=""></email></object></pre>

For more information about actions, see the Actions Developer Guide.

Reference Standard Invocable Actions

Standard Invocable Actions

Returns the list of actions that can be statically invoked. You can also get basic information for each type of action.

This resource is available in REST API version 32.0 and later.

Syntax

URI

Get a list of standard actions:

/services/data/v**XX.X**/actions/standard

Formats

JSON

HTTP Methods

GET, HEAD, POST

Authentication

Authorization: Bearer token

Parameters

None

Notes

For Salesforce Omnichannel Inventory and Salesforce Order Management, you can also call the corresponding Connect REST API endpoints or Apex ConnectApi methods. For more information, see Salesforce Omnichannel Inventory Resources and Salesforce Order Management Resources in the *Connect REST API Developer Guide*, and ConnectApi Namespace in the *Apex Reference Guide*.

The Post to Chatter action supports the following features using a special format in the body post.

- @mentions using @ [<id>]
- Topic links using #[<topicString>]

For example, the string Hi @[00500000000001], check out #[some_topic] is stored appropriately as Hi @Joe, check out #some topic where "@Joe" and "#some_topic" are links to the user and topic, respectively.

Examples

Retrieving a list of standard actions for the current organization

```
/services/data/v55.0/actions/standard
```

JSON Response body

```
"actions" : [ {
    "label" : "Post to Chatter",
    "name" : "chatterPost",
    "type" : "CHATTERPOST",
    "url" : "/services/data/v55.0/actions/standard/chatterPost"
}, {
    "label" : "Enable Folder Support for a Content Workspace (Library)",
    "name" : "contentWorkspaceEnableFolders",
    "type" : "CONTENTWORKSPACE_ENABLE_FOLDERS",
    "url" : "/services/data/v55.0/actions/standard/contentWorkspaceEnableFolders"
}, {
```

Reference Standard Invocable Actions

```
"label" : "Send Email",
 "name" : "emailSimple",
  "type" : "EMAILSIMPLE",
  "url" : "/services/data/v55.0/actions/standard/emailSimple"
  "label" : "Submit for Approval",
  "name" : "submit",
  "type" : "SUBMITAPPROVAL",
  "url" : "/services/data/v55.0/actions/standard/submit"
}, {
  "label" : "Deactivate Session-Based Permission Set",
  "name" : "deactivateSessionPermSet",
  "type" : "DEACTIVATE SESSION PERM SET",
  "url" : "/services/data/v55.0/actions/standard/deactivateSessionPermSet"
  "label" : "Activate Session-Based Permission Set",
  "name" : "activateSessionPermSet",
  "type" : "ACTIVATE SESSION PERM SET",
  "url" : "/services/data/v55.0/actions/standard/activateSessionPermSet"
}, {
  "label" : "Choose Price Book",
  "name" : "choosePricebook",
  "type" : "CHOOSE PRICEBOOK",
 "url" : "/services/data/v55.0/actions/standard/choosePricebook"
}, {
  "label" : "Routing Address Verification",
  "name" : "routingAddressVerification",
  "type" : "ROUTING_ADDRESS_VERIFICATION",
  "url" : "/services/data/v55.0/actions/standard/routingAddressVerification"
}, {
  "label" : "Create Customer Contact Request",
  "name" : "contactRequestAction",
  "type" : "CONTACT_REQUEST_ACTION",
  "url" : "/services/data/v55.0/actions/standard/contactRequestAction"
  "label" : "Publish Managed Content Release",
  "name" : "managedContentReleasePublish",
  "type" : "MANAGED CONTENT RELEASE PUBLISH",
 "url" : "/services/data/v55.0/actions/standard/managedContentReleasePublish"
} ]
```

Get the attributes of a single standard action, for example, emailSimple

/services/data/v55.0/actions/standard/emailSimple

JSON Response body

```
{
"category" : "Email",
"description" : "Send an email where you specify the subject, body, and recipients.",
"inputs" : [ {
    "apexClass" : null,
    "byteLength" : 0,
    "description" : "Optional. The email recipients specified as a comma-separated list.",
```

Reference Standard Invocable Actions

```
"label" : "Email Addresses (comma-separated)",
 "maxOccurs" : 1,
 "name" : "emailAddresses",
 "picklistValues" : null,
 "required" : false,
 "sobjectType" : null,
 "type" : "STRING"
}, {
  "apexClass" : null,
 "byteLength" : 0,
 "description": "Optional. The email recipients specified as a collection of Strings.",
 "label" : "Email Addresses (collection)",
 "maxOccurs" : 5,
 "name" : "emailAddressesArray",
 "picklistValues" : null,
 "required" : false,
 "sobjectType" : null,
 "type" : "STRING"
}, {
 "apexClass" : null,
 "byteLength" : 0,
 "description": "Optional. Who the email is from. Defaults to the current user.",
 "label" : "Sender Type",
 "maxOccurs" : 1,
 "name" : "senderType",
 "picklistValues" : null,
 "required" : false,
 "sobjectType" : null,
 "type" : "STRING"
}, {
 "apexClass" : null,
 "byteLength" : 0,
 "description": "Optional. The org-wide email address to be used as the sender.",
 "label" : "Sender Address",
 "maxOccurs" : 1,
 "name" : "senderAddress",
 "picklistValues" : null,
 "required" : false,
 "sobjectType" : null,
 "type" : "STRING"
 "apexClass" : null,
 "byteLength" : 0,
 "description" : "Required. The email's subject.",
 "label" : "Subject",
 "maxOccurs" : 1,
 "name" : "emailSubject",
 "picklistValues" : null,
 "required" : true,
 "sobjectType" : null,
 "type" : "STRING"
}, {
  "apexClass" : null,
```

Reference Custom Invocable Actions

```
"byteLength" : 0,
 "description": "Required. The body of the email in plain text.",
 "label" : "Body",
 "maxOccurs" : 1,
 "name" : "emailBody",
 "picklistValues" : null,
 "required" : true,
 "sobjectType" : null,
 "type" : "TEXTAREA"
} ],
 "label" : "Send Email",
 "name" : "emailSimple",
 "outputs" : [ ],
 "standard" : true,
 "targetEntityName" : null,
 "type" : "EMAILSIMPLE"
```

Custom Invocable Actions

Returns the list of all custom actions. You can also get basic information for each type of action.

This resource is available in REST API version 32.0 and later.

Syntax

URI

Get a list of custom actions:

/services/data/v**XX.X**/actions/custom

Formats

JSON, XML

HTTP Methods

GET, HEAD, POST

Authentication

Authorization: Bearer token

Parameters

None

Notes

Sending email with the emailAlert action counts against your daily email limit for workflows. For more information, see "Daily Allocations for Email Alerts" in Salesforce Help.

When invoking an Apex action using the POST method and supplying the inputs in the request, only the following primitive types are supported as inputs:

- Blob
- Boolean
- Date
- Datetime
- Decimal

Reference List View Describe

- Double
- ID
- Integer
- Long
- String
- Time

Describe and invoke for an Apex action respect the profile access for the Apex class. If you don't have access an error is issued.

If you add an Apex action to a flow, and then remove the Invocable Method annotation from the Apex class, a runtime error in the flow occurs.

When a flow user invokes an autolaunched flow, the active flow version runs. If there's no active version, the latest version runs. When a flow admin invokes a flow, the latest version always runs.

If any of these elements are used in a flow, packageable components that reference the elements aren't automatically included in the package.

- Apex action
- Email alerts
- Post to Chatter core action
- Quick Action core action
- Send Email core action
- Submit for Approval core action

For example, if you use an email alert, manually add the email template that's used by that email alert. To deploy the package successfully, manually add those referenced components to the package.

Example

Retrieving a list of custom actions for the current organization:

```
/services/data/v55.0/actions/custom
```

JSON Response body

```
"quickAction" : "/services/data/v55.0/actions/custom/quickAction",
"apex" : "/services/data/v55.0/actions/custom/apex",
"emailAlert" : "/services/data/v55.0/actions/custom/emailAlert",
"flow" : "/services/data/v55.0/actions/custom/flow"
}
```

List View Describe

Returns detailed information about a list view, including the ID, the columns, and the SOQL guery.

This resource is available in REST API version 32.0 and later.

URI

/services/data/vXX.X/sobjects/sobjectType/listviews/queryLocator/describe

Formats

JSON, XML

List View Describe Reference

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

None



Example:

Retrieving information about a list view

curl https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeVAK/describe -H "Authorization: Bearer token"

JSON Response body

```
"columns" : [ {
 "ascendingLabel" : "Z-A",
 "descendingLabel" : "A-Z",
 "fieldNameOrPath" : "Name",
 "hidden" : false,
 "label" : "Account Name",
 "selectListItem" : "Name",
 "sortDirection" : "ascending",
  "sortIndex" : 0,
 "sortable" : true,
 "type" : "string"
 "ascendingLabel" : "Z-A",
 "descendingLabel" : "A-Z",
 "fieldNameOrPath" : "Site",
 "hidden" : false,
 "label" : "Account Site",
  "selectListItem" : "Site",
 "sortDirection" : null,
 "sortIndex" : null,
 "sortable" : true,
 "type" : "string"
}, {
 "ascendingLabel" : "Z-A",
 "descendingLabel" : "A-Z",
 "fieldNameOrPath" : "BillingState",
 "hidden" : false,
 "label" : "Billing State/Province",
 "selectListItem" : "BillingState",
 "sortDirection" : null,
 "sortIndex" : null,
 "sortable" : true,
 "type" : "string"
  "ascendingLabel" : "9-0",
  "descendingLabel" : "0-9",
```

Reference List View Describe

```
"fieldNameOrPath" : "Phone",
  "hidden" : false,
  "label" : "Phone",
 "selectListItem" : "Phone",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "phone"
}, {
  "ascendingLabel" : "Low to High",
  "descendingLabel" : "High to Low",
 "fieldNameOrPath" : "Type",
 "hidden" : false,
 "label" : "Type",
  "selectListItem" : "toLabel(Type)",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "picklist"
}, {
  "ascendingLabel" : "Z-A",
  "descendingLabel" : "A-Z",
 "fieldNameOrPath" : "Owner.Alias",
 "hidden" : false,
  "label" : "Account Owner Alias",
  "selectListItem" : "Owner.Alias",
 "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "string"
  "ascendingLabel" : null,
  "descendingLabel" : null,
  "fieldNameOrPath" : "Id",
  "hidden" : true,
 "label" : "Account ID",
 "selectListItem" : "Id",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : false,
  "type" : "id"
  "ascendingLabel" : null,
  "descendingLabel" : null,
 "fieldNameOrPath" : "CreatedDate",
 "hidden" : true,
 "label" : "Created Date",
  "selectListItem" : "CreatedDate",
  "sortDirection" : null,
 "sortIndex" : null,
  "sortable" : false,
  "type" : "datetime"
  "ascendingLabel" : null,
```

```
"descendingLabel" : null,
   "fieldNameOrPath" : "LastModifiedDate",
   "hidden" : true,
   "label" : "Last Modified Date",
    "selectListItem" : "LastModifiedDate",
    "sortDirection" : null,
    "sortIndex" : null,
   "sortable" : false,
   "type" : "datetime"
   "ascendingLabel" : null,
   "descendingLabel" : null,
   "fieldNameOrPath" : "SystemModstamp",
   "hidden" : true,
   "label" : "System Modstamp",
    "selectListItem" : "SystemModstamp",
   "sortDirection" : null,
   "sortIndex" : null,
   "sortable" : false,
   "type" : "datetime"
  } ],
 "id" : "00BD0000005WcBe",
  "orderBy" : [ {
   "fieldNameOrPath" : "Name",
    "nullsPosition" : "first",
    "sortDirection" : "ascending"
 }, {
    "fieldNameOrPath" : "Id",
   "nullsPosition" : "first",
    "sortDirection" : "ascending"
  "query" : "SELECT name, site, billingstate, phone, tolabel(type), owner.alias,
id, createddate, lastmodifieddate, systemmodstamp FROM Account WHERE CreatedDate =
THIS WEEK ORDER BY Name ASC NULLS FIRST, Id ASC NULLS FIRST",
 "scope" : null,
 "sobjectType" : "Account",
 "whereCondition" : {
   "field" : "CreatedDate",
   "operator" : "equals",
   "values" : [ "THIS WEEK" ]
}
```

List View Results

Executes the SOQL query for the list view and returns the resulting data and presentation information.

This resource is available in REST API version 32.0 and later.

URI

/services/data/vXX.X/sobjects/sobjectType/listviews/listViewID/results

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
limit	The maximum number of records to return, between 1-2000. The default value is 25.
offset	The first record to return. Use this parameter to paginate the results. The default value is 1.

Example:

Retrieving results from a specific list view

curl https://MyDamainName.my.salesforce.com/services/data/v55.0/sabjects/Account/listviews/00BD0000005WcOMAO/results -H "Authorization: Bearer token"

JSON Response body

```
"columns" : [ {
 "ascendingLabel" : "Z-A",
  "descendingLabel" : "A-Z",
  "fieldNameOrPath" : "Name",
 "hidden" : false,
 "label" : "Account Name",
  "selectListItem" : "Name",
  "sortDirection" : "ascending",
  "sortIndex" : 0,
  "sortable" : true,
  "type" : "string"
}, {
  "ascendingLabel" : "Z-A",
  "descendingLabel" : "A-Z",
 "fieldNameOrPath" : "Site",
  "hidden" : false,
  "label" : "Account Site",
  "selectListItem" : "Site",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "string"
}, {
  "ascendingLabel" : "Z-A",
  "descendingLabel" : "A-Z",
```

```
"fieldNameOrPath" : "BillingState",
  "hidden" : false,
  "label" : "Billing State/Province",
 "selectListItem" : "BillingState",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "string"
}, {
  "ascendingLabel" : "9-0",
  "descendingLabel" : "0-9",
 "fieldNameOrPath" : "Phone",
 "hidden" : false,
 "label" : "Phone",
  "selectListItem" : "Phone",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "phone"
}, {
  "ascendingLabel" : "Low to High",
  "descendingLabel" : "High to Low",
 "fieldNameOrPath" : "Type",
 "hidden" : false,
  "label" : "Type",
  "selectListItem" : "toLabel(Type)",
 "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "picklist"
  "ascendingLabel" : "Z-A",
  "descendingLabel" : "A-Z",
  "fieldNameOrPath" : "Owner.Alias",
  "hidden" : false,
 "label" : "Account Owner Alias",
 "selectListItem" : "Owner.Alias",
  "sortDirection" : null,
  "sortIndex" : null,
  "sortable" : true,
  "type" : "string"
  "ascendingLabel" : null,
  "descendingLabel" : null,
 "fieldNameOrPath" : "Id",
 "hidden" : true,
 "label" : "Account ID",
  "selectListItem" : "Id",
  "sortDirection" : null,
 "sortIndex" : null,
  "sortable" : false,
  "type" : "id"
}, {
  "ascendingLabel" : null,
```

```
"descendingLabel" : null,
 "fieldNameOrPath" : "CreatedDate",
 "hidden" : true,
 "label" : "Created Date",
 "selectListItem" : "CreatedDate",
 "sortDirection" : null,
  "sortIndex" : null,
 "sortable" : false,
 "type" : "datetime"
 "ascendingLabel" : null,
 "descendingLabel" : null,
 "fieldNameOrPath" : "LastModifiedDate",
 "hidden" : true,
 "label" : "Last Modified Date",
  "selectListItem" : "LastModifiedDate",
 "sortDirection" : null,
 "sortIndex" : null,
 "sortable" : false,
 "type" : "datetime"
 "ascendingLabel" : null,
 "descendingLabel" : null,
 "fieldNameOrPath" : "SystemModstamp",
 "hidden" : true,
 "label" : "System Modstamp",
 "selectListItem" : "SystemModstamp",
 "sortDirection" : null,
 "sortIndex" : null,
 "sortable" : false,
 "type" : "datetime"
"developerName" : "MyAccounts",
"done" : true,
"id" : "00BD000005WcCN",
"label" : "My Accounts",
"records" : [ {
 "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "Burlington Textiles Corp of America"
   "fieldNameOrPath" : "Site",
   "value" : null
    "fieldNameOrPath" : "BillingState",
   "value" : "NC"
    "fieldNameOrPath" : "Phone",
   "value" : "(336) 222-7000"
   "fieldNameOrPath" : "Type",
    "value" : "Customer - Direct"
 }, {
    "fieldNameOrPath" : "Owner.Alias",
```

```
"value" : "TUser"
 }, {
   "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSTIAZ"
  }, {
    "fieldNameOrPath" : "CreatedDate",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
    "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
   "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "Dickenson plc"
 }, {
   "fieldNameOrPath" : "Site",
   "value" : null
    "fieldNameOrPath" : "BillingState",
    "value" : "KS"
 }, {
    "fieldNameOrPath" : "Phone",
   "value" : "(785) 241-6200"
 }, {
   "fieldNameOrPath" : "Type",
   "value" : "Customer - Channel"
    "fieldNameOrPath" : "Owner.Alias",
    "value" : "TUser"
  }, {
    "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSVIAZ"
  }, {
   "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
   "fieldNameOrPath" : "LastModifiedDate",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
  }, {
    "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "Edge Communications"
    "fieldNameOrPath" : "Site",
    "value" : null
 }, {
```

```
"fieldNameOrPath" : "BillingState",
   "value" : "TX"
   "fieldNameOrPath" : "Phone",
   "value" : "(512) 757-6000"
 } , {
    "fieldNameOrPath" : "Type",
   "value" : "Customer - Direct"
 }, {
   "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
   "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSSIAZ"
    "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 }, {
   "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
   "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "Express Logistics and Transport"
 }, {
    "fieldNameOrPath" : "Site",
   "value" : null
 }, {
   "fieldNameOrPath" : "BillingState",
   "value" : "OR"
 }, {
    "fieldNameOrPath" : "Phone",
   "value" : "(503) 421-7800"
    "fieldNameOrPath" : "Type",
   "value" : "Customer - Channel"
  }, {
   "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
 }, {
    "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSXIAZ"
    "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
  }, {
   "fieldNameOrPath" : "LastModifiedDate",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
 }, {
    "fieldNameOrPath" : "SystemModstamp",
```

```
"value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
 "columns" : [ {
   "fieldNameOrPath" : "Name",
    "value" : "GenePoint"
 }, {
    "fieldNameOrPath" : "Site",
   "value" : null
   "fieldNameOrPath" : "BillingState",
   "value" : "CA"
    "fieldNameOrPath" : "Phone",
    "value" : "(650) 867-3450"
 }, {
    "fieldNameOrPath" : "Type",
   "value" : "Customer - Channel"
 }, {
   "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
    "fieldNameOrPath" : "Id",
    "value" : "001D000000JliSPIAZ"
 }, {
    "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 }, {
   "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
   "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "Grand Hotels and Resorts Ltd"
 }, {
   "fieldNameOrPath" : "Site",
   "value" : null
  }, {
    "fieldNameOrPath" : "BillingState",
    "value" : "IL"
 }, {
    "fieldNameOrPath" : "Phone",
   "value" : "(312) 596-1000"
 }, {
   "fieldNameOrPath" : "Type",
   "value" : "Customer - Direct"
    "fieldNameOrPath" : "Owner.Alias",
    "value" : "TUser"
  }, {
```

```
"fieldNameOrPath" : "Id",
   "value" : "001D000000JliSWIAZ"
   "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } , {
    "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 }, {
   "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
    "value" : "Pyramid Construction Inc."
 }, {
    "fieldNameOrPath" : "Site",
   "value" : null
 }, {
    "fieldNameOrPath" : "BillingState",
   "value" : null
 }, {
    "fieldNameOrPath" : "Phone",
    "value" : "(014) 427-4427"
  }, {
    "fieldNameOrPath" : "Type",
   "value" : "Customer - Channel"
    "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
 }, {
   "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSUIAZ"
 }, {
    "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
    "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 }, {
   "fieldNameOrPath" : "SystemModstamp",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
  } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "sForce"
   "fieldNameOrPath" : "Site",
   "value" : null
  }, {
    "fieldNameOrPath" : "BillingState",
    "value" : "CA"
```

```
"fieldNameOrPath" : "Phone",
   "value" : "(415) 901-7000"
   "fieldNameOrPath" : "Type",
    "value" : null
 }, {
    "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
   "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSaIAJ"
    "fieldNameOrPath" : "CreatedDate",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
 }, {
    "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
  }, {
   "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "United Oil and Gas Corp."
 }, {
   "fieldNameOrPath" : "Site",
   "value" : null
   "fieldNameOrPath" : "BillingState",
   "value" : "NY"
  }, {
    "fieldNameOrPath" : "Phone",
    "value" : "(212) 842-5500"
  }, {
    "fieldNameOrPath" : "Type",
   "value" : "Customer - Direct"
 }, {
   "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
  }, {
    "fieldNameOrPath" : "Id",
    "value" : "001D00000JliSZIAZ"
  }, {
    "fieldNameOrPath" : "CreatedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
  }, {
   "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
    "fieldNameOrPath" : "SystemModstamp",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
  } ]
```

```
"columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "United Oil and Gas, Singapore"
 }, {
   "fieldNameOrPath" : "Site",
    "value" : null
  }, {
    "fieldNameOrPath" : "BillingState",
   "value" : "Singapore"
 }, {
   "fieldNameOrPath" : "Phone",
   "value" : "(650) 450-8810"
 }, {
    "fieldNameOrPath" : "Type",
    "value" : "Customer - Direct"
  }, {
    "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
 }, {
    "fieldNameOrPath" : "Id",
   "value" : "001D000000JliSRIAZ"
 }, {
    "fieldNameOrPath" : "CreatedDate",
    "value" : "Fri Aug 01 21:15:46 GMT 2014"
  }, {
    "fieldNameOrPath" : "LastModifiedDate",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
    "fieldNameOrPath" : "SystemModstamp",
   "value" : "Fri Aug 01 21:15:46 GMT 2014"
 } ]
}, {
  "columns" : [ {
   "fieldNameOrPath" : "Name",
   "value" : "United Oil and Gas, UK"
 }, {
   "fieldNameOrPath" : "Site",
   "value" : null
   "fieldNameOrPath" : "BillingState",
   "value" : "UK"
  }, {
    "fieldNameOrPath" : "Phone",
   "value" : "+44 191 4956203"
  }, {
    "fieldNameOrPath" : "Type",
   "value" : "Customer - Direct"
   "fieldNameOrPath" : "Owner.Alias",
   "value" : "TUser"
  }, {
    "fieldNameOrPath" : "Id",
    "value" : "001D000000JliSQIAZ"
```

Reference List Views

```
"fieldNameOrPath" : "CreatedDate",
     "value" : "Fri Aug 01 21:15:46 GMT 2014"
      "fieldNameOrPath" : "LastModifiedDate",
      "value" : "Fri Aug 01 21:15:46 GMT 2014"
   }, {
      "fieldNameOrPath" : "SystemModstamp",
     "value" : "Fri Aug 01 21:15:46 GMT 2014"
   } ]
 }, {
   "columns" : [ {
     "fieldNameOrPath" : "Name",
     "value" : "University of Arizona"
   }, {
      "fieldNameOrPath" : "Site",
     "value" : null
   }, {
     "fieldNameOrPath" : "BillingState",
     "value" : "AZ"
     "fieldNameOrPath" : "Phone",
     "value" : "(520) 773-9050"
      "fieldNameOrPath" : "Type",
      "value" : "Customer - Direct"
   }, {
     "fieldNameOrPath" : "Owner.Alias",
     "value" : "TUser"
   }, {
     "fieldNameOrPath" : "Id",
     "value" : "001D000000JliSYIAZ"
      "fieldNameOrPath" : "CreatedDate",
      "value" : "Fri Aug 01 21:15:46 GMT 2014"
   }, {
      "fieldNameOrPath" : "LastModifiedDate",
     "value" : "Fri Aug 01 21:15:46 GMT 2014"
   }, {
     "fieldNameOrPath" : "SystemModstamp",
     "value" : "Fri Aug 01 21:15:46 GMT 2014"
   } ]
 } ],
 "size" : 12
}
```

List Views

Returns the list of list views for the specified sObject, including the ID and other basic information about each list view. You can also get basic information for a specific list view by ID.

This resource is available in REST API version 32.0 and later.

List Views Reference

URI

Get a list of list views:

/services/data/vXX.X/sobjects/sobjectType/listviews

Get basic information about one list view:

/services/data/vXX.X/sobjects/sobjectType/listviews/listViewID

Available since release

310

Formats

JSON, XML

HTTP Methods

GET

Authentication

Authorization: Bearer token

Parameters

None



Example:

Retrieving a list of list views for the Account object

```
curl
https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Account/listviews
-H "Authorization: Bearer token"
```

JSON Response body

```
{
 "done" : true,
 "listviews" : [ {
   "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK/describe",
   "developerName" : "NewThisWeek",
   "id" : "00BD000005WcBeMAK",
   "label" : "New This Week",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK/results",
   "soqlCompatible" : true,
   "url": "/services/data/v55.0/sobjects/Account/listviews/00BD000005WcBeMAK"
 }, {
    "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBpMAK/describe",
   "developerName" : "NewLastWeek",
   "id" : "00BD000005WcBpMAK",
   "label" : "New Last Week",
   "resultsUrl":
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBpMAK/results",
   "soqlCompatible" : true,
    "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBpMAK"
   "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcC6MAK/describe",
```

Reference List Views

```
"developerName" : "PlatinumandGoldSLACustomers",
   "id" : "00BD0000005WcC6MAK",
   "label" : "Platinum and Gold SLA Customers",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcC6MAK/results",
    "soglCompatible" : true,
    "url": "/services/data/v55.0/sobjects/Account/listviews/00BD000005WcC6MAK"
    "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCEMA0/describe",
   "developerName" : "RecentlyViewedAccounts",
   "id" : "00BD0000005WcCEMA0",
   "label" : "Recently Viewed Accounts",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCEMA0/results",
    "soqlCompatible" : true,
   "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCEMA0"
 }, {
   "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCFMA0/describe",
   "developerName" : "AllAccounts",
   "id" : "00BD000005WcCFMA0",
   "label" : "All Accounts",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCFMA0/results",
   "soqlCompatible" : true,
   "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCFMA0"
 }, {
    "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCNMA0/describe",
   "developerName" : "MyAccounts",
   "id" : "00BD0000005WcCNMA0",
   "label" : "My Accounts",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCNMA0/results",
   "soglCompatible" : true,
   "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCNMA0"
 "nextRecordsUrl" : null,
 "size" : 6,
 "sobjectType" : "Account"
```

Retrieving basic information about one list view

Use the ID of a list view to get basic information about a specific list view.

```
curl
https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK
-H "Authorization: Bearer token"
```

JSON Response body

```
{
  "describeUrl" :
  "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK/describe",
```

```
"developerName" : "NewThisWeek",
  "id" : "00BD0000005WcBeMAK",
  "label" : "New This Week",
  "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK/results",
  "soqlCompatible" : true,
  "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK"
}
```

Support Knowledge with REST API

Knowledge Support REST APIs allow both authorized and guest users to retrieve the user's visible data categories and their associated articles.

Authenticated users need the UserProfile.apiEnabled permission, Knowledge enabled in the organization, read rights on the article type, and any other knowledge specific permission or preference that controls visibility to articles.

Guest users need the Guest Access to the Support API preference enabled on the relevant Site, Knowledge enabled in the organization, and read rights on the article type and article channel that controls the visibility for guest users.

Syntax

The root endpoint for all Knowledge support APIs that can be open to guest users.

Available since release

38.0

Method

GET

Formats

JSON, XML

Authentication

OAuth accesstoken

Endpoint

/services/data/vXX.X/support

HTTP headers

Accept: Optional. Can be either application/json or application/xml.

Input

None

Output

The following resources are related to Knowledge.

```
{
"dataCategoryGroups" : "/services/data/vXX.X/support/dataCategoryGroups",
"knowledgeArticles" : "/services/data/vXX.X/support/knowledgeArticles"
:
}
```

Where $\forall XX.X$ is the API version you requested.

Reference Data Category Groups

IN THIS SECTION:

Data Category Groups

Get data category groups that are visible to the current user.

Data Category Detail

Gets data category details and the child categories by a given category.

Articles List

Get a page of online articles for the given language and category through either search or guery.

Articles Details

Gets all online article fields, accessible to the user.

Data Category Groups

Get data category groups that are visible to the current user.

Syntax

Available since release

38.0

Method

GET

Formats

JSON, XML

Authentication

OAuth accesstoken

Endpoint

/services/data/v**XX.X**/support/dataCategoryGroups

HTTP headers

Accept: Optional. Can be either application/json or application/xml.

Accept-language: Optional. Language to translate the categories. Any ISO-639 language abbreviation, and an ISO-3166 country code subtag in the HTTP Accept-Language header. Only one language accepted. If no language specified, the non-translated labels are returned.

Input:

string sObjectName: Required. KnowledgeArticleVersion only.

boolean topCategoriesOnly: Optional. Defaults to true

- True returns only the top level categories.
- False returns the entire tree.
- Note: All the input parameters are case-sensitive.

Output:

A list of the active data category groups that are visible to the current user in the site context. Returns id, name, label, and their top level categories or the entire data category group tree that are visible to the current user. The labels must be translated to the given language if they are available.

Data Category Group List

Reference Data Category Groups

This payload lists the active root Data Category Groups that can be used in other requests to return the data categories and articles related to it.

```
{
    "categoryGroups": [ Data Category Group, ....],
}
```

Note: Returns only the active groups that are associated to the given entity (by sObjectName). Only KnowledgeArticleVersion is supported.

Data Category Group

This represents an individual data category group, and its root category.

```
"name": String, // the unique name of the category group
"label": String, // returns the translated version if it is available
"objectUsage" : String, // currently only "KnowledgeArticleVersion" is available.

"topCategories": [ Data Category Summary, ....]
}
```

Data Category Summary

This provides a summary of data category information. The Summary and Detail responses share common properties, with the goal of providing only as much information as is necessary from associated resources.

```
"name": String, // the unique name of the category
  "label": String, // returns the translated version if it is available
  "url": URL, // the url points to the data category detail API
  "childCategories": [ Data Category Summary, ....] // null if topCategoriesOnly is
true
}
```



Note: The URL property is a pre-calculated path to the unique resource representing this data category, in this case it is a Data Category Detail API.

Example

Input

/services/data/v55.0/support/dataCategoryGroups?sObjectName=KnowledgeArticleVersion

Output

```
"categoryGroups" : [ {
  "label" : "Doc",
  "name" : "Doc",
  "objectUsage" : "KnowledgeArticleVersion",
  "topCategories" : [ {
      "childCategories" : null,
      "label" : "All",
      "name" : "All",
      "url" :
```

Reference Data Category Detail

Usage

Salesforce Knowledge must be enabled in your organization. This resource can be used in API version 38.0 and later. Use the language code format used in *Which Languages Does Salesforce Support?*.

Only the user's visible data categories are returned. A user might be able to see several sub trees in the category group, therefore, the top categories that are visible to the user in each group are returned.

Data Category Detail

Gets data category details and the child categories by a given category.

Syntax

Available since release

38.0

Method

GET

Formats

JSON, XML

Authentication

OAuth accesstoken

Endpoint

/services/data/vXX.X/support/dataCategoryGroups/group/dataCategories/category

HTTP headers

Accept: Optional. Can be either application/json or application/xml.

Accept-language: Optional. Language to translate the categories. Any ISO-639 language abbreviation, and an ISO-3166 country code subtag in the HTTP Accept-Language header. Only one language accepted. If no language specified, the non-translated labels are returned.

Reference Data Category Detail

Input:

string sObjectName: Required. KnowledgeArticleVersion only.

Output:

Details of the category and a list of child categories (name, label, etc.).

Data Category Detail

Used for situations where the hierarchical representation of data categories is important. The child property contains a list of child data categories.

```
"name": String, // the unique name of the category
"label": String, // returns the translated version if it is available
"url": URL,
"childCategories": [ Data Category Summary, ....],
}
```

Note: If the category isn't visible to the current user the return is empty.

Example

Input

/services/data/v55.0/support/dataCategoryGroups/Doc/dataCategories/All?sObjectName=KnowledgeArticleVersion

Output

```
{
  "childCategories" : [ {
     "childCategories" : null,
     "label" : "Help",
     "name" : "Help",
     "url" :
  "/services/data/v55.0/support/dataCategoryGroups/Doc/dataCategories/Help?sObjectName=KnowledgeArticleVersion"
  }, {
     "childCategories" : null,
     "label" : "QA",
     "name" : "QA",
     "url" :
     "/services/data/v55.0/support/dataCategoryGroups/Doc/dataCategories/QA?sObjectName=KnowledgeArticleVersion"
  } ],
     "label" : "All",
     "name" : "All",
     "url" :
     "/services/data/v55.0/support/dataCategoryGroups/Doc/dataCategories/All?sObjectName=KnowledgeArticleVersion"
}
```

Usage

Salesforce Knowledge must be enabled in your organization. This resource can be used in API version 38.0 and later. Use the language code format used in *Which Languages Does Salesforce Support?*.

Articles List

Get a page of online articles for the given language and category through either search or guery.

Syntax

Available since release

38.0

Method

GET

Formats

JSON, XML

Authentication

OAuth access token

Endpoint

/services/data/v**XX.X**/support/knowledgeArticles

HTTP headers

Accept: Optional. Can be either application/json or application/xml.

Accept-language: Required. The article must be an active language in the user's organization

- If the language code isn't valid, an error message is returned: "The language code is not valid or not supported by Knowledge."
- If the language code is valid, but not supported by Knowledge, then an error message is returned: "Invalid language code. Check that the language is included in your Knowledge language settings."

Input:

string q: Optional, Performs an SOSL search. If the query string is null, empty, or not given, an SOQL query runs.

The characters ? and * are used for wildcard searches. The characters (,), and " are used for complex search terms. See https://developer.salesforce.com/docs/atlas.en-us.sogl sosl.meta/sogl sosl/sforce api calls sosl find.htm.

string channel: Optional, defaults to user's context. For information on channel values, see Valid channel values.

- **App**: Visible in the internal Salesforce Knowledge application
- **Pkb**: Visible in the public knowledge base
- **Csp**: Visible in the Customer Portal
- **Prm**: Visible in the Partner Portal

string categories in map json format {"group1":"category1", "group2":"category2",...})

Optional, defaults to None. Category group must be unique in each group:category pair, otherwise you get ARGUMENT_OBJECT_PARSE_ERROR. There is a limit of three data category conditions, otherwise you get INVALID FILTER VALUE.

string queryMethod values are: AT, BELOW, ABOVE, ABOVE_OR_BELOW. Only valid when categories are specified, defaults to ABOVE OR BELOW.

string sort: Optional, a sortable field name LastPublishedDate, CreatedDate, Title, ViewScore. Defaults to LastPublishedDate for query and relevance for search.

Note: When sorting on ViewScore it is only available for query, not search, and no pagination is supported. You only get one page of results.

string order: Optional, either ASC or DESC, defaults to DESC. Valid only when sort is valid.

integer pageSize: Optional, defaults to 20. Valid range 1 to 100.

integer pageNumber: Optional, defaults to 1.

Output:

A page of online articles in the given language and category visible to the current user.

Article Page

A page of articles. The individual entries are article summaries so the size can be kept at a minimum.

```
"articles": [ Article Summary, ... ], // list of articles
   "currentPageUrl": URL, // the article list API with current page number
   "nextPageUrl": URL, // the article list API with next page number,
   which can be null if there are no more articles.
   "pageNumber": Int // the current page number, starting at 1.
}
```

- Note: The API supports paging. Each page of responses includes a URL to its page, as well as the URL to the next page of articles.
- Note: if the user input parameter has the default value, the API does not show this parameter in either currentPageUrl or nextPageUrl.

Article Summary

A summary of an article used in a list of article responses. It shares similar properties to the Article Detail representation, as one is a superset of the other.

```
"id": Id.
                 // articleId
    "articleNumber": String,
    "articleType": String, // apiName of the article type, available in API v44.0
and later
    "title": String,
    "urlName": String, // available in API v44.0 and later
    "summary": String,
    "url": URL, // to the Article Detail API
    "viewCount": Int,
                           // view count in the interested channel
    "viewScore": double (in xxx.xxxx precision), // view score in the interested
channel.
    "upVoteCount": int, // up vote count in the interested channel.
    "downVoteCount": int, // down vote count in the interested channel.
    "lastPublishedDate": Date // last publish date in ISO8601 format
    "categoryGroups": [ Data Category Group, .... ]}
```

The "url" property always points to the Article Details resource endpoint. For information on valid channel values, see the channel parameter description

Data Category Group

An individual data category group, its root category, and a list of selected data categories in the group.

```
"groupName": String, // the unique name of the category group
"groupLabel": String, // returns the translated version
"selectedCategories": [ Data Category Summary, ... ]
}
```

Data Category Summary

Provides a summary of data category information. The Summary and Detail responses share common properties.



Note: The outputs of Data Category Group and Data Category Summary in Article List API are different from the Data Category Groups API.

Example

Input

```
/services/data/v55.0/support/knowledgeArticles?sort=ViewScore&channel=Pkb&pageSize=3
HTTP Headers:
Content-Type: application/json; charset=UTF-8
Accept: application/json
Accept-Language: en-US
```

Output

```
"articles" : [ {
"articleNumber" : "000001002",
"categoryGroups" : [ ],
"downVoteCount" : 0,
"id" : "kA0xx00000000BCAQ",
"lastPublishedDate" : "2015-02-25T02:07:18Z",
"summary" : "With this online Chinese input tool, you can type Chinese characters
through your web browser without installing any Chinese input software in your system.
The Chinese online input tool uses the popular Pin Yin input method. It is a fast and
convenient tool to input Chinese on English OS environments.",
"title" : "Long text test",
"upVoteCount" : 0,
"url" : "/services/data/v55.0/support/knowledgeArticles/kA0xx00000000BCAQ",
"viewCount" : 4,
"viewScore" : 100.0
}, {
"articleNumber" : "000001004",
"categoryGroups" : [ ],
"downVoteCount" : 0,
"id" : "kA0xx00000000LCAQ",
"lastPublishedDate" : "2016-06-21T21:11:02Z",
"summary": "The number of characters required for complete coverage of all these
languages' needs cannot fit in the 256-character code space of 8-bit character encodings,
requiring at least a 16-bit fixed width encoding or multi-byte variable-length encodings.
\r\n\r\nAlthough CJK encodings have common character sets, the encodings often used to
represent them have been developed separately by different East Asian governments and
software companies, and are mutually incompatible. Unicode has attempted, with some
controversy, to unify the character sets in a process known as Han unification.\r \n \
```

```
character encodings should consist minimally of Han characters p",
"title" : "Test Images",
"upVoteCount" : 0,
"url" : "/services/data/v55.0/support/knowledgeArticles/kA0xx00000000LCAQ",
"viewCount" : 0,
"viewScore" : 0.0
"articleNumber" : "000001012",
"categoryGroups" : [ ],
"downVoteCount" : 0,
"id" : "kA0xx00000006GCAQ",
"lastPublishedDate" : "2016-06-21T21:10:48Z",
"summary" : null,
"title" : "Test Draft 2",
"upVoteCount" : 0,
"url": "/services/data/v55.0/support/knowledgeArticles/kA0xx00000006GCAQ",
"viewCount" : 0,
"viewScore" : 0.0
} ],
"currentPageUrl" :
"/services/data/v55.0/support/knowledgeArticles?channel=Pkb&pageSize=3&sort=ViewScore",
"nextPageUrl" : null,
"pageNumber" : 1
```

Usage

Salesforce Knowledge must be enabled in your organization. This resource can be used in API version 38.0 and later. The Custom File Field is not supported because it returns a link to a binary stream. Use the language code format used in *Which Languages Does Salesforce Support?*.

Valid channel Values

- When using the options string channel, where the matching articles are visible, the following values are valid.
 - App-Visible in the internal Salesforce Knowledge application
 - Pkb-Visible in the public knowledge base
 - Csp-Visible in the Customer Portal
 - Prm—Visible in the Partner Portal
- If channel isn't specified, the default value is determined by the type of user.
 - Pkb for a guest user
 - Csp for a Customer Portal user
 - Prm for a Partner Portal user
 - App for any other type of user
- If channel is specified, the specified value may be used to retrieve articles.
 - For guest, Customer Portal, and Partner Portal users, if the specified channel is other than the channel accessible to the user, an error is returned.
 - For all users other than guest, Customer Portal, and Partner Portal users, the specified channel value is used.

Reference Articles Details

Articles Details

Gets all online article fields, accessible to the user.

Syntax

Available since release

38.0

Method

GET

Formats

JSON, XML

Authentication

OAuth access token

Endpoint

/services/data/vXX.X/support/knowledgeArticles/articleId

 $/services/data/v\textbf{\textit{XX}}.\textbf{\textit{X}}/support/knowledgeArticles/\textbf{\textit{articleUrlName}}\ A Vailable\ in\ API\ v44.0\ and\ later$

HTTP headers

Accept: Optional. Can be either application/json or application/xml.

Accept-language: Required. The article must be an active language in the user's organization

- If the language code isn't valid, an error message is returned: "The language code is not valid or not supported by Knowledge."
- If the language code is valid, but not supported by Knowledge, then an error message is returned: "Invalid language code. Check that the language is included in your Knowledge language settings."

Input:

string channel: Optional, defaults to user's context. For information on channel values, see Valid channel Values.

- **App**: Visible in the internal Salesforce Knowledge application
- **Pkb**: Visible in the public knowledge base
- **Csp**: Visible in the Customer Portal
- **Prm**: Visible in the Partner Portal

boolean updateViewStat: Optional, defaults to true. If true, API updates the view count in the given channel as well as the total view count.

boolean isUrlName: Optional, defaults to false. If true, indicates that the last portion of the endpoint is a URL name instead of an article ID. Available in API v44.0 and later

Output:

The detailed fields of the article, if the article is online and visible to the current user.

Article Detail

Full detail of an article, with complete metadata and layout-driven fields used for display of an article. It includes all the same properties as an Article Summary representation.

Reference Articles Details

```
v44.0 and later
         "title": String,
         "urlName": String, // available in API v44.0 and later
         "summary": String,
         "url": URL,
         "versionNumber": Int,
         "createdDate": Date, // in ISO8601 format
         "createdBy": User Summary on page 213,
         "lastModifiedDate": Date, // in ISO8601 format
         "lastModifiedBy": User Summary on page 213,
         "lastPublishedDate": Date, // in ISO8601 format
        "layoutItems": [ Article Field, ... ], // standard and custom fields visible
 to the user, sorted based on the layouts of the article type.
         "categories": [ Data Category Groups, ... ],
         "appUpVoteCount": Int,
         "cspUpVoteCount": Int,
         "prmUpVoteCount": Int,
         "pkbUpVoteCount": Int,
         "appDownVoteCount": Int,
         "cspDownVoteCount": Int,
         "prmDownVoteCount": Int,
         "pkbDownVoteCount": Int,
         "allViewCount": Int,
         "appViewCount": Int,
         "cspViewCount": Int,
         "prmViewCount": Int,
         "pkbViewCount": Int,
         "allViewScore": Double,
         "appViewScore": Double,
         "cspViewScore": Double,
         "prmViewScore": Double,
         "pkbViewScore": Double
```

User Summary

Article Field

An individual field of article information, which is listed in an Article Detail in the order required by the administrator's layout.

Reference Articles Details

Example

Input

```
/services/data/v55.0/support/knowledgeArticles/kA0xx00000000LCAQ
HTTP Headers:
Content-Type: application/json; charset=UTF-8
Accept: application/json
Accept-Language: en-US
```

Output

```
"allViewCount" : 17,
"allViewScore" : 100.0,
"appDownVoteCount" : 0,
"appUpVoteCount" : 0,
"appViewCount" : 17,
"appViewScore" : 100.0,
"articleNumber" : "000001004",
"categoryGroups" : [ ],
"createdBy" : {
"email" : "user@company.com",
"firstName" : "Test",
"id" : "005xx000001SvoMAAS",
"isActive" : true,
"lastName" : "User",
"url" : "/services/data/v55.0/chatter/users/005xx000001SvoMAAS",
"userName" : "admin@salesforce.org"
},
"createdDate": "2016-06-21T21:10:54Z",
"cspDownVoteCount" : 0,
"cspUpVoteCount" : 0,
"cspViewCount" : 0,
"cspViewScore" : 0.0,
"id" : "kA0xx00000000LCAQ",
"lastModifiedBy" : {
"email" : "user@company.com",
"firstName" : "Test",
"id" : "005xx000001SvoMAAS",
"isActive" : true,
"lastName" : "User",
"url" : "/services/data/v55.0/chatter/users/005xx000001SvoMAAS",
"userName" : "admin@salesforce.org"
"lastModifiedDate" : "2016-06-21T21:11:02Z",
"lastPublishedDate" : "2016-06-21T21:11:02Z",
"layoutItems" : [ {
"label" : "Out of Date",
"name" : "IsOutOfDate",
```

Reference Articles Details

```
"type" : "CHECKBOX",
       "value" : "false"
       "label" : "sample",
       "name" : "sample",
       "type" : "PICK LIST",
       "value" : null
       }, {
       "label" : "Language",
       "name" : "Language",
       "type" : "PICK LIST",
       "value" : "en US"
       }, {
       "label" : "MyNumber",
       "name" : "MyNumber",
       "type" : "NUMBER",
       "value" : null
       }, {
       "label" : "My File",
       "name" : "My File",
       "type" : "FILE",
       "value" : null
       } ],
       "pkbDownVoteCount" : 0,
       "pkbUpVoteCount" : 0,
       "pkbViewCount" : 0,
       "pkbViewScore" : 0.0,
       "prmDownVoteCount" : 0,
       "prmUpVoteCount" : 0,
       "prmViewCount" : 0,
       "prmViewScore" : 0.0,
      "summary": "The number of characters required for complete coverage of all these
languages' needs cannot fit in the 256-character code space of 8-bit character encodings,
requiring at least a 16-bit fixed width encoding or multi-byte variable-length encodings.
\r\n\r\nAlthough CJK encodings have common character sets, the encodings often used to
represent them have been developed separately by different East Asian governments and
software companies, and are mutually incompatible. Unicode has attempted, with some
controversy, to unify the character sets in a process known as Han unification.\r\n\r\nCJK
 character encodings should consist minimally of Han characters p",
       "title" : "Test Images",
       "url" : "/services/data/v55.0/support/knowledgeArticles/kA0xx00000000LCAQ",
       "versionNumber" : 7
       }
```

Usage

Salesforce Knowledge must be enabled in your organization. This resource can be used in API version 38.0 and later. The Custom File Field is not supported because it returns a link to a binary stream. Use the language code format used in *Which Languages Does Salesforce Support?*.

A lookup custom field is visible to guest users depending on the lookup entity type. For example, User is visible, but Case and Account are not visible. Following standard fields are not visible to a guest user, even if they are in the layout:

archivedBy

- isLatestVersion
- translationCompletedDate
- translationImportedDate
- translationExportedDate
- versionNumber
- visibleInInternalApp
- visibleInPKB
- visibleToCustomer
- visbileToPartner

Valid channel Values

- When using the options string channel, where the matching articles are visible, the following values are valid.
 - App-Visible in the internal Salesforce Knowledge application
 - Pkb-Visible in the public knowledge base
 - Csp-Visible in the Customer Portal
 - Prm-Visible in the Partner Portal
- If channel isn't specified, the default value is determined by the type of user.
 - Pkb for a guest user
 - Csp for a Customer Portal user
 - Prm for a Partner Portal user
 - App for any other type of user
- If channel is specified, the specified value may be used to retrieve articles.
 - For guest, Customer Portal, and Partner Portal users, if the specified channel is other than the channel accessible to the user, an error is returned.
 - For all users other than quest, Customer Portal, and Partner Portal users, the specified channel value is used.

Parameterized Search

Executes a simple RESTful search using parameters instead of a SOSL clause. Indicate parameters in a URL in the GET method. Or, use POST for more complex JSON searches.

Syntax

URI

/services/data/vXX.X/parameterizedSearch/?q=searchString

Formats

JSON, XML

HTTP Method

GET, POST

Authentication

Authorization: Bearer token

Required Global Parameters

Name	Description
q	A search string that is properly URL-encoded.
	Note: SOSL clauses aren't supported.
	Available in version 36.0 and later.

Optional Global Parameters

Name	Туре	Supported Methods	Description
dataCategory	string	GET	Single value. If an organization uses Salesforce Knowledge articles or answers, dataCategory filters all search results based on one data category.
			For example, dataCategory=GlobalCategoryc below NorthAmericac.
			When using dataCategories, specify a Salesforce Knowledge article or answer type with sobject and all the required parameters.
			For example:
			q=tourism&sobject=KnowledgeArticleVersion&KnowledgeArticleVersion.where=language='en_US'+and+publishStatus='online'&KnowledgeArticleVersion.fields=id,title&dataCategory=Locationc+Below+North_Americac
			If you require multiple dataCategory filters, use dataCategories with the POST method.
dataCategories	dataCategoriesFilter[]	POST	If an organization uses Salesforce Knowledge articles or answers, filters all search results based on one or more data categories.
			When using dataCategories, specify a Salesforce Knowledge article or answer type with sobjects and the required parameters. For example:
			<pre>{ "q":"Acme", "fields":["id", "title"], "sobjects":[{"name":"KnowledgeArticleVersion", "where":"language='en_US' and publishstatus='draft'"}], "dataCategories":[{"groupName" : "locationc", "operator":"below", "categories":["North_Americac"]}</pre>

Name	Туре	Supported Methods	Description
			}
defaultLimit	string	GET, POST	Single value. The maximum number of results to return for each sobject (GET) or sobjects (POST) specified.
			The maximum defaultLimit is 2000.
			At least one sobject must be specified.
			GET example: defaultLimit=10&sobject=Account&sobject=Contact.
			When an sobject limit is specified using <code>sobject.limit=value</code> , such as <code>Account.limit=10</code> , this parameter is ignored for that object.
division	string	GET,	Single value. Filters search results based on the division field.
		POST	For example in the GET method, division=global.
			Specify a division by its name rather than ID.
			All searches within a specific division also include the global division.
fields	string	GET	Comma-separated list of one or more fields to return in the response for each sobject specified. At least one sobject must be specified at the global level.
			For example: fields=id&sobject=Account&sobject=Contact.
			The global fields parameter is overridden when sobject are specified using sobject.fields=field names. For example,
			Contact.fields=id, FirstName, LastName would override the global setting of just returning the id.
			If unspecified, then the search results contain the IDs of records matching all fields for the specified object.
			Functions
			The following optional functions can be used within the fields parameter.
			 toLabel:Translates response field value into the user's language. For example, Lead.fields=id, toLabel (Status). This function requires extra setup.
			• convertCurrency: Converts response currency fields to the user's currency. For example,
			Opportunity.fields=id, convertCurrency (Amount). This function requires extra setup. Multi-currency must be enabled for your org.
			 format: Applies localized formatting to standard and custom number, date, time, and currency fields. For example, Opportunity.fields=id, format (Amount).
			Aliasing is support within fields for toLabel, convertCurrency, and format. In addition, aliasing is required when the query includes the same field

Name	Туре	Supported Methods	Description
			<pre>multiple times. For example, Opportunity.fields=id, format(Amount) AliasAmount</pre>
fields	string[]	POST	Array of one or more fields to return in the response for each sobjects specified. At least one sobjects must be specified at the global level. For example:
			<pre>{ "q":"Acme", "fields":["Id", "Name", "Phone"], "sobjects":[{"name": "Account"},</pre>
			The global fields parameter is overridden when sobjectsFilter[] fields are specified. Such as, in the previous example, Id, FirstName, and LastName is returned for Contact instead of the global fields of Id, Name and Phone.
			If unspecified, then the search results contain the IDs of records matching all fields for the specified object.
			Functions
			The following optional functions can be used within the fields parameter.
			• toLabel: Translates response field value into the user's language. This function requires extra setup. For example:
			<pre>{ "sobjects":[{"name": "Lead", "fields":["Id", "toLabel(Status)"]}, }</pre>
			• convertCurrency: Converts response currency fields to the user's currency. This function requires extra setup. Multi-currency must be enabled in the org. For example:
			<pre>{ "sobjects":[{"name": "Opportunity", "fields":["Id", "convertCurrency(Amount)"]}] }</pre>

Name	Туре	Supported Methods	Description
			<pre>format: Applies localized formatting to standard and custom number, date, time, and currency fields. For example: {</pre>
in	string	GET, POST	Scope of fields to search. If you specify one or more scope values, the fields are returned for all found objects. Use one of the following values: ALL NAME EMAIL PHONE SIDEBAR This clause doesn't apply to articles, documents, feed comments, feed items, files, products, and solutions. If any of these objects are specified, the search is not limited to specific fields; all fields are searched.
metadata	string	GET, POST	Specifies if metadata should be returned in the response. No metadata is returned by default. To include metadata in the response, use the LABELS value, which returns the display label for the fields returned in search results. For example: ?q=Acme&metadata=LABELS
netWorkIds	string	GET	Filters search results by a comma-separated list. A network ID represents the Experience Cloud site ID.
netWorkIds	string[]	POST	Filters search results by an array. A network ID represents the Experience Cloud site ID.
offset	string	GET, POST	Single value. The starting row offset into the result set returned. The maximum offset is 2000.

Name	Туре	Supported Methods	Description
			Only one sobject can be specified when using this parameter.
overallLimit	string	GET, POST	Single value. The maximum number of results to return across all sobject parameters specified. The maximum overallLimit is 2000.
pricebookId	string	GET, POST	Single value. Filters product search results by a price book ID for only the Product2 object. The price book ID must be associated with the product that you're searching for. For example, ?q=laptop&sobject=product2&pricebookId=01sxx0000002MffAAE
snippet	string	GET, POST	The target length (maximum number of snippet characters) to return in Salesforce Knowledge article, case, case comment, feed, feed comment, idea, and idea comment search results. The snippet parameter displays contextual excerpts and highlights the search term for each article in the search results. Snippet results are used to differentiate matches to the search term in article search results. The target length can be from 50 to 1000 characters.
			Snippet and highlights are generated from email, text, and text area (long and rich) fields. Snippets aren't displayed for partially matching searches or if the user doesn't have access to the field that contains the snippet. Snippets are only displayed when 20 or fewer results are returned on a page.
			At least one of the following sobject values must be specified.
			To search a specific article type, use the article type name with the suffix kav.
			To search all article types, use KnowledgeArticleVersion.
			• To search case, case comment, feed, feed comment, idea, and idea comment types, use Case, CaseComment, FeedItem, FeedComment, Idea, and IdeaComment.
			For example, q=tourism&sobject=Case&snippet=500.
sobject	string	GET	Objects to return in the response. Must be a valid object type.
			You can use multiple sobject values, such as
			sobject=Account&sobject=Contact. If unspecified, then the search results contain the IDs of all objects.
	Li Elle B	DOCT	
sobjects	sobjectsFilter[]	POST	Objects to return in the response. Must contain valid object types. Use with the required parameters.
			For example:
			<pre>{ "q":"Acme", "fields":["id", "title"], "sobjects":[{"name":"Solutionkav",</pre>

Name	Туре	Supported Methods	Description
			"where":"language='en_US' and publishstatus='draft'"},
			{"name":"FAQkav",
			"where":"language='en_US' and publishstatus='draft'"}]
			}
			If unspecified, then the search results contain the IDs of all objects.
spellCorrection	boolean	GET, POST	Specifies whether spell correction is enabled for a user's search. When set to true, spell correction is enabled for searches that support spell correction. The default value is true.
			For example: q=Acme&sobject=Account&Account.fields=id&spellCorrection=true
updateTracking	string	GET, POST	Specifies a value of true to track keywords that are used in Salesforce Knowledge article searches only.
			If unspecified, the default value of false is applied.
updateViewStat	string	GET, POST	Specifies a value of true to update an article's view statistics. Valid only for Salesforce Knowledge article searches.
			If unspecified, the default value of false is applied.

dataCategoriesFilter[] Parameters

Parameters must be specified in the order presented in the table (groupName, operator, categories).

Name	Туре	Description			
groupName	string	The name of the data category group to filter by.			
operator	string	Valid values: • ABOVE • ABOVE_OR_BELOW • AT • BELOW			
categories	string[]	The name of the categories to filter by.			

sobjectsFilter[] Parameters (POST Method Only)

Name	Туре	Description
fields	string[]	Array of one or more fields to return in the response for the sobject.

Name	Туре	Description
limit	string	Specify the maximum number of rows that are returned for the sobject.
name	string	Name of the sobject to return in the response.
orderBy	string	Controls the field order of the results using the following syntax "orderBy": "field {ASC DESC} [NULLS_{FIRST LAST}]" For example:
		<pre>{ "sobjects":[{"name": "Account", "fields":["Id", "name"], "orderBy": "Name DESC Nulls_last"}] }</pre>
		 ASC: ascending. Default. DESC: descending. NULLS_FIRST: Null records at the beginning of the results. Default. NULLS_LAST: Null records at the end of the results.
where	string	Filter search results for this object by specific field values. For example, where : conditionExpression. Here the conditionExpression of the WHERE clause uses the following syntax: fieldExpression [logicalOperator fieldExpression2]. Add multiple field expressions to a condition expression by using logical and comparison operators.

sobject-level Parameters (GET Method Only)

The following optional parameters can be used with the sobject parameter in a GET method to further refine search results. These settings would override any settings specified at the global level.

The format is sobject.parameter, such as Account.fields. An sobject must be specified to use these parameters, for example, sobject=Account.fields=id, name.

Name	Туре	Description
fields	string	Comma-separated list of one or more fields to return in the response. For example, KnowledgeArticleVersion.fields=id, title.
limit	string	Specifies the maximum number of rows that are returned for the sobject. For example, Account.limit=10.
orderBy	string	Controls the field order of the results using the following syntax orderBy = field {ASC DESC} [NULLS_{FIRST LAST}] For example: Account.orderBy=Name ASC: ascending. Default. DESC: descending.

Reference Portability

Name	Туре	Description
		NULLS_FIRST: Null records at the beginning of the results. Default.NULLS_LAST: Null records at the end of the results.
where	string	Filter search results for this object by specific field values. For example, Account.where = conditionExpression.Herethe conditionExpression of the WHERE clause uses the following syntax: fieldExpression [logicalOperator fieldExpression2]. Add multiple field expressions to a condition expression by using logical and comparison operators. For example, KnowledgeArticleVersion.where=publishstatus='online' and

Example GET Method

curl

https://**M/DominName.**my.salesforce.com/services/data/v55.0/parameterizedSearch/?q-Acme/sedoject-Account.fields=id,name/Account.limit=10

Example POST Method

Portability

The Portability API compiles customer information across objects and fields that you identified when creating a portability policy in Salesforce Customer 360 Privacy Center. You can locate your customers' personally identifiable information (PII) across multiple records when using API version 50.0 and later. Data portability satisfies your customers' right to obtain a copy of their PII that is kept in your organization's platform. To meet privacy regulations, such as the General Data Protection Regulation (GDPR), data portability requests must be fulfilled within one month of when the request is made.

Execute the Portability API with the POST method to aggregate your data subject's PII found in the Account, Contact, Individual, Lead, Person, and User objects into one file. You receive a response with a URL to download the file, a policy file ID, and information on the objects and fields you selected when creating the policy. Use the policy file ID to execute the Portability API with the GET method.

Execute the Portability API with the GET method to see the status of your POST method execution request. Use the policy file ID from the POST method response to execute the GET method. The GET method response contains this information:

Reference Portability

Value	Description	
policyFileStatus The status of the file being compiled. Values are: In Progress, Complete		
policyFileURL The URL to a servlet, where you download the file after it's compiled.		
policyFileID	The ID of the file being compiled, which is returned in the POST method response. The ID is 15 characters.	



Note: Starting with the Spring '21 release, Customer 360 Privacy Center automatically deletes files generated by Portability API after 60 days. You receive a reminder seven days before a file is deleted.

Required Permissions

To use the Portability API, you must have the ModifyAllData or PrivacyDataAccess user permission. Ensure that your Salesforce admin has granted you these permissions.

Syntax

URI

/services/data/v**XX.X**/consent/dsr/rtp/execute

Available since release

50.0

Formats

JSON

HTTP methods

POST, GET

POST Request parameters

Parameter	Description	
dataSubjectId	The ID of the customer making the request. The ID is 15 or 18 characters long, and found in the Account, Contact, Individual, Lead, Person, and User objects.	
policyName	The name of an active policy. This contains the object in the dataSubjectId parame	

GET Request parameters

	Parameter	Description
ID is 15 characters.	policyFileId	The ID of the file being compiled, which is returned in the POST method response. The ID is 15 characters.

Reference Process Approvals

POST Example

URI

/services/data/v55.0/consent/dsr/rtp/execute

Request Body

```
{
    "dataSubjectId":"<root ID>",
    "policyName":"<policyName>"
}
```

Response

```
{
    "status" : "SUCCESS",
    "warnings" : [],
    "result" : {
        "policyFileStatus" : "In Progress",
        "policyFileUrl" :
"https://MyDomainName.my.salesforce.com/servlet/policyFileDownload?file=0jeS70000004CBO",
        "policyFileId" : "0jeS70000004CBO"
}
```

GET Example

URI

/services/data/v55.0/consent/dsr/rtp/execute?policyFileId=0jeS70000004CBO

Response

```
"status" : "SUCCESS",
  "warnings" : [ ],
  "result" : {
        "policyFileStatus" : "Failed",
        "policyFileUrl" :
"https://MyDomainName.my.salesforce.com/servlet/policyFileDownload?file=0jeS70000004CBO",
        "policyFileId" : "0jeS70000004CBO"
}
```

Process Approvals

Returns a list of all approval processes. Can also be used to submit a particular record if that entity supports an approval process and one has already been defined. Records can be approved and rejected if the current user is an assigned approver. When using a POST request to do bulk approvals, the requests that succeed are committed and the requests that don't succeed send back an error.

Reference Process Approvals

Syntax

URI

To return a list of the approvals, the URI is: /services/data/vXX.X/process/approvals/

Available since release

30.0

Formats

JSON, XML

HTTP methods

GET, HEAD, POST

Authentication

Authorization: Bearer token

Request parameters

None required

Request body

The request body contains an array of process requests that contain the following information:

Name	Туре	Description
actionType	string	Represents the kind of action to take: Submit, Approve, or Reject.
contextActorId	ID	The ID of the submitter who's requesting the approval record.
contextId	ID	The ID of the item that is being acted upon.
comments	string	The comment to add to the history step associated with this request.
nextApproverIds	ID[]	If the process requires specification of the next approval, the ID of the user to be assigned the next request.
poestefinitioNmeric	a string	The developer name or ID of the process definition.
skipEntryCriteria	boolean	Determines whether to evaluate the entry criteria for the process (true) or not (false) if the process definition name or ID isn't null. If the process definition name or ID isn't specified, this argument is ignored, and standard evaluation is followed based on process order. By default, the entry criteria isn't skipped if it's not set by this request.

Response body

The response contains an array of process results that contain the following information:

Name	Туре	Description
actorIds	ID[]	IDs of the users who are currently assigned to this approval step.
entityId	ID	The object being processed.
errors	Error[]	The set of errors returned if the request failed.
instanceId	ID	The ID of the ProcessInstance associated with the object submitted for processing.

Reference Process Rules

Name	Туре	Description
instanceStatus	string	The status of the current process instance (not an individual object but the entire process instance). The valid values are "Approved," "Rejected," "Removed," or "Pending."
newWorkItemIds	ID[]	Case-insensitive IDs that point to ProcessInstanceWorkitem items (the set of pending approval requests)
success	boolean	true if processing or approval completed successfully.

Examples

- See Get a List of All Approval Processes.
- See Submit a Record for Approval.
- See Approve a Record.
- See Reject a Record.
- See Bulk Approvals.

Process Rules

Returns a list of all active workflow rules. If a rule has actions, the actions will be listed under the rule. Can also be used to trigger all workflow rules that are associated with a specified record. The actions for a rule are only fired if the rule's criteria is met. When using a POST request, if anything fails, the whole transaction is rolled back.

Cross-object workflow rules cannot be invoked using the REST API.

Syntax

URI

To get a list of the workflow rules or to trigger one or more workflow rules, the URI is:

/services/data/v**XX.X**/process/rules/

To get the rules for a particular object: /services/data/vXX.X/process/rules/sObjectName

To get the metadata for a particular rule:

/services/data/vXX.X/process/rules/sObjectName/workflowRuleId

Available since release

30.0

Formats

JSON, XML

HTTP methods

HEAD, GET, POST

Authentication

Authorization: Bearer token

Request parameters

None required

Reference Product Schedules

Request body

The request body contains an array of context IDs:

Name	Туре	Description
contextId	ID	The ID of the item that is being acted upon.

Examples

- See Get a List of Process Rules.
- See Get a Particular Process Rule.
- See Trigger Process Rules.

Product Schedules

Work with revenue and quantity schedules for opportunity products. Establish or reestablish a product schedule with multiple installments for an opportunity product. Delete all installments in a schedule.

This resource is available in REST API version 43.0 and later.

In API version 46.0 and later, established and re-established schedules support custom fields, validation rules, and Apex triggers. Deleting all schedules now also fires delete triggers.

URI

/services/data/vXX.X/sobjects/OpportunityLineItem/OpportunityLineItemId/OpportunityLineItemSchedules

Formats

JSON, XML

HTTP Method

GET, PUT, DELETE

Authentication

Authorization: Bearer token

Parameters

Parameter	Description
type	The type of the schedule. Required when establishing OpportunityLineltemSchedules. Valid values include Quantity, Revenue, Or Both.
quantity	The total number of units to be repeated or divided in a quantity schedule. Must be an integer other than 0.
quantityScheduleType	The type of the quantity schedule, if the product has one. Valid values are Divide or Repeat.
quantityScheduleInstallmentPeriod	If the product has a quantity schedule, the amount of time covered by the schedule. Valid values are Daily, Weekly, Monthly, Quarterly, Or Yearly.

Reference **Product Schedules**

Parameter	Description
quantityScheduleInstallmentsNumber	If the product has a quantity schedule, the number of installments. Can be an integer from 1 to 150.
quantityScheduleStartDate	The date the quantity schedule starts. Format is YYYY-MM-DD.
revenue	The amount of revenue to be repeated or divided.
revenueScheduleType	The type of the revenue schedule, if the product has one. Valid values are Divide or Repeat.
revenueScheduleInstallmentPeriod	If the product has a revenue schedule, the amount of time covered by the schedule. Valid values are Daily, Weekly, Monthly, Quarterly, or Yearly.
revenueScheduleInstallmentsNumber	If the product has a revenue schedule, the number of installments. Can be an integer from 1 to 150.
revenueScheduleStartDate	The date the revenue schedule starts. Format is YYYY-MM-DD.

Example:

Establish both quantity and revenue schedules for an opportunity product; establish a revenue schedule only; establish a quantity schedule only.

```
curl
https://M/Dmaintene.ny.salesforce.com/services/data/v55.0/sobjects/OpportunityLineIten/00k7000001WUAIA4/OpportunityLineIten&hedules
 -H "Authorization: Bearer token"
```

JSON Request body

```
"type": "Both",
"quantity": 100,
"quantityScheduleType": "Repeat",
"quantityScheduleInstallmentPeriod": "Monthly",
"quantityScheduleInstallmentsNumber": 12,
"quantityScheduleStartDate": "2018-09-15",
"revenue": 100,
"revenueScheduleType": "Repeat",
"revenueScheduleInstallmentPeriod": "Monthly",
"revenueScheduleInstallmentsNumber": 12,
"revenueScheduleStartDate": "2018-09-15"
"type": "Revenue",
"revenue": 100,
"revenueScheduleType": "Divide",
"revenueScheduleInstallmentPeriod": "Quarterly",
"revenueScheduleInstallmentsNumber": 10,
"revenueScheduleStartDate": "2018-09-15"
```

Reference Query

```
"type": "Quantity",
"quantity": 10,
"quantityScheduleType": "Repeat",
"quantityScheduleInstallmentPeriod": "Daily",
"quantityScheduleInstallmentsNumber": 150,
"quantityScheduleStartDate": "2020-09-15",
}
```

Query

Executes the specified SOQL query.

When a SOQL query is executed, up to 2,000 records can be returned at a time in a synchronous request. If the number of results exceeds this limit, the response contains only the first set of results and a query identifier, contained in the response'snextRecordsUrl field. The identifier can be used in another request to retrieve the next batch of records.

URI

```
/services/data/vXX.X/query/?q=SOQL query
```

For retrieving query performance feedback without executing the query:

```
/services/data/vXX.X/query/?explain=SOQL query
```

For retrieving guery performance feedback on a report or list view:

/services/data/vXX.X/query/?explain=report or list view ID

For retrieving more query results if the initial results are o large:

/services/data/vXX.X/query/query identifier

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description		
d	A SOQL query. To create a valid URI, replace spaces with a plus sign + in the query string. For example: SELECT+Name+FROM+MyObject. If the SOQL query string is invalid, a MALFORMED_QUERY response is returned.		
explain	A SOQL query to get performance feedback. Use <code>explain</code> instead of <code>q</code> to get a response that details how Salesforce processes your query. Use this feedback to further optimize your queries. To get feedback on how Salesforce processes a report or list view, use a report or list view ID in place of the query string.		
	The explain parameter is available in API version 30.0 and later.		

Reference

Parameter	Description		
	Note: Using explain with the Query resource is a beta feature. There's no support for this beta feature. For more information, contact Salesforce.		
	If the SOQL query string is invalid, a MALFORMED_QUERY response is returned. If the report or list view ID is invalid, an INVALID_ID response is returned.		

Response body

For a query using the q parameter, the response contains an array of query result records. For a query using the explain parameter, the response contains one or more query plans that can be used to execute the query, report, or list view. The plans are sorted from most optimal to least optimal. Each plan has the following information:

Name	Туре	Description
cardinality	number	The estimated number of records the query would return, based on index fields, if any.
fields	string[]	If the leading operation type is Index, these values are the index fields used for the query. Otherwise, the value is null.
leadingOperationType	string	The primary operation type that can use to optimize the query. This type can be one of these values:
		• Index—The query uses an index on the query object.
		Other—The query uses optimizations internal to Salesforce.
		• Sharing—The query uses an index based on the user's sharing rules. If there are sharing rules that limit which records are visible to the current user, those rules can optimize the query.
		• TableScan—The query scans all records for the query object, and doesn't use an index.
notes	feedback note[]	An array of one or more feedback notes. Each note contains:
		• description— A detailed description of a part of the optimization. This description can include information on optimizations that can't be used and why they can't used.
		• fields— An array of one or more fields used for the optimization.
		 tableEnumOrId— The table name for the fields used for the optimization.
		This response field is available in API version 33.0 and later.
relativeCost	number	The cost of this query compared to the SOQL selective query threshold. A value greater than 1.0 means the query isn't selective. For more information on selective queries, see Working with Very Large SOQL Queries in the <i>Apex Developer Guide</i> .
sobjectCardinality	number	The approximate count of all records in your organization for the query object.
sobjectType	string	The name of the query object, such as Merchandisec.

Resources for Executing SOQL Queries

- You can run a query and increase the batch size of the results using the query identifier. For more information, see Execute a SOQL
 Query.
- For another option to change the batch size, see Query Options Header.
- To get feedback on a guery and a report using the explain parameter, see Get Feedback on Query Performance
- For more information on SOQL in general, see the SOQL and SOSL Reference.

Salesforce CDP Query Profile Parameters

The Salesforce CDP Query and Unified Profile parameters allow you to leverage the Salesforce REST API Query endpoint to execute SOQL queries against the Unified Profile, Data Source objects, or Data Model objects within your org. This functionality is supported using API version 51.0 or later.

For general information about using the Query REST call, see Execute a SOQL Query and Query.

Supported SOQL Parameters

The following SOQL parameters are supported for use with Salesforce CDP:

- SELECT statement on a single object
- SELECT clause: count()
- SOQL WHERE clause: contains operators
- SOQL LIKE
- SOQL LIMIT clause

The default limit is set to 100. The max limit is 2,000 records in a single call.

- SOQL OFFSET clause
- SOQL ORDER BY clause

SOQL Limitations

The following gueries are not supported for use with Salesforce CDP:

- SOQL Subqueries
- SELECT clause: aggregate functions
- SELECT clause: date functions
- SOOL HAVING clause

Sample Queries

Use Case	Queries
Data Preview:	Get Email Click Events SELECT SubscriberKeyc, EngagementChannelc, EmailNamec,
Examine data that has been ingested into a data lake object.	SubjectLinec FROM sfmc_email_engagement_click_{EID}dll LIMIT =100

Reference QueryAll

Use Case	Queries	
Consent Lookup:	Get Individual IDs by Email Address	
Retrieve Individual IDs from Contact Point Data Model objects based on email address, phone number, or first and last name.	EmailAddress_c='jjones@email.com' LIMIT =100	
	Get Individual IDs by Phone Number SELECT Partyld_c FROM ContactPointPhone_dlm WHERE TelephoneNumber_c='555-123-4567' LIMIT =100	
	Get Individual IDs by Name SELECT IndividualId_c FROM Individual_dlm WHERE FirstName_c='Jimmy' AND LastName_c='Smith' LIMIT =100	
Unified Profile Lookup: Step 1:		
Retrieve Unified Individual and	Get Unified Record Id by Source Record Id	
Unified Contact Points by Source Record Id.	SELECT UnifiedRecordId_c FROM IndividualIdentityLink_dlm WHERE SourceRecordID_c='{sourceID}' LIMIT =100	
	Step 2:	
	Query Unified Individual by Unified Profile ID	
	SELECT FirstNamec, LastNamec FROM UnifiedIndividualdlm WHERE Idc='{UnifiedRecordIdc}' LIMIT =100	
	Step 3:	
	Query Unified Contact Point Details by Unified Profile ID	
	Unified Contact Point Email SELECT EmailAddress_c FROM UnifiedContactPointEmail_dlm WHERE Partyld_c={UnifiedRecordId_c} LIMIT =100	
	Unified Contact Point Phone SELECT TelephoneNumberc FROM UnifiedContactPointPhonedlm WHERE Partyldc={UnifiedRecordIdc} LIMIT =100	

QueryAll

This API resource executes the specified SOQL query. Unlike the Query resource, QueryAll returns records that are deleted because of a merge or delete. QueryAll also returns information about archived task and event records. QueryAll is available in API version 29.0 and later.

When a SOQL query is executed, up to 2,000 records can be returned at a time in a synchronous request. If the number of results exceeds this limit, the response contains only the first set of results and a query identifier, contained in the response'snextRecordsUrl field. The identifier can be used in another request to retrieve the next batch of records. Though the nextRecordsUrl has query in the URL, it still provides remaining results from the initial QueryAll request. The remaining results include deleted records that matched the initial query.

URI

/services/data/vXX.X/queryAll/?q=SOQL query

If the initial number of records exceeds the default limit, use the query identifier to retrieve more query results:

/services/data/v**XX.X**/queryAll/query identifier

Formats

JSON, XML

Reference Quick Actions

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
đ	A SOQL query. To create a valid URI, replace spaces with a plus sign + in the query string. For example: SELECT+Name+FROM+MyObject.	

Resources for Executing SOQL Queries

- To run a query that includes deleted items, see Execute a SOQL Query that Includes Deleted Items.
- To retrieve more query results beyond the initial returned results, see *Retrieving the Remaining SOQL Query Results* in Execute a SOQL Query that Includes Deleted Items.
- To increase the batch size of query results, use the query identifier, described in Execute a SOQL Query or use the Query Options Header.
- For more information about SOQL generally, see the SOQL and SOSL Reference.

Quick Actions

Returns a list of global actions and object-specific actions. This resource is available in REST API version 28.0 and later. When working with actions, also refer to sObject Quick Actions.

URI

/services/data/v**XX.X**/quickActions/

Formats

JSON, XML

HTTP Method

HEAD, GET, POST

Authentication

Authorization: Bearer token

Parameters

None required

Considerations

Add all required fields to an object before you create a quick action for that object. If you add a required field after creating a quick action, the field won't appear in the quick action's describe results. Then, when the quick action runs, the field won't be available and an error occurs for the missing field. If you don't want the required field to appear in the quick action's layout, set a default value for the field.

Example usage for getting global quick actions

curl https://MyDomainName.my.salesforce.com/services/data/v55.0/quickActions/ -H
"Authorization: Bearer token"

Recent List Views Reference

Example for creating a contact using an action

```
https://MyDomainName.my.salesforce.com/services/data/v55.0/quickActions/CreateContact
-H "Authorization: Bearer token" -H "Content-Type: application/json" -d @newcontact.json
```

Example JSON request body newcontact. json file

```
"record" : { "LastName" : "Smith" }
}
```

Recent List Views

Returns the list of recently used list views for the given sObject type.

This resource is available in REST API version 32.0 and later.

URI

/services/data/vXX.X/sobjects/sobjectType/listviews/recent

Formats

JSON, XML

HTTP Method

GET

Authentication

```
Authorization: Bearer token
```

Parameters

None



Example:

Retrieving recent list views for the Account object

```
curl
https://MyDomainName.my.salesforce.com/services/data/v55.0/sobjects/Account/listviews/recent
-H "Authorization: Bearer token"
```

JSON Response body

```
"done" : true,
 "listviews" : [ {
   "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCNMA0/describe",
   "developerName" : "MyAccounts",
   "id" : "00BD000005WcCNMA0",
   "label" : "My Accounts",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCNMA0/results",
   "soqlCompatible" : true,
   "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCNMA0"
```

Reference Recently Viewed Items

```
"describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK/describe",
   "developerName" : "NewThisWeek",
   "id" : "00BD0000005WcBeMAK",
   "label" : "New This Week",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK/results",
   "soqlCompatible" : true,
   "url" : "/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcBeMAK"
    "describeUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCFMA0/describe",
   "developerName" : "AllAccounts",
   "id" : "00BD000005WcCFMA0",
   "label" : "All Accounts",
   "resultsUrl" :
"/services/data/v55.0/sobjects/Account/listviews/00BD0000005WcCFMA0/results",
   "soqlCompatible" : true,
   "url": "/services/data/v55.0/sobjects/Account/listviews/00BD000005WcCFMA0"
 } ],
 "nextRecordsUrl" : null,
 "size" : 3,
  "sobjectType" : "Account"
```

Recently Viewed Items

Gets the most recently accessed items that were viewed or referenced by the current user. Salesforce stores information about record views in the interface and uses it to generate a list of recently viewed and referenced records, such as in the sidebar and for the auto-complete options in search.

This resource only accesses most recently used item information. If you want to modify the list of recently viewed items, you'll need to update recently viewed information directly by using a SOQL Query with a FOR VIEW or FOR REFERENCE clause.

URI

/services/data/v**XX.X**/recent

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
limit	An optional limit that specifies the maximum number of records to be returned. If this parameter is not specified, the default maximum number of records returned is the maximum number of entries in RecentlyViewed, which is 200 records per object.	

Reference Record Count

Example

- For an example of retrieving a list of recently viewed items, see View Recently Viewed Records on page 73.
- For an example of setting records as recently viewed, see Mark Records as Recently Viewed on page 73.

Record Count

Lists information about object record counts in your organization.

This resource is available in REST API version 40.0 and later for API users with the "View Setup and Configuration" permission. The returned record count is approximate, and does not include the following types of records:

- Deleted records in the recycle bin.
- Archived records.

URI

/services/data/vXX.X/limits/recordCount?sObjects=Object List

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
sObjects	A comma-delimited list of object names. If a listed object is not found in the org, it is ignored and not returned in the response.	
	This parameter is optional. If this parameter is not provided, the resource returns record counts for all objects in the org.	

Response body

Record Count Response Body

Example

Example request to get record counts for Account and Contact:

/services/data/v55.0/limits/recordCount?sObjects=Account,Contact

Example response for request:

```
"sObjects" : [ {
    "count" : 3,
    "name" : "Account"
}, {
    "count" : 10,
    "name" : "Contact"
```

```
} 1
}
```

Record Count Response Body

Describes the result of a Record Count request.

Record Count Results

Properties

Name	Туре	Description
s0bjects	Record Count sObject Result[]	Collection of sObject record count results. The order of objects in the collection is not guaranteed to match the order of objects in the request.

JSON example

```
{
   "sObjects" : [ {
        "count" : 3,
        "name" : "Account"
   }, {
        "count" : 10,
        "name" : "Contact"
   } ]
}
```

Record Count sObject Result

Properties

Name	Туре	Description
count	Integer	The number of records for the object in the org. This is an approximate count and does not include soft-deleted or archived records.
name	String	The name of the object.

JSON example

```
{
   "count" : 10,
   "name" : "Contact"
}
```

Reference sObject Relevant Items

sObject Relevant Items

Gets the current user's most relevant items. Relevant items include records for objects in the user's global search scope and also most recently used (MRU) objects.

Relevant items include up to 50 of the most recently viewed or updated records for each object in the user's global search scope.



Note: The user's global search scope includes the objects the user interacted with most in the last 30 days, including objects the user pinned from the search results page in the Salesforce Classic.

Then, the resource finds more recent records for each most recently used (MRU) object until the maximum number of records, which is 2,000, is returned.

This resource only accesses the relevant item information. Modifying the list of relevant items is not currently supported.

This resource is available in API version 35.0 and later.

URI

/services/data/v**XX.X**/sobjects/relevantItems

Formats

JSON

HTTP Method

GET

Authentication

Authorization: Bearer token

Parameters

Parameter	Description		
lastUpdatedId	Optional. Compares the entire current list of relevant items to a previous version, if available. Specify the lastUpdatedId value returned in a previous response.		
sobjects	Optional. To scope the results to a particular object or set of objects, specify the name for one or more sObjects. Note: sObject names are case-sensitive.		
sobject.lastUpdatedId	Optional. Compares the current list of relevant items for this particular object to a previous version, if available. Specify the lastUpdatedId value returned in a previous response.		
	Note: You can only specify this parameter for the sObjects specified in the sobjects parameter.		

Response header

The response contains headers unique to this resource.

Name	Туре	Description
lastUpdatedId	string	A unique code that can be used in subsequent calls to compare the results for a complete result set with the results in this response list.

Name	Туре	Description
newResultSetSinceLastQuery	boolean(true or false)	If a response was previously requested for the current user, indicates whether the current response matches the previous response, or the one specified by a lastUpdatedId.

Response body

The response contains an array of records for each object returned, including the following information for each record.

Name	Туре	Description
apiName	string	The object's unique name, such as Account
key	ID	The first 3 characters of the sObject's ID that indicates the object type.
label	string	The object's plural label, such as Accounts.
lastUpdatedId	string	A unique code that can be used in subsequent calls to compare the results for the new result set with the current results for this object.
qualifiedApiName	string	A unique external name for the sObject.
recordIds	ID	A comma-separated list of IDs for the matching records.

Example

See View Relevant Items.

Retrieve Knowledge Language Settings

Returns the existing Knowledge language settings, including the default knowledge language and a list of supported Knowledge language information.

Syntax

URI

/services/data/v**XX.X**/knowledgeManagement/settings

Available since release

31.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None required

Reference Search

Request parameters

None

Example for Getting KnowledgeSettings

```
\label{local_curl} {\tt curl https://\textit{MyDomainName}.my.salesforce.com/services/data/v55.0/knowledgeManagement/settings-H "Authorization: Bearer token"}
```

Example JSON Response Body

Usage

Salesforce Knowledge must be enabled in your organization. This resource can be used in API version 31.0 and later. It retrieves the Knowledge language settings, including the default knowledge language and a list of supported Knowledge language information.

Search

Executes the specified SOSL search. The search string must be URL-encoded.

For more information on SOSL see the SOQL and SOSL Reference.

Syntax

URI

```
/services/data/vXX.X/search/?q=SOSL_search_string
```

Formats

JSON, XML

HTTP Method

GET

Reference Search Scope and Order

Authentication

Authorization: Bearer token

Parameters

Parameter	Description	
q	A SOSL statement that is properly URL-encoded.	

Example

See Search for a String on page 57.

Search Scope and Order

Returns an ordered list of objects in the default global search scope of a logged-in user. Global search keeps track of which objects the user interacts with and how often, and arranges the search results accordingly. Objects used most frequently appear at the top of the list

The returned list reflects the object order in the user's default search scope, including any pinned objects on the user's search results page. This call is useful if you want to implement a custom search results page using the optimized global search scope. The search string must be URL-encoded.

Syntax

URI

/services/data/vXX.X/search/scopeOrder

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Example

See Get the Default Search Scope and Order.

Search Result Layouts

Returns search result layout information for the objects in the query string. For each object, this call returns the list of fields displayed on the search results page as columns, the number of rows displayed on the first page, and the label used on the search results page.

This call supports bulk fetch for up to 100 objects in a query.

Syntax

URI

/services/data/vXX.X/search/layout/?q=Comma delimited object list

Reference Lightning Toggle Metrics

Formats

JSON, XML

HTTP Method

GET

Authentication

Authorization: Bearer token

Response format

Property	Туре	Description
field	String	Object and field name formatted with a period separating. For example: Account. Name.
format	String	The type of date field, such as the date only or date and time. Only date related types are specified; otherwise, null.
label	String	Name as it appears to users
name	String	API name

Example

Get Search Result Layouts for Objects

Lightning Toggle Metrics

Returns details about users who switched between Salesforce Classic and Lightning Experience.

Syntax

URI

 $/\texttt{services}/\texttt{data}/\texttt{v\textbf{\textit{XX}}.\textbf{\textit{X}}}/\texttt{sobjects}/\texttt{LightningToggleMetrics}$

Available since release

44.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

SOQL query.

Request parameters

Parameter	Description
UserId	The user ID.
RecordCount	The count of records returned.
MetricsDate	The date the switch was recorded.
Action	Did the user switch to Salesforce Classic or Lightning Experience.

Example

This query returns the total number of switches to Salesforce Classic:

SELECT sum(RecordCount) Total FROM LightningToggleMetrics WHERE MetricsDate = LAST_MONTH AND Action = 'switchToAloha'

Usage

Use this object with the following APIs:

- Platform
- Metadata API
- Tooling API

Lightning Usage by App Type

Returns the total number of Lightning Experience and Salesforce Mobile users.

Syntax

URI

/services/data/v**XX.X**/sobjects/LightningUsageByAppTypeMetrics

Available since release

44.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request bodySOQL query.

Request parameters

Parameter	Description
AppExperience	The app used: Salesforce Mobile Lightning Experience
MetricsDate	The date the data was recorded.
UserID	The user ID.

Example

This query returns the daily active users by profile for Mobile:

```
SELECT MetricsDate, user.profile.name, COUNT_DISTINCT(user.id) Total FROM
LightningUsageByAppTypeMetrics WHERE MetricsDate = LAST_N_DAYS:30 AND AppExperience =
'Salesforce Mobile' GROUP BY MetricsDate, user.profile.name
```

Usage

Use this object with the following APIs:

- Platform
- Metadata API
- Tooling API

Lightning Usage by Browser

Returns Lightning Experience usage results grouped by browser instance.

Syntax

URI

/services/data/v**XX.X**/sobjects/LightningUsageByBrowserMetrics

Available since release

44.00

Formats

JSON, XML

HTTP methods

GET

Reference Lightning Usage by Page

Authentication

Authorization: Bearer token

Request body SOQL Query.

Request parameters

Parameter	Description
Browser	The browser used.
EptBin3To5	Number of times that a page loaded between 3-5 seconds.
EptBin5To8	Number of times that a page loaded between 5-8 seconds.
EptBin8To10	Number of times that a page loaded between 8-10 seconds.
EptBinOver10	Number of times that a page loaded over 10 seconds.
EptBinUnder3	Number of times that a page loaded under 3 seconds.
MetricsDate	The date the metric was recorded.
PageName	The name of the page.
RecordCountEPT	Number of records for a page/browser where the valid EPT was recorded.
SumEPT	Sum of the EPT values for page/browser.
TotalCount	Total records for a page/browser.

Example

This query returns browser distribution details, for the last 3 months.

SELECT CALENDAR_MONTH(MetricsDate) MetricsDate, Browser Browser, SUM(TotalCount) Total FROM LightningUsageByBrowserMetrics WHERE MetricsDate = Last_N_Months:3 AND (NOT Browser like 'OTHER%') GROUP BY CALENDAR MONTH(MetricsDate), Browser

Usage

Use this object with the following APIs:

- Platform
- Metadata API
- Tooling API

Lightning Usage by Page

Represents standard pages users viewed most frequently in Lightning Experience.

Reference Lightning Usage by Page

Syntax

URI

/services/data/v**XX.X**/sobjects/LightningUsageByPageMetrics

Available since release

44.00

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

SOQL Query.

Parameter	Description
EptBin3To5	Number of times that a page loaded between 3-5 seconds.
EptBin5To8	Number of times that a page loaded between 5-8 seconds.
EptBin8To10	Number of times that a page loaded between 8-10 seconds.
EptBinOver10	Number of times that a page loaded over 10 seconds.
EptBinUnder3	Number of times that a page loaded under 3 seconds.
PageName	The name of the page.
MetricsDate	The date the metric was recorded.
RecordCountEPT	Number of records for a page/user where the valid EPT was recorded.
SumEPT	Sum of the EPT values for a page/user.
TotalCount	Total records for a page/user.
UserId	User ID.

Example

This example returns the top 10 most visited pages and how many times each page was visited.

SELECT TotalCount FROM LightningUsageByPageMetrics ORDER BY PageName ASC NULLS FIRST LIMIT 10

Usage

Use this object with the following APIs:

Platform

- Metadata API
- Tooling API

Lightning Usage by FlexiPage

Returns details about the custom pages viewed most frequently in Lightning Experience.

Syntax

HRI

/services/data/v**XX.X**/sobjects/LightningUsageByFlexiPageMetrics

Available since release

44.00

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

SOQL query.

Request parameters

Parameter	Description
FlexiPageNameOrId	Namespace and file name, or Page ID of FlexiPage files.
FlexiPageType	The FlexiPage type. For example, record details are displayed using RecordPage" type.
MetricsDate	The date the metric was recorded.
RecordCountEPT	Number of records for a FlexiPage type, where the valid EPT was recorded.
SumEPT	Sum of the EPT values for a record
TotalCount	Total records for a type.

Example

This query returns the top 10 most viewed custom pages over the past 7 days.

SELECT FlexiPageNameOrId FlexiPageNameOrId, SUM(TotalCount) Total FROM
LightningUsageByFlexiPageMetrics WHERE MetricsDate = Last_N_DAYS:7 AND (NOT FlexiPageNameOrId
= 'unknown unknown') AND (NOT FlexiPageNameOrId = 'unknown | unknown') GROUP BY
FlexiPageNameOrId ORDER BY SUM(TotalCount) Desc Limit 10

Usage

Use this object with the following APIs:

- Platform
- Metadata API
- Tooling API

Lightning Exit by Page Metrics

Returns frequency metrics about the standard pages within which users switched from Lightning Experience to Salesforce Classic.

Syntax

URI

/services/data/v**XX.X**/sobjects/LightningExitByPageMetrics

Available since release

44.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body
SOQL query.

Request parameters

Parameter	Description	
MetricsDate	The date the data was recorded.	
PageName	Current Page from which User Switched from Lightning to Aloha	
RecordCount	The number of records per user and page.	
UserId	The user ID.	

Example

This query returns the top 10 pages that were switched from Lightning Experience to Salesforce Classic over the past 7 days.

SELECT PageName PageName, SUM(RecordCount) Total FROM LightningExitByPageMetrics WHERE MetricsDate = Last_N_DAYS:7 GROUP BY PageName ORDER BY SUM(RecordCount) Desc Limit 10

Usage

Use this object with the following APIs:

- Platform
- Metadata API
- Tooling API

Salesforce Scheduler Resources

Use Salesforce Scheduler REST APIs to get appointment time slots or available service resources based on work type groups and service territories.

IN THIS SECTION:

Scheduling

Returns a list of available Salesforce Scheduler REST resources and corresponding URIs.

Get Appointment Slots

Returns a list of available appointment time slots for a resource based on given work type group and territories.

Get Appointment Candidates

Returns a list of available service resources (appointment candidates) based on work type group and service territories.

Request Bodies

Response Bodies

SEE ALSO:

Connect REST API Developer Guide: Lightning Scheduler Resources

Scheduling

Returns a list of available Salesforce Scheduler REST resources and corresponding URIs.

Syntax

URI

/services/data/v**XX.X**/scheduling/

Available since release

45.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Reference Get Appointment Slots



Note: The Lightning Platform REST API supports OAuth 2.0 (an open protocol to allow secure API authorization). See Authorize Apps with OAuth in the *Salesforce Help* for more details.

Response Body

Execution of a successful request returns names of resources and their URIs as key-value pairs.

JSON Example

```
{
  "getAppointmentCandidates" : "/services/data/v55.0/scheduling/getAppointmentCandidates",
  "getAppointmentSlots" : "/services/data/v55.0/scheduling/getAppointmentSlots"
}
```

Get Appointment Slots

Returns a list of available appointment time slots for a resource based on given work type group and territories.

Syntax

URI

/services/data/v**XX.X**/scheduling/getAppointmentSlots

Available since release

45.0

Formats

JSON, XML

HTTP methods

POST

Authentication

Authorization: Bearer token



Note: The Lightning Platform REST API supports OAuth 2.0 (an open protocol to allow secure API authorization). See Authorize Apps with OAuth in *Salesforce Help* for more details.

Request body

Parameter	Required	Туре	Description
accountId	No	String	The ID of the associated account.
allowConcurrentScheduling	No	Boolean	If true, allows scheduling of concurrent appointments in a time slot. If false, concurrent appointments aren't allowed. The default is false. Available in API version 47.0 and later.
correlationId	No	String	The ID to pass custom information to the ServiceResourceScheduleHandler Apex interface. For example, you can use the correlation ID to identify the app, website, or any other external system that calls this Apex interface implementation. If you don't pass a custom value, a randomly generated identifier is passed.

Reference **Get Appointment Slots**

Parameter	Required	Туре	Description
			Available in API version 53.0 and later.
endTime	No	String	The latest time that a time slot can end (inclusive).
primaryResourceId	No	String	The ID of the primary resource in multi-resource scheduling. Available in API version 48.0 and later.
			Note: This field is required only when multi-resource scheduling is enabled.
requiredResourceIds	Yes	String[]	List of resource IDs that must be available during the time slot.
schedulingPolicyId	No	String	The ID of the AppointmentSchedulingPolicy object. If no scheduling policy is passed in the request body, the default configurations are used. The only scheduling policy configuration that is used in determining time slots is the enforcement of account visiting hours.
startTime	No	String	The earliest time that a time slot can begin (inclusive). Defaults to the current time of the request, if empty.
territoryIds	Yes	String[]	List of IDs of service territories, where the work that is being requested is performed.
workType	Required if wolfgetoptd isn't given.	Work Type	The type of the work to be performed.
workTypeGroupId	Required if workType isn't given.	String	The ID of the work type group containing the work types that are being performed.



Note: To determine the required fields in your request body, consider the following points:

- Provide either workTypeGroupId or workType in your request body, but not both
- If workType is given, then you must provide either id or durationInMinutes, but not both.
- If id of the workType is given, the rest of workType fields are optional.

Response Body

Execution of a successful request returns the response body containing a list of available time slots.

Parameter	Required	Туре	Description
timeSlots	Yes	Time Slots	List of time slots included in each territory.
		on page 261 []	

Reference Get Appointment Slots

Examples

Request Body Example

Using workTypeGroupId:

```
"startTime" : "2019-01-23T00:00:00.000Z",
    "endTime" : "2019-02-30T00:00:00.000Z",
    "workTypeGroupId" : "0VSB0000000KyjBOAS",
    "accountId" : "001B000000qAUAWIA4",
    "territoryIds" : ["0HhB0000000T09WKAW"],
    "schedulingPolicyId" : "0VrB0000000KyjB",
    "requiredResourceIds" : ["0HnB0000000T08gKAK"]
}
```

Using workType:

```
{
"startTime" : "2019-01-23T00:00:00.000Z",
"endTime" : "2019-02-30T00:00:00.000Z",
"workType" : {
    "id" : "08qRM00000003fkYAA"
    },
"requiredResourceIds" : ["0HnB0000000T08gKAK"],
"territoryIds" : ["0HhRM00000030Z0AY"]
"accountId" : "001B000000qAUAWIA4",
"schedulingPolicyId" : "0VrB0000000KyjB"
}
```

Using durationInMinutes and without workTypeGroupId or workType id fields:

```
"workType" : {
    "durationInMinutes" : 60
    },
"territoryIds" : ["0HhRM00000030Z0AY"],
"requiredResourceIds" : ["0HnB000000T08gKAK"]
}
```

Response Body Example

Reference Get Appointment Slots

```
}
1
}
```

Prerequisites

The appointment time slots are determined based on your Salesforce Scheduler data model configurations. Here are some prerequisites that you can consider while setting up data.

- Set up Salesforce Scheduler before making your requests. The setup includes creating or configuring Service Resources, Service
 Territory Members, Work Type Groups, Work Types, Work Type Group Members, and Service Territory Work Types. See Set Up
 Salesforce Scheduler for more information.
- Configure a work type mapped for each territory in the request body via Service Territory Work Type. Map the same work type to the work type group, via work type group member.

Rules and Guidelines

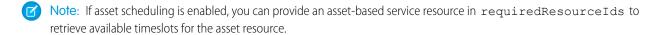
The following factors affect how time slots are calculated and returned.

- Timezones that differ across operating hours are handled and results are always returned in UTC.
- The resource must be marked as a required resource on the assigned resource object.
- The resource is considered unavailable If the status categories of the resource assigned to service appointments are other than Canceled, Cannot Complete, and Completed.
- Resource Absences of all types are considered unavailable from start to end.
- The following fields of Work Type records, if configured, are used to fine-tune time slot requirements. For more information, see Create Work Types in Salesforce Scheduler.

Parameter	Description
Timeframe Start	Time slots sooner than current time + Timeframe Start aren't returned.
Timeframe End	Time slots later than current time + Timeframe End aren't returned.
Block Time Before Appointment	The time period before the appointment is considered as unavailable.
Block Time After Appointment	The time period after the appointment is considered as unavailable.
Operating Hours	The overlap of all operating hours from the account, work type, service territory, and service territory member are considered while determining time slots. For more information, see Set Up Operating Hours in Salesforce Scheduler.

- Only the time slots within the period of 31 days are returned.
- The earliest and latest appointment slots are calculated using the following guidelines:
 - The earliest appointment slot = maximum of
 - Service Territory Member Start Date
 - current time + Time frame Start
 - Start Time passed in the request body

- The latest appointment slot = minimum of
 - Service Territory Member End Date
 - the earliest appointment slot date + 31 days
 - current time + Timeframe End



Get Appointment Candidates

Returns a list of available service resources (appointment candidates) based on work type group and service territories.

Syntax

URI

/services/data/v**XX.X**/scheduling/getAppointmentCandidates

Available since release

45.0

Formats

JSON, XML

HTTP methods

POST

Authentication

Authorization: Bearer token

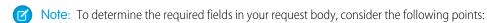


Note: The Lightning Platform REST API supports OAuth 2.0 (an open protocol to allow secure API authorization). See Authorize Apps with OAuth in Salesforce Help for more details.

Request body

Parameter	Required	Туре	Description
accountId	No	String	The ID of the associated account.
allowConcurrent Scheduling	No	Boolean	If true, allows scheduling of concurrent appointments in a time slot. If false, concurrent appointments aren't allowed. The default is false. Available in API version 47.0 and later.
correlationId	No	String	The ID to pass custom information to the ServiceResourceScheduleHandler Apex interface. For example, you can use the correlation ID to identify the app, website, or any other external system that calls this Apex interface implementation. If you don't pass a custom value, a randomly generated identifier is passed. Available in API version 53.0 and later.

Parameter	Required	Туре	Description
endTime	No	String	The latest time that a time slot can end (inclusive).
			Note: The API only returns time slots up to 31 days from the startTime.
filterByResources	No	String[]	A comma-separated list of service resource IDs. API returns only eligible service resources that are both in the list and in the selected service territory. The resources are sorted by the order in which the resource IDs are passed. Available in API version 51.0 and later.
resourceLimitApptDistribution	No	Integer	Specify the maximum number of service resources that you want to show during appointment scheduling when appointment distribution is enabled. Available in API version 53.0 and later.
			Note: The filterByResources field takes precedence over the resourceLimitApptDistribution field.
startTime	No	String	The earliest time that a time slot can begin (inclusive). Defaults to the current time of the request, if empty. You can also use a time from the past.
schedulingPolicyId	No	String	The ID of the AppointmentSchedulingPolicy object. If no scheduling policy is passed in the request body, the default configurations are used. All Scheduling Policy Configurations are considered when using this API.
territoryIds	Yes	String[]	List of service territory IDs, where the work that is being requested is performed.
workType	Required if wattweetoptcl isn't given.	Work Type	The type of the work to be performed.
workTypeGroupId	Required if workType isn't given.	String	The ID of the work type group containing the work types that are being performed.



- Provide either workTypeGroupId or workType in your request body, but not both
- If workType is given, then you must provide either id or durationInMinutes, but not both.
- If id of the workType is given, the rest of workType fields are optional.

Response Body

Execution of a successful request returns the response body containing a list of available appointment resources.

Parameter	Required	Туре	Description
candidates	Yes	Candidates on page	List of available appointment candidates.
		261[]	

Examples

Request Body Example

Using workTypeGroupId:

```
"startTime" : "2019-01-23T00:00.000Z",
    "endTime" : "2019-02-30T00:00.000Z",
    "workTypeGroupId" : "0VSB0000000KyjBOAS",
    "accountId" : "001B000000qAUAWIA4",
    "territoryIds" : ["0HhB000000T09WKAW"],
    "schedulingPolicyId" : "0VrB0000000KyjB"
}
```

Using workType:

```
{
"startTime" : "2019-01-23T00:00:00.000Z",
"endTime" : "2019-02-30T00:00:00.000Z",
"workType" : {
    "id" : "08qRM00000003fkYAA"
    },
"territoryIds" : ["0HhRM00000030Z0AY"],
"accountId" : "001B000000qAUAWIA4",
"schedulingPolicyId" : "0VrB0000000KyjB"
}
```

Using durationInMinutes and without workTypeGroupId or workType idfields:

Response Body Example

```
{
    "candidates" : [ {
        "endTime" : "2019-01-23T19:15:00.000+0000",
```

Reference Request Bodies

```
"resources" : [ "0HnB000000D2DsKAK" ],
    "startTime" : "2019-01-23T16:15:00.000+0000",
    "territoryId" : "0HhB000000TO9WKAW"

}, {
    "endTime" : "2019-01-23T19:30:00.000+0000",
    "resources" : [ "0HnB000000D2DsKAK" ],
    "startTime" : "2019-01-23T16:30:00.000+0000",
    "territoryId" : "0HhB0000000TO9WKAW"

}, {
    "endTime" : "2019-01-23T19:45:00.000+0000",
    "resources" : [ "0HnB000000D2DsKAK" ],
    "startTime" : "2019-01-23T16:45:00.000+0000",
    "territoryId" : "0HhB0000000TO9WKAW"

}]
```

Prerequisites

The appointment time slots are determined based on your Salesforce Scheduler data model configurations. Here are some prerequisites that you can consider while setting up data.

- Set up Salesforce Scheduler before making requests. This setup includes creating or configuring Service Resources, Service Territory Members, Work Type Groups, Work Types, Work Type Group Members, and Service Territory Work Types. See Set Up Salesforce Scheduler for more information.
- The territory type of the Service Territory Member must be either Primary, Secondary, or Relocation. The Primary and Relocation territory types are considered the same.
- The territory type of the Service Territory Member must be either Primary, Secondary, or Relocation. The Primary and Relocation territory types are considered the same.

Rules and Guidelines

The following factors are considered for returning start time and end time of resources.

Resource Availability

Determined using service territory member, service territory, work type, and account operating hours fields.

Resource Unavailability

Determined by resource absences, existing appointments that the resource is assigned to. The resource must be marked as a required resource for the appointment with a status that isn't in closed, canceled, or completed.

Appointment Start Time Interval in the Scheduling Policy

Appointment start time interval field in the Scheduling Policy is used to determine when the appointment can start. This interval can be 5, 10, 15, 20, 30, or 60. By default, it's set to 15.

Work Type Duration

The end time is calculated as start time + duration of the work type.



Note: If asset scheduling is enabled, the response also includes asset-based candidates.

Request Bodies

To perform a POST, PATCH, or PUT request, create a request body formatted in either XML or JSON. This chapter lists the request bodies.

Request Bodies Reference

IN THIS SECTION:

Work Type

Details about the type of work to be performed.

Skill Requirement

List of skills that are required to complete a particular task for a work type.

Work Type

Details about the type of work to be performed.

Name	Туре	Required	Description
id	String	Required if durationInMinutes is not given.	ld of the work type.
durationInMinutes	Integer	Required if id is not given.	Contains the event length, in minutes.
timeframeStartInMinutes	String	No	The beginning of the timeframe.
timeframeEndInMinutes	String	No	The end of the timeframe.
blokfineGoeypoirtnertIMntes	String	No	The time period before the appointment is considered as unavailable.
blokline/fle/Appoirtmert/iMintes	String	No	The time period after the appointment is considered as unavailable.
operatingHoursId	String	No	The overlap of all operating hours from the account, work type, service territory, and service territory member are considered while determining time slots.
skillRequirements	Skill Requirement[]	No	List of skills that are required to complete a particular task for a work type.



Note: Provide either Id or durationInMinutes in the request body, but not both.

Skill Requirement

List of skills that are required to complete a particular task for a work type.

Name	Туре	Required	Description
skillId	String	Yes	The skill that is required.
SkillLevel	String	No	The level of the skill required. Skill levels can range from zero to 99.99. Depending on your business needs, you might want the skill level to reflect years of experience, certification levels, or license classes.

Reference Response Bodies

Response Bodies

Successful execution of a request to a Salesforce Scheduler resource can return a response body either in JSON or XML format. For example, the request to get appointment time slots returns a list of available time slots for a selection of work type group and territories.

IN THIS SECTION:

Time Slots

Describes the result of Get Appointments Slots request.

Candidates

Describes the result of Get Appointments Candidates request.

Time Slots

Describes the result of Get Appointments Slots request.

List of time slots available for each territory.

Name	Туре	Description
startTime	String	The start time of the appointment time slot.
endTime	String	The end time of the appointment time slot.
territoryId	String	The service territory associated with this time slot.
remainingAppointments	Integer	The number of appointments available in the time slot. Appointments available in a time slot = Maximum number of appointments defined for the time slot - Number of appointments scheduled so far in the time slot

Candidates

Describes the result of Get Appointments Candidates request.

List of available service resources.

Name	Туре	Description
startTime	String	The start time of the appointment time slot.
endTime	String	The end time of the appointment time slot.
territoryId	String	The service territory associated with this resource.
resources	String[]	List of service resource IDs that are available.
		Important: At present, only one resource is returned on this list. If there is more than one resource included in a territory, a new child object is added for each resource in the response JSON body.

Search for Records Suggested by Autocomplete and Instant Results

Returns a list of suggested records whose names match the user's search string. The suggestions resource provides autocomplete results and instant results for users to navigate directly to likely relevant records, before performing a full search.

Syntax

URI

/services/data/vXX.X/search/suggestions?q=search string&sobject=object types

Available since release

32.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None required

Request parameters

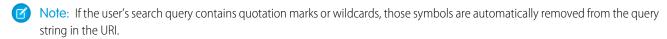
Parameter	Description
fields	Optional. Used for creating lookup queries. Specify multiple fields using a comma-separated list. Specifies which lookup fields to be returned in the response.
dynamicFields	Optional. Available in API version 48.0 and later. Used to return additional dynamic fields. Specify multiple options using a comma-separated list. For example, if dynamicFields=secondaryField then each suggested record in the results contains an additional field besides Id and Name (or Title) based on the next eligible field in the search layout.
groupId	Optional. Specifies one or more unique identifiers of one or more groups that the question to return was posted to. Specify multiple groups using a comma-separated list. This parameter is only applicable when the parameter type equals question. Don't use with the userId.
ignoreUnsupportedSObjects	Optional. If an unsupported object is included in a request, this parameter indicates what action to take. If it's set to false, an error is returned. If it's set to true, the object is ignored and no error is returned. See the Unsupported Objects section for reference. The default is false.
limit	Optional. Specifies the maximum number of suggested records to return. If a limit isn't specified, 5 records are returned by default. If there are more suggested records than the limit specified, the response body's hasMoreResults property is true.
networkId	Optional. Specifies one or more unique identifiers for the Experience Cloud sites to return the question to. Specify multiple sites using a comma-separated list. This

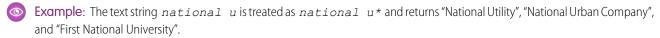
Parameter	Description
	parameter is only applicable when the parameter type equals question or parameter sobject equals user.
d	Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, Korean, and Thai; three characters for all other languages. Query strings that exceed the maximum length of 255 characters (or 200 consecutive characters without a space break) return an error.
sobject	Required. The objects that the search is scoped to, such as Account or offerc.
	If the sobject value is feedItem, the type parameter is required and it must have a value of question.
	Specify up to 10 objects with a comma-separated list. For example: sobject=Account, Contact, Lead. To take advantage of the feature, activate the CrossObjectTypeahead permission.
	To specify the specific fields to return by object, use the following syntax with multiple fields in a comma-separated list. The $sobject$ is lowercase.
	sobject=sobject.fields=fields
	For example:
	&sobject=Account,Contact,Lead&account.fields=Website,Phone &contact.fields=Phone
topicId	Optional. Specifies the unique identifier of the single topic that the question to return was tagged as. This parameter is only applicable when the parameter type equals question.
type	Required when the sobject value is feedItem. Including this parameter for all other sobject values doesn't affect the query. Specifies that the type of Feed is questions. Valid value: question.
userId	Optional. Specifies one or more unique identifiers of one or more users who authored the question to return. Specify multiple users using a comma-separated list. This parameter is only applicable when the parameter type equals question. Don't use with the groupId.
useSearchScope	Optional. Available in API version 40.0 and later. The default value is false. If false, the objects specified in the request are used to suggest records. If true, in addition to the objects specified in the request, the user's search scope is used to suggest records. The search scope is the list of objects a user uses most frequently. • If the request doesn't specify an object, use useSearchScope=true.
	 If useSearchScope=true and the user's search scope is empty, the default search scope is used to suggest records.
	 Typically, only the first 10 objects are used to suggest records. However, an admin can assign objects that are always considered when returning results. If configured, up to 15 objects are used to suggest records. For more information about assigning objects, see Assign Search Results Objects to Users (Beta).

Parameter	Description
	 Objects specified in the sobject parameter are prioritized over objects in the user's search scope.
	 Values for the ignoreUnsupportedSObjects parameter aren't applied to the objects in the search scope.
	This example uses only the search scope.
	/search/suggestions?q=Acme&useSearchScope=true
	This example uses the search scope and the Account object.
	/search/suggestions?q=Acme&sobject=Account&useSearchScope=true
where	Optional. A filter that follows the same syntax as the SOQL WHERE clause. URLs encode the expression.
	Use the clause for an object, or globally for all compatible objects. An example of an object-specific clause is:
	account.where=name%20LIKE%20%27Smith%25%27. An example of a global clause is: where=name%20LIKE%20%27Smith%25%27. The parameter must be lower case. Any object-specific where clauses override the global where clause. You can't use this parameter for the Question object.
	To specify multiple entities, see the following example. This feature is available in version 38.0 and later.
	search/suggestions?q=Smith & Sobject-Account, Contact, KnowledgeArticleVersion, CollaborationGroup, Topic, FeedItem
	<pre>// Specifies a global where clause (to filter Account and Contact)</pre>
	&where=name%20LIKE%20%27Smith%25%27
	// Overrides the global where clause for Knowledge Article
	(filtering by PublishStatus and Language is required for
	KnowledgeArticle) &knowledgearticleversion.where=PublishStatus='online'+and+language='en_US'
	// Overrides the global where clause for Topic
	<pre>&topic.where=networkid=<1234567891> // Overrides the global where clause for</pre>
	CollaborationGroup
	<pre>&collaborationgroup.where=networkid=<1234567891> // FeedItem-Question doesn't support where clauses, but we can filter</pre>
	the type and networkId&type=question &networkId==<1234567891>

Usage

The suggestions resource returns records when the record's name field includes the exact text in the search string. The last term in the search string can match the beginning of a word. Records that contain the search string within a word aren't considered a match.





Suggested Records Response

The suggestions resource returns display-ready data about likely relevant records that the user can access.

A relevance algorithm determines the order of results.

Each suggested record in the results contains these elements:

Element	Description
Attributes	The record's object type and the URL for accessing the record.
	Also includes the requested lookup fields' values. For example, if you requested fields=Id, Name, the result would include the ID and name.
Name (or Title)	The record's Name field. In the absence of a standard Name field, the Title field is used for these objects:
	 Dashboard
	• Idea
	 IdeaTheme
	• Note
	 Question
	In the absence of a standard Name or Title field, the main identifying field is used. For example, in cases, the Case Number is used.
Id	The record's unique identifier.

Example JSON Response Body

```
"autoSuggestResults" : [ {
    "attributes" : {
        "type" : "Account",
        "url" : "/services/data/v55.0/sobjects/Account/001xx000003DH6WAAW"
    },
    "Id" : "001xx000003DH6WAAW",
    "Name" : "National Utility Service"
    }, {
        "attributes" : {
            "type" : "Account",
            "url" : "/services/data/v55.0/sobjects/Account/001xx000003DHJ4AAO"
        },
        "Id" : "001xx000003DHJ4AAO",
        "Name" : "National Utility Service"
```

Example JSON Response Body for a Multiple Object Request

```
"autoSuggestResults" : [ {
   "attributes" : {
     "type" : "Account",
     "url": "/services/data/v55.0/sobjects/Account/001xx000003DMEKAA4"
   "Id" : "001xx000003DMEKAA4"
   "Name" : "Joe Doe Printing"
 {
   "attributes" : {
     "type" : "Account",
     "url": "/services/data/v55.0/sobjects/Account/001xx000003DLjvAAG"
   },
   "Id" : "001xx000003DLjvAAGO"
   "Name" : "Joe Doe Plumbing"
 }, {
   "attributes" : {
     "type" : "Contact",
     "url": "/services/data/v55.0/sobjects/Contact/003xx000004U9Y9AAK"
   "Id" : "003xx000004U9Y9AAK"
   "Name" : "John Doe"
"hasMoreResults" : false,
"meta" : {
 "nameFields" : [ {
   "entityApiName" : "Account",
   "fieldApiName" : "Name"
    "entityApiName" : "Contact",
```

```
"fieldApiName" : "Name"
} ],
   "secondaryFields" : [ ]
}
```

Example XML Response Body

```
<?xml version="1.0" encoding="UTF-8"?</pre>
<suggestions>
 <autoSuggestResults type="Account"</pre>
url="/services/data/v55.0/sobjects/Account/001xx000003DH6WAAW">
   <Id>001xx000003DH6WAAW</Id>
    <Name>National Utility Service</Name>
 </autoSuggestResults>
 <autoSuggestResults type="Account"</pre>
url="/services/data/v55.0/sobjects/Account/001xx000003DHJ4AAO">
    <Id>001xx000003DHJ4AAO</Id>
    <Name>National Utility Service</Name>
 </autoSuggestResults>
 <autoSuggestResults type="Account"</pre>
url="/services/data/v55.0/sobjects/Account/001xx000003DHscAAG">
    <Id>001xx000003DHscAAG</Id>
    <Name>National Urban Technology Center
 </autoSuggestResults>
 <hasMoreResults>true/hasMoreResults>
 <meta>
   <nameFields>
     <entityApiName>Account
     <fieldApiName>Name</fieldApiName>
    </nameFields>
    <nameFields>
     <entityApiName>ContentDocument
     <fieldApiName>Title</fieldApiName>
    </nameFields>
 </meta>
</suggestions>
```

Unsupported Objects

The suggestions resource supports all searchable objects except the following.

- ContentNote
- Event
- External objects
- FeedComment
- FeedPost
- IdeaComment
- Pricebook2
- Reply

- TagDefinition
- Task

Search Suggested Article Title Matches

Returns a list of Salesforce Knowledge article titles that match the user's search query string. Provides a shortcut to navigate directly to likely relevant articles before the user performs a search.

Syntax

URI

/services/data/v**XX.X**/search/suggestTitleMatches?q=**searchString** &language=**articleLanguage**&publishStatus=**articlePublicationStatus**

Available since release

30.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None required

Request parameters

Parameter	Description
articleTypes	Optional. Three-character ID prefixes indicating the desired article types. You can specify multiple values for this parameter in a single REST call, by repeating the parameter name for each value. For example, $articleTypes=ka0\&articleTypes=ka1$.
categories	Optional. The name of the data category group and name of the data category for desired articles, expressed as a JSON mapping. You can specify multiple data category group and data category pairs in this parameter. For example, categories={"Regions":"Asia", "Products":"Laptops"}. Characters in the URL might need to be encoded. For this example, categories=%7B%22Regions%22%3A%22Asia %22%2C%22Products%22%3A%22Laptops%22%7D.
channel	Optional. The channel where the matching articles are visible. Valid values: • AllChannels-Visible in all channels the user has access to • App-Visible in the internal Salesforce Knowledge application • Pkb-Visible in the public knowledge base • Csp-Visible in the Customer Portal • Prm-Visible in the Partner Portal

If channel isn't specified, the default value is determined by the type of user. Pkb for a guest user Cap for a Customer Portal user Prm for a Partner Portal user App for any other type of user If channel is specified, the specified value may not be the actual value requested, because of certain requirements. For guest, Customer Portal, and Partner Portal users, the specified value must match the default value for each user type. If the values don't match or AllChannels is specified, then App replaces the specified value. For all users other than guest, Customer Portal, and Partner Portal users: If Pkb, Cap, Prm, or App are specified, then the specified value is used. If AllChannels is specified, then App replaces the specified value. Ianguage Required. The language of the user's query. Specifies the language that matching articles are written in. Dimit Optional Specifies the maximum number of articles to return. If there are more suggested articles than the limit specified, the response body's hasMoreReaults property is true. PublishStatus Required. The article's publication status. Valid values: Draft—Articles are published in Salesforce Knowledge. Online—Articles are published in Salesforce Knowledge. Archived—Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. Lopics Optional. The topic of the returned articles. For example: topics=email.	Parameter	Description
Csp for a Customer Portal user Prm for a Partner Portal user App for any other type of user If channel is specified, the specified value may not be the actual value requested, because of certain requirements. For guest, Customer Portal, and Partner Portal users, the specified value must match the default value for each user type. If the values don't match or AllChannels is specified, then App replaces the specified value. For all users other than guest, Customer Portal, and Partner Portal users: If Pkb, Csp, Prm, or App are specified, then the specified value is used. If AllChannels is specified, then App replaces the specified value is used. If AllChannels is specified, then App replaces the specified value. Required. The language of the user's query. Specifies the language that matching articles are written in. Optional. Specifies the maximum number of articles to return. If there are more suggested articles than the limit specified, the response body's hasMoreResults property is true. PublishStatus Required. The article's publication status. Valid values: Draft—Articles aren't published in Salesforce Knowledge. Online—Articles are published in Salesforce Knowledge. Archived—Articles aren't published and are available in Archived Articles view. Required. The user's search query string, property URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. Lopics Optional. The topic of the returned articles. For example: topics=outlook&topics=email.		If channel isn't specified, the default value is determined by the type of user.
Prm for a Partner Portal user App for any other type of user If channel is specified, the specified value may not be the actual value requested, because of certain requirements. For guest, Customer Portal, and Partner Portal users, the specified value must match the default value for each user type. If the values don't match or AllChannels is specified, then App replaces the specified value. For all users other than guest, Customer Portal, and Partner Portal users: If Pshb, Csp, Prm, or App are specified, then the specified value is used. If AllChannels is specified, then App replaces the specified value. Required. The language of the user's query. Specifies the language that matching articles are written in. Optional. Specifies the maximum number of articles to return. If there are more suggested articles than the limit specified, the response body's hasMoreResults property is true. PublishStatus Required. The article's publication status. Valid values: Draft—Articles aren't published in Salesforce Knowledge. Online—Articles are published in Salesforce Knowledge. Archived—Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. Lopics Optional. The topic of the returned articles. For example: topics=outlook&topics=email.		Pkb for a guest user
App for any other type of user If channel is specified, the specified value may not be the actual value requested, because of certain requirements. For guest, Customer Portal, and Partner Portal users, the specified value must match the default value for each user type. If the values don't match or AllChannels is specified, then App replaces the specified value. For all users other than guest, Customer Portal, and Partner Portal users: If Pkb, Csp, Prm, or App are specified, then the specified value is used. If AllChannels is specified, then App replaces the specified value. Required. The language of the user's query. Specifies the language that matching articles are written in. Optional. Specifies the maximum number of articles to return. If there are more suggested articles than the limit specified, the response body's hasMoreResults property is true. PublishStatus Required. The article's publication status. Valid values: Draft-Articles aren't published in Salesforce Knowledge. Online-Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's search query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. topics Optional. The topic of the returned articles. For example: topics=outlook&topics=email.		Csp for a Customer Portal user
If channel is specified, the specified value may not be the actual value requested, because of certain requirements. • For guest, Customer Portal, and Partner Portal users, the specified value must match the default value for each user type. If the values don't match or AllChannels is specified, then App replaces the specified value. • For all users other than guest, Customer Portal, and Partner Portal users: • If Pkb, Csp, Prm, or App are specified, then the specified value is used. • If AllChannels is specified, then App replaces the specified value. language Required. The language of the user's query. Specifies the language that matching articles are written in. 1imit Optional. Specifies the maximum number of articles to return. If there are more suggested articles than the limit specified, the response body's hasMoreResults property is true. PublishStatus Required. The article's publication status. Valid values: • Draft—Articles aren't published in Salesforce Knowledge. • Online—Articles aren't published in Salesforce Knowledge. • Archived—Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's search query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. Lopics Optional. The topic of the returned articles. For example: topics=outlook&topics=email.		 Prm for a Partner Portal user
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- If Pkb, Csp, Prm, or App are specified, then the specified value is used If AllChannels is specified, then App replaces the specified value. Required. The language of the user's query. Specifies the language that matching articles are written in. Optional. Specifies the maximum number of articles to return. If there are more suggested articles than the limit specified, the response body's hasMoreResults property is true. PublishStatus Required. The article's publication status. Valid values: • Draft-Articles aren't published in Salesforce Knowledge. • Online-Articles are published in Salesforce Knowledge. • Archived-Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. topics Optional. The topic of the returned articles. For example: topics=outlook&topics=email.		the default value for each user type. If the values don't match or AllChannels
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 Draft-Articles aren't published in Salesforce Knowledge. Online-Articles are published in Salesforce Knowledge. Archived-Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. topics Optional. The topic of the returned articles. For example: topics=outlook&topics=email. 	limit	suggested articles than the limit specified, the response body's hasMoreResults
 Online-Articles are published in Salesforce Knowledge. Archived-Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. topics Optional. The topic of the returned articles. For example: topics=outlook&topics=email. 	publishStatus	Required. The article's publication status. Valid values:
• Archived-Articles aren't published and are available in Archived Articles view. Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error. topics Optional. The topic of the returned articles. For example: topics=outlook&topics=email.		 Draft-Articles aren't published in Salesforce Knowledge.
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topics=outlook&topics=email.	đ	returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return
	topics	·
	validationStatus	

Example for getting suggested articles with matching titles

curl https://**MyDomainName**.my.salesforce.com/services/data/v55.0/search/suggestTitleMatches? q=orange+banana&language=en_US&publishStatus=Online -H "Authorization: Bearer *token*"

Reference Search Suggested Queries

Example JSON response body

```
"autoSuggestResults" : [ {
    "attributes" : {
      "type" : "KnowledgeArticleVersion",
      "url" : "/services/data/v55.0/sobjects/KnowledgeArticleVersion/ka0D00000004CcQ"
      },
    "Id" : "ka0D00000004CcQ",
    "UrlName" : "orange-banana",
    "Title" : "orange banana",
    "KnowledgeArticleId" : "kA0D00000004Cfz"
      } ],
      "hasMoreResults" : false
}
```

Usage

Salesforce Knowledge must be enabled in your organization. The user must have the "View Articles" permission enabled. The articles suggested include only the articles the user can access, based on the data categories and article types the user has permissions to view.

The Suggest Article Title Matches resource is designed to return display-ready data about likely relevant articles. Articles are suggested if their titles contain the entire query string, except stopwords, such as "a," "for," and "the."

For example, a search for Backpacking for desert returns the article, "Backpacking in the desert."



Note: Articles with titles that include stopwords from the query string, such as "Backpacking for desert survival" in this example, appear before matching articles with titles that don't include the stopwords.

Stopwords at the end of the query string are treated as search terms.

A wildcard is automatically appended to the last token in the query string.



Note: If the user's search query contains quotation marks or wildcards, those symbols are automatically removed from the query string in the URI along with any other special characters.

If the number of suggestions returned exceeds the limit specified in the request, the end of the response contains a field called hasMoreResults. Its value is true if the suggestions returned are only a subset of the suggestions available, and false otherwise.

Search Suggested Queries

Returns a list of suggested searches based on the user's query string text matching searches that other users have performed in Salesforce Knowledge. Provides a way to improve search effectiveness, before the user performs a search.

Syntax

URI

```
/services/data/vXX.X/search/suggestSearchQueries?q=searchString &language=languageOfQuery
```

Available since release

30.0

Reference Search Suggested Queries

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None required

Request parameters

Parameter	Description
channel	Optional. Specifies the Salesforce Knowledge channel where the article can be viewed. Valid values:
	 AllChannels-Visible in all channels the user has access to
	 App-Visible in the internal Salesforce Knowledge application
	 Pkb-Visible in the public knowledge base
	Csp-Visible in the Customer Portal
	Prm—Visible in the Partner Portal
	If channel isn't specified, the default value is determined by the type of user.
	Pkb for a guest user
	Csp for a Customer Portal user
	Prm for a Partner Portal user
	 App for any other type of user
	If channel is specified, the specified value may not be the actual value requested, because of certain requirements.
	 For guest, Customer Portal, and Partner Portal users, the specified value must match the default value for each user type. If the values don't match or AllChannels is specified, then App replaces the specified value.
	 For all users other than guest, Customer Portal, and Partner Portal users:
	 If Pkb, Csp, Prm, or App are specified, then the specified value is used.
	 If AllChannels is specified, then App replaces the specified value.
language	Required. The language of the user's query.
limit	Optional. Specifies the maximum number of suggested searches to return. If there are more suggested queries than the limit specified, the response body's hasMoreResults property is true.
d	Required. The user's search query string, properly URL-encoded. Suggestions are returned only if the user's query string meets the minimum length requirements: one character for queries in Chinese, Japanese, and Korean, and three characters for all other languages. Query strings exceeding the maximum length of 250 characters return an error.

Example for getting suggested queries

```
\label{lem:curl https://MyDomainName.my.salesforce.com/services/data/v55.0/search/suggestSearchQueries? $$q=app\&language=en_US -H "Authorization: Bearer token"$
```

Example JSON response body

```
"autoSuggestResults" : [ {
    "0" : "apple",
    "1" : "apple banana",
} ],
    "hasMoreResults" : false
}
```

Usage

Salesforce Knowledge must be enabled in your organization.

Queries are suggested if they exactly match the query string text. The text string must be a prefix within the query; it's not considered a match if it appears within a word. For example, the text string app would return suggested queries apple banana and banana apples but not pineapple.

If the number of suggestions returned exceeds the limit specified in the request, the end of the response contains a field called hasMoreResults. Its value is true if the suggestions returned are only a subset of the suggestions available, and false otherwise.

If the user's search query contains quotation marks or wildcards, those symbols are automatically removed from the query string in the URI.

Salesforce Surveys Translation Resources

Use REST APIs to translate survey fields, view, update, or delete translated survey fields. The translated values of surveys fields are stored in Flow fields.

The following survey fields can be translated:

- Survey name
- Pause message
- Welcome message
- Questions
- Answer choices and ranking items
- Thank you message

IN THIS SECTION:

Add or Change the Translation of a Survey Field

If a survey field can be translated or is already translated into a particular language, you can add or change the translated value of the survey field.

Add or Update the Translated Value of Multiple Survey Fields in One or More Languages

If one or more survey fields can be translated or are already translated, you can add or update the translated values of the survey fields in the languages into which survey fields can be translated.

Delete the Translated Value of a Survey Field

After a survey field is translated into a particular language, you can delete the translated value of the survey field.

Delete the Translated Value of Multiple Survey Fields in One or More Languages

After survey fields are translated into one or more languages, you can delete the translated values of multiple survey fields.

Get Translated Value of a Survey Field

After a survey field is translated into a particular language, you can use this resource to the translated value of the survey field.

Get the Translated Values of Multiple Survey Fields in One or More Languages

After survey fields are translated into one or more languages, you can view the translated values of multiple survey fields in the translated languages.

Add or Change the Translation of a Survey Field

If a survey field can be translated or is already translated into a particular language, you can add or change the translated value of the survey field.



Note: This URI can only be used for the flow process type Survey.

Syntax

URI

/services/data/vXX.X/localizedvalue/record/developerName/language

Available since release

48.0

Formats

JSON

HTTP methods

POST

Request body JSON example

```
{
"value": "China"
}
```

Request parameters

Parameter	Description
developerName	Optional. Developer name of the flow field.
language	Optional Translated language of the flow field.
value	Required. Translated value of the flow field.

Response parameters

createdBy ID of the user who translated the flow field. CreatedDate Date and time the flow field was translated.	
createdDate Date and time the flow field was translated	
Bate and time the now here was translated.	
developerName Developer name of the flow field.	
Language into which the flow field was translated.	
value Translated value of the flow field.	
isOutofDate Indicates if the flow field is out of date.	

Example response body

```
"createdBy": "005xxx",
  "createdDate": "2018-09-14T00:10:30Z",
  "developerName": "Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel",
  "language": "zh_CN",
  "value": "□□",
  "isOutOfDate": true
}
```

Add or Update the Translated Value of Multiple Survey Fields in One or More Languages

If one or more survey fields can be translated or are already translated, you can add or update the translated values of the survey fields in the languages into which survey fields can be translated.



Note: This URI can only be used for the flow process type Survey.

Syntax

URI

/services/data/v**XX.X**/localizedvalue/records/upsert

Available since release

48.0

Formats

JSON

HTTP methods

POST

Request body JSON example

Request parameters

Parameter	Description
developerName	Required. Developer name of the flow field.
language	Required. Language into which the flow field is translated.
value	Required. New or updated value of the flow field.

Response parameters

Parameter	Description
createdBy	ID of the user who translated the flow field.
createdDate	Date and time the flow field was translated.
developerName	Developer name of the flow field.
language	Language into which the flow field was translated.
value	Updated value of the flow field.
isOutofDate	Indicates if the flow field is out of date.

Response body example

```
[
{
    "createdBy": "005xxx",
    "createdDate": "2018-09-14T00:10:30Z",
    "developerName": "Flow.Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel",
    "language": "en_US",
    "value": "China",
    "isOutOfDate": false
},
{
    "createdBy": "005xxx",
```

```
"createdDate": "2018-09-14T00:10:30Z",
   "developerName": "Flow.Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel",
   "language": "zh_CN",
   "value": "□□",
   "isOutOfDate": false
}
```

Delete the Translated Value of a Survey Field

After a survey field is translated into a particular language, you can delete the translated value of the survey field.



Note: This URI can only be used for the flow process type Survey.

Syntax

URI

/services/data/vXX.X/localizedvalue/record/developerName/language

Available since release

48.0

Formats

JSON

HTTP methods

DELETE

Request body

None

Request parameters

Parameter	Description
developerName	The developer name of the flow field. For example, Flow.Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel
language	Language of the translated field. Possible values are: da nl_NL fi fr de

Delete the Translated Value of Multiple Survey Fields in One or More Languages

After survey fields are translated into one or more languages, you can delete the translated values of multiple survey fields.



Note: This URI can only be used for the flow process type Survey.

Syntax

URI

/services/data/v**XX.X**/localizedvalue/records/delete

Available since release

48.0

Formats

JSON

HTTP methods

POST

Request body JSON example

Request parameters

Parameter	Description
developerName	Required. Developer name of the flow field.
language	Required. Language into which the flow field was translated.

Response body

None

Get Translated Value of a Survey Field

After a survey field is translated into a particular language, you can use this resource to the translated value of the survey field.



Note: This URI can only be used for the flow process type Survey.

Syntax

URI

/services/data/vXX.X/localizedvalue/record/developerName/language

Available since release

48.0

Formats

JSON

HTTP methods

GET

Request body

None

Request parameters

Path Parameter	Description
developerName	Required. The developer name of the flow field. For example, Flow.Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel
language	Required. Language of the translated field. Possible values are:
	danl_NL
	• fi
	• fr
	• de

Response parameters

Parameter	Description
createdBy	ID of the user who translated the flow field.
createdDate	Date and time the flow field was translated.
developerName	Developer name of the flow field.
language	Language into which the flow field was translated.
value	Translated value of the flow field.
isOutofDate	Indicates if the flow field is out of date.

Example Response Body

```
"createdBy": "005xxx",
  "createdDate": "2018-09-14T00:10:30Z",
  "developerName": "Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel",
  "language": "zh_CN",
  "value": "□□",
  "isOutOfDate": true
}
```

Get the Translated Values of Multiple Survey Fields in One or More Languages

After survey fields are translated into one or more languages, you can view the translated values of multiple survey fields in the translated languages.



Note: This URI can only be used for the flow process type Survey.

Syntax

URI

/services/data/v**XX.X**/localizedvalue/records/get

Available since release

48.0

Formats

JSON

HTTP methods

POST

Request body JSON example

```
"developerName": "Flow.Flow.MyFlow.1.Choice.Choice 1 Master.InputLabel",
  "language": "en US"
},
  "developerName": "Flow.Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel",
  "language": "zh CN"
```

Request parameters

Parameter	Description
developerName	Required. Developer name of the flow field.
language	Required. Language into which the flow field was translated.

Response parameters

Parameter	Description
createdBy	ID of the user who translated the flow field.
createdDate	Date and time the flow field was translated.
developerName	Developer name of the flow field.
language	Language into which the flow field was translated.

Reference

Parameter	Description
value	Translated value of the flow field.
isOutofDate	Indicates if the flow field is out of date.

Example response body

```
{
    "createdBy": "005xxx",
    "createdDate": "2018-09-14T00:10:30Z",
    "developerName": "Flow.Flow.MyFlow.1.Choice.Choice 1 Master.InputLabel",
    "language": "en_US",
    "value": "China",
    "isOutOfDate": true
  },
    "createdBy": "005xxx",
    "createdDate": "2018-09-14T00:10:30Z",
    "developerName": "Flow.Flow.MyFlow.1.Choice.Choice_1_Master.InputLabel",
    "language": "zh CN",
    "value": "□□",
    "isOutOfDate": true
  }
]
```

Tabs

Returns a list of all tabs—including Lightning page tabs—available to the current user, regardless of whether the user has chosen to hide tabs via the All Tabs (+) tab customization feature. This resource is available in REST API version 31.0 and later.

Syntax

URI

/services/data/v**XX.X**/tabs/

Formats

JSON, XML

HTTP methods

GET, HEAD

Authentication

Authorization: Bearer token

Request body

None

Request parameters

None

Reference Tabs

Example

Usage for getting tabs

/services/data/v55.0/tabs

Sample JSON Response body for /vxx.x/tabs/

This is a partial code sample, representing the Accounts tab.

```
[...,
 "colors" : [ {
   "color" : "6f7ccb",
   "context" : "primary",
   "theme" : "theme4"
 }, {
   "color" : "236FBD",
   "context" : "primary",
   "theme" : "theme3"
 } ],
 "custom" : false,
 "iconUrl" : "https://MyDomainName.my.salesforce.com/img/icon/accounts32.png",
 "icons" : [ {
   "contentType" : "image/png",
   "height" : 32,
   "theme" : "theme3",
   "url" : "https://MyDomainName.my.salesforce.com/img/icon/accounts32.png",
   "width" : 32
 }, {
   "contentType" : "image/png",
   "height" : 16,
   "theme" : "theme3",
   "url": "https://MyDomainName.my.salesforce.com/img/icon/accounts16.png",
   "width" : 16
 }, {
   "contentType" : "image/svg+xml",
   "height" : 0,
   "theme" : "theme4",
   "url" : "https://MyDomainName.my.salesforce.com/img/icon/t4/standard/account.svg",
   "width" : 0
   "contentType" : "image/png",
   "height" : 60,
   "theme" : "theme4",
   "url": "https://MyDomainName.my.salesforce.com/img/icon/t4/standard/account 60.png",
   "width" : 60
 }, {
   "contentType" : "image/png",
   "height" : 120,
   "theme" : "theme4",
   "url" :
"https://MyDomainName.my.salesforce.com/img/icon/t4/standard/account 120.png",
   "width" : 120
 } ],
```

Reference Themes

```
"label" : "Accounts",
"miniIconUrl" : "https://MyDomainName.my.salesforce.com/img/icon/accounts16.png",
"name" : "standard-Account",
"sobjectName" : "Account",
"url" : "https://MyDomainName.my.salesforce.com/001/o",
...]
```

Themes

Gets the list of icons and colors used by themes in the Salesforce application. Theme information is provided for objects in your organization that use icons and colors in the Salesforce UI.

The If-Modified-Since header can be used with this resource, with a date format of EEE, dd MMM yyyy HH:mm:ss z. When this header is used, if the object metadata has not changed since the provided date, a 304 Not Modified status code is returned, with no response body.

Syntax

URI

/services/data/v**XX.X**/theme

Available since release

29.0

Formats

JSON, XML

HTTP methods

GET

Authentication

Authorization: Bearer token

Request body

None

Request parameters

None

Response data

An array of theme items. Each theme item contains the following fields:

Name	Туре	Description
colors	array of theme colors	Array of theme colors.
icons	array of theme icons	Array of theme icons.
name	string	Name of the object that the theme colors and icons are associated with.

Each theme color contains the following fields:

Reference Themes

Name	Туре	Description
color	string	The color described in Web color RGB format, for example, "00FF00".
context	string	The color context, which determines whether the color is the main color ("primary") for the object, or not.
theme	string	The associated theme. Possible values include:
		 theme2—Theme used prior to Spring '10, called the "Salesforce Classic 2005 user interface theme"
		 theme3—Theme introduced in Spring '10, called the "Salesforce Classic 2010 user interface theme"
		 theme4—Theme introduced in Winter '14 for the mobile touchscreen version of Salesforce, and in Winter '16 for Lightning Experience
		• custom—Theme associated with a custom icon

Each theme icon contains the following fields:

Name	Туре	Description
contentType	string	The icon's content type, for example, "image/png."
height	number	The icon's height in pixels. If the icon content type is an SVG type, height and width values are not used.
theme	string	The associated theme. Possible values include:
		 theme2—Theme used prior to Spring '10, called the "Salesforce Classic 2005 user interface theme"
		• theme3—Theme introduced in Spring '10, called the "Salesforce Classic 2010 user interface theme"
		 theme4—Theme introduced in Winter '14 for the mobile touchscreen version of Salesforce, and in Winter '16 for Lightning Experience
		• custom—Theme associated with a custom icon
url	string	The fully qualified URL for this icon.
width	number	The icon's width in pixels. If the icon content type is an SVG type, height and width values are not used.

Example

The following is an example JSON response using a request of services/data/v29.0/theme:

Reference Composite Resources

```
{
            "contentType" : "image/png",
            "width" : 32,
            "url" : "https://MyDomainName.my.salesforce.com/img/icon/computer32.png",
            "height" : 32,
            "theme" : "theme3"
        },
            "contentType" : "image/png",
            "width" : 16,
            "url" : "https://MyDomainName.my.salesforce.com/img/icon/computer16.png",
            "height" : 16,
            "theme" : "theme3"
        } ],
        "colors" : [
            "context" : "primary",
            "color" : "6666CC",
            "theme" : "theme3"
        },
            "context" : "primary",
            "color" : "66895F",
            "theme" : "theme4"
        },
    }
}
```

Composite Resources

Use REST API composite resources to improve your application's performance by minimizing the number of round-trips between the client and server.

IN THIS SECTION:

Composite

Executes a series of REST API requests in a single POST request, or retrieves a list of other composite resources with a GET request.

Composite Graphs

Composite graphs provide an enhanced way to perform composite requests, which execute a series of REST API requests in a single call.

Composite Batch

Executes up to 25 subrequests in a single request. The response bodies and HTTP statuses of the subrequests in the batch are returned in a single response body. Each subrequest counts against rate limits.

sObject Tree

Creates one or more sObject trees with root records of the specified type. An sObject tree is a collection of nested, parent-child records with a single root record.

Reference Composite

sObject Collections

Executes actions on multiple records in one request. Use sObject Collections to reduce the number of round-trips between the client and server. The response bodies and HTTP statuses of the requests are returned in a single response body. The entire request counts as a single call toward your API limits. This resource is available in API version 42.0 and later.

Composite

Executes a series of REST API requests in a single POST request, or retrieves a list of other composite resources with a GET request.

IN THIS SECTION:

Send Multiple Requests Using Composite

Executes a series of REST API requests in a single call. You can use the output of one request as the input to a subsequent request. The response bodies and HTTP statuses of the requests are returned in a single response body. The entire series of requests counts as a single call toward your API limits.

Retrieve a List of Composite Resources

Retrieves a list of URIs for other composite resources.

Send Multiple Requests Using Composite

Executes a series of REST API requests in a single call. You can use the output of one request as the input to a subsequent request. The response bodies and HTTP statuses of the requests are returned in a single response body. The entire series of requests counts as a single call toward your API limits.

The requests in a composite call are called *subrequests*. All subrequests are executed in the context of the same user. In a subrequest's body, you specify a reference ID that maps to the subrequest's response. You can then refer to the ID in the url or body fields of later subrequests by using a JavaScript-like reference notation.

For example, the following composite request body includes two subrequests. The first creates an account and designates the output as refaccount. The second creates a contact parented under the new account by referencing refaccount in the subrequest body.

```
{
"compositeRequest" : [{
    "method" : "POST",
    "url" : "/services/data/v55.0/sobjects/Account",
    "referenceId" : "refAccount",
    "body" : { "Name" : "Sample Account" }
    }, {
    "method" : "POST",
    "url" : "/services/data/v55.0/sobjects/Contact",
    "referenceId" : "refContact",
    "body" : {
        "LastName" : "Sample Contact",
        "AccountId" : "@{refAccount.id}"
        }
    }]
}
```

You can specify whether an error in a subrequest causes the whole composite request to roll back or just the subrequests that depend on it. You can also specify headers for each subrequest.

Composite is supported for the following resources.

All sObject resources (/services/data/vxx.x/sobjects/), including sObject Rows by External ID on page 130

- The Query resource (/services/data/v**xx.x**/query/?q=soql)
- The QueryAll resource (/services/data/v**XX.X**/queryAll/?q=soql)
- The sObject Collections resource (/services/data/vxx.x/composite/sobjects). Available in API version 43.0 and later.



Note: You can have up to 25 subrequests in a single call. Up to 5 of these subrequests can be sObject Collections or query operations, including Query and QueryAll requests.

URI

/services/data/v**XX.X**/composite

Formats

JSON

HTTP method

POST

Authentication

Authorization: Bearer token

Parameters

None required

Request body

Composite Request Body

Response body

Composite Response Body

Examples

For examples of using the Composite resource, see Execute Dependent Requests in a Single API Call and Update an Account, Create a Contact, and Link Them with a Junction Object.

IN THIS SECTION:

Composite Subrequest Result

The composite subrequest result describes the result for a subrequest.

Composite Request Body

Describes a collection of subrequests to execute with the Composite resource.

Composite Collection Input

The request body contains an allorNone flag that specifies how to roll back errors and a compositeRequest collection that includes subrequests to execute.

Properties

Name	Туре	Description	Required or Optional
allOrNone	Boolean	Specifies what to do when an error occurs while processing a subrequest. If the value is true, the entire composite request	Optional

Name	Туре	Description	Required or Optional
		is rolled back. The top-level request returns HTTP 200 and includes responses for each subrequest.	
		If the value is false, the remaining subrequests that don't depend on the failed subrequest are executed. Dependent subrequests aren't executed.	
		In either case, the top-level request returns HTTP 200 and includes responses for each subrequest.	
		Note: If the Composite request includes an sObject Collections request, the sObject Collections request's allorNone parameter can also affect the results. See allOrNone Parameters in Composite and Collections Requests.	
collateSubrequests	Boolean	Controls whether the API collates unrelated subrequests to bulkify them (true) or not (false).	Optional
		When subrequests are collated, the processing speed is faster, but the order of execution is not guaranteed (unless there is an explicit dependency between the subrequests).	
		If collation is disabled, then the subrequests are executed in the order in which they are received.	
		Subrequests that contain valid HTTP headers are not collated.	
		In API version 49.0 and later, the default value is true. In version 48.0, the default value is false.	
		Subrequests can be collated if they meet these conditions:	
		• The HTTP methods are the same.	
		• The API versions of the resources are the same.	
		• The parents of the resources are /sobjects resources.	
		 No more than five sObjects resources are present across a grouping of subrequests. 	
		Note: Collation can cause issues if there are implicit but not explicit dependencies between items. For example, consider a request that creates	
		• an Account	
		 a Contact related to the Account 	
		 a custom object that has a trigger dependent on the account name. 	
		The Account and the custom object are collated, since there is no explicit dependency. But the custom object's trigger may fail because there is no guarantee that the Account is created first.	

Name	Туре	Description	Required or Optional
		If you have relationships like this where you need to control the order of execution, set collateSubrequests to false. Available in API version 48.0 and later. (In earlier versions, subrequests cannot be collated.)	
compositeReq	ruest Composite Subrequest[]	Collection of subrequests to execute.	Required

JSON example

Composite Subrequest

Contains the resource, method, headers, body, and reference ID for the subrequest.

Properties

Name	Туре	Description	Required or Optional
body	Varies	The input body for the subrequest.	Optional
		The type depends on the request specified in the $\ensuremath{\mathtt{url}}$ property.	
httpHeaders	Map <string, String></string, 	Request headers and their values to include with the subrequest. You can include any header supported by the requested resource except for the following three headers.	Optional
		• Accept	
		 Authorization 	
		• Content-Type	
		Subrequests inherit these three header values from the top-level request. Don't specify these headers in a subrequest. If you do, the top-level request fails and returns an HTTP 400 response.	

Name	Туре	Description	Required or Optional
		Note: Subrequests that contain valid HTTP headers cannot be collated, which slows the processing speed of the request.	
method	String	The method to use with the requested resource. Possible values are POST, PUT, PATCH, GET, and DELETE (case-sensitive). For a list of valid methods, refer to the documentation for the requested resource.	Required
referenceId	String	Reference ID that maps to the subrequest's response and can be used to reference the response in later subrequests. You can reference the referenceId in either the body or URL of a subrequest. Use this syntax to include a reference: @ {referenceId.FieldName}.	Required
		You can use two operators with the reference ID.	
		The . operator references a field on a JSON object in the response. For example, let's say you retrieve an account record's data in one subrequest and assign the reference ID Account1Data to the output. You can refer to the account's name in later subrequests like this: @ {Account1Data.Name}.	
		The [] operator indexes a JSON collection in the response. For example, let's say you request basic account information with the sObject Basic Information resource in one subrequest and assign the reference ID AccountInfo to the output. Part of the response includes a collection of recently created accounts. You can refer to the ID of the first account in the recent items collection like this: @ {AccountInfo.recentItems[0].Id}.	
		You can use each operator recursively as long as it makes sense in the context of the response. For example, to refer to the billing city component of an account's compound address field: @{NewAccount.BillingAddress.city}.	
		referenceId is case-sensitive, so pay close attention to the case of the fields you're referring to. See Usage.	
		 Note: The referenceId must start with a letter or a number. The referenceId must not contain anything besides letters, numbers, or underscores ('_'). 	

Name	Туре	Description	Required or Optional
url	String	The resource to request.	Required
		• The URL can include any query string parameters that the subrequest supports. The query string must be URL-encoded.	
		• You can use parameters to filter response bodies.	
		• The URL must start with /services/data/vXX.X/.	

JSON examples

Example 1

```
"method" : "GET",
"url" : "/services/data/v55.0/sobjects/Account/describe",
"httpHeaders" : { "If-Modified-Since" : "Tue, 31 May 2016 18:00:00 GMT" },
"referenceId" : "AccountInfo"
}
```

Example 2

```
"method": "POST",
   "url": "/services/data/v55.0/sobjects/Account",
   "referenceId": "refAccount",
   "body": { "Name": "Sample Account" }
}
```

Example 3

```
"method" : "GET",
  "url" : "/services/data/v55.0/sobjects/Account/@{refAccount.id}",
  "referenceId" : "NewAccountFields"
}
```

Example 4

```
"method" : "PATCH",
   "url" : "/services/data/v55.0/sobjects/Account/ExternalAcctId__c/ID12345",
   "referenceID" : "NewAccount",
   "body" : { "Name" : "Acme" }
}
```

Usage

Because referenceId is case-sensitive, it's important to note the case of the fields that you're referring to. The same field can use different cases in different contexts. For example, when you create a record, the ID field appears as id in the response. But when you access a record's data with the sObject Rows resource, the ID field appears as Id. In Example 3, the @{refaccount.id} reference is valid because refaccount refers to the response from a POST like that shown in Example 2. If you use Id instead (mixed case rather than all lowercase), as in @{refaccount.Id}, you get an error when sending the request because the reference ID uses the wrong case.



Note: You can have up to 25 subrequests in a single call. Up to 5 of these subrequests can be sObject Collections or query operations, including Query and QueryAll requests.

Composite Response Body

Describes the result of a Composite request.

Composite Results

Properties

Name	Туре	Description
compositeResponse	Composite Subrequest Result on page 291[]	Collection of subrequest results

JSON example

Composite Subrequest Result

The composite subrequest result describes the result for a subrequest.

Properties

Name	Туре	Description
body	The type depends on the response type of the subrequest.	The response body of this subrequest. See the documentation for the subrequest resource for more information.
		If the subrequest returns an error, the body includes the error code and message. For more details on error responses, see Status Codes and Error Responses.
httpHeaders	Map <string, string=""></string,>	Response headers and their values for this subrequest. The Composite resource doesn't support the Content-Length header, so subrequest responses don't include this

Name	Туре	Description
		header and neither does the top-level response.
httpStatusCode	Integer	An HTTP status code for this subrequest. If allOrNone is set to true in the composite request and a subrequest returns an error, all other subrequests return the 400 HTTP status code.
referenceId	String	The reference ID specified in the subrequest. This property lets you easily associate subrequests with their results.

Example

```
"body": {
    "id": "001R00000064wdtIAA",
    "success": true,
    "errors": []
},
"httpHeaders": {
    "Location": "/services/data/v55.0/sobjects/Account/001R00000064wdtIAA"
},
"httpStatusCode": 201,
"referenceId": "refAccount"
}
```

The following example shows the response for a subrequest that had an error while trying to create a Contact:

```
"body" : [ {
    "message" : "Email: invalid email address: Not a real email address",
    "errorCode" : "INVALID_EMAIL_ADDRESS",
    "fields" : [ "Email" ]
} ],
    "httpHeaders" : { },
    "httpStatusCode" : 400,
    "referenceId" : "badContact"
}
```

Behavior and Responses If There Are Illegal Characters in Reference IDs

The referenceIds must not contain anything besides letters, numbers, and underscores ('_').

The API's behavior if there are illegal characters depends on the API version and the release. (The pertinent API version is that used to make the composite request. That version isn't necessarily the same as the API version specified in the url parameters in the subrequests.)

For example, consider the following request. It attempts to do the following:

- Create an account named "Cloudy Consulting".
- Create a Contact, "Mary Smith", linked to the Cloudy Consulting account.

• Create another new account, named "Easy Spaces".

It has illegal characters in the first reference ID, refNewAccount [1].

```
"allOrNone": false,
"compositeRequest": [
    "method": "POST",
    "body": {
      "name": "Cloudy Consulting"
    },
    "url": "/services/data/vXX.X/sobjects/Account/",
    "referenceId": "refNewAccount[1]"
  },
  {
    "method": "POST",
    "body": {
      "AccountId": "@{refNewAccount[1].id}",
      "FirstName": "Mary",
      "LastName": "Smith"
    "url": "/services/data/vXX.X/sobjects/Contact",
    "referenceId": "refNewContact"
  },
  {
    "method": "POST",
    "body": {
     "name": "Easy Spaces"
    },
    "url": "/services/data/vXX.X/sobjects/Account/",
    "referenceId": "refNewAccount2"
]
```

Version 51.0 and Earlier

In API version 51.0 and earlier, illegal characters in a reference ID cause all the subrequests that use that reference ID to fail. In this example, the response is:

```
"body" : [
           {
              "errorCode" : "PROCESSING HALTED",
              "message" : "Invalid reference specified. No value for refNewAccount[1].id
found in refNewAccount.
        ],
        "httpHeaders" : { },
        "httpStatusCode" : 400,
        "referenceId" : "refNewContact"
     },
     {
        "body" : {
           "id" : "001R0000006hfeeIAA",
           "success" : true,
           "errors" : [ ]
        },
        "httpHeaders" : {
           "Location": "/services/data/v51.0/sobjects/Account/001R0000006hfeeIAA"
        "httpStatusCode" : 201,
        "referenceId" : "refNewAccount2"
  ]
```

The two accounts are created (even though the first account uses illegal characters in its reference ID). But the attempt to create a contact (using the reference ID containing illegal characters) fails.

Responses for Version 51.0 and Earlier in Previous Releases

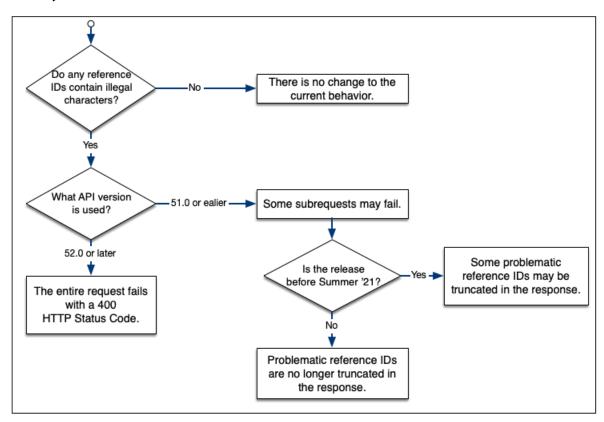
The response shown above is that for the Summer '21 release and later. In releases before Summer '21, problematic reference IDs in the response were truncated if the IDs contained '(' or '['. So the response would have been:

Starting with the Summer '21 release, problematic reference IDs are no longer truncated. This change makes it easier to match the parts of the response to the request.

Version 52.0 and Later

In API version 52.0 and later, any illegal characters in reference IDs cause the whole request to fail. The response to the example above is:

Summary



Behavior for References to Null Fields

The API's behavior if there are references to null fields depends on the API version. (The pertinent API version is that used to make the composite request. That version isn't necessarily the same as the API version specified in the url parameters in the subrequests.)



Note: This behavior only applies to requests where the parent request uses an sObject Rows resource (for example, /services/data/vXX.X/sobjects/Contact/id).

For example, consider this request. It locates an existing Contact and then uses @{refContact.FirstName} and @{refContact.LastName} to create a record.

```
POST https://MyDomainName.my.salesforce.com/services/data/vXX.X/composite -H "Authorization: Bearer token"

"compositeRequest" : [
```

```
"method" : "GET",
         "url" :
"/services/data/v51.0/sobjects/Contact/003R00000016kOuYAI?fields=FirstName,LastName",
         "referenceId" : "refContact"
      },
      {
         "method" : "POST",
         "url" : "/services/data/v51.0/sobjects/Contact",
         "referenceId" : "newContact",
         "body" : {
            "FirstName" : "@{refContact.FirstName}",
            "LastName" : "@{refContact.LastName}",
            "AccountId" : "001R0000001nGCdYAM"
      }
   ]
}
```

What happens if the Contact's first name is null (not set)?

Responses for Version 51.0 and Earlier

In API version 51.0 and earlier, the fact that the Contact's FirstName field is null causes the dependent subrequest to fail.

```
"compositeResponse" : [
        "body" : {
           "attributes" : {
              "type" : "Contact",
              "url" : "/services/data/v51.0/sobjects/Contact/003R00000016kOuYAI"
           "FirstName" : null,
           "LastName" : "Wong",
           "Id" : "003R0000016k0uYAI"
        },
        "httpHeaders" : { },
        "httpStatusCode" : 200,
        "referenceId" : "refContact"
    },
        "body" : [
              "errorCode" : "PROCESSING HALTED",
             "message" : "Invalid reference specified. No value for refContact.FirstName
found in refContact.
             Provided referenceId ('refContact.FirstName') must start with a letter or a
number,
             and it can contain only letters, numbers and underscores (' ')."
       ],
        "httpHeaders" : { },
       "httpStatusCode" : 400,
        "referenceId" : "newContact"
```

```
]
```

That example assumes that allorNone is set to false. If it's true, the whole composite request is rolled back. See allOrNone Parameters in Composite and Collections Requests.

Responses for Version 52.0 and Later

In API version 52.0 and later, the request succeeds.

```
"compositeResponse" : [
   {
      "body" : {
         "attributes" : {
            "type" : "Contact",
            "url" : "/services/data/v51.0/sobjects/Contact/003R00000016kOuYAI"
         "FirstName" : null,
         "LastName" : "Wong",
         "Id" : "003R0000016k0uYAI"
      },
      "httpHeaders" : { },
      "httpStatusCode" : 200,
      "referenceId" : "refContact"
   },
      "body" : {
         "id" : "003R00000016kRAYAY",
         "success" : true,
         "errors" : [ ]
      },
      "httpHeaders" : {
         "Location": "/services/data/v51.0/sobjects/Contact/003R00000016kRAYAY"
      },
      "httpStatusCode" : 201,
      "referenceId" : "newContact"
   }
]
```

Behavior for References to Fields That Aren't Specified in the Parent Request

In dependent subrequests, you must always only use fields that are explicitly selected in parent requests. If this practice isn't followed, the API's behavior depends on the API version. (The pertinent API version is that used to make the composite request. That version isn't necessarily the same as the API version specified in the url parameters in the subrequests.)

For example, consider the following request. It attempts to:

- 1. Locate a specific Contact.
- 2. Use @{refContact.records[0].AccountId} to get that Contact's Account ID.

However, the parent request doesn't explicitly query for the AccountId.

```
POST https://MyDomainName.my.salesforce.com/services/data/vXX.X/composite -H "Authorization: Bearer token"
```

Composite Reference

```
{
   "compositeRequest" : [
         "method" : "GET",
         "url" : "/services/data/v51.0/query?q=select Id, Account.Name from Contact where
Id='003R00000016kOuYAI'",
         "referenceId" : "refContact"
      },
      {
         "method" : "GET",
         "url" : "/services/data/v50.0/query?q=select Name from Account where Id =
'@{refContact.records[0].AccountId}'",
         "referenceId" : "refAccount"
      }
  ]
```

Responses for Version 51.0 and Earlier

In API version 51.0 and earlier, there are rare cases where such a request succeeds.



🕜 Note: The fact that a request like this sometimes succeeds should never be relied upon. If you plan to use a field from a parent request's result, you should always explicitly select that field in the parent request.

Responses for Version 52.0 and Later

In API version 52.0 and later, the request always fails:

```
"compositeResponse" : [
      "body" : {
         "totalSize" : 1,
         "done" : true,
         "records" : [
            {
               "attributes" : {
                  "type" : "Contact",
                  "url" : "/services/data/v51.0/sobjects/Contact/003R00000016kOuYAI"
               },
               "Id" : "003R0000016k0uYAI",
               "Account" : {
                  "attributes" : {
                     "type" : "Account",
                    "url" : "/services/data/v51.0/sobjects/Account/001R0000001nGbUYAU"
                  "Name" : "City Medical Center"
               }
            }
         ]
      },
      "httpHeaders" : { },
      "httpStatusCode" : 200,
      "referenceId" : "refContact"
```

To make such a request work, you must explicitly obtain the AccountId in the parent request:

allorNone Parameters in Composite and Collections Requests

If a Composite request uses sObject Collections, there are two or more allorNone parameters that can interact, one on the Composite request and one on each sObject Collections subrequest.

- If the Composite request has allorNone set to true, then the all-or-none behavior also applies to each of the sObject Collections subrequests, overriding the value of allorNone in the subrequests.
- If the Composite request has allorNone set to false, then each sObject Collections subrequest behaves according to its value of allorNone.

Consider, for example, what happens with this job where a Composite request includes two items: an sObject Collections request and a request to create a Contact. The sObject Collections request tries to create two Accounts, one of which fails because there is already an existing Account with the same information.

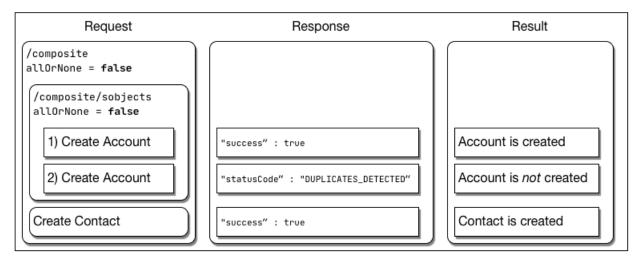
```
POST https://MyDomainName.my.salesforce.com/services/data/v55.0/composite -H "Authorization: Bearer token"
```

```
{
   "allOrNone" : outerFlag,
   "collateSubrequests" : false,
   "compositeRequest" : [
         "method" : "POST",
         "url" : "/services/data/v55.0/composite/sobjects",
         "body" : {
            "allOrNone" : innerFlag,
            "records" : [
                  "attributes" : { "type" : "Account" },
                  "Name" : "Northern Trail Outfitters",
                  "BillingCity" : "San Francisco"
               },
                  "attributes" : { "type" : "Account" },
                  "Name" : "Easy Spaces",
                  "BillingCity" : "Calgary"
            ]
         "referenceId" : "newAccounts"
      },
         "method" : "POST",
         "url" : "/services/data/v55.0/s0bject/Contact",
         "body" : {
                "FirstName" : "John",
                "LastName" : "Smith"
         "referenceId" : "newContact"
   ]
}
```

The **outerFlag** and **innerFlag** parameters are either true or false, which leads to four possible cases.

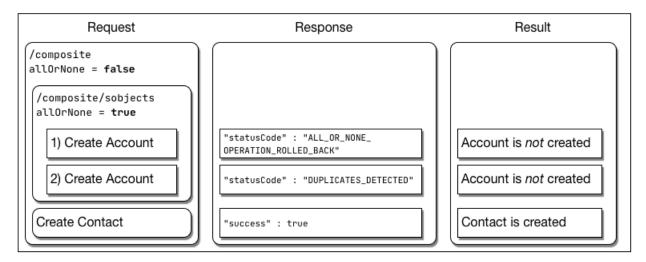
Case 1: outerFlag = false, innerFlag = false

In this case, neither request has allorNone set to true, so neither request is rolled back. One account is created and one fails.



Case 2: outerFlag = false, innerFlag = true

In this case, the inner sObject Collections request has allorNone set to true, so it is rolled back. The outer Composite request is not rolled back.



Case 3: outerFlag = true, innerFlag = true

In this case, both requests have allOrNone set to true, so they are both rolled back.



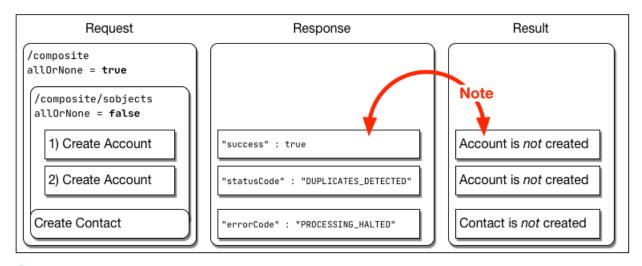
Case 4: outerFlag = true, innerFlag = false

The response body for this case is:

```
{
   "compositeResponse" : [
         "body" : [
            {
               "id" : "001R00000066cndIAA",
               "success" : true,
               "errors" : [ ]
            },
               "success" : false,
               "errors" : [
                     "statusCode" : "DUPLICATES_DETECTED",
                     "message" : "Use one of these records?",
                     "fields" : [ ]
               ]
            }
         ],
         "httpHeaders" : { },
         "httpStatusCode" : 200,
         "referenceId" : "collection1"
      },
         "body" : [
            {
               "errorCode" : "PROCESSING_HALTED",
              "message": "The transaction was rolled back since another operation in the
same transaction failed."
         ],
         "httpHeaders" : { },
         "httpStatusCode" : 400,
         "referenceId" : "newContact"
```

```
}
1
}
```

In this case, the inner sObject Collections request has allorNone set to false, so it is not immediately rolled back. However, the outer Composite request has allorNone set to true so it is rolled back, which also rolls back the inner sObject Collections request.





Note: Even though the response body for sObject Collections request shows "success": true for the creation of the first Account, the fact that the Composite request is rolled back means that the Account creation is rolled back. The final result is that the new Account is *not* created.

Retrieve a List of Composite Resources

Retrieves a list of URIs for other composite resources.

URI

/services/data/v**XX.X**/composite

Formate

JSON

HTTP method

GFT

Authentication

Authorization: Bearer token

Parameters

None required

Request body

None required

Response body

```
"tree": "/services/data/v54.0/composite/tree",
   "batch": "/services/data/v54.0/composite/batch",
   "sobjects": "/services/data/v54.0/composite/sobjects",
   "graph": "/services/data/v54.0/composite/graph"
}
```

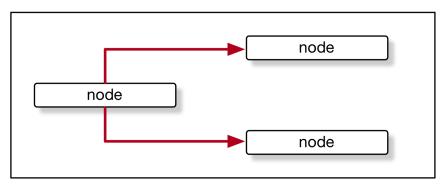
Composite Graphs

Composite graphs provide an enhanced way to perform composite requests, which execute a series of REST API requests in a single call.

- Regular composite requests allow you to execute a series of REST API requests in a single call. And you can use the output of one request as the input to a subsequent request.
- Composite graphs extend this by allowing you to assemble a more complicated and complete series of related objects and records.
- Composite graphs also enable you to ensure that the steps in a given set of operations are either all completed or all not completed. This avoids requiring you to check for a mix of successful and unsuccessful results.
- Regular composite requests have a limit of 25 subrequests. Composite graphs increase this limit to 500. This gives a single API call much greater power.

Defining Composite Graphs

In general, a graph is a collection of connected nodes.



In the context of composite graph operations, the nodes are composite subrequests. For example, a node can be a composite subrequest like this:

```
"url" : "/services/data/v55.0/sobjects/Account/",
"body" : {
        "name" : "Cloudy Consulting"
},
"method" : "POST",
"referenceId" : "reference_id_account_1"
}
```

Each node features an endpoint representing a record.

For composite graph operations, only these URLs are supported in composite requests.

URL	Supported HTTP Methods
/services/data/v XX.X /sobjects/ s0bject	POST
	See sObject Basic Information.
/services/data/v XX.X /sobjects/ sObject / id	DELETE, GET, PATCH
	See sObject Rows.

URL

Supported HTTP Methods

/services/data/v**XX.X**/sobjects/**sobject/austonFieldName/externalId** DELETE, GET, PATCH, POST

See sObject Rows by External ID.

A composite graph can be *directed* meaning that some nodes use information from other nodes. For example, a node that creates a Contact can use the ID of an Account node to link the Contact with the Account.



For example:

```
"graphs": [{
   "graphId": "graph1",
   "compositeRequest": [{
         "body": {
            "name": "Cloudy Consulting"
         "method": "POST",
         "referenceId": "reference id account 1",
         "url": "/services/data/v55.0/sobjects/Account/"
         "body": {
            "FirstName": "Nellie",
            "LastName": "Cashman",
            "AccountId": "@{reference id account 1.id}"
         },
         "method": "POST",
         "referenceId": "reference_id_contact_1",
         "url": "/services/data/v55.0/sobjects/Contact/"
   ]
} ]
```

Defining Composite Graphs in JSON

A composite graph is defined in JSON like this:

```
{
   "graphId" : "graphId",
   graph
}
```

In other words, like this, where each *compositeSubrequest* is a composite subrequest:

```
"graphId" : "graphId",
```

```
"compositeRequest" : [
    compositeSubrequest,
    compositeSubrequest,
    ...
]
```

The **graphId** parameters enable you to identify the graphs when viewing the response. They need not be numeric, but they must follow these restrictions:

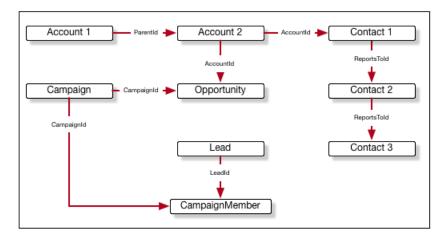
- They must be unique within each composite graph operation.
- They must begin with an alphanumeric character.
- They must be less that 40 characters long.
- They can't contain a period ('.').

A single composite graph request can use one or more composite graphs. See Using a Composite Graph.

Example: Create Accounts, Contacts, Campaigns, Opportunities, Leads, and CampaignMembers with a Composite Graph Request

This example shows a composite graph that performs the following actions:

- **1.** Create Account 1.
- 2. Create Account 2 as a child of Account 1.
- **3.** Create:
 - a. Contact 1, linked to Account 2.
 - **b.** Contact 2, who reports to Contact 1.
 - **c.** Contact 3 who reports to Contact 2.
- 4. Create a Campaign.
- 5. Create an Opportunity linked to Account 2 and the Campaign.
- **6.** Create a Lead.
- 7. Create a CampaignMember linked to the Lead and the Campaign.



The JSON for this graph is:

```
{
   "graphId" : "1",
   "compositeRequest" : [
      {
         "url" : "/services/data/v55.0/sobjects/Account/",
         "body" : {
           "name" : "Cloudy Consulting",
           "description" : "Parent account"
         },
         "method" : "POST",
         "referenceId" : "reference id account 1"
      },
      {
         "url" : "/services/data/v55.0/sobjects/Account/",
         "body" : {
          "name" : "Easy Spaces",
           "description" : "Child account",
          ."ParentId" : "@{reference id account 1.id}"
         "method" : "POST",
         "referenceId" : "reference id account 2"
      },
         "url" : "/services/data/v55.0/sobjects/Contact/",
         "body" : {
          "FirstName" : "Sam",
           "LastName" : "Steele",
           "AccountId" : "@{reference id account 2.id}"
         },
         "method" : "POST",
         "referenceId" : "reference id contact 1"
      },
         "url" : "/services/data/v55.0/sobjects/Contact/",
         "body" : {
           "FirstName" : "Charlie",
           "LastName" : "Dawson",
           "ReportsToId" : "@{reference id contact 1.id}"
         },
         "method" : "POST",
         "referenceId" : "reference id contact 2"
      },
         "url" : "/services/data/v55.0/sobjects/Contact/",
         "body" : {
           "FirstName" : "Nellie",
           "LastName" : "Cashman",
           "ReportsToId" : "@{reference id contact 2.id}"
         "method" : "POST",
         "referenceId" : "reference_id_contact_3"
      },
```

```
"url" : "/services/data/v55.0/sobjects/Campaign/",
     "body" : {
       "name" : "Spring Campaign"
     } ,
     "method" : "POST",
     "referenceId" : "reference id campaign"
  },
     "url" : "/services/data/v55.0/sobjects/Opportunity/",
     "body" : {
       "name" : "Opportunity",
       "stageName" : "Value Proposition",
       "closeDate" : "2025-12-31",
       "CampaignId" : "@{reference id campaign.id}",
       "AccountId" : "@{reference id account 2.id}"
     },
     "method" : "POST",
     "referenceId" : "reference id opportunity"
  },
     "url" : "/services/data/v55.0/sobjects/Lead/",
     "body" : {
       "FirstName" : "Belinda",
       "LastName" : "Mulroney",
       "Company" : "Klondike Quarry",
       "Email" : "bmulroney@example.com"
     },
     "method" : "POST",
     "referenceId" : "reference id lead"
  },
     "url" : "/services/data/v55.0/sobjects/CampaignMember/",
     "body" : {
       "CampaignId" : "@{reference id campaign.id}",
       "LeadId" : "@{reference id lead.id}"
     },
     "method" : "POST",
     "referenceId" : "reference_id_campaignmember"
1
```

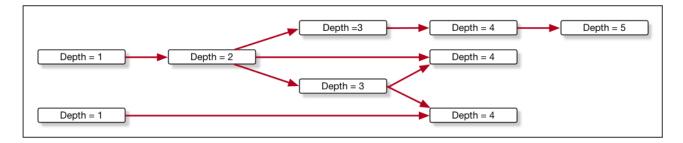
Example: GET Details About a Resource and Then Use Them in a Composite Graph Request

This example shows how you can use GET on a resource, and then use properties of that resource in subsequent requests.

```
"method" : "GET",
            "url" : "/services/data/v55.0/sobjects/Account/001R0000003fSRrIAM",
            "referenceId" : "refAccount"
         },
            "body" : {
               "name" : "Amazing opportunity for @{refAccount.Name}",
               "StageName" : "Stage 1",
               "CloseDate": "2025-06-01T23:28:56.782Z",
               "AccountId" : "@{refAccount.Id}"
            },
            "method" : "POST",
            "url": "/services/data/v55.0/sobjects/Opportunity",
            "referenceId" : "newOpportunity"
      ]
   }
1
```

Graph Depth

- Nodes with no parents are considered to be at depth 1.
- The depth of another node is the maximum number of edges in the graph from depth 1 to that node. An edge between two nodes occurs when the one node uses a property (such as @{reference account.id}) from another node.



The AllOrNone Parameter

In standard composite operations, the only control over what happens if an error occurs is the allorNone parameter. If the value is true, the entire composite request is rolled back. If the value is false, the remaining subrequests that don't depend on the failed subrequest are executed. Dependent subrequests aren't executed. This can lead to a mix of processed and unprocessed records.

Composite graphs have the advantage that each graph is guaranteed to either complete all its subrequests successfully or to be rolled back completely. In other words, the allorNone parameter is implicitly considered to be true for each graph. This means that there will never be a mix of processed and unprocessed records within a graph.

To ensure that graphs are independent, the following rules apply:

- 1. Subrequests in one graph can't reference subrequests from another graph.
- **2.** Each graph in one composite graph operation must be independent. If one graph can't be processed successfully, that must not prevent other graphs in the same operation from being processed.

Best Practices

As a general practice, keep your graphs as small as possible. For example, it's more efficient to have 50 graphs with 10 nodes rather than 1 graph with 500 nodes. Keeping graphs small has two advantages:

- If one item in a graph fails, only the items in that graph are rolled back. This makes it easier to handle errors.
- The server can process multiple, smaller graphs faster and more efficiently.

Example: Submitting a Composite Graph Job

For an example showing how to submit a composite graph job, see Using a Composite Graph.

IN THIS SECTION:

Composite Subrequest

The composite subrequest describes a subrequest to execute with the Composite Graph resource.

Composite Graph Reference

The composite graph resource lets you submit composite graph operations.

Composite Graph Limits

Composite graphs have these limits.

Composite Subrequest

The composite subrequest describes a subrequest to execute with the Composite Graph resource.

Properties

Name	Туре	Description
body	Varies	Optional.
		The input body for the subrequest.
		The contents depend on the request specified in the url property.
httpHeaders	Map <string, string=""></string,>	Optional.
		Request headers and their values to include with the subrequest. You can include any header supported by the requested resource except for the following three headers.
		• Accept
		 Authorization
		Content-Type
		Subrequests inherit these three header values from the top-level request. Don't specify these headers in a subrequest. If you do, the top-level request fails and returns an HTTP 400 response.
		Note: Subrequests that contain valid HTTP headers cannot be collated, which slows the processing speed of the request.

Name	Туре	Description
method	String	Required.
		The method to use with the requested resource. Possible values are DELETE, GET, PATCH, and POST (case-sensitive). For a list of valid methods, refer to the documentation for the requested resource.
		This method is distinct from the POST method that is used to submit the composite graph request. The method specified here is the one that operates (within the graph) on the resource specified in the url.
		• If the url is/services/data/vXX.X/sobject/ sObject then POST is supported. (See sObject Basic Information.)
		 If the url is /services/data/vXX.X/sobject/sObject/id then DELETE, GET, and PATCH are supported. (See sObject Rows.)
		• If the url is /services/data/v XX.X /sobject/ sObject / custonFieldName / externalId then DELETE, GET, PATCH, and POST are supported. You can use PATCH to upsert via an external ID). See Insert or Update (Upsert) a Record Using an External ID.
referenceId	String	Required.
		Reference ID that maps to the subrequest's response and can be used to reference the response in later subrequests. You can reference the referenceId in either the body or URL of a subrequest. Use this syntax to include a reference: @ { referenceId.FieldName }.
		You can use two operators with the reference ID.
		The operator references a field on a JSON object in the response. For example, say you retrieve an account record's data in one subrequest and assign the reference ID Account1Data to the output. You can refer to the account's name in later subrequests like this: @ {Account1Data.Name}.
		The [] operator indexes a JSON collection in the response. For example, say you request basic account information with the sObject Basic Information resource in one subrequest and assign the reference ID AccountInfo to the output. Part of the response includes a collection of recently created accounts. You can refer to the ID of the first account in the recent items collection like this: @{AccountInfo.recentItems[0].Id}.
		You can use each operator recursively as long as it makes sense in the context of the response. For example, to refer to the billing city component of an account's compound address field: @ {NewAccount.BillingAddress.city}.
		referenceId is case-sensitive, so pay close attention to the case of the fields you're referring to. See Usage.
		Mote:
		 The referenceId must start with a letter or a number.

Name	Туре	Description	
		 The referenceId must not contain anything besides letters, numbers, or underscores ('_'). 	
url String		Required. The resource to request.	
		 The URL can include any query string parameters that the subrequest supports. The query string must be URL-encoded. You can use parameters to filter response bodies. Only the following URLs are supported: /services/data/vXX.X/sobject/sObject /services/data/vXX.X/sobject/sObject/astanFielcName/externalId /services/data/vXX.X/sobject/astanFielcName/externalId 	
		• The version number xx.x must be 50.0 or later.	

Examples

Example 1

```
"body" : {
    "Name" : "Sample Account"
},
    "method" : "POST",
    "referenceId" : "refAccount",
    "url" : "/services/data/v55.0/sobjects/Account"
}
```

Example 2

```
"method" : "GET",
   "referenceId" : "NewAccountFields",
   "url" : "/services/data/v55.0/sobjects/Account/@{refAccount.id}"
}
```

Usage

Because referenceId is case-sensitive, it's important to note the case of the fields that you're referring to. The same field can use different cases in different contexts. For example, when you create a record, the ID field appears as id in the response. But when you access a record's data with the sObject Rows resource, the ID field appears as Id. In the Example 2, the @{refAccount.id} reference is valid because refAccount refers to the response from a POST like that shown in Example 1. If you use Id instead (mixed case rather than all lowercase), as in @{refAccount.Id}, you get an error when sending the request because the reference ID uses the wrong case.

Results

Results for subrequests are the same as that for other Composite requests. See Composite Subrequest Result on page 291.

Composite Graph Reference

The composite graph resource lets you submit composite graph operations.

Syntax

URI

/services/data/v**XX.X**/composite/graph

Available since release

This resource is available in API version 50.0 and later.

Formats

JSON

HTTP methods

POST

Authentication

```
Authorization: Bearer token
```

Request parameters

None

Request Body

```
{
   "graphId" : "graphId",
   "compositeRequest" : [
        compositeSubrequest,
        compositeSubrequest,
        ...
]
```

where each *compositeSubrequest* is a composite subrequest.

Example

```
"url" : "/services/data/v55.0/sobjects/Contact/",
                "body" : {
                    "FirstName" : "Nellie",
                     "LastName" : "Cashman",
                     "AccountId" : "@{reference id account 1.id}"
                },
                "method" : "POST",
                "referenceId" : "reference id contact 1"
            },
                "url" : "/services/data/v55.0/sobjects/Opportunity/",
                 "body" : {
                     "CloseDate": "2024-05-22",
                     "StageName" : "Prospecting",
                     "Name" : "Opportunity 1",
                     "AccountId" : "@{reference id account 1.id}"
                },
                "method" : "POST",
                "referenceId" : "reference id opportunity 1"
            }
        ]
    },
        "graphId" : "2",
        "compositeRequest" : [
            {
                 "url" : "/services/data/v55.0/sobjects/Account/",
                "body" : {
                    "name" : "Easy Spaces"
                "method" : "POST",
                "referenceId" : "reference_id_account_2"
            },
                "url" : "/services/data/v55.0/sobjects/Contact/",
                 "body" : {
                     "FirstName" : "Charlie",
                    "LastName" : "Dawson",
                     "AccountId" : "@{reference id account 2.id}"
                },
                "method" : "POST",
                "referenceId" : "reference_id_contact_2"
            }
        ]
    }
]
```

Response Body

```
{    "graphs" : [
```

Name	Туре	Description
graphs	Array of graph responses.	
graphId	String	The identifier of the graph.
graphResponse	Object	The response of the request.
compositeResponse	Array of composite subrequest results on page 291.	Results for each node in the graph.
isSuccessful	Boolean	Whether this graph was processed successfully (true) or not (false).

Example

```
"graphs" : [
      "graphId" : "1",
      "graphResponse" : {
         "compositeResponse" : [
            {
               "body" : {
                  "id" : "001R00000064wc7IAA",
                  "success" : true,
                  "errors" : [ ]
               },
               "httpHeaders" : {
               "Location": "/services/data/v55.0/sobjects/Account/001R00000064wc7IAA"
               },
               "httpStatusCode" : 201,
               "referenceId" : "reference_id_account_1"
            },
               "body" : {
                  "id" : "003R00000DDMlTIAX",
```

```
"success" : true,
                     "errors" : [ ]
                  },
                  "httpHeaders" : {
                  "Location": "/services/data/v55.0/sobjects/Contact/003R00000DDMlTIAX"
                 },
                  "httpStatusCode" : 201,
                  "reference_id_contact_1"
               },
               {
                  "body" : {
                     "id" : "006R0000003FPYxIAO",
                     "success" : true,
                     "errors" : [ ]
                  },
                  "httpHeaders" : {
                     "Location" :
"/services/data/v55.0/sobjects/Opportunity/006R0000003FPYxIAO"
                  "httpStatusCode" : 201,
                  "referenceId" : "reference id opportunity 1"
           ]
        "isSuccessful" : true
     },
        "graphId" : "2",
        "graphResponse" : {
            "compositeResponse" : [
                  "body" : {
                     "id" : "001R00000064wc8IAA",
                     "success" : true,
                     "errors" : [ ]
                  },
                  "httpHeaders" : {
                  "Location": "/services/data/v55.0/sobjects/Account/001R00000064wc8IAA"
                  },
                  "httpStatusCode" : 201,
                  "referenceId" : "reference_id_account_2"
               },
                  "body" : {
                     "id" : "003R00000DDM1UIAX",
                    "success" : true,
                    "errors" : [ ]
                  },
                  "httpHeaders" : {
                  "Location": "/services/data/v55.0/sobjects/Contact/003R00000DDM1UIAX"
                 },
```



Note: The response bodies and HTTP statuses of the requests are returned in a single response body. The entire request counts as a single call toward your API limits.

Composite Graph Limits

Composite graphs have these limits.

General Limits on Graphs

Item	Limit
Maximum number of graphs in one payload.	75
Maximum depth of a graph.	15
Maximum number of nodes used in one graph.	500
Maximum number of different nodes in one payload.	15

Nodes are considered different if they use resources from different API versions or different types of objects.

For example:

- /services/data/v50.0/sobjects/account and/services/data/v52.0/sobjects/account are considered different.
- /services/data/vXX.X/sobjects/account and /services/data/vXX.X/sobjects/contact are considered different.

Limits on Nodes

Item	Limit
Maximum number of nodes supported in one payload.	500
	(For example, there can be one graph with 500 nodes, or 50 graphs with 10 nodes each.)

Composite Batch

Executes up to 25 subrequests in a single request. The response bodies and HTTP statuses of the subrequests in the batch are returned in a single response body. Each subrequest counts against rate limits.

The requests in a batch are called subrequests. All subrequests are executed in the context of the same user. Subrequests are independent, and you can't pass information between them. Subrequests execute serially in their order in the request body. When a subrequest executes successfully, it commits its data. Commits are reflected in the output of later subrequests. If a subrequest fails, commits made by previous subrequests are not rolled back. If a batch request doesn't complete within 10 minutes, the batch times out and the remaining subrequests aren't executed.

Batching for the following resources and resource groups is available in API version 34.0 and later.

- Limits—/services/data/v**xx.x**/limits
- sObject resources—/services/data/v**XX.X**/sobjects/
- Query—/services/data/v**xx.x**/query/?q=soq1
- QueryAll—/services/data/v**XX.X**/queryAll/?q=soq1
- Search—/services/data/v**xx.x**/search/?q=sos1
- Connect resources—/services/data/vXX.X/connect/
- Chatter resources—/services/data/v**xx.x**/chatter/

Batching for the following resources and resource groups is available in API version 35.0 and later.

Actions—vxx.x/actions

The API version of the resource accessed in each subrequest must be no earlier than 34.0 and no later than the Batch version in the top-level request. For example, if you post a Batch request to /services/data/v35.0/composite/batch, you can include subrequests that access version 34.0 or 35.0 resources. But if you post a Batch request to

/services/data/v34.0/composite/batch, you can only include subrequests that access version 34.0 resources.

URI

/services/data/vXX.X/composite/batch

Formats

JSON, XML

HTTP method

POST

Authentication

Authorization: Bearer token

Parameters

None required

Request body

Batch Request Body on page 319

Response body

Batch Response Body on page 320

Examples

For an example of using the Composite Batch resource, see Update a Record and Get Its Field Values in a Single Request on page 93.

Batch Request Body

Describes a collection of subrequests to execute with the Composite Batch resource.

Batch Collection Input

The request body contains a batchRequests collection that includes subrequests to execute.

Properties

Name	Туре	Description	Required or Optional
batchRequests	Subrequest[]	Collection of subrequests to execute.	Required
haltOnError	Boolean	Controls whether a batch continues to process after a subrequest fails. The default is false.	Optional
		If the value is false and a subrequest in the batch doesn't complete, Salesforce attempts to execute the subsequent subrequests in the batch.	
		If the value is true and a subrequest in the batch doesn't complete due to an HTTP response in the 400 or 500 range, Salesforce halts execution. It returns an HTTP 412 status code and a BATCH_PROCESSING_HALTED error message for each subsequent subrequest. The top-level request to /composite/batch returns HTTP 200, and the hasErrors property in the response is set to true.	
		This setting is only applied during subrequest processing, and not during initial request deserialization. If an error is detected during deserialization, such as a syntax error in the Subrequest request data, Salesforce returns an HTTP 400 Bad Request error without processing any subrequests, regardless of the value of haltonError. An example where this could occur is if a subrequest has an invalid method or url field.	

Root XML Tag

<batch>

JSON example

Subrequest

Contains the resource, method, and accompanying information for the subrequest.

Properties

Name	Туре	Description	Required or Optional
binaryPartName	String	The name of the binary part in the multipart request. When multiple binary parts are uploaded in one batch request,	Optional
		this value is used to map a request to its binary part. To prevent name collisions, use a unique value for each binaryPartName property in a batch request.	
		If this value exists, a binaryPartNameAlias value must also exist.	
binaryPartNameAlias	String	The name parameter in the Content-Disposition header of the binary body part. Different resources expect different values. See Insert or Update Blob Data.	Optional
		If this value exists, a binaryPartName value must also exist.	
method	String	The method to use with the requested resource. For a list of valid methods, refer to the documentation for the requested resource.	Required
richInput		The input body for the request.	Optional
		The type depends on the request specified in the ${\tt url}$ property.	
url	String	The resource to request.	Required
		• The URL can include any query string parameters that the subrequest supports. The query string must be URL-encoded.	
		You can use parameters to filter response bodies.	
		You cannot apply headers at the subrequest level.	

Root XML Tag

<request>

JSON example

```
"method" : "GET",
   "url" : "v55.0/sobjects/account/001D000000K0fXOIAZ?fields=Name,BillingPostalCode"
}
```

Batch Response Body

Describes the result of a Composite Batch request.

Batch Results

Properties

Name	Туре	Description
hasErrors	Boolean	true if at least one of the results in the result set is an HTTP status code in the 400 or 500 range; false otherwise.
results	Subrequest Result[]	Collection of subrequest results.

JSON example

```
{
  "hasErrors" : false,
  "results" : [{
     "statusCode" : 204,
     "result" : null
     },{
     "statusCode" : 200,
     "result": {
         "attributes" : {
           "type" : "Account",
           "url" : "/services/data/v55.0/sobjects/Account/001D000000K0fXOIAZ"
         },
         "Name" : "NewName",
        "BillingPostalCode" : "94105",
         "Id" : "001D000000K0fX0IAZ"
  } ]
```

Subrequest Result

Properties

Name	Туре	Description
result	The type depends on the response type of the subrequest.	e The response body of this subrequest.
	(1) Important: If the result is an error, the type is a collection containing the error message and error code.	
statusCode	Integer	An HTTP status code indicating the status of this subrequest.

JSON example

```
"attributes" : {
    "type" : "Account",
    "url" : "/services/data/v55.0/sobjects/Account/001D000000K0fXOIAZ"
},
"Name" : "NewName",
"BillingPostalCode" : "94015",
"Id" : "001D000000K0fXOIAZ"
}
```

sObject Tree

Creates one or more sObject trees with root records of the specified type. An sObject tree is a collection of nested, parent-child records with a single root record.

In the request data, you supply the record hierarchies, required and optional field values, each record's type, and a reference ID for each record. Upon success, the response contains the IDs of the created records. If an error occurs while creating a record, the entire request fails. In this case, the response contains only the reference ID of the record that caused the error and the error information. The response bodies and HTTP statuses of the requests are returned in a single response body. The entire request counts as a single call toward your API limits.

The request can contain the following:

- Up to a total of 200 records across all trees
- Up to five records of different types
- sObject trees up to five levels deep

Because an sObject tree can contain a single record, you can use this resource to create up to 200 unrelated records of the same type.

When the request is processed and records are created, triggers, processes, and workflow rules fire separately for each of the following groups of records.

- Root records across all sObject trees in the request
- All second-level records of the same type—for example, second-level Contacts across all sObject trees in the request
- All third-level records of the same type
- All fourth-level records of the same type
- All fifth-level records of the same type

URI

/services/data/v**XX.X**/composite/tree/**sObjectName**

Formats

JSON, XML

HTTP method

POST

Authentication

```
Authorization: Bearer token
```

Parameters

None required

Request body

sObject Tree Request Body on page 323

Response body

sObject Tree Response Body on page 326

Examples

- For an example of creating unrelated records of the same type, see Create Multiple Records on page 97.
- For an example of creating nested records, see Create Nested Records on page 95.

sObject Tree Request Body

Describes a collection of sObject trees to create with the sObject Tree resource.



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.

sObject Tree Collection Input

The request body contains a records collection that includes sObject trees.

Properties

Name	Туре	Description	Required or Optional
records	sObject Tree Input[]	Collection of record trees to create. Each tree's root record type must correspond to the sObject specified in the sObject Tree URI.	Required

Root XML Tag

<SObjectTreeRequest>

JSON example

```
"records" :[{
   "attributes" : {"type" : "Account", "referenceId" : "ref1"},
    "name" : "SampleAccount",
    "phone": "1234567890",
    "website" : "www.salesforce.com",
    "numberOfEmployees" : "100",
    "industry" : "Banking",
    "Contacts" : {
     "records" : [{
         "attributes" : {"type" : "Contact", "referenceId" : "ref2"},
         "lastname" : "Smith",
         "title" : "President",
         "email" : "sample@salesforce.com"
         "attributes" : {"type" : "Contact", "referenceId" : "ref3"},
         "lastname" : "Evans",
         "title" : "Vice President",
```

XML example

```
<SObjectTreeRequest>
    <records type="Account" referenceId="ref1">
        <name>SampleAccount</name>
        <phone>1234567890</phone>
        <website>www.salesforce.com</website>
        <numberOfEmployees>100</numberOfEmployees>
       <industry>Banking</industry>
        <Contacts>
            <records type="Contact" referenceId="ref2">
               <lastname>Smith
                <title>President</title>
               <email>sample@salesforce.com</email>
            </records>
            <records type="Contact" referenceId="ref3">
               <lastname>Evans
               <title>Vice President</title>
               <email>sample@salesforce.com</email>
            </records>
        </Contacts>
    </records>
    <records type="Account" referenceId="ref4">
        <name>SampleAccount2</name>
        <phone>1234567890</phone>
        <website>www.salesforce2.com</website>
        <numberOfEmployees>100</numberOfEmployees>
        <industry>Banking</industry>
    </records>
</SObjectTreeRequest>
```

sObject Tree Input

An sObject tree is a recursive data structure that contains a root record, its data, and its child records represented as other sObject trees.

Properties

Name	Туре	Description	Required or Optional
attributes	Collection	Attributes for this record. The attributes property contains two subproperties:	Required
		• type (required)—This record's type.	
		 referenceId (required)—Reference ID for this record. Must be unique in the context of the request and start with an alphanumeric character. 	
		In XML, include attributes inside the records element.	
Required object fields	Depends on field	Required fields and field values for this record.	Required
Optional object fields	Depends on field	Optional fields and field values for this record.	Optional
Child relationships	sObject Tree Collection Input	This record's child relationships, such as an account's child contacts. Child relationships are either master-detail or lookup relationships. To view an object's valid child relationships, use the sObject Describe resource or Schema Builder. The value of this property is an sObject Tree Collection Input that contains child sObject trees.	Optional

Root XML Tag

<records>

JSON example

```
"attributes" : {"type" : "Account", "referenceId" : "ref1"},
"name" : "SampleAccount",
"phone": "1234567890",
"website" : "www.salesforce.com",
"NumberOfEmployees" : "100",
"industry" : "Banking",
"Contacts" : {
  "records" : [{
    "attributes" : {"type" : "Contact", "referenceId" : "ref2"},
    "lastname" : "Smith",
    "title" : "President",
    "email" : "sample@salesforce.com"
     "attributes" : {"type" : "Contact", "referenceId" : "ref3"},
     "lastname" : "Evans",
    "title" : "Vice President",
    "email" : "sample@salesforce.com"
  }
```

XML example

```
<records type="Account" referenceId="ref1">
   <name>SampleAccount</name>
   <phone>1234567890</phone>
    <website>www.salesforce.com</website>
   <numberOfEmployees>100</numberOfEmployees>
   <industry>Banking</industry>
   <Contacts>
       <records type="Contact" referenceId="ref2">
           <lastname>Smith
           <title>President</title>
           <email>sample@salesforce.com</email>
       </records>
       <records type="Contact" referenceId="ref3">
           <lastname>Evans
           <title>Vice President</title>
           <email>sample@salesforce.com</email>
       </records>
    </Contacts>
</records>
```

sObject Tree Response Body

Describes the result of an sObject Tree request.

Properties

Name	Туре	Description
hasErrors	Boolean	true if an error occurred while creating a record; false otherwise.
results	Collection	Upon success, results contains the reference ID of each requested record and its new record ID. Upon failure, it contains only the reference ID of the record that caused the error, error status code, error message, and fields related to the error. In the case of duplicate reference IDs, results contains one item for each instance of the duplicate ID.

JSON example upon success

```
"hasErrors" : false,
"results" : [{
    "referenceId" : "ref1",
    "id" : "001D000000K0fXOIAZ"
    },{
    "referenceId" : "ref4",
    "id" : "001D000000K0fXPIAZ"
    },{
    "referenceId" : "ref2",
    "id" : "003D000000QV9n2IAD"
    },{
    "referenceId" : "ref3",
```

```
"id" : "003D00000QV9n3IAD"
}]
}
```

XML example upon success

```
<?xml version="1.0" encoding="UTF-8"?>
<SObjectTreeResponse>
    <hasErrors>false</hasErrors>
    <results>
        <id>001D000000K0fX0IAZ</id>
        <referenceId>ref1</referenceId>
    </results>
    <results>
        <id>001D000000K0fXPIAZ</id>
        <referenceId>ref4</referenceId>
    </results>
    <results>
        <id>003D000000QV9n2IAD</id>
        <referenceId>ref2</referenceId>
    </results>
    <results>
        <id>003D000000QV9n3IAD</id>
        <referenceId>ref3</referenceId>
    </results>
</SObjectTreeResponse>
```

JSON example upon failure

```
"hasErrors" : true,
"results" : [{
    "referenceId" : "ref2",
    "errors" : [{
        "statusCode" : "INVALID_EMAIL_ADDRESS",
        "message" : "Email: invalid email address: 123",
        "fields" : [ "Email" ]
        }]
    }]
}
```

XML example upon failure

sObject Collections

Executes actions on multiple records in one request. Use sObject Collections to reduce the number of round-trips between the client and server. The response bodies and HTTP statuses of the requests are returned in a single response body. The entire request counts as a single call toward your API limits. This resource is available in API version 42.0 and later.

URI

The URI to use depends on the operation.

Create

POST /services/data/vXX.X/composite/sobjects

Retrieve

GET

/services/data/vXX.X/composite/sobjects/SobjectName?ids=recordId, recordId&fields=fieldname, fieldname

Update

PATCH /services/data/vXX.X/composite/sobjects

Upsert

PATCH /services/data/vXX.X/composite/sobjects/SobjectName/ExternalIdFieldName

Delete

DELETE /services/data/vXX.X/composite/sobjects?ids=recordId, recordId

Formats

JSON, XML

HTTP method

GET, DELETE, PATCH, POST

Authentication

Authorization: Bearer token

The parameters, request body, and response body you use depend on the operation. For details, see the specific operation.

IN THIS SECTION:

Create Multiple Records with Fewer Round-Trips

Use a POST request with sObject Collections to add up to 200 records, returning a list of SaveResult objects. You can choose whether to roll back the entire request when an error occurs.

Retrieve Multiple Records with Fewer Round-Trips

Use a GET or POST request with sObject Collections to retrieve one or more records of the same object type. A list of sObjects that represents the individual records of the specified type is returned. The number of sObjects returned matches the number of IDs passed in the request.

Update Multiple Records with Fewer Round-Trips

Use a PATCH request with sObject Collections to update up to 200 records, returning a list of SaveResult objects. You can choose whether to roll back the entire request when an error occurs.

Upsert Multiple Records with Fewer Round-Trips

Use a PATCH request with sObject Collections to either create or update (upsert) up to 200 records based on an external ID field. This method returns a list of UpsertResult objects. You can choose whether to roll back the entire request when an error occurs. This request is available in API version 46 and later.

Delete Multiple Records with Fewer Round-Trips

Use a DELETE request with sObject Collections to delete up to 200 records, returning a list of DeleteResult objects. You can choose to roll back the entire request when an error occurs.

Create Multiple Records with Fewer Round-Trips

Use a POST request with sObject Collections to add up to 200 records, returning a list of SaveResult objects. You can choose whether to roll back the entire request when an error occurs.

Request Syntax

POST /services/data/v**XX.X**/composite/sobjects

Parameters

Parameter	Optional. Indicates whether to roll back the entire request when the creation of any object fails (true) or to continue with the independent creation of other objects in the request. The default is false.	
allOrNone		
	Note: If the sObject Collections request is embedded in a Composite request, the Composite request's allorNone parameter can also affect the results. See allOrNone Parameters in Composite and Collections Requests.	
records	Required. A list of sObjects. In a POST request using sObject Collections, set the type attribute for each object, but don't set the id field for any object.	

Usage Guidelines

- The list can contain up to 200 objects.
- The list can contain objects of different types, including custom objects.
- Each object must contain an attributes map. The map must contain a value for type.



- Objects are created in the order they're listed. The SaveResult objects are returned in the order in which the create requests were specified.
- If the request body includes objects of more than one type, they are processed as chunks. For example, if the incoming objects are {account1, account2, contact1, account3}, the request is processed in three chunks: {{account1, account2}, {contact1}, {account3}}. A single request can process up to 10 chunks.
- You can't create records for multiple object types in one call when one of the types is related to a feature in the Salesforce Setup area.

Checking for Errors

• If the request isn't well formed, the API returns a 400 Bad Request HTTP Status. Fix the syntax of the request and try again.

• If the request is well formed, the API returns a 200 OK HTTP Status. If an item was processed successfully, the success flag shows for that item. Error information is returned in the errors array.

Request Body Example

```
POST /composite/sobjects
{
    "allOrNone" : false,
    "records" : [{
        "attributes" : {"type" : "Account"},
        "Name" : "example.com",
        "BillingCity" : "San Francisco"
}, {
        "attributes" : {"type" : "Contact"},
        "LastName" : "Johnson",
        "FirstName" : "Erica"
}]
```

Response Body Examples

This example shows a response when all the items were processed successfully.

This example shows a response when some items caused errors and allorNone is false.

```
"id" : "003RM0000068xVCYAY",
    "success" : true,
    "errors" : [ ]
}
```

This example shows a response when some items caused errors and allorNone is true.

```
HTTP/1.1 200 OK
      "success" : false,
      "errors" : [
         {
            "statusCode" : "DUPLICATES DETECTED",
            "message" : "Use one of these records?",
            "fields" : [ ]
      ]
   },
   {
      "success" : false,
      "errors" : [
            "statusCode" : "ALL OR NONE OPERATION ROLLED BACK",
            "message" : "Record rolled back because not all records were valid and the
request was using AllOrNone header",
            "fields" : [ ]
         }
      ]
   }
]
```

Retrieve Multiple Records with Fewer Round-Trips

Use a GET or POST request with sObject Collections to retrieve one or more records of the same object type. A list of sObjects that represents the individual records of the specified type is returned. The number of sObjects returned matches the number of IDs passed in the request.

You can specify approximately 800 IDs before the URL length causes the HTTP 414 error URI too long. To retrieve more records than the URL length can accommodate, use a POST request to retrieve up to 2,000 records of the same object type. If you use POST, the IDs and fields of the records to retrieve are specified in the request body.

Request Syntax

If you're using a GET request, use the following syntax, where <code>sObjectName</code> is the object type of the records from which you're retrieving data.

GET

/services/data/vXX.X/composite/sobjects/sObjectName?ids=recordId, recordId&fields=fieldname, fieldname

If you're using a POST request, use the following syntax, where <code>sObjectName</code> (required) is the object type of the records from which you're retrieving data.

```
POST /composite/sobjects/sObjectName
{
    "ids" : ["recordId", "recordId"],
    "fields" : ["fieldname", "fieldname"]
}
```

Parameters

Parameter	Description
ids Required. A list of one or more IDs of the objects to return. All IDs mus same object type.	
fields	Required. A list of fields to include in the response. The field names you specify must be valid, and you must have read-level permissions to each field.

Usage Guidelines

- If you specify an invalid field name or a field name that you don't have permission to read, HTTP 400 Bad Request is returned.
- If you don't have access to an object, or if a passed ID is invalid, the array returns null for that object.

Request Example

If you're using a GET request, use the syntax shown in the following example.

```
GET /composite/sobjects/Account?ids=001xx000003DGb1AAG,001xx000003DGb0AAG,001xx000003DGb9AAG&fields=id,name
```

If you're using a POST request, use a request body as shown in the following example.

```
POST /composite/sobjects/Account
{
    "ids" : ["001xx000003DGb1AAG", "001xx000003DGb0AAG", "001xx000003DGb9AAG"],
    "fields" : ["id", "name"]
}
```

Response Body Example

Update Multiple Records with Fewer Round-Trips

Use a PATCH request with sObject Collections to update up to 200 records, returning a list of SaveResult objects. You can choose whether to roll back the entire request when an error occurs.

Request Syntax

PATCH /services/data/vXX.X/composite/sobjects

Parameters

Parameter	Optional. Indicates whether to roll back the entire request when the update of any object fails (true) or to continue with the independent update of other objects in the request. The default is false.	
allOrNone		
	Note: If the sObject Collections request is embedded in a Composite request, the Composite request's allorNone parameter can also affect the results. See allOrNone Parameters in Composite and Collections Requests.	
records	Required. A list of sObjects. In a POST request using sObject Collections, set the type attribute for each object, but don't set the id field for any object.	

Usage Guidelines

- The list can contain up to 200 objects.
- The list can contain objects of different types, including custom objects.
- Each object must contain an attributes map. The map must contain a value for type.



Note: Using sObject Collections to update blob data requires more values in the attributes map. For more information, see Using sObject Collections to Insert a Collection of Blob Records.

- Each object must contain an id field with a valid ID value.
- Objects are updated in the order they're listed. The SaveResult objects are returned in the order in which the update requests were specified.
- If the request body includes objects of more than one type, they are processed as chunks. For example, if the incoming objects are {account1, account2, contact1, account3}, the request is processed in three chunks: {{account1, account2}, {contact1}, {account3}}. A single request can process up to 10 chunks.

• You can't update records for multiple object types in one call when one of those types is related to a feature in the Salesforce Setup area.

Checking for Errors

- If the request isn't well formed, the API returns a 400 Bad Request HTTP Status. Fix the syntax of the request and try again.
- If the request is well formed, the API returns a 200 OK HTTP Status. If an item was processed successfully, the success flag shows for that item. Error information is returned in the errors array.

Request Body Example

```
PATCH /composite/sobjects
{
    "allOrNone" : false,
    "records" : [{
        "attributes" : {"type" : "Account"},
        "id" : "001xx000003DGb2AAG",
        "NumberOfEmployees" : 27000
},{
        "attributes" : {"type" : "Contact"},
        "id" : "003xx000004TmiQAAS",
        "Title" : "Lead Engineer"
}]
```

Response Body Examples

This example shows a response when all the items were processed successfully.

This example shows a response when some items caused errors and allOrNone is false.

This example shows a response when some items caused errors and allOrNone is true.

```
HTTP/1.1 200 OK
[
      "id" : "001RM000003oCprYAE",
      "success" : false,
      "errors" : [
            "statusCode" : "ALL OR NONE OPERATION ROLLED BACK",
            "message" : "Record rolled back because not all records were valid and the
request was using AllOrNone header",
            "fields" : [ ]
         }
      ]
   },
   {
      "success" : false,
      "errors" : [
            "statusCode" : "MALFORMED ID",
            "message": "Contact ID: id value of incorrect type: 001xx000003DGb2999",
            "fields" : [
               "Id"
         }
      ]
   }
]
```

Upsert Multiple Records with Fewer Round-Trips

Use a PATCH request with sObject Collections to either create or update (upsert) up to 200 records based on an external ID field. This method returns a list of UpsertResult objects. You can choose whether to roll back the entire request when an error occurs. This request is available in API version 46 and later.

Request Syntax

PATCH /services/data/vXX.X/composite/sobjects/SobjectName/ExternalIdFieldName

Parameters

Parameter	Optional. Indicates whether to roll back the entire request when the creation of any object fails (true) or to continue with the independent creation of other objects in the request. The default is false.	
allOrNone		
	Note: If the sObject Collections request is embedded in a Composite request, the Composite request's allorNone parameter can also affect the results. See allOrNone Parameters in Composite and Collections Requests.	
records	Required. A list of sObjects. In a PATCH request using sObject Collections, set the type attribute for each object. Don't set the id field for any object. Instead, use the external ID field specified in the request URI.	

Usage Guidelines

- The list can contain up to 200 objects.
- The list can contain objects only of the type indicated in the request URI.
- Each object in the request body must contain an attributes map. The map must contain a value for type.



Note: Using sObject Collections to insert blob data requires more values in the attributes map. For more information, see Using sObject Collections to Insert a Collection of Blob Records.

- Objects are created or updated in the order they're listed in the request body. The UpsertResult objects are returned in the same
- Only external ids are supported. Don't use record ids.

Checking for Errors

- If the request isn't well formed, the API returns a 400 Bad Request HTTP Status. Fix the syntax of the request and try again.
- If the request is well formed, the API returns a 200 OK HTTP Status. If an item was processed successfully, the success flag shows for that item. Error information is returned in the errors array.

Request Body Example

```
PATCH /composite/sobjects/Account/MyExtId c
   "allOrNone" : false,
    "records" : [{
        "attributes" : {"type" : "Account"},
        "Name" : "Company One",
        "MyExtId c" : "AAA"
        "attributes" : {"type" : "Account"},
```

```
"Name" : "Company Two",

"MyExtId__c" : "BBB"

}]
```

Response Body Examples

This example shows a response when all the items were processed successfully.

This example shows a response when some items caused errors and allOrNone is false.

```
HTTP/1.1 200 OK
[
      "id" : "001xx0000004GxDAAU",
      "success" : true,
      "errors" : [ ]
   },
      "success" : false,
      "errors" : [
         {
            "statusCode" : "MALFORMED ID",
            "message": "Contact ID: id value of incorrect type: 001xx0000004GxEAAU",
            "fields" : [
               "Id"
            ]
         }
     ]
   }
```

This example shows a response when some items caused errors and allorNone is true.

```
HTTP/1.1 200 OK
[ {
```

```
"id" : "001xx0000004GxDAAU",
      "success" : false,
      "errors" : [
            "statusCode" : "ALL OR NONE OPERATION ROLLED BACK",
            "message" : "Record rolled back because not all records were valid and the
request was using AllOrNone header",
            "fields" : [ ]
      ]
   },
      "success" : false,
      "errors" : [
            "statusCode" : "MALFORMED ID",
            "message": "Contact ID: id value of incorrect type: 001xx0000004GxEAAU",
            "fields" : [
               "Id"
         }
      ]
   }
]
```

SEE ALSO:

sObject Rows by External ID

Delete Multiple Records with Fewer Round-Trips

Use a DELETE request with sObject Collections to delete up to 200 records, returning a list of DeleteResult objects. You can choose to roll back the entire request when an error occurs.

Request Syntax

DELETE /services/data/vXX.X/composite/sobjects?ids=recordId, recordId

Parameters

Parameter	Optional. Indicates whether to roll back the entire request when the deletion of any object fails (true) or to continue with the independent deletion of other objects in the request. The default is false.	
allOrNone		
	Note: If the sObject Collections request is embedded in a Composite request, the Composite request's allorNone parameter can also affect the results. See allOrNone Parameters in Composite and Collections Requests.	
ids	Required. A list of up to 200 IDs of objects to be deleted. The IDs can belong to different object types, including custom objects.	

Usage Guidelines

- The DeleteResult objects are returned in the order in which the IDs of the deleted objects were specified.
- You can't delete records for multiple object types in one call when one of those types is related to a feature in the Salesforce Setup area.

Checking for Errors

- If the request isn't well formed, the API returns a 400 Bad Request HTTP Status. Fix the syntax of the request and try again.
- If the request is well formed, the API returns a 200 OK HTTP Status. If an item was processed successfully, the success flag shows for that item. Error information is returned in the errors array.

Request Example

DELETE /composite/sobjects?ids=001xx000003DGb2AAG,003xx000004TmiQAAS&allOrNone=false

Response Body Examples

This example shows a response when all the items were processed successfully.

This example shows a response when some items caused errors and allOrNone is false.

Reference Headers

```
]
}
]
```

This example shows a response when some items caused errors and allorNone is true.

```
HTTP/1.1 200 OK
[
      "id" : "001RM000003oLruYAE",
      "success" : false,
      "errors" : [
            "statusCode" : "ALL OR NONE OPERATION ROLLED BACK",
            "message" : "Record rolled back because not all records were valid and the
request was using AllOrNone header",
            "fields" : [ ]
      ]
   },
   {
      "success" : false,
      "errors" : [
         {
            "statusCode" : "MALFORMED ID",
            "message" : "malformed id 001RM000003oLrB000",
            "fields" : [ ]
      ]
   }
]
```

Headers

This section lists custom HTTP request and response headers used for REST API.

IN THIS SECTION:

Assignment Rule Header

The Assignment Rule header is a request header applied when creating or updating Accounts, Cases, or Leads. If enabled, the active assignment rules are used. If disabled, the active assignment rules are not applied. If a valid AssignmentRule ID is provided, the AssignmentRule is applied. If the header is not provided with a request, REST API defaults to using the active assignment rules.

Call Options Header

Specifies options for the client you're using to access REST API resources. For example, you can provide a default namespace prefix so that you don't need to specify the prefix in your code.

Duplicate Rule Header

Configure options for duplicate rules. Salesforce uses duplicate rules to see if the record that is being created, updated, or upserted is a duplicate of an existing record. Duplicate rules are part of Duplicate Management.

Reference Assignment Rule Header

Limit Info Header

This response header is returned in each request to REST API. You can use the information to monitor API limits.

Package Version Header

Specifies the version of each package referenced by a client. A package version is a number that identifies the set of components and behavior contained in a package. This header can also be used to specify a package version when making calls to an Apex REST web service.

Query Options Header

Specifies options used in a query, such as the query results batch size. Use this request header with the Query resource.

Warning Header

This header is returned if there are warnings, such as the use of a deprecated version of the API.

Assignment Rule Header

The Assignment Rule header is a request header applied when creating or updating Accounts, Cases, or Leads. If enabled, the active assignment rules are used. If disabled, the active assignment rules are not applied. If a valid AssignmentRule ID is provided, the AssignmentRule is applied. If the header is not provided with a request, REST API defaults to using the active assignment rules.



Note: This header also gets applied when making REST API calls that indirectly result in creating or updating Accounts, Cases, or Leads. For example, if you use this header with a call that updates a record, and the update executes an Apex trigger that updates a Case, the assignment rules would be applied.

Header Field Name and Values

Field name

Sforce-Auto-Assign

Field values

- TRUE. Active assignment rules are applied for created or updated Accounts, Cases, or Leads.
- FALSE. Active assignment rules are not applied for created or updated Accounts, Cases, or Leads.
- Valid AssignmentRule ID. The given AssignmentRule is applied for created Accounts, Cases, or Leads.

TRUE and FALSE are not case-sensitive.

If the header is not provided in the request, the default value is TRUE.

Example

Sforce-Auto-Assign: FALSE

Call Options Header

Specifies options for the client you're using to access REST API resources. For example, you can provide a default namespace prefix so that you don't need to specify the prefix in your code.

The Call Options header can be used with sObject Basic Information, sObject Rows, sObject Rows by External ID, Query, QueryAll, and Search. It is also supported in Bulk API and Bulk API 2.0.

Header Field Name and Values

Field name

Sforce-Call-Options

Reference Duplicate Rule Header

Field values

• client—A string used as an identifier for the client sending the request. This string appears in log files, helping you keep track of which client sent a request.

• defaultNamespace—A developer namespace prefix used as the default namespace for the request. With this header field, the request resolves field names in managed packages without specified namespaces. (Not supported in Bulk API.)

Example

If the developer namespace prefix is battle, and you have a custom field called botId in a package, set the default namespace with the call options header:

Sforce-Call-Options: client=caseSensitiveToken; defaultNamespace=battle

Then gueries such as the following succeed:

/services/data/v**XX.X**/query/?q=SELECT+Id+botID c+FROM+Account

In this case, the actual field queried is the battle botId c field.

Using this header allows you to write client code without having to specify the namespace prefix. In the previous example, without the header you must write battle botId c.

If this field is set, and the query also specifies the namespace, the response doesn't include the prefix. For example, if you set this header to battle, and issue a query like SELECT+Id+battle __botID__c+FROM+Account, the response uses a botId__c element, not a battle botId c element.

The defaultNamespace field is ignored when retrieving describe information, which avoids ambiguity between namespace prefixes and customer fields of the same name.

Duplicate Rule Header

Configure options for duplicate rules. Salesforce uses duplicate rules to see if the record that is being created, updated, or upserted is a duplicate of an existing record. Duplicate rules are part of Duplicate Management.

This header is available in API version 52.0 and later.

Header Field Name and Values

The default value for all fields is false

Field name

allowSave

Field values

- true—allow the user to acknowledge the alert and save the duplicate record. Applicable if an alert is enabled for the action.
- false—don't allow the user to acknowledge the alert or save the duplicate record. Applicable if an alert is enabled for the action.

Field name

includeRecordDetails

Field values

• true—return all fields in the duplicate record.

Reference Limit Info Header

• false—return the duplicate record ID, but not the fields.

Field name

runAsCurrentUser

Field values

- true—when the duplicate rule is run, use the current user's sharing rules.
- false—when the duplicate rule is run, use the system sharing rules, not the current user's sharing rules.

Example

Allow the user to acknowledge the alert and save the duplicate record. Indicate that the duplicate field's records are returned, and that the current user's sharing rules are enforced. These duplicate management configuration options are now applied when records are created, updated, and upserted.

```
Sforce-Duplicate-Rule-Header: allowSave=true, includeRecordDetails=true, runAsCurrentUser=true
```

Limit Info Header

This response header is returned in each request to REST API. You can use the information to monitor API limits.

Header Field Name and Values

Field name

Sforce-Limit-Info

Field values

• api-usage—Specifies the daily API usage for the organization against which the call was made. The first number is the number of API calls used, and the second number is the API limit for the organization.

The values returned in the header represent standard REST API limits and usage, except when calls are made using Salesforce Functions. Calls made using Salesforce Functions draw from a Functions-specific allocation.

Example

```
Sforce-Limit-Info: api-usage=10018/100000
```

SEE ALSO:

Salesforce Functions Guide: Functions Limits

Package Version Header

Specifies the version of each package referenced by a client. A package version is a number that identifies the set of components and behavior contained in a package. This header can also be used to specify a package version when making calls to an Apex REST web service.

The Package Version header can be used with the following resources: Describe Global, sObject Describe, sObject Basic Information, sObject Rows, sObject Describe Layouts, Query, QueryAll, Search, and sObject Rows by External ID.

Reference Query Options Header

Header Field Name and Values

Field name and value

x-sfdc-packageversion-[namespace]: xx.x, where [namespace] is the unique namespace of the managed package and xx.x is the package version.

Example

x-sfdc-packageversion-clientPackage: 1.0

Query Options Header

Specifies options used in a query, such as the query results batch size. Use this request header with the Query resource.

Header Field Name and Values

Field name

Sforce-Query-Options

Field values

• batchSize—A numeric value that specifies the number of records returned for a query request. Child objects count toward the number of records for the batch size. For example, in relationship queries, multiple child objects are returned per parent row returned.

The default is 2,000; the minimum is 200, and the maximum is 2,000. There is no guarantee that the requested batch size is the actual batch size. Changes are made as necessary to maximize performance.

Example

Sforce-Query-Options: batchSize=1000

Warning Header

This header is returned if there are warnings, such as the use of a deprecated version of the API.

Header Field Name and Values

Field name

Warning

Field Values

 $warningCode\ warningMessage$

For warnings about deprecated API versions, the warningCode is 299.

Example

Warning: 299 - "This API is deprecated and will be removed by Summer '22. Please see https://help.salesforce.com/articleView?id=000351312 for details."

Status Codes and Error Responses

Either when an error occurs or when a response is successful, the response header contains an HTTP code, and the response body usually contains:

- The HTTP response code
- The message accompanying the HTTP response code
- The field or object where the error occurred (if the response returns information about an error)

HTTP response code	Description
200	"OK" success code, for GET, HEAD, and some PATCH requests.
201	"Created" success code, for POST requests and some PATCH requests.
204	"No Content" success code, for DELETE requests and some PATCH requests.
300	The value returned when an external ID exists in more than one record. The response body contains the list of matching records.
304	The request content has not changed since a specified date and time. The date and time is provided in a If-Modified-Since header. See Get Object Metadata Changes for an example.
400	The request couldn't be understood, usually because the JSON or XML body contains an error.
401	The session ID or OAuth token used has expired or is invalid. The response body contains the message and errorCode.
403	The request has been refused. Verify that the logged-in user has appropriate permissions. If the error code is REQUEST_LIMIT_EXCEEDED, you've exceeded API request limits in your org.
404	The requested resource couldn't be found. Check the URI for errors, and verify that there are no sharing issues.
405	The method specified in the Request-Line isn't allowed for the resource specified in the URI.
409	The request could not be completed due to a conflict with the current state of the resource. Check that the API version is compatible with the resource you are requesting.
410	The requested resource has been retired or removed. Delete or update any references to the resource.
412	The request was not executed because one or more of the preconditions that the client specified in the request headers was not satisfied. For example, the request includes an If-Unmodified-Since header, but the data was modified after the specified date.
414	The length of the URI exceeds the 16,384-byte limit.
415	The entity in the request is in a format that's not supported by the specified method.
431	The combined length of the URI and headers exceeds the 16,384-byte limit.
500	An error has occurred within Lightning Platform, so the request couldn't be completed. Contact Salesforce Customer Support.
503	The server is unavailable to handle the request. Typically this occurs if the server is down for maintenance or is currently overloaded.

Incorrect ID example

Using a non-existent ID in a request using JSON or XML (request body.json or request body.xml)

```
[
{
  "fields" : [ "Id" ],
  "message" : "Account ID: id value of incorrect type: 001900K0001pPuOAAU",
  "errorCode" : "MALFORMED_ID"
}
]
```

Resource does not exist

Requesting a resource that doesn't exist, for example, if you try to create a record using a misspelled object name

```
[
{
  "message" : "The requested resource does not exist",
  "errorCode" : "NOT_FOUND"
}
]
```