

Package ‘salesforcer’

July 21, 2020

Title An Implementation of 'Salesforce' APIs Using Tidy Principles

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Description Functions connecting to the 'Salesforce' Platform APIs (REST, SOAP, Bulk 1.0, Bulk 2.0, Metadata, Reports and Dashboards)
<https://trailhead.salesforce.com/en/content/learn/modules/api_basics/api_basics_overview>. ``API" is an acronym for ``application programming interface". Most all calls from these APIs are supported as they use CSV, XML or JSON data that can be parsed into R data structures. For more details please see the 'Salesforce' API documentation and this package's website
<<https://stevenmmortimer.github.io/salesforcer/>> for more information, documentation, and examples.

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URL <https://github.com/StevenMMortimer/salesforcer>

BugReports <https://github.com/StevenMMortimer/salesforcer/issues>

Depends R (>= 3.6.0)

Imports methods (>= 3.6.0),
utils (>= 3.6.0),
stats (>= 3.6.0),
XML (>= 3.99-0.3),
httr (>= 1.4.1),
dplyr (>= 1.0.0),
xml2 (>= 1.3.2),
readr (>= 1.3.1),
jsonlite (>= 1.6.1),
purrr (>= 0.3.4),
rlang (>= 0.4.6),
rlist (>= 0.4.6.1),
lubridate (>= 1.7.8),
tibble (>= 3.0.3),
vctrs (>= 0.3.1),
curl (>= 4.3),
zip (>= 2.0.4),
base64enc (>= 0.1-3),
mime (>= 0.9),
lifecycle (>= 0.2.0)

Suggests knitr,
 testthat,
 spelling,
 rmarkdown,
 here,
 microbenchmark,
 ggplot2,
 RForcecom

VignetteBuilder knitr

RdMacros lifecycle

ByteCompile true

Encoding UTF-8

Language en-US

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

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collapse_list_with_dupe_names

*Collapse Elements in List with Same Name***Description**

This function looks for instances of elements in a list that have the same name and then combine them all into a single comma separated character string (referenceTo) or tbl_df (picklistValues).

Usage

```
collapse_list_with_dupe_names(x)
```

Arguments

x list; a list, typically returned from the API that we would parse through

Value

A list containing one row per field for the requested object.

Note

The tibble only contains the fields that the user can view, as defined by the user's field-level security settings.

Examples

```
## Not run:
obj_dat <- sf_describe_objects(object_names = "Contact", api_type = "SOAP")[[1]]
obj_fields_list <- obj_dat[names(obj_dat) == "fields"] %>%
  map(collapse_list_with_dupe_names)

## End(Not run)
```

metadata_type_validator

Metadata Data Type Validator

Description

A function to create a variety of objects that are part of the Metadata API service Below is a list of objects and their required components to be created with this function:

Usage

```
metadata_type_validator(obj_type, obj_data)
```

Arguments

obj_type a string from one of the object types described above

obj_data a list of lists or a data.frame with the required inputs to create the the obj_type specified.

Details**AccessMapping**

[Salesforce Documentation for AccessMapping](#)

accessLevel a character

object a character

objectField a character

userField a character

AccountSettings

[Salesforce Documentation for AccountSettings](#)

fullName a character (inherited from Metadata)

enableAccountOwnerReport a character either 'true' or 'false'

enableAccountTeams a character either 'true' or 'false'

showViewHierarchyLink a character either 'true' or 'false'

AccountSharingRuleSettings

[Salesforce Documentation for AccountSharingRuleSettings](#)

caseAccessLevel a character

contactAccessLevel a character

opportunityAccessLevel a character

ActionLinkGroupTemplate

[Salesforce Documentation for ActionLinkGroupTemplate](#)

fullName a character (inherited from Metadata)

actionLinkTemplates a ActionLinkTemplate

category a PlatformActionGroupCategory - which is a character taking one of the following values:

- Primary
- Overflow

executionsAllowed a ActionLinkExecutionsAllowed - which is a character taking one of the following values:

- Once
- OncePerUser
- Unlimited

hoursUntilExpiration a integer

isPublished a character either 'true' or 'false'

name a character

ActionLinkTemplate

[Salesforce Documentation for ActionLinkTemplate](#)

actionUrl a character

headers a character

isConfirmationRequired a character either 'true' or 'false'

isGroupDefault a character either 'true' or 'false'

label a character

labelKey a character

linkType a ActionLinkType - which is a character taking one of the following values:

- API

- APIAsync
- Download
- UI

method a ActionLinkHttpMethod - which is a character taking one of the following values:

- HttpDelete
- HttpHeaders
- HttpGet
- HttpPatch
- HttpPost
- HttpPut

position a integer

requestBody a character

userAlias a character

userVisibility a ActionLinkUserVisibility - which is a character taking one of the following values:

- Creator
- Everyone
- EveryoneButCreator
- Manager
- CustomUser
- CustomExcludedUser

ActionOverride

[Salesforce Documentation for ActionOverride](#)

actionName a character

comment a character

content a character

formFactor a FormFactor - which is a character taking one of the following values:

- Small
- Medium
- Large

skipRecordTypeSelect a character either 'true' or 'false'

type a ActionOverrideType - which is a character taking one of the following values:

- Default
- Standard
- Scontrol
- Visualforce
- Flexipage
- LightningComponent

ActivitiesSettings

[Salesforce Documentation for ActivitiesSettings](#)

fullName a character (inherited from Metadata)

allowUsersToRelateMultipleContactsToTasksAndEvents a character either 'true' or 'false'

autoRelateEventAttendees a character either 'true' or 'false'
enableActivityReminders a character either 'true' or 'false'
enableClickCreateEvents a character either 'true' or 'false'
enableDragAndDropScheduling a character either 'true' or 'false'
enableEmailTracking a character either 'true' or 'false'
enableGroupTasks a character either 'true' or 'false'
enableListViewScheduling a character either 'true' or 'false'
enableLogNote a character either 'true' or 'false'
enableMultidayEvents a character either 'true' or 'false'
enableRecurringEvents a character either 'true' or 'false'
enableRecurringTasks a character either 'true' or 'false'
enableSidebarCalendarShortcut a character either 'true' or 'false'
enableSimpleTaskCreateUI a character either 'true' or 'false'
enableUNSTaskDelegatedToNotifications a character either 'true' or 'false'
meetingRequestsLogo a character
showCustomLogoMeetingRequests a character either 'true' or 'false'
showEventDetailsMultiUserCalendar a character either 'true' or 'false'
showHomePageHoverLinksForEvents a character either 'true' or 'false'
showMyTasksHoverLinks a character either 'true' or 'false'

AddressSettings

[Salesforce Documentation for AddressSettings](#)

fullName a character (inherited from Metadata)
countriesAndStates a CountriesAndStates

AdjustmentsSettings

[Salesforce Documentation for AdjustmentsSettings](#)

enableAdjustments a character either 'true' or 'false'
enableOwnerAdjustments a character either 'true' or 'false'

AgentConfigAssignments

[Salesforce Documentation for AgentConfigAssignments](#)

profiles a AgentConfigProfileAssignments
users a AgentConfigUserAssignments

AgentConfigButtons

[Salesforce Documentation for AgentConfigButtons](#)

button a character

AgentConfigProfileAssignments

[Salesforce Documentation for AgentConfigProfileAssignments](#)

profile a character

AgentConfigSkills

[Salesforce Documentation for AgentConfigSkills](#)

skill a character

AgentConfigUserAssignments

[Salesforce Documentation for AgentConfigUserAssignments](#)

user a character

AnalyticsCloudComponentLayoutItem

[Salesforce Documentation for AnalyticsCloudComponentLayoutItem](#)

assetType a character

devName a character

error a character

filter a character

height a integer

hideOnError a character either 'true' or 'false'

showHeader a character either 'true' or 'false'

showSharing a character either 'true' or 'false'

showTitle a character either 'true' or 'false'

width a character

AnalyticSnapshot

[Salesforce Documentation for AnalyticSnapshot](#)

fullName a character (inherited from Metadata)

description a character

groupColumn a character

mappings a AnalyticSnapshotMapping

name a character

runningUser a character

sourceReport a character

targetObject a character

AnalyticSnapshotMapping

[Salesforce Documentation for AnalyticSnapshotMapping](#)

aggregateType a ReportSummaryType - which is a character taking one of the following values:

- Sum
- Average
- Maximum
- Minimum
- None

sourceField a character

sourceType a ReportJobSourceTypes - which is a character taking one of the following values:

- tabular
- summary
- snapshot

targetField a character

ApexClass

[Salesforce Documentation for ApexClass](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

apiVersion a numeric

packageVersions a PackageVersion

status a ApexCodeUnitStatus - which is a character taking one of the following values:

- Inactive
- Active
- Deleted

ApexComponent

[Salesforce Documentation for ApexComponent](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

apiVersion a numeric

description a character

label a character

packageVersions a PackageVersion

ApexPage

[Salesforce Documentation for ApexPage](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

apiVersion a numeric

availableInTouch a character either 'true' or 'false'

confirmationTokenRequired a character either 'true' or 'false'

description a character

label a character

packageVersions a PackageVersion

ApexTestSuite

[Salesforce Documentation for ApexTestSuite](#)

fullName a character (inherited from Metadata)

testClassName a character

ApexTrigger

[Salesforce Documentation for ApexTrigger](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

apiVersion a numeric

packageVersions a PackageVersion

status a ApexCodeUnitStatus - which is a character taking one of the following values:

- Inactive
- Active
- Deleted

AppActionOverride

[Salesforce Documentation for AppActionOverride](#)

actionName a character (inherited from ActionOverride)

comment a character (inherited from ActionOverride)

content a character (inherited from ActionOverride)

formFactor a FormFactor (inherited from ActionOverride)

skipRecordTypeSelect a character either 'true' or 'false' (inherited from ActionOverride)

type a ActionOverrideType (inherited from ActionOverride)

pageOrSubjectType a character

AppBrand

[Salesforce Documentation for AppBrand](#)

footerColor a character

headerColor a character

logo a character

logoVersion a integer

shouldOverrideOrgTheme a character either 'true' or 'false'

AppComponentList

[Salesforce Documentation for AppComponentList](#)

alignment a character

components a character

AppMenu

[Salesforce Documentation for AppMenu](#)

fullName a character (inherited from Metadata)

appMenuItems a AppMenuItem

AppMenuItem

[Salesforce Documentation for AppMenuItem](#)

name a character

type a character

AppPreferences

[Salesforce Documentation for AppPreferences](#)

enableCustomizeMyTabs a character either 'true' or 'false'

enableKeyboardShortcuts a character either 'true' or 'false'

enableListViewHover a character either 'true' or 'false'

enableListViewReskin a character either 'true' or 'false'
enableMultiMonitorComponents a character either 'true' or 'false'
enablePinTabs a character either 'true' or 'false'
enableTabHover a character either 'true' or 'false'
enableTabLimits a character either 'true' or 'false'
saveUserSessions a character either 'true' or 'false'

AppProfileActionOverride

[Salesforce Documentation for AppProfileActionOverride](#)

actionName a character (inherited from ProfileActionOverride)
content a character (inherited from ProfileActionOverride)
formFactor a FormFactor (inherited from ProfileActionOverride)
pageOrObjectType a character (inherited from ProfileActionOverride)
recordType a character (inherited from ProfileActionOverride)
type a ActionOverrideType (inherited from ProfileActionOverride)
profile a character

ApprovalAction

[Salesforce Documentation for ApprovalAction](#)

action a WorkflowActionReference

ApprovalEntryCriteria

[Salesforce Documentation for ApprovalEntryCriteria](#)

booleanFilter a character
criteriaItems a FilterItem
formula a character

ApprovalPageField

[Salesforce Documentation for ApprovalPageField](#)

field a character

ApprovalProcess

[Salesforce Documentation for ApprovalProcess](#)

fullName a character (inherited from Metadata)
active a character either 'true' or 'false'
allowRecall a character either 'true' or 'false'
allowedSubmitters a ApprovalSubmitter
approvalPageFields a ApprovalPageField
approvalStep a ApprovalStep
description a character
emailTemplate a character
enableMobileDeviceAccess a character either 'true' or 'false'
entryCriteria a ApprovalEntryCriteria

finalApprovalActions a ApprovalAction
finalApprovalRecordLock a character either 'true' or 'false'
finalRejectionActions a ApprovalAction
finalRejectionRecordLock a character either 'true' or 'false'
initialSubmissionActions a ApprovalAction
label a character
nextAutomatedApprover a NextAutomatedApprover
postTemplate a character
recallActions a ApprovalAction
recordEditability a RecordEditabilityType - which is a character taking one of the following values:

- AdminOnly
- AdminOrCurrentApprover

showApprovalHistory a character either 'true' or 'false'

ApprovalStep

[Salesforce Documentation for ApprovalStep](#)

allowDelegate a character either 'true' or 'false'
approvalActions a ApprovalAction
assignedApprover a ApprovalStepApprover
description a character
entryCriteria a ApprovalEntryCriteria
ifCriteriaNotMet a StepCriteriaNotMetType - which is a character taking one of the following values:

- ApproveRecord
- RejectRecord
- GotoNextStep

label a character

name a character

rejectBehavior a ApprovalStepRejectBehavior

rejectionActions a ApprovalAction

ApprovalStepApprover

[Salesforce Documentation for ApprovalStepApprover](#)

approver a Approver

whenMultipleApprovers a RoutingType - which is a character taking one of the following values:

- Unanimous
- FirstResponse

ApprovalStepRejectBehavior

[Salesforce Documentation for ApprovalStepRejectBehavior](#)

type a StepRejectBehaviorType - which is a character taking one of the following values:

- RejectRequest

- [BackToPrevious](#)

ApprovalSubmitter

[Salesforce Documentation for ApprovalSubmitter](#)

submitter a character

type a ProcessSubmitterType - which is a character taking one of the following values:

- group
- role
- user
- roleSubordinates
- roleSubordinatesInternal
- owner
- creator
- partnerUser
- customerPortalUser
- portalRole
- portalRoleSubordinates
- allInternalUsers

Approver

[Salesforce Documentation for Approver](#)

name a character

type a NextOwnerType - which is a character taking one of the following values:

- adhoc
- user
- userHierarchyField
- relatedUserField
- queue

AppWorkspaceConfig

[Salesforce Documentation for AppWorkspaceConfig](#)

mappings a WorkspaceMapping

ArticleTypeChannelDisplay

[Salesforce Documentation for ArticleTypeChannelDisplay](#)

articleTypeTemplates a ArticleTypeTemplate

ArticleTypeTemplate

[Salesforce Documentation for ArticleTypeTemplate](#)

channel a Channel - which is a character taking one of the following values:

- AllChannels
- App
- Pkb
- Csp
- Prm

page a character

template a Template - which is a character taking one of the following values:

- Page
- Tab
- Toc

AssignmentRule

[Salesforce Documentation for AssignmentRule](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

ruleEntry a RuleEntry

AssignmentRules

[Salesforce Documentation for AssignmentRules](#)

fullName a character (inherited from Metadata)

assignmentRule a AssignmentRule

AssistantRecommendationType

[Salesforce Documentation for AssistantRecommendationType](#)

fullName a character (inherited from Metadata)

description a character

masterLabel a character

platformActionlist a PlatformActionList

subjectType a character

title a character

Attachment

[Salesforce Documentation for Attachment](#)

content a character formed using RCurl::base64Encode

name a character

AuraDefinitionBundle

[Salesforce Documentation for AuraDefinitionBundle](#)

fullName a character (inherited from Metadata)

SVGContent a character formed using RCurl::base64Encode

apiVersion a numeric

controllerContent a character formed using RCurl::base64Encode

description a character

designContent a character formed using RCurl::base64Encode

documentationContent a character formed using RCurl::base64Encode

helperContent a character formed using RCurl::base64Encode

markup a character formed using RCurl::base64Encode

modelContent a character formed using RCurl::base64Encode

packageVersions a PackageVersion

rendererContent a character formed using RUrl::base64Encode

styleContent a character formed using RUrl::base64Encode

testsuiteContent a character formed using RUrl::base64Encode

type a AuraBundleType - which is a character taking one of the following values:

- Application
- Component
- Event
- Interface
- Tokens

AuthProvider

[Salesforce Documentation for AuthProvider](#)

fullName a character (inherited from Metadata)

authorizeUrl a character

consumerKey a character

consumerSecret a character

customMetadataTypeRecord a character

defaultScopes a character

errorUrl a character

executionUser a character

friendlyName a character

iconUrl a character

idTokenIssuer a character

includeOrgIdInIdentifier a character either 'true' or 'false'

logoutUrl a character

plugin a character

portal a character

providerType a AuthProviderType - which is a character taking one of the following values:

- Facebook
- Janrain
- Salesforce
- OpenIdConnect
- MicrosoftACS
- LinkedIn
- Twitter
- Google
- GitHub
- Custom

registrationHandler a character

sendAccessTokenInHeader a character either 'true' or 'false'

sendClientCredentialsInHeader a character either 'true' or 'false'

tokenUrl a character

userInfoUrl a character

AutoResponseRule

[Salesforce Documentation for AutoResponseRule](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

ruleEntry a RuleEntry

AutoResponseRules

[Salesforce Documentation for AutoResponseRules](#)

fullName a character (inherited from Metadata)

autoResponseRule a AutoResponseRule

BrandingSet

[Salesforce Documentation for BrandingSet](#)

fullName a character (inherited from Metadata)

brandingSetProperty a BrandingSetProperty

description a character

masterLabel a character

type a character

BrandingSetProperty

[Salesforce Documentation for BrandingSetProperty](#)

propertyName a character

propertyValue a character

BusinessHoursEntry

[Salesforce Documentation for BusinessHoursEntry](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

default a character either 'true' or 'false'

fridayEndTime a character formatted as 'hh:mm:ssZ'

fridayStartTime a character formatted as 'hh:mm:ssZ'

mondayEndTime a character formatted as 'hh:mm:ssZ'

mondayStartTime a character formatted as 'hh:mm:ssZ'

name a character

saturdayEndTime a character formatted as 'hh:mm:ssZ'

saturdayStartTime a character formatted as 'hh:mm:ssZ'

sundayEndTime a character formatted as 'hh:mm:ssZ'

sundayStartTime a character formatted as 'hh:mm:ssZ'

thursdayEndTime a character formatted as 'hh:mm:ssZ'

thursdayStartTime a character formatted as 'hh:mm:ssZ'

timeZoneId a character

tuesdayEndTime a character formatted as 'hh:mm:ssZ

tuesdayStartTime a character formatted as 'hh:mm:ssZ

wednesdayEndTime a character formatted as 'hh:mm:ssZ

wednesdayStartTime a character formatted as 'hh:mm:ssZ

BusinessHoursSettings

[Salesforce Documentation for BusinessHoursSettings](#)

fullName a character (inherited from Metadata)

businessHours a BusinessHoursEntry

holidays a Holiday

BusinessProcess

[Salesforce Documentation for BusinessProcess](#)

fullName a character (inherited from Metadata)

description a character

isActive a character either 'true' or 'false'

values a PicklistValue

CallCenter

[Salesforce Documentation for CallCenter](#)

fullName a character (inherited from Metadata)

adapterUrl a character

customSettings a character

displayName a character

displayNameLabel a character

internalNameLabel a character

sections a CallCenterSection

version a character

CallCenterItem

[Salesforce Documentation for CallCenterItem](#)

label a character

name a character

value a character

CallCenterSection

[Salesforce Documentation for CallCenterSection](#)

items a CallCenterItem

label a character

name a character

CampaignInfluenceModel

[Salesforce Documentation for CampaignInfluenceModel](#)

fullName a character (inherited from Metadata)
isActive a character either 'true' or 'false'
isDefaultModel a character either 'true' or 'false'
isModelLocked a character either 'true' or 'false'
modelDescription a character
name a character
recordPreference a character

CaseSettings

[Salesforce Documentation for CaseSettings](#)

fullName a character (inherited from Metadata)
caseAssignNotificationTemplate a character
caseCloseNotificationTemplate a character
caseCommentNotificationTemplate a character
caseCreateNotificationTemplate a character
caseFeedItemSettings a FeedItemSettings
closeCaseThroughStatusChange a character either 'true' or 'false'
defaultCaseOwner a character
defaultCaseOwnerType a character
defaultCaseUser a character
emailActionDefaultsHandlerClass a character
emailToCase a EmailToCaseSettings
enableCaseFeed a character either 'true' or 'false'
enableDraftEmails a character either 'true' or 'false'
enableEarlyEscalationRuleTriggers a character either 'true' or 'false'
enableEmailActionDefaultsHandler a character either 'true' or 'false'
enableSuggestedArticlesApplication a character either 'true' or 'false'
enableSuggestedArticlesCustomerPortal a character either 'true' or 'false'
enableSuggestedArticlesPartnerPortal a character either 'true' or 'false'
enableSuggestedSolutions a character either 'true' or 'false'
keepRecordTypeOnAssignmentRule a character either 'true' or 'false'
notifyContactOnCaseComment a character either 'true' or 'false'
notifyDefaultCaseOwner a character either 'true' or 'false'
notifyOwnerOnCaseComment a character either 'true' or 'false'
notifyOwnerOnCaseOwnerChange a character either 'true' or 'false'
showEmailAttachmentsInCaseAttachmentsRL a character either 'true' or 'false'
showFewerCloseActions a character either 'true' or 'false'
systemUserEmail a character
useSystemEmailAddress a character either 'true' or 'false'
useSystemUserAsDefaultCaseUser a character either 'true' or 'false'
webToCase a WebToCaseSettings

CaseSubjectParticle

[Salesforce Documentation for CaseSubjectParticle](#)

fullName a character (inherited from Metadata)

index a integer

textField a character

type a CaseSubjectParticleType - which is a character taking one of the following values:

- ProvidedString
- Source
- MessageType
- SocialHandle
- SocialNetwork
- Sentiment
- RealName
- Content
- PipeSeparator
- ColonSeparator
- HyphenSeparator

Certificate

[Salesforce Documentation for Certificate](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

caSigned a character either 'true' or 'false'

encryptedWithPlatformEncryption a character either 'true' or 'false'

expirationDate a character formatted as 'yyyy-mm-ddThh:mm:ssZ'

keySize a integer

masterLabel a character

privateKeyExportable a character either 'true' or 'false'

ChannelLayout

[Salesforce Documentation for ChannelLayout](#)

fullName a character (inherited from Metadata)

enabledChannels a character

label a character

layoutItems a ChannelLayoutItem

recordType a character

ChannelLayoutItem

[Salesforce Documentation for ChannelLayoutItem](#)

field a character

ChartSummary

[Salesforce Documentation for ChartSummary](#)

aggregate a ReportSummaryType - which is a character taking one of the following values:

- Sum
- Average
- Maximum
- Minimum
- None

axisBinding a ChartAxis - which is a character taking one of the following values:

- x
- y
- y2
- r

column a character

ChatterAnswersReputationLevel

[Salesforce Documentation for ChatterAnswersReputationLevel](#)

name a character

value a integer

ChatterAnswersSettings

[Salesforce Documentation for ChatterAnswersSettings](#)

fullName a character (inherited from Metadata)

emailFollowersOnBestAnswer a character either 'true' or 'false'

emailFollowersOnReply a character either 'true' or 'false'

emailOwnerOnPrivateReply a character either 'true' or 'false'

emailOwnerOnReply a character either 'true' or 'false'

enableAnswerViaEmail a character either 'true' or 'false'

enableChatterAnswers a character either 'true' or 'false'

enableFacebookSSO a character either 'true' or 'false'

enableInlinePublisher a character either 'true' or 'false'

enableReputation a character either 'true' or 'false'

enableRichTextEditor a character either 'true' or 'false'

facebookAuthProvider a character

showInPortals a character either 'true' or 'false'

ChatterExtension

[Salesforce Documentation for ChatterExtension](#)

fullName a character (inherited from Metadata)

compositionComponent a character

description a character

extensionName a character

headerText a character

hoverText a character

icon a character

isProtected a character either 'true' or 'false'

masterLabel a character

renderComponent a character

type a ChatterExtensionType - which is a character taking one of the following values:

- Lightning

ChatterMobileSettings

[Salesforce Documentation for ChatterMobileSettings](#)

enablePushNotifications a character either 'true' or 'false'

CleanDataService

[Salesforce Documentation for CleanDataService](#)

fullName a character (inherited from Metadata)

cleanRules a CleanRule

description a character

masterLabel a character

matchEngine a character

CleanRule

[Salesforce Documentation for CleanRule](#)

bulkEnabled a character either 'true' or 'false'

bypassTriggers a character either 'true' or 'false'

bypassWorkflow a character either 'true' or 'false'

description a character

developerName a character

fieldMappings a FieldMapping

masterLabel a character

matchRule a character

sourceSubjectType a character

status a CleanRuleStatus - which is a character taking one of the following values:

- Inactive
- Active

targetSubjectType a character

CodeLocation

[Salesforce Documentation for CodeLocation](#)

column a integer

line a integer

numExecutions a integer

time a numeric

Community

[Salesforce Documentation for Community](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

chatterAnswersFacebookSsoUrl a character

communityFeedPage a character

dataCategoryName a character

description a character

emailFooterDocument a character

emailHeaderDocument a character

emailNotificationUrl a character

enableChatterAnswers a character either 'true' or 'false'

enablePrivateQuestions a character either 'true' or 'false'

expertsGroup a character

portal a character

reputationLevels a ReputationLevels

showInPortal a character either 'true' or 'false'

site a character

CommunityCustomThemeLayoutType

[Salesforce Documentation for CommunityCustomThemeLayoutType](#)

description a character

label a character

CommunityRoles

[Salesforce Documentation for CommunityRoles](#)

customerUserRole a character

employeeUserRole a character

partnerUserRole a character

CommunityTemplateBundleInfo

[Salesforce Documentation for CommunityTemplateBundleInfo](#)

description a character

image a character

order a integer

title a character

type a CommunityTemplateBundleInfoType - which is a character taking one of the following values:

- Highlight
- PreviewImage

CommunityTemplateDefinition

[Salesforce Documentation for CommunityTemplateDefinition](#)

fullName a character (inherited from Metadata)

baseTemplate a CommunityBaseTemplate - which is a character taking one of the following values:

- c

bundlesInfo a CommunityTemplateBundleInfo

category a CommunityTemplateCategory - which is a character taking one of the following values:

- IT
- Marketing
- Sales
- Service

defaultBrandingSet a character

defaultThemeDefinition a character

description a character

enableExtendedCleanUpOnDelete a character either 'true' or 'false'

masterLabel a character

navigationLinkSet a NavigationLinkSet

pageSetting a CommunityTemplatePageSetting

CommunityTemplatePageSetting

[Salesforce Documentation for CommunityTemplatePageSetting](#)

page a character

themeLayout a character

CommunityThemeDefinition

[Salesforce Documentation for CommunityThemeDefinition](#)

fullName a character (inherited from Metadata)

customThemeLayoutType a CommunityCustomThemeLayoutType

description a character

enableExtendedCleanUpOnDelete a character either 'true' or 'false'

masterLabel a character

themeSetting a CommunityThemeSetting

CommunityThemeSetting

[Salesforce Documentation for CommunityThemeSetting](#)

customThemeLayoutType a character

themeLayout a character

themeLayoutType a CommunityThemeLayoutType - which is a character taking one of the following values:

- Login
- Home
- Inner

CompactLayout

[Salesforce Documentation for CompactLayout](#)

fullName a character (inherited from Metadata)

fields a character

label a character

CompanySettings

[Salesforce Documentation for CompanySettings](#)

fullName a character (inherited from Metadata)

fiscalYear a FiscalYearSettings

ComponentInstance

[Salesforce Documentation for ComponentInstance](#)

componentInstanceProperties a ComponentInstanceProperty

componentName a character

visibilityRule a UiFormulaRule

ComponentInstanceProperty

[Salesforce Documentation for ComponentInstanceProperty](#)

name a character

type a ComponentInstancePropertyTypeEnum - which is a character taking one of the following values:

- decorator

value a character

ConnectedApp

[Salesforce Documentation for ConnectedApp](#)

fullName a character (inherited from Metadata)

attributes a ConnectedAppAttribute

canvasConfig a ConnectedAppCanvasConfig

contactEmail a character

contactPhone a character

description a character

iconUrl a character

infoUrl a character

ipRanges a ConnectedAppIpRange

label a character

logoUrl a character

mobileAppConfig a ConnectedAppMobileDetailConfig

mobileStartUrl a character

oauthConfig a ConnectedAppOAuthConfig

plugin a character

samlConfig a ConnectedAppSamlConfig

startUrl a character

ConnectedAppAttribute

[Salesforce Documentation for ConnectedAppAttribute](#)

formula a character

key a character

ConnectedAppCanvasConfig

[Salesforce Documentation for ConnectedAppCanvasConfig](#)

accessMethod a AccessMethod - which is a character taking one of the following values:

- Get
- Post

canvasUrl a character

lifecycleClass a character

locations a CanvasLocationOptions - which is a character taking one of the following values:

- None
- Chatter
- UserProfile
- Visualforce
- Aura
- Publisher
- ChatterFeed
- ServiceDesk
- OpenCTI
- AppLauncher
- MobileNav
- PageLayout

options a CanvasOptions - which is a character taking one of the following values:

- HideShare
- HideHeader
- PersonalEnabled

samlInitiationMethod a SamlInitiationMethod - which is a character taking one of the following values:

- None
- IdpInitiated
- SpInitiated

ConnectedAppIpRange

[Salesforce Documentation for ConnectedAppIpRange](#)

description a character

end a character

start a character

ConnectedAppMobileDetailConfig

[Salesforce Documentation for ConnectedAppMobileDetailConfig](#)

applicationBinaryFile a character formed using RCurl::base64Encode

applicationBinaryFileName a character

applicationBundleIdentifier a character

applicationFileLength a integer

applicationIconFile a character

applicationIconFileName a character

applicationInstallUrl a character

devicePlatform a DevicePlatformType - which is a character taking one of the following values:

- ios
- android

deviceType a DeviceType - which is a character taking one of the following values:

- phone
- tablet
- minitablet

minimumOsVersion a character

privateApp a character either 'true' or 'false'

version a character

ConnectedAppOAuthConfig

[Salesforce Documentation for ConnectedAppOAuthConfig](#)

callbackUrl a character

certificate a character

consumerKey a character

consumerSecret a character

scopes a ConnectedAppOAuthAccessScope - which is a character taking one of the following values:

- Basic
- Api
- Web
- Full
- Chatter
- CustomApplications
- RefreshToken
- OpenID
- Profile
- Email
- Address
- Phone
- OfflineAccess
- CustomPermissions
- Wave
- Eclair

singleLogoutUrl a character

ConnectedAppSamlConfig

[Salesforce Documentation for ConnectedAppSamlConfig](#)

acsUrl a character

certificate a character

encryptionCertificate a character

encryptionType a SamlEncryptionType - which is a character taking one of the following values:

- AES_128
- AES_256
- Triple_Des

entityUrl a character

issuer a character

samlIdpSLOBindingEnum a SamlIdpSLOBinding - which is a character taking one of the following values:

- RedirectBinding
- PostBinding

samlNameIdFormat a SamlNameIdFormatType - which is a character taking one of the following values:

- Unspecified
- EmailAddress
- Persistent
- Transient

samlSloUrl a character

samlSubjectCustomAttr a character

samlSubjectType a SamlSubjectType - which is a character taking one of the following values:

- Username
- FederationId
- UserId
- SpokeId
- CustomAttribute
- PersistentId

Container

[Salesforce Documentation for Container](#)

height a integer

isContainerAutoSizeEnabled a character either 'true' or 'false'

region a character

sidebarComponents a SidebarComponent

style a character

unit a character

width a integer

ContentAsset

[Salesforce Documentation for ContentAsset](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

format a ContentAssetFormat - which is a character taking one of the following values:

- Original
- ZippedVersions

language a character

masterLabel a character

originNetwork a character

relationships a ContentAssetRelationships

versions a ContentAssetVersions

ContentAssetLink

[Salesforce Documentation for ContentAssetLink](#)

access a ContentAssetAccess - which is a character taking one of the following values:

- VIEWER
- COLLABORATOR
- INFERRED

isManagingWorkspace a character either 'true' or 'false'

name a character

ContentAssetRelationships

[Salesforce Documentation for ContentAssetRelationships](#)

insightsApplication a ContentAssetLink

network a ContentAssetLink

organization a ContentAssetLink

workspace a ContentAssetLink

ContentAssetVersion

[Salesforce Documentation for ContentAssetVersion](#)

number a character

pathOnClient a character

zipEntry a character

ContentAssetVersions

[Salesforce Documentation for ContentAssetVersions](#)

version a ContentAssetVersion

ContractSettings

[Salesforce Documentation for ContractSettings](#)

fullName a character (inherited from Metadata)

autoCalculateEndDate a character either 'true' or 'false'

autoExpirationDelay a character

autoExpirationRecipient a character

autoExpireContracts a character either 'true' or 'false'

enableContractHistoryTracking a character either 'true' or 'false'

notifyOwnersOnContractExpiration a character either 'true' or 'false'

CorsWhitelistOrigin

[Salesforce Documentation for CorsWhitelistOrigin](#)

fullName a character (inherited from Metadata)

urlPattern a character

CountriesAndStates

[Salesforce Documentation for CountriesAndStates](#)

countries a Country

Country

[Salesforce Documentation for Country](#)

active a character either 'true' or 'false'

integrationValue a character

isoCode a character

label a character

orgDefault a character either 'true' or 'false'

standard a character either 'true' or 'false'

states a State

visible a character either 'true' or 'false'

CspTrustedSite

[Salesforce Documentation for CspTrustedSite](#)

fullName a character (inherited from Metadata)

description a character

endpointUrl a character

isActive a character either 'true' or 'false'

CustomApplication

[Salesforce Documentation for CustomApplication](#)

fullName a character (inherited from Metadata)

actionOverrides a AppActionOverride

brand a AppBrand

consoleConfig a ServiceCloudConsoleConfig

defaultLandingTab a character

description a character

formFactors a FormFactor - which is a character taking one of the following values:

- Small
- Medium
- Large

isServiceCloudConsole a character either 'true' or 'false'

label a character

logo a character

navType a NavType - which is a character taking one of the following values:

- Standard
- Console

preferences a AppPreferences

profileActionOverrides a AppProfileActionOverride

setupExperience a character

subscriberTabs a character

tabs a character

uiType a UiType - which is a character taking one of the following values:

- Aloha
- Lightning

utilityBar a character

workspaceConfig a AppWorkspaceConfig

CustomApplicationComponent

[Salesforce Documentation for CustomApplicationComponent](#)

fullName a character (inherited from Metadata)

buttonIconUrl a character

buttonStyle a character

buttonText a character

buttonWidth a integer

height a integer

isHeightFixed a character either 'true' or 'false'

isHidden a character either 'true' or 'false'

isWidthFixed a character either 'true' or 'false'

visualforcePage a character

width a integer

CustomApplicationTranslation

[Salesforce Documentation for CustomApplicationTranslation](#)

label a character

name a character

CustomConsoleComponents

[Salesforce Documentation for CustomConsoleComponents](#)

primaryTabComponents a PrimaryTabComponents

subtabComponents a SubtabComponents

CustomDataType

[Salesforce Documentation for CustomDataType](#)

fullName a character (inherited from Metadata)
customDataTypeComponents a CustomDataTypeComponent
description a character
displayFormula a character
editComponentsOnSeparateLines a character either 'true' or 'false'
label a character
rightAligned a character either 'true' or 'false'
supportComponentsInReports a character either 'true' or 'false'

CustomDataTypeComponent

[Salesforce Documentation for CustomDataTypeComponent](#)

developerSuffix a character
enforceFieldRequiredness a character either 'true' or 'false'
label a character
length a integer
precision a integer
scale a integer
sortOrder a SortOrder - which is a character taking one of the following values:

- Asc
- Desc

sortPriority a integer
type a FieldType - which is a character taking one of the following values:

- AutoNumber
- Lookup
- MasterDetail
- Checkbox
- Currency
- Date
- DateTime
- Email
- Number
- Percent
- Phone
- Picklist
- MultiselectPicklist
- Text
- TextArea
- LongTextArea
- Html
- Url
- EncryptedText
- Summary
- Hierarchy

- File
- MetadataRelationship
- Location
- ExternalLookup
- IndirectLookup
- CustomDataType
- Time

CustomDataTypeComponentTranslation

[Salesforce Documentation for CustomDataTypeComponentTranslation](#)

developerSuffix a character

label a character

CustomDataTypeTranslation

[Salesforce Documentation for CustomDataTypeTranslation](#)

components a CustomDataTypeComponentTranslation

customDataTypeName a character

description a character

label a character

CustomExperience

[Salesforce Documentation for CustomExperience](#)

fullName a character (inherited from Metadata)

allowInternalUserLogin a character either 'true' or 'false'

branding a CustomExperienceBranding

changePasswordEmailTemplate a character

emailFooterLogo a character

emailFooterText a character

emailSenderAddress a character

emailSenderName a character

enableErrorPageOverridesForVisualforce a character either 'true' or 'false'

forgotPasswordEmailTemplate a character

picassoSite a character

sObjectType a character

sendWelcomeEmail a character either 'true' or 'false'

site a character

siteAsContainerEnabled a character either 'true' or 'false'

tabs a CustomExperienceTabSet

urlPathPrefix a character

welcomeEmailTemplate a character

CustomExperienceBranding

[Salesforce Documentation for CustomExperienceBranding](#)

loginFooterText a character
loginLogo a character
pageFooter a character
pageHeader a character
primaryColor a character
primaryComplementColor a character
quaternaryColor a character
quaternaryComplementColor a character
secondaryColor a character
tertiaryColor a character
tertiaryComplementColor a character
zeronaryColor a character
zeronaryComplementColor a character

CustomExperienceTabSet

[Salesforce Documentation for CustomExperienceTabSet](#)

customTab a character
defaultTab a character
standardTab a character

CustomFeedFilter

[Salesforce Documentation for CustomFeedFilter](#)

fullName a character (inherited from Metadata)
criteria a FeedFilterCriterion
description a character
isProtected a character either 'true' or 'false'
label a character

CustomField

[Salesforce Documentation for CustomField](#)

fullName a character (inherited from Metadata)
businessOwnerGroup a character
businessOwnerUser a character
businessStatus a character
caseSensitive a character either 'true' or 'false'
customDataType a character
defaultValue a character
deleteConstraint a DeleteConstraint - which is a character taking one of the following values:

- Cascade
- Restrict
- SetNull

deprecated a character either 'true' or 'false'

description a character

displayFormat a character

encrypted a character either 'true' or 'false'

escapeMarkup a character either 'true' or 'false'

externalDeveloperName a character

externalId a character either 'true' or 'false'

fieldManageability a FieldManageability - which is a character taking one of the following values:

- DeveloperControlled
- SubscriberControlled
- Locked

formula a character

formulaTreatBlanksAs a TreatBlanksAs - which is a character taking one of the following values:

- BlankAsBlank
- BlankAsZero

inlineHelpText a character

isConvertLeadDisabled a character either 'true' or 'false'

isFilteringDisabled a character either 'true' or 'false'

isNameField a character either 'true' or 'false'

isSortingDisabled a character either 'true' or 'false'

label a character

length a integer

lookupFilter a LookupFilter

maskChar a EncryptedFieldMaskChar - which is a character taking one of the following values:

- asterisk
- X

maskType a EncryptedFieldMaskType - which is a character taking one of the following values:

- all
- creditCard
- ssn
- lastFour
- sin
- nino

metadataRelationshipControllingField a character

populateExistingRows a character either 'true' or 'false'

precision a integer

referenceTargetField a character

referenceTo a character

relationshipLabel a character

relationshipName a character

relationshipOrder a integer

reparentableMasterDetail a character either 'true' or 'false'

required a character either 'true' or 'false'

restrictedAdminField a character either 'true' or 'false'

scale a integer

securityClassification a SecurityClassification - which is a character taking one of the following values:

- AccountInformation
- ConfigurationAndUsageData
- DataIntendedToBePublic
- BusinessSetupDataBusinessDataAndAggregates
- AssociativeBusinessOrPersonalData
- AuthenticationData

startingNumber a integer

stripMarkup a character either 'true' or 'false'

summarizedField a character

summaryFilterItems a FilterItem

summaryForeignKey a character

summaryOperation a SummaryOperations - which is a character taking one of the following values:

- count
- sum
- min
- max

trackFeedHistory a character either 'true' or 'false'

trackHistory a character either 'true' or 'false'

trackTrending a character either 'true' or 'false'

type a FieldType - which is a character taking one of the following values:

- AutoNumber
- Lookup
- MasterDetail
- Checkbox
- Currency
- Date
- DateTime
- Email
- Number
- Percent
- Phone
- Picklist
- MultiselectPicklist
- Text
- TextArea
- LongTextArea
- Html
- Url

- EncryptedText
- Summary
- Hierarchy
- File
- MetadataRelationship
- Location
- ExternalLookup
- IndirectLookup
- CustomDataType
- Time

unique a character either 'true' or 'false'

valueSet a ValueSet

visibleLines a integer

writeRequiresMasterRead a character either 'true' or 'false'

CustomFieldTranslation

[Salesforce Documentation for CustomFieldTranslation](#)

caseValues a ObjectNameCaseValue

gender a Gender - which is a character taking one of the following values:

- Neuter
- Masculine
- Feminine
- AnimateMasculine

help a character

label a character

lookupFilter a LookupFilterTranslation

name a character

picklistValues a PicklistValueTranslation

relationshipLabel a character

startsWith a StartsWith - which is a character taking one of the following values:

- Consonant
- Vowel
- Special

CustomLabel

[Salesforce Documentation for CustomLabel](#)

fullName a character (inherited from Metadata)

categories a character

language a character

protected a character either 'true' or 'false'

shortDescription a character

value a character

CustomLabels

[Salesforce Documentation for CustomLabels](#)

fullName a character (inherited from Metadata)

labels a CustomLabel

CustomLabelTranslation

[Salesforce Documentation for CustomLabelTranslation](#)

label a character

name a character

CustomMetadata

[Salesforce Documentation for CustomMetadata](#)

fullName a character (inherited from Metadata)

description a character

label a character

protected a character either 'true' or 'false'

values a CustomMetadataValue

CustomMetadataValue

[Salesforce Documentation for CustomMetadataValue](#)

field a character

value a character that appears similar to any of the other accepted types (integer, numeric, date, datetime, boolean)

CustomNotificationType

[Salesforce Documentation for CustomNotificationType](#)

fullName a character (inherited from Metadata)

customNotifTypeName a character

description a character

desktop a character either 'true' or 'false'

email a character either 'true' or 'false'

masterLabel a character

mobile a character either 'true' or 'false'

CustomObject

[Salesforce Documentation for CustomObject](#)

fullName a character (inherited from Metadata)

actionOverrides a ActionOverride

allowInChatterGroups a character either 'true' or 'false'

articleTypeChannelDisplay a ArticleTypeChannelDisplay

businessProcesses a BusinessProcess

compactLayoutAssignment a character

compactLayouts a CompactLayout

customHelp a character

customHelpPage a character

customSettingsType a CustomSettingsType - which is a character taking one of the following values:

- List
- Hierarchy

dataStewardGroup a character

dataStewardUser a character

deploymentStatus a DeploymentStatus - which is a character taking one of the following values:

- InDevelopment
- Deployed

deprecated a character either 'true' or 'false'

description a character

enableActivities a character either 'true' or 'false'

enableBulkApi a character either 'true' or 'false'

enableChangeDataCapture a character either 'true' or 'false'

enableDivisions a character either 'true' or 'false'

enableEnhancedLookup a character either 'true' or 'false'

enableFeeds a character either 'true' or 'false'

enableHistory a character either 'true' or 'false'

enableReports a character either 'true' or 'false'

enableSearch a character either 'true' or 'false'

enableSharing a character either 'true' or 'false'

enableStreamingApi a character either 'true' or 'false'

eventType a PlatformEventType - which is a character taking one of the following values:

- HighVolume
- StandardVolume

externalDataSource a character

externalName a character

externalRepository a character

externalSharingModel a SharingModel - which is a character taking one of the following values:

- Private
- Read
- ReadSelect
- ReadWrite
- ReadWriteTransfer
- FullAccess
- ControlledByParent

fieldSets a FieldSet

fields a CustomField

gender a Gender - which is a character taking one of the following values:

- Neuter

- Masculine
- Feminine
- AnimateMasculine

historyRetentionPolicy a HistoryRetentionPolicy

household a character either 'true' or 'false'

indexes a Index

label a character

listViews a ListView

nameField a CustomField

pluralLabel a character

recordTypeTrackFeedHistory a character either 'true' or 'false'

recordTypeTrackHistory a character either 'true' or 'false'

recordTypes a RecordType

searchLayouts a SearchLayouts

sharingModel a SharingModel - which is a character taking one of the following values:

- Private
- Read
- ReadSelect
- ReadWrite
- ReadWriteTransfer
- FullAccess
- ControlledByParent

sharingReasons a SharingReason

sharingRecalculations a SharingRecalculation

startsWith a StartsWith - which is a character taking one of the following values:

- Consonant
- Vowel
- Special

validationRules a ValidationRule

visibility a SetupObjectVisibility - which is a character taking one of the following values:

- Protected
- Public

webLinks a WebLink

CustomObjectTranslation

[Salesforce Documentation for CustomObjectTranslation](#)

fullName a character (inherited from Metadata)

caseValues a ObjectNameCaseValue

fieldSets a FieldSetTranslation

fields a CustomFieldTranslation

gender a Gender - which is a character taking one of the following values:

- Neuter

- Masculine
- Feminine
- AnimateMasculine

layouts a LayoutTranslation

nameFieldLabel a character

quickActions a QuickActionTranslation

recordTypes a RecordTypeTranslation

sharingReasons a SharingReasonTranslation

standardFields a StandardFieldTranslation

startsWith a StartsWith - which is a character taking one of the following values:

- Consonant
- Vowel
- Special

validationRules a ValidationRuleTranslation

webLinks a WebLinkTranslation

workflowTasks a WorkflowTaskTranslation

CustomPageWebLink

[Salesforce Documentation for CustomPageWebLink](#)

fullName a character (inherited from Metadata)

availability a WebLinkAvailability - which is a character taking one of the following values:

- online
- offline

description a character

displayType a WebLinkDisplayType - which is a character taking one of the following values:

- link
- button
- massActionButton

encodingKey a Encoding - which is a character taking one of the following values:

- UTF-8
- ISO-8859-1
- Shift_JIS
- ISO-2022-JP
- EUC-JP
- ks_c_5601-1987
- Big5
- GB2312
- Big5-HKSCS
- x-SJIS_0213

hasMenubar a character either 'true' or 'false'

hasScrollbars a character either 'true' or 'false'

hasToolbar a character either 'true' or 'false'

height a integer

isResizable a character either 'true' or 'false'

linkType a WebLinkType - which is a character taking one of the following values:

- url
- sControl
- javascript
- page
- flow

masterLabel a character

openType a WebLinkWindowType - which is a character taking one of the following values:

- newWindow
- sidebar
- noSidebar
- replace
- onClickJavaScript

page a character

position a WebLinkPosition - which is a character taking one of the following values:

- fullScreen
- none
- topLeft

protected a character either 'true' or 'false'

requireRowSelection a character either 'true' or 'false'

scontrol a character

showsLocation a character either 'true' or 'false'

showsStatus a character either 'true' or 'false'

url a character

width a integer

CustomPageWebLinkTranslation

[Salesforce Documentation for CustomPageWebLinkTranslation](#)

label a character

name a character

CustomPermission

[Salesforce Documentation for CustomPermission](#)

fullName a character (inherited from Metadata)

connectedApp a character

description a character

label a character

requiredPermission a CustomPermissionDependencyRequired

CustomPermissionDependencyRequired

[Salesforce Documentation for CustomPermissionDependencyRequired](#)

customPermission a character

dependency a character either 'true' or 'false'

CustomShortcut

[Salesforce Documentation for CustomShortcut](#)

action a character (inherited from DefaultShortcut)

active a character either 'true' or 'false' (inherited from DefaultShortcut)

keyCommand a character (inherited from DefaultShortcut)

description a character

eventName a character

CustomSite

[Salesforce Documentation for CustomSite](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

allowHomePage a character either 'true' or 'false'

allowStandardAnswersPages a character either 'true' or 'false'

allowStandardIdeasPages a character either 'true' or 'false'

allowStandardLookups a character either 'true' or 'false'

allowStandardPortalPages a character either 'true' or 'false'

allowStandardSearch a character either 'true' or 'false'

analyticsTrackingCode a character

authorizationRequiredPage a character

bandwidthExceededPage a character

browserXssProtection a character either 'true' or 'false'

changePasswordPage a character

chatterAnswersForgotPasswordConfirmPage a character

chatterAnswersForgotPasswordPage a character

chatterAnswersHelpPage a character

chatterAnswersLoginPage a character

chatterAnswersRegistrationPage a character

clickjackProtectionLevel a SiteClickjackProtectionLevel - which is a character taking one of the following values:

- AllowAllFraming
- SameOriginOnly
- NoFraming

contentSniffingProtection a character either 'true' or 'false'

cspUpgradeInsecureRequests a character either 'true' or 'false'

customWebAddresses a SiteWebAddress

description a character

favoriteIcon a character

fileNotFoundPage a character

forgotPasswordPage a character

genericErrorPage a character
guestProfile a character
inMaintenancePage a character
inactiveIndexPage a character
indexPage a character
masterLabel a character
myProfilePage a character
portal a character
referrerPolicyOriginWhenCrossOrigin a character either 'true' or 'false'
requireHttps a character either 'true' or 'false'
requireInsecurePortalAccess a character either 'true' or 'false'
robotsTxtPage a character
rootComponent a character
selfRegPage a character
serverIsDown a character
siteAdmin a character
siteRedirectMappings a SiteRedirectMapping
siteTemplate a character
siteType a SiteType - which is a character taking one of the following values:

- Siteforce
- Visualforce
- User

subdomain a character
urlPathPrefix a character

CustomTab
[Salesforce Documentation for CustomTab](#)

fullName a character (inherited from Metadata)
actionOverrides a ActionOverride
auraComponent a character
customObject a character either 'true' or 'false'
description a character
flexiPage a character
frameHeight a integer
hasSidebar a character either 'true' or 'false'
icon a character
label a character
mobileReady a character either 'true' or 'false'
motif a character
page a character
scontrol a character

splashPageLink a character

url a character

urlEncodingKey a Encoding - which is a character taking one of the following values:

- UTF-8
- ISO-8859-1
- Shift_JIS
- ISO-2022-JP
- EUC-JP
- ks_c_5601-1987
- Big5
- GB2312
- Big5-HKSCS
- x-SJIS_0213

CustomTabTranslation

[Salesforce Documentation for CustomTabTranslation](#)

label a character

name a character

CustomValue

[Salesforce Documentation for CustomValue](#)

fullName a character (inherited from Metadata)

color a character

default a character either 'true' or 'false'

description a character

isActive a character either 'true' or 'false'

label a character

Dashboard

[Salesforce Documentation for Dashboard](#)

fullName a character (inherited from Metadata)

backgroundEndColor a character

backgroundFadeDirection a ChartBackgroundDirection - which is a character taking one of the following values:

- TopToBottom
- LeftToRight
- Diagonal

backgroundStartColor a character

chartTheme a ChartTheme - which is a character taking one of the following values:

- light
- dark

colorPalette a ChartColorPalettes - which is a character taking one of the following values:

- Default

- gray
- colorSafe
- unity
- justice
- nightfall
- sunrise
- bluegrass
- tropic
- heat
- dusk
- pond
- watermelon
- fire
- water
- earth
- accessible

dashboardChartTheme a ChartTheme - which is a character taking one of the following values:

- light
- dark

dashboardColorPalette a ChartColorPalettes - which is a character taking one of the following values:

- Default
- gray
- colorSafe
- unity
- justice
- nightfall
- sunrise
- bluegrass
- tropic
- heat
- dusk
- pond
- watermelon
- fire
- water
- earth
- accessible

dashboardFilters a DashboardFilter

dashboardGridLayout a DashboardGridLayout

dashboardResultRefreshedDate a character

dashboardResultRunningUser a character

dashboardType a DashboardType - which is a character taking one of the following values:

- SpecifiedUser

- LoggedInUser
- MyTeamUser

description a character

folderName a character

isGridLayout a character either 'true' or 'false'

leftSection a DashboardComponentSection

middleSection a DashboardComponentSection

numSubscriptions a integer

rightSection a DashboardComponentSection

runningUser a character

textColor a character

title a character

titleColor a character

titleSize a integer

DashboardComponent

[Salesforce Documentation for DashboardComponent](#)

autoselectColumnsFromReport a character either 'true' or 'false'

chartAxisRange a ChartRangeType - which is a character taking one of the following values:

- Auto
- Manual

chartAxisRangeMax a numeric

chartAxisRangeMin a numeric

chartSummary a ChartSummary

componentChartTheme a ChartTheme - which is a character taking one of the following values:

- light
- dark

componentType a DashboardComponentType - which is a character taking one of the following values:

- Bar
- BarGrouped
- BarStacked
- BarStacked100
- Column
- ColumnGrouped
- ColumnStacked
- ColumnStacked100
- Line
- LineGrouped
- Pie
- Table
- Metric
- Gauge

- LineCumulative
- LineGroupedCumulative
- Scontrol
- VisualforcePage
- Donut
- Funnel
- ColumnLine
- ColumnLineGrouped
- ColumnLineStacked
- ColumnLineStacked100
- Scatter
- ScatterGrouped
- FlexTable

dashboardFilterColumns a DashboardFilterColumn

dashboardTableColumn a DashboardTableColumn

displayUnits a ChartUnits - which is a character taking one of the following values:

- Auto
- Integer
- Hundreds
- Thousands
- Millions
- Billions
- Trillions

drillDownUrl a character

drillEnabled a character either 'true' or 'false'

drillToDetailEnabled a character either 'true' or 'false'

enableHover a character either 'true' or 'false'

expandOthers a character either 'true' or 'false'

flexComponentProperties a DashboardFlexTableComponentProperties

footer a character

gaugeMax a numeric

gaugeMin a numeric

groupingColumn a character

header a character

indicatorBreakpoint1 a numeric

indicatorBreakpoint2 a numeric

indicatorHighColor a character

indicatorLowColor a character

indicatorMiddleColor a character

legendPosition a ChartLegendPosition - which is a character taking one of the following values:

- Right
- Bottom
- OnChart

maxValuesDisplayed a integer
metricLabel a character
page a character
pageHeightInPixels a integer
report a character
scontrol a character
scontrolHeightInPixels a integer
showPercentage a character either 'true' or 'false'
showPicturesOnCharts a character either 'true' or 'false'
showPicturesOnTables a character either 'true' or 'false'
showRange a character either 'true' or 'false'
showTotal a character either 'true' or 'false'
showValues a character either 'true' or 'false'
sortBy a DashboardComponentFilter - which is a character taking one of the following values:

- RowLabelAscending
- RowLabelDescending
- RowValueAscending
- RowValueDescending

title a character
useReportChart a character either 'true' or 'false'

DashboardComponentColumn

[Salesforce Documentation for DashboardComponentColumn](#)

breakPoint1 a numeric
breakPoint2 a numeric
breakPointOrder a integer
highRangeColor a integer
lowRangeColor a integer
midRangeColor a integer
reportColumn a character
showTotal a character either 'true' or 'false'
type a DashboardComponentColumnType - which is a character taking one of the following values:

- NA

DashboardComponentSection

[Salesforce Documentation for DashboardComponentSection](#)

columnSize a DashboardComponentSize - which is a character taking one of the following values:

- Narrow
- Medium
- Wide

components a DashboardComponent

DashboardComponentSortInfo

[Salesforce Documentation for DashboardComponentSortInfo](#)

sortColumn a character

sortOrder a character

DashboardFilter

[Salesforce Documentation for DashboardFilter](#)

dashboardFilterOptions a DashboardFilterOption

name a character

DashboardFilterColumn

[Salesforce Documentation for DashboardFilterColumn](#)

column a character

DashboardFilterOption

[Salesforce Documentation for DashboardFilterOption](#)

operator a DashboardFilterOperation - which is a character taking one of the following values:

- equals
- notEqual
- lessThan
- greaterThan
- lessOrEqual
- greaterOrEqual
- contains
- notContain
- startsWith
- includes
- excludes
- between

values a character

DashboardFlexTableComponentProperties

[Salesforce Documentation for DashboardFlexTableComponentProperties](#)

flexTableColumn a DashboardComponentColumn

flexTableSortInfo a DashboardComponentSortInfo

hideChatterPhotos a character either 'true' or 'false'

DashboardFolder

[Salesforce Documentation for DashboardFolder](#)

accessType a FolderAccessTypes (inherited from Folder)

folderShares a FolderShare (inherited from Folder)

name a character (inherited from Folder)

publicFolderAccess a PublicFolderAccess (inherited from Folder)

sharedTo a SharedTo (inherited from Folder)

DashboardGridComponent

[Salesforce Documentation for DashboardGridComponent](#)

colSpan a integer

columnIndex a integer

dashboardComponent a DashboardComponent

rowIndex a integer

rowSpan a integer

DashboardGridLayout

[Salesforce Documentation for DashboardGridLayout](#)

dashboardGridComponents a DashboardGridComponent

numberOfColumns a integer

rowHeight a integer

DashboardMobileSettings

[Salesforce Documentation for DashboardMobileSettings](#)

enableDashboardIPadApp a character either 'true' or 'false'

DashboardTableColumn

[Salesforce Documentation for DashboardTableColumn](#)

aggregateType a ReportSummaryType - which is a character taking one of the following values:

- Sum
- Average
- Maximum
- Minimum
- None

calculatePercent a character either 'true' or 'false'

column a character

decimalPlaces a integer

showTotal a character either 'true' or 'false'

sortBy a DashboardComponentFilter - which is a character taking one of the following values:

- RowLabelAscending
- RowLabelDescending
- RowValueAscending
- RowValueDescending

DataCategory

[Salesforce Documentation for DataCategory](#)

dataCategory a DataCategory

label a character

name a character

DataCategoryGroup

[Salesforce Documentation for DataCategoryGroup](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

dataCategory a DataCategory

description a character

label a character

objectUsage a ObjectUsage

DataPipeline

[Salesforce Documentation for DataPipeline](#)

content a character formed using RUrl::base64Encode (inherited from MetadataWithContent)

apiVersion a numeric

label a character

scriptType a DataPipelineType - which is a character taking one of the following values:

- Pig

DefaultShortcut

[Salesforce Documentation for DefaultShortcut](#)

action a character

active a character either 'true' or 'false'

keyCommand a character

DelegateGroup

[Salesforce Documentation for DelegateGroup](#)

fullName a character (inherited from Metadata)

customObjects a character

groups a character

label a character

loginAccess a character either 'true' or 'false'

permissionSets a character

profiles a character

roles a character

DeployDetails

[Salesforce Documentation for DeployDetails](#)

componentFailures a DeployMessage

componentSuccesses a DeployMessage

retrieveResult a RetrieveResult

runTestResult a RunTestsResult

DeployOptions

[Salesforce Documentation for DeployOptions](#)

allowMissingFiles a character either 'true' or 'false'

autoUpdatePackage a character either 'true' or 'false'

checkOnly a character either 'true' or 'false'
ignoreWarnings a character either 'true' or 'false'
performRetrieve a character either 'true' or 'false'
purgeOnDelete a character either 'true' or 'false'
rollbackOnError a character either 'true' or 'false'
runTests a character
singlePackage a character either 'true' or 'false'
testLevel a TestLevel - which is a character taking one of the following values:

- NoTestRun
- RunSpecifiedTests
- RunLocalTests
- RunAllTestsInOrg

DescribeMetadataObject

[Salesforce Documentation for DescribeMetadataObject](#)

childXmlNames a character
directoryName a character
inFolder a character either 'true' or 'false'
metaFile a character either 'true' or 'false'
suffix a character
xmlName a character

Document

[Salesforce Documentation for Document](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)
description a character
internalUseOnly a character either 'true' or 'false'
keywords a character
name a character
public a character either 'true' or 'false'

DocumentFolder

[Salesforce Documentation for DocumentFolder](#)

accessType a FolderAccessTypes (inherited from Folder)
folderShares a FolderShare (inherited from Folder)
name a character (inherited from Folder)
publicFolderAccess a PublicFolderAccess (inherited from Folder)
sharedTo a SharedTo (inherited from Folder)

DuplicateRule

[Salesforce Documentation for DuplicateRule](#)

fullName a character (inherited from Metadata)
actionOnInsert a DupeActionType - which is a character taking one of the following values:

- Allow
- Block

actionOnUpdate a DupeActionType - which is a character taking one of the following values:

- Allow
- Block

alertText a character

description a character

duplicateRuleFilter a DuplicateRuleFilter

duplicateRuleMatchRules a DuplicateRuleMatchRule

isActive a character either 'true' or 'false'

masterLabel a character

operationsOnInsert a character

operationsOnUpdate a character

securityOption a DupeSecurityOptionType - which is a character taking one of the following values:

- EnforceSharingRules
- BypassSharingRules

sortOrder a integer

DuplicateRuleFilter

[Salesforce Documentation for DuplicateRuleFilter](#)

booleanFilter a character

duplicateRuleFilterItems a DuplicateRuleFilterItem

DuplicateRuleFilterItem

[Salesforce Documentation for DuplicateRuleFilterItem](#)

field a character (inherited from FilterItem)

operation a FilterOperation (inherited from FilterItem)

value a character (inherited from FilterItem)

valueField a character (inherited from FilterItem)

sortOrder a integer

table a character

DuplicateRuleMatchRule

[Salesforce Documentation for DuplicateRuleMatchRule](#)

matchRuleSOBJECTType a character

matchingRule a character

objectMapping a ObjectMapping

EclairGeoData

[Salesforce Documentation for EclairGeoData](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

maps a EclairMap

masterLabel a character

EclairMap

[Salesforce Documentation for EclairMap](#)

boundingBoxBottom a numeric

boundingBoxLeft a numeric

boundingBoxRight a numeric

boundingBoxTop a numeric

mapLabel a character

mapName a character

projection a character

EmailFolder

[Salesforce Documentation for EmailFolder](#)

accessType a FolderAccessTypes (inherited from Folder)

folderShares a FolderShare (inherited from Folder)

name a character (inherited from Folder)

publicFolderAccess a PublicFolderAccess (inherited from Folder)

sharedTo a SharedTo (inherited from Folder)

EmailServicesAddress

[Salesforce Documentation for EmailServicesAddress](#)

authorizedSenders a character

developerName a character

isActive a character either 'true' or 'false'

localPart a character

runAsUser a character

EmailServicesFunction

[Salesforce Documentation for EmailServicesFunction](#)

fullName a character (inherited from Metadata)

apexClass a character

attachmentOption a EmailServicesAttOptions - which is a character taking one of the following values:

- None
- TextOnly
- BinaryOnly
- All
- NoContent

authenticationFailureAction a EmailServicesErrorAction - which is a character taking one of the following values:

- UseSystemDefault
- Bounce

- Discard
- Requeue

authorizationFailureAction a EmailServicesErrorAction - which is a character taking one of the following values:

- UseSystemDefault
- Bounce
- Discard
- Requeue

authorizedSenders a character

emailServicesAddresses a EmailServicesAddress

errorRoutingAddress a character

functionInactiveAction a EmailServicesErrorAction - which is a character taking one of the following values:

- UseSystemDefault
- Bounce
- Discard
- Requeue

functionName a character

isActive a character either 'true' or 'false'

isAuthenticationRequired a character either 'true' or 'false'

isErrorRoutingEnabled a character either 'true' or 'false'

isTextAttachmentsAsBinary a character either 'true' or 'false'

isTlsRequired a character either 'true' or 'false'

overLimitAction a EmailServicesErrorAction - which is a character taking one of the following values:

- UseSystemDefault
- Bounce
- Discard
- Requeue

EmailTemplate

[Salesforce Documentation for EmailTemplate](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

apiVersion a numeric

attachedDocuments a character

attachments a Attachment

available a character either 'true' or 'false'

description a character

encodingKey a Encoding - which is a character taking one of the following values:

- UTF-8
- ISO-8859-1
- Shift_JIS
- ISO-2022-JP

- EUC-JP
- ks_c_5601-1987
- Big5
- GB2312
- Big5-HKSCS
- x-SJIS_0213

letterhead a character

name a character

packageVersions a PackageVersion

relatedEntityType a character

style a EmailTemplateStyle - which is a character taking one of the following values:

- none
- freeForm
- formalLetter
- promotionRight
- promotionLeft
- newsletter
- products

subject a character

textOnly a character

type a EmailTemplateType - which is a character taking one of the following values:

- text
- html
- custom
- visualforce

uiType a EmailTemplateUiType - which is a character taking one of the following values:

- Aloha
- SFX
- SFX_Sample

EmailToCaseRoutingAddress

[Salesforce Documentation for EmailToCaseRoutingAddress](#)

addressType a EmailToCaseRoutingAddressType - which is a character taking one of the following values:

- EmailToCase
- Outlook

authorizedSenders a character

caseOrigin a character

caseOwner a character

caseOwnerType a character

casePriority a character

createTask a character either 'true' or 'false'

emailAddress a character

emailServicesAddress a character

isVerified a character either 'true' or 'false'

routingName a character

saveEmailHeaders a character either 'true' or 'false'

taskStatus a character

EmailToCaseSettings

[Salesforce Documentation for EmailToCaseSettings](#)

enableE2CSourceTracking a character either 'true' or 'false'

enableEmailToCase a character either 'true' or 'false'

enableHtmlEmail a character either 'true' or 'false'

enableOnDemandEmailToCase a character either 'true' or 'false'

enableThreadIDInBody a character either 'true' or 'false'

enableThreadIDInSubject a character either 'true' or 'false'

notifyOwnerOnNewCaseEmail a character either 'true' or 'false'

overEmailLimitAction a EmailToCaseOnFailureActionType - which is a character taking one of the following values:

- Bounce
- Discard
- Requeue

preQuoteSignature a character either 'true' or 'false'

routingAddresses a EmailToCaseRoutingAddress

unauthorizedSenderAction a EmailToCaseOnFailureActionType - which is a character taking one of the following values:

- Bounce
- Discard
- Requeue

EmbeddedServiceBranding

[Salesforce Documentation for EmbeddedServiceBranding](#)

fullName a character (inherited from Metadata)

contrastInvertedColor a character

contrastPrimaryColor a character

embeddedServiceConfig a character

font a character

masterLabel a character

navBarColor a character

primaryColor a character

secondaryColor a character

EmbeddedServiceConfig

[Salesforce Documentation for EmbeddedServiceConfig](#)

fullName a character (inherited from Metadata)

masterLabel a character

site a character

EmbeddedServiceFieldService

[Salesforce Documentation for EmbeddedServiceFieldService](#)

fullName a character (inherited from Metadata)

appointmentBookingFlowName a character

cancelApptBookingFlowName a character

embeddedServiceConfig a character

enabled a character either 'true' or 'false'

fieldServiceConfirmCardImg a character

fieldServiceHomeImg a character

fieldServiceLogoImg a character

masterLabel a character

modifyApptBookingFlowName a character

shouldShowExistingAppointment a character either 'true' or 'false'

shouldShowNewAppointment a character either 'true' or 'false'

EmbeddedServiceLiveAgent

[Salesforce Documentation for EmbeddedServiceLiveAgent](#)

fullName a character (inherited from Metadata)

avatarImg a character

customPrechatComponent a character

embeddedServiceConfig a character

embeddedServiceQuickActions a EmbeddedServiceQuickAction

enabled a character either 'true' or 'false'

fontSize a EmbeddedServiceFontSize - which is a character taking one of the following values:

- Small
- Medium
- Large

headerBackgroundImg a character

liveAgentChatUrl a character

liveAgentContentUrl a character

liveChatButton a character

liveChatDeployment a character

masterLabel a character

prechatBackgroundImg a character

prechatEnabled a character either 'true' or 'false'

prechatJson a character

scenario a EmbeddedServiceScenario - which is a character taking one of the following values:

- Sales
- Service

- Basic

smallCompanyLogoImg a character

waitingStateBackgroundImg a character

EmbeddedServiceQuickAction

[Salesforce Documentation for EmbeddedServiceQuickAction](#)

embeddedServiceLiveAgent a character

order a integer

quickActionDefinition a character

EntitlementProcess

[Salesforce Documentation for EntitlementProcess](#)

fullName a character (inherited from Metadata)

SObjectType a character

active a character either 'true' or 'false'

businessHours a character

description a character

entryStartDateField a character

exitCriteriaBooleanFilter a character

exitCriteriaFilterItems a FilterItem

exitCriteriaFormula a character

isRecordTypeApplied a character either 'true' or 'false'

isVersionDefault a character either 'true' or 'false'

milestones a EntitlementProcessMilestoneItem

name a character

recordType a character

versionMaster a character

versionNotes a character

versionNumber a integer

EntitlementProcessMilestoneItem

[Salesforce Documentation for EntitlementProcessMilestoneItem](#)

businessHours a character

criteriaBooleanFilter a character

milestoneCriteriaFilterItems a FilterItem

milestoneCriteriaFormula a character

milestoneName a character

minutesCustomClass a character

minutesToComplete a integer

successActions a WorkflowActionReference

timeTriggers a EntitlementProcessMilestoneTimeTrigger

useCriteriaStartTime a character either 'true' or 'false'

EntitlementProcessMilestoneTimeTrigger

[Salesforce Documentation for EntitlementProcessMilestoneTimeTrigger](#)

actions a WorkflowActionReference

timeLength a integer

workflowTimeTriggerUnit a MilestoneTimeUnits - which is a character taking one of the following values:

- Minutes
- Hours
- Days

EntitlementSettings

[Salesforce Documentation for EntitlementSettings](#)

fullName a character (inherited from Metadata)

assetLookupLimitedToActiveEntitlementsOnAccount a character either 'true' or 'false'

assetLookupLimitedToActiveEntitlementsOnContact a character either 'true' or 'false'

assetLookupLimitedToSameAccount a character either 'true' or 'false'

assetLookupLimitedToSameContact a character either 'true' or 'false'

enableEntitlementVersioning a character either 'true' or 'false'

enableEntitlements a character either 'true' or 'false'

entitlementLookupLimitedToActiveStatus a character either 'true' or 'false'

entitlementLookupLimitedToSameAccount a character either 'true' or 'false'

entitlementLookupLimitedToSameAsset a character either 'true' or 'false'

entitlementLookupLimitedToSameContact a character either 'true' or 'false'

EntitlementTemplate

[Salesforce Documentation for EntitlementTemplate](#)

fullName a character (inherited from Metadata)

businessHours a character

casesPerEntitlement a integer

entitlementProcess a character

isPerIncident a character either 'true' or 'false'

term a integer

type a character

EscalationAction

[Salesforce Documentation for EscalationAction](#)

assignedTo a character

assignedToTemplate a character

assignedToType a AssignToLookupValueType - which is a character taking one of the following values:

- User
- Queue

minutesToEscalation a integer
notifyCaseOwner a character either 'true' or 'false'
notifyEmail a character
notifyTo a character
notifyToTemplate a character

EscalationRule

[Salesforce Documentation for EscalationRule](#)

fullName a character (inherited from Metadata)
active a character either 'true' or 'false'
ruleEntry a RuleEntry

EscalationRules

[Salesforce Documentation for EscalationRules](#)

fullName a character (inherited from Metadata)
escalationRule a EscalationRule

EventDelivery

[Salesforce Documentation for EventDelivery](#)

fullName a character (inherited from Metadata)
eventParameters a EventParameterMap
eventSubscription a character
referenceData a character
type a EventDeliveryType - which is a character taking one of the following values:

- StartFlow
- ResumeFlow

EventParameterMap

[Salesforce Documentation for EventParameterMap](#)

parameterName a character
parameterValue a character

EventSubscription

[Salesforce Documentation for EventSubscription](#)

fullName a character (inherited from Metadata)
active a character either 'true' or 'false'
eventParameters a EventParameterMap
eventType a character
referenceData a character

ExtendedErrorDetails

[Salesforce Documentation for ExtendedErrorDetails](#)

extendedErrorCode a ExtendedErrorCode - which is a character taking one of the following values:

- ACTIONCALL_DUPLICATE_INPUT_PARAM - Errors with this extended error code have the following properties: actionCallName, parameterName
- ACTIONCALL_DUPLICATE_OUTPUT_PARAM - Errors with this extended error code have the following properties: actionCallName, parameterName
- ACTIONCALL_MISSING_NAME - Errors with this extended error code have the following properties:
- ACTIONCALL_MISSING_REQUIRED_PARAM - Errors with this extended error code have the following properties: actionCallName, parameterName
- ACTIONCALL_MISSING_REQUIRED_TYPE - Errors with this extended error code have the following properties: actionCallName
- ACTIONCALL_NOT_FOUND_WITH_NAME_AND_TYPE - Errors with this extended error code have the following properties:
- ACTIONCALL_NOT_SUPPORTED_FOR_PROCESSTYPE - Errors with this extended error code have the following properties: processType
- APEXCALLOUT_INPUT_DUPLICATE - Errors with this extended error code have the following properties: apexClassName, parameterName
- APEXCALLOUT_INPUT_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: apexClassName, parameterName
- APEXCALLOUT_INVALID - Errors with this extended error code have the following properties: apexClassName
- APEXCALLOUT_MISSING_CLASSNAME - Errors with this extended error code have the following properties: apexClassName
- APEXCALLOUT_NOT_FOUND - Errors with this extended error code have the following properties: apexClassName
- APEXCALLOUT_OUTPUT_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: apexClassName, parameterName
- APEXCALLOUT_OUTPUT_NOT_FOUND - Errors with this extended error code have the following properties: apexClassName, parameterName
- APEXCALLOUT_REQUIRED_INPUT_MISSING - Errors with this extended error code have the following properties: apexClassName, parameterName
- APEXCLASS_MISSING_INTERFACE - Errors with this extended error code have the following properties: apexClassName, parentScreenFieldName
- ASSIGNMENTITEM_ELEMENT_MISSING_DATATYPE - Errors with this extended error code have the following properties: assignmentName, operatorName, elementName
- ASSIGNMENTITEM_ELEMENT_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName, assignmentName, elementType
- ASSIGNMENTITEM_FIELD_INVALID_DATATYPE - Errors with this extended error code have the following properties: fieldValue, dataType, incompatibleDataType
- ASSIGNMENTITEM_FIELD_INVALID_DATATYPE_WITH_ELEMENT - Errors with this extended error code have the following properties: elementName, acceptedDataType, dataType, fieldValue
- ASSIGNMENTITEM_INCOMPATIBLE_DATATYPES - Errors with this extended error code have the following properties: assignmentName, operatorName, leftElementName, leftElementType, rightElementName, rightElementType
- ASSIGNMENTITEM_INVALID_COLLECTION - Errors with this extended error code have the following properties: assignmentName, operatorName, leftElementName, rightElementName
- ASSIGNMENTITEM_INVALID_DATATYPE_IN_ELEMENT - Errors with this extended error code have the following properties: elementName, dataType, incompatibleDataType

- ASSIGNMENTITEM_INVALID_REFERENCE - Errors with this extended error code have the following properties: parameterName, operatorName
- ASSIGNMENTITEM_LEFT_DATATYPE_INVALID_FOR_OPERATOR - Errors with this extended error code have the following properties: assignmentName, operatorName, dataType, elementName
- ASSIGNMENTITEM_MODIFIES_NONVARIABLE - Errors with this extended error code have the following properties: assignmentName
- ASSIGNMENTITEM_NONEXISTENT_REFERENCE - Errors with this extended error code have the following properties: parameterName, operatorName
- ASSIGNMENTITEM_REQUIRED - Errors with this extended error code have the following properties: assignmentName
- ASSIGNMENTITEM_RIGHT_DATATYPE_INVALID_FOR_OPERATOR - Errors with this extended error code have the following properties: elementName
- AUTOLAUNCHED_CHOICELOOKUP_NOT_SUPPORTED - Errors with this extended error code have the following properties: choiceLookupName
- AUTOLAUNCHED_CHOICE_NOT_SUPPORTED - Errors with this extended error code have the following properties: choiceName
- AUTOLAUNCHED_SCREEN_NOT_SUPPORTED - Errors with this extended error code have the following properties:
- AUTOLAUNCHED_STEP_NOT_SUPPORTED - Errors with this extended error code have the following properties:
- AUTOLAUNCHED_SUBFLOW_INCOMPATIBLE_FLOWTYPE - Errors with this extended error code have the following properties: subflowType
- AUTOLAUNCHED_WAIT_NOT_SUPPORTED - Errors with this extended error code have the following properties:
- CHOICEFIELD_DEFAULT_CHOICE_NOT_FOUND - Errors with this extended error code have the following properties: screenFieldName
- CHOICEFIELD_MISSING_CHOICE - Errors with this extended error code have the following properties: questionName
- CHOICELOOKUP_DATATYPE_INCOMPATIBLE_WITH_CHOICEFIELD - Errors with this extended error code have the following properties: choiceName, parentScreenFieldName
- CHOICE_DATATYPE_INCOMPATIBLE_WITH_CHOICEFIELD - Errors with this extended error code have the following properties: choiceName, parentScreenFieldName
- CHOICE_NOT_SUPPORTED_FOR_SCREENFIELDTYPE - Errors with this extended error code have the following properties: elementName, screenFieldName
- CHOICE_USED_MULTIPLE_TIMES_IN_SAME_FIELD - Errors with this extended error code have the following properties: choiceName
- CONDITION_DATATYPE_INCOMPATIBLE - Errors with this extended error code have the following properties: leftElementName, leftElementType, operatorName, rightElementName, rightElementType, ruleName
- CONDITION_DATATYPE_INCOMPATIBLE_WITH_ELEMENT - Errors with this extended error code have the following properties: elementName, dataType, operatorName, parameterName, ruleName
- CONDITION_ELEMENT_DATATYPES_INCOMPATIBLE - Errors with this extended error code have the following properties: elementName, leftElementType, operatorName, rightElementType, ruleName
- CONDITION_INVALID_LEFTOPERAND - Errors with this extended error code have the following properties: ruleName

- **CONDITION_INVALID_LEFT_ELEMENT** - Errors with this extended error code have the following properties: elementName, dataType, operatorName, parameterName, ruleName
- **CONDITION_LOGIC_EXCEEDS_LIMIT** - Errors with this extended error code have the following properties: elementName, characterLimit
- **CONDITION_LOGIC_INVALID** - Errors with this extended error code have the following properties: elementName
- **CONDITION_LOGIC_MISSING** - Errors with this extended error code have the following properties: elementName
- **CONDITION_MISSING_DATATYPE** - Errors with this extended error code have the following properties: elementName, dataType, operatorName, parameterName, ruleName
- **CONDITION_MISSING_OPERATOR** - Errors with this extended error code have the following properties: ruleName
- **CONDITION_REFERENCED_ELEMENT_NOT_FOUND** - Errors with this extended error code have the following properties: ruleName
- **CONDITION_RIGHTOPERAND_NULL** - Errors with this extended error code have the following properties: ruleName
- **CONNECTOR_MISSING_TARGET** - Errors with this extended error code have the following properties: elementName
- **CONSTANT_INCLUDES_REFERENCES** - Errors with this extended error code have the following properties: constantName
- **CUSTOMEVENTS_NOT_ENABLED** - Errors with this extended error code have the following properties:
- **CUSTOMEVENT_MISSING_PROCESSMETADATAVALUES** - Errors with this extended error code have the following properties:
- **CUSTOMEVENT_OBJECTTYPE_NOT_FOUND** - Errors with this extended error code have the following properties: objectType
- **CUSTOMEVENT_OBJECTTYPE_NOT_SUPPORTED** - Errors with this extended error code have the following properties: objectType
- **CUSTOMEVENT_PROCESSMETADATAVALUES_MISSING_NAME** - Errors with this extended error code have the following properties: metadataValue
- **CUSTOMEVENT_PROCESSMETADATAVALUES_MORE_THAN_ONE_NAME** - Errors with this extended error code have the following properties: metadataValue
- **DATATYPE_INVALID** - Errors with this extended error code have the following properties: elementName, dataType
- **DATATYPE_MISSING** - Errors with this extended error code have the following properties: elementName
- **DECISION_DEFAULT_CONNECTOR_MISSING_LABEL** - Errors with this extended error code have the following properties: flowDecision
- **DECISION_MISSING_OUTCOME** - Errors with this extended error code have the following properties: flowDecision
- **ELEMENT_CONNECTS_TO_SELF** - Errors with this extended error code have the following properties: elementName
- **ELEMENT_COORDINATES_INVALID** - Errors with this extended error code have the following properties: coordinateLimit, coordinateName
- **ELEMENT_INVALID_CONNECTOR** - Errors with this extended error code have the following properties: elementName
- **ELEMENT_INVALID_REFERENCE** - Errors with this extended error code have the following properties: elementName

- ELEMENT_MISSING_CONNECTOR - Errors with this extended error code have the following properties: elementName
- ELEMENT_MISSING_LABEL - Errors with this extended error code have the following properties: characterLimit, elementName
- ELEMENT_MISSING_NAME - Errors with this extended error code have the following properties: characterLimit
- ELEMENT_MISSING_REFERENCE - Errors with this extended error code have the following properties: elementName
- ELEMENT_MORE_THAN_ONE_FIELD - Errors with this extended error code have the following properties: elementName
- ELEMENT_NAME_INVALID - Errors with this extended error code have the following properties:
- ELEMENT_NEVER_USED - Errors with this extended error code have the following properties: elementName
- ELEMENT_SCALE_SMALLER_THAN_DEFAULTVALUE - Errors with this extended error code have the following properties: elementName
- EXTERNAL_OBJECTS_NOT_SUPPORTED - Errors with this extended error code have the following properties: objectName
- EXTERNAL_OBJECT_FIELDS_NOT_SUPPORTED - Errors with this extended error code have the following properties: fieldReference
- FIELDASSIGNMENT_FIELD_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: fieldName, elementName
- FIELDASSIGNMENT_INVALID_DATATYPE - Errors with this extended error code have the following properties: fieldName, elementName, assignmentName
- FIELDASSIGNMENT_INVALID_ELEMENT - Errors with this extended error code have the following properties: fieldName, elementName, elementType
- FIELDASSIGNMENT_INVALID_REFERENCE - Errors with this extended error code have the following properties: fieldName, parameterName
- FIELDASSIGNMENT_MULTIPLE_REFERENCES_SAME_FIELD - Errors with this extended error code have the following properties: fieldName
- FIELDASSIGNMENT_PICKLISTFIELD_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: fieldName, dataType
- FIELDASSIGNMENT_REFERENCED_ELEMENT_MISSING_DATATYPE - Errors with this extended error code have the following properties: fieldName, elementName, elementType
- FIELDSERVICE_UNSUPPORTED_FIELD_TYPE - Errors with this extended error code have the following properties: elementName
- FIELD_INVALID_VALUE - Errors with this extended error code have the following properties: fieldName, parameterName
- FIELD_NOT_FOUND - Errors with this extended error code have the following properties: objectName, fieldName
- FIELD_RELATIONSHIP_NOT_SUPPORTED - Errors with this extended error code have the following properties: fieldRelationshipName
- FLEXIPAGE_COMPONENT_ATTRIBUTE_EXPRESSION_EXCEPTION - Errors with this extended error code have the following properties: componentName, propertyName, propertyType, errorCode, invalidTokens
- FLEXIPAGE_COMPONENT_ATTRIBUTE_GENERIC_EXCEPTION - Errors with this extended error code have the following properties: componentName, propertyName, propertyType, errorIdentifier, errorParams

- FLEXIPAGE_COMPONENT_ATTRIBUTE_MISSING_REQUIRED - Errors with this extended error code have the following properties: componentName, propertyName, propertyType
- FLEXIPAGE_COMPONENT_ATTRIBUTE_TOO_LONG - Errors with this extended error code have the following properties: componentName, propertyName, propertyType, maxLength
- FLEXIPAGE_COMPONENT_MAX_LIMIT_EXCEPTION - Errors with this extended error code have the following properties:
- FLEXIPAGE_COMPONENT_RULE_VALIDATION_EXCEPTION - Errors with this extended error code have the following properties: componentName, criterionIndex
- FLEXIPAGE_PICKLIST_INVALID_VALUE_EXCEPTION - Errors with this extended error code have the following properties: componentName, propertyName, propertyType, invalidValue
- FLOW_INCLUDES_STEP - Errors with this extended error code have the following properties: elementName
- FLOW_NAME_USED_IN_OTHER_CLIENT - Errors with this extended error code have the following properties: flowName
- FLOW_STAGE_INCLUDES_REFERENCES - Errors with this extended error code have the following properties: stageName
- FORMULA_EXPRESSION_INVALID - Errors with this extended error code have the following properties: formulaExpression
- INPUTPARAM_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: parameterName
- INPUTPARAM_INCOMPATIBLE_WITH_COLLECTION_VARIABLE - Errors with this extended error code have the following properties: parameterName
- INPUTPARAM_INCOMPATIBLE_WITH_NONCOLLECTION_VARIABLE - Errors with this extended error code have the following properties: parameterName
- INPUTPARAM_MISMATCHED_OBJECTTYPE - Errors with this extended error code have the following properties: parameterName
- INVALID_FLOW - Errors with this extended error code have the following properties:
- INVALID_SURVEY_VARIABLE_NAME_OR_TYPE - Errors with this extended error code have the following properties: surveyName
- LOOP_ASSIGNNEXTVALUETO_MISMATCHED_DATATYPE - Errors with this extended error code have the following properties: elementName
- LOOP_ASSIGNNEXTVALUETO_MISMATCHED_OBJECTTYPE - Errors with this extended error code have the following properties: elementName
- LOOP_ASSIGNNEXTVALUETO_MISSING - Errors with this extended error code have the following properties: elementName
- LOOP_ASSIGNNEXTVALUETO_MISSING_VARIABLE - Errors with this extended error code have the following properties: elementName
- LOOP_ASSIGNNEXTVALUETO_REFERENCE_NOT_FOUND - Errors with this extended error code have the following properties: fieldRelationshipName
- LOOP_COLLECTION_ELEMENT_NOT_FOUND - Errors with this extended error code have the following properties: elementName
- LOOP_COLLECTION_NOT_FOUND - Errors with this extended error code have the following properties: elementName
- LOOP_COLLECTION_NOT_SUPPORTED_FOR_FIELD - Errors with this extended error code have the following properties: fieldName
- LOOP_MISSING_COLLECTION - Errors with this extended error code have the following properties:

- OBJECTTYPE_INVALID - Errors with this extended error code have the following properties: objectType
- OBJECT_CANNOT_BE_CREATED - Errors with this extended error code have the following properties: objectName
- OBJECT_CANNOT_BE_DELETED - Errors with this extended error code have the following properties: objectName
- OBJECT_CANNOT_BE_QUERIED - Errors with this extended error code have the following properties: objectName
- OBJECT_CANNOT_BE_UPDATED - Errors with this extended error code have the following properties: objectName
- OBJECT_ENCRYPTED_FIELDS_NOT_SUPPORTED - Errors with this extended error code have the following properties: fieldName
- OBJECT_NOT_FOUND - Errors with this extended error code have the following properties: objectName
- OUTPUTPARAM_ASSIGNTOREFERENCE_NOTFOUND - Errors with this extended error code have the following properties: parameterName
- OUTPUTPARAM_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: parameterName
- OUTPUTPARAM_MISMATCHED_OBJECTTYPE - Errors with this extended error code have the following properties: parameterName
- OUTPUTPARAM_MISMATCHED_WITH_COLLECTION_VARIABLE - Errors with this extended error code have the following properties: parameterName
- OUTPUTPARAM_MISSING_ASSIGNTOREFERENCE - Errors with this extended error code have the following properties: parameterName
- OUTPUTPARAM_MISMATCHED_WITH_NONCOLLECTION_VARIABLE - Errors with this extended error code have the following properties: parameterName
- PARAM_DATATYPE_NOT_SUPPORTED - Errors with this extended error code have the following properties: parameterName
- PROCESSMETADATAVALUES_NOT_SUPPORTED_FOR_PROCESSTYPE - Errors with this extended error code have the following properties: processType, metadataValue
- PROCESSMETADATAVALUE_NONEXISTENT_ELEMENT - Errors with this extended error code have the following properties: metadataValue
- PROCESSTYPE_ELEMENT_NOT_SUPPORTED - Errors with this extended error code have the following properties: processType, elementType
- PROCESSTYPE_NOT_SUPPORTED - Errors with this extended error code have the following properties: processType
- RECORDFILTER_ENCRYPTED_FIELDS_NOT_SUPPORTED - Errors with this extended error code have the following properties: fieldName
- RECORDFILTER_GEOLOCATION_FIELDS_NOT_SUPPORTED - Errors with this extended error code have the following properties: fieldName, objectName
- RECORDFILTER_INVALID_DATATYPE - Errors with this extended error code have the following properties: fieldName, elementName, elementType, operatorName
- RECORDFILTER_INVALID_ELEMENT - Errors with this extended error code have the following properties: fieldName, assignmentName, elementName, elementType
- RECORDFILTER_INVALID_OPERATOR - Errors with this extended error code have the following properties: fieldName, operatorName
- RECORDFILTER_INVALID_REFERENCE - Errors with this extended error code have the following properties: fieldName, operatorName

- RECORDFILTER_MISSING_DATATYPE - Errors with this extended error code have the following properties: fieldName, elementName, elementType, operatorName
- RECORDFILTER_MULTIPLE_QUERIES_SAME_FIELD - Errors with this extended error code have the following properties: fieldName
- RECORDLOOKUP_IDASSIGNMENT_VARIABLE_INCOMPATIBLE_DATATYPE - Errors with this extended error code have the following properties: elementName
- RECORDLOOKUP_IDASSIGNMENT_VARIABLE_NOT_FOUND - Errors with this extended error code have the following properties: elementName
- RECORDUPDATE_MISSING_FILTERS - Errors with this extended error code have the following properties: objectName
- REFERENCED_ELEMENT_NOT_FOUND - Errors with this extended error code have the following properties: elementName, mergeFieldReference
- RULE_MISSING_CONDITION - Errors with this extended error code have the following properties: elementName, ruleName
- SCREENFIELD_BOOLEAN_ISREQUIRED_IS_FALSE - Errors with this extended error code have the following properties: fieldName
- SCREENFIELD_DEFAULTVALUE_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName
- SCREENFIELD_EXTENSION_COMPONENT_NOT_GLOBAL - Errors with this extended error code have the following properties: elementName
- SCREENFIELD_EXTENSION_DUPLICATE_INPUT_PARAM - Errors with this extended error code have the following properties: elementName, extensionName, parameterName
- SCREENFIELD_EXTENSION_DUPLICATE_OUTPUT_PARAM - Errors with this extended error code have the following properties: elementName, extensionName, parameterName
- SCREENFIELD_EXTENSION_IMPLEMENTATION_INVALID - Errors with this extended error code have the following properties: elementName, extensionName
- SCREENFIELD_EXTENSION_INPUT_ATTRIBUTE_INVALID - Errors with this extended error code have the following properties: elementName, extensionName, parameterName
- SCREENFIELD_EXTENSION_NAME_INVALID - Errors with this extended error code have the following properties: elementName, extensionName
- SCREENFIELD_EXTENSION_NAME_MISSING - Errors with this extended error code have the following properties: elementName, fieldType
- SCREENFIELD_EXTENSION_NAME_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName, fieldType
- SCREENFIELD_EXTENSION_OUTPUT_ATTRIBUTE_INVALID - Errors with this extended error code have the following properties: elementName, extensionName, parameterName
- SCREENFIELD_EXTENSION_REQUIRED_INPUT_MISSING - Errors with this extended error code have the following properties: elementName, extensionName, parameterName
- SCREENFIELD_INPUTS_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName, fieldType
- SCREENFIELD_INVALID_DATATYPE - Errors with this extended error code have the following properties: dataType, fieldType
- SCREENFIELD_MULTISELECTCHOICE_SEMICOLON_NOT_SUPPORTED - Errors with this extended error code have the following properties: choiceName

- SCREENFIELD_OUTPUTS_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName, fieldType
- SCREENFIELD_TYPE_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName, fieldType
- SCREENFIELD_USERINPUT_NOT_SUPPORTED_FOR_CHOICETYPE - Errors with this extended error code have the following properties: choiceName
- SCREENFIELD_VALIDATIONRULE_NOT_SUPPORTED - Errors with this extended error code have the following properties: elementName
- SCREENRULE_ACTION_INVALID_ATTRIBUTE - Errors with this extended error code have the following properties: screenRuleName, attributeName
- SCREENRULE_ACTION_INVALID_ATTRIBUTE_FOR_API_VERSION - Errors with this extended error code have the following properties: screenRuleName, attributeName
- SCREENRULE_ACTION_INVALID_VALUE - Errors with this extended error code have the following properties: screenRuleName, acceptedValues, actionValue
- SCREENRULE_ACTION_MISSING_ATTRIBUTE - Errors with this extended error code have the following properties: screenRuleName
- SCREENRULE_ACTION_MISSING_FIELDREFERENCE - Errors with this extended error code have the following properties: screenRuleName
- SCREENRULE_ACTION_MISSING_VALUE - Errors with this extended error code have the following properties: screenRuleName
- SCREENRULE_ATTRIBUTE_NOT_SUPPORTED_FOR_SCREENFIELD - Errors with this extended error code have the following properties: screenRuleName, attributeName, fieldName
- SCREENRULE_FIELD_NOT_FOUND_ON_SCREEN - Errors with this extended error code have the following properties: screenRuleName, fieldValue
- SCREENRULE_MISSING_ACTION - Errors with this extended error code have the following properties: screenRuleName
- SCREENRULE_NOT_SUPPORTED_IN_ORG - Errors with this extended error code have the following properties:
- SCREENRULE_SCREENFIELD_NOT_VISIBLE - Errors with this extended error code have the following properties: fieldName
- SCREENRULE_VISIBILITY_NOT_SUPPORTED_IN_ORG - Errors with this extended error code have the following properties:
- SCREEN_ALLOWBACK_ALLOWFINISH_BOTH_FALSE - Errors with this extended error code have the following properties:
- SCREEN_CONTAINS_LIGHTNING_COMPONENT - Errors with this extended error code have the following properties: elementName
- SCREEN_MISSING_FOOTER_AND_LIGHTNING_COMPONENT - Errors with this extended error code have the following properties:
- SCREEN_MISSING_LABEL - Errors with this extended error code have the following properties: characterLimit
- SCREEN_MULTISELECTFIELD_DOESNT_SUPPORT_CHOICE_WITH_USERINPUT - Errors with this extended error code have the following properties: choiceName
- SCREEN_PAUSEDTEXT_NOT_SHOWN_WHEN_ALLOWPAUSE_IS_FALSE - Errors with this extended error code have the following properties: fieldName
- SETTING_FIELD_MAKES_OTHER_FIELD_REQUIRED - Errors with this extended error code have the following properties: fieldName, requiredField
- SETTING_FIELD_MAKES_OTHER_FIELD_UNSUPPORTED - Errors with this extended error code have the following properties: fieldName, otherFieldName

- `OBJECT_ELEMENT_INCOMPATIBLE_DATATYPE` - Errors with this extended error code have the following properties: `fieldName`, `fieldValue`
- `OBJECT_ELEMENT_MISMATCHED_OBJECTTYPE` - Errors with this extended error code have the following properties: `objectType`, `objectName`
- `SORT_ENCRYPTED_FIELDS_NOT_SUPPORTED` - Errors with this extended error code have the following properties: `fieldName`, `objectType`
- `SORT_FIELD_MISSING` - Errors with this extended error code have the following properties: `sortOrder`
- `SORT_FIELD_NOT_SUPPORTED` - Errors with this extended error code have the following properties: `fieldName`, `objectName`
- `SORT_GEOLOCATION_FIELDS_NOT_SUPPORTED` - Errors with this extended error code have the following properties: `fieldName`, `objectName`
- `SORT_LIMIT_INVALID` - Errors with this extended error code have the following properties: `maxLimit`
- `SORT_ORDER_MISSING` - Errors with this extended error code have the following properties: `fieldName`
- `SPECIFIC_FIELD_VALUE_MAKES_OTHER_FIELD_REQUIRED` - Errors with this extended error code have the following properties: `fieldName`, `fieldType`, `requiredField`
- `START_ELEMENT_MISSING` - Errors with this extended error code have the following properties:
- `SUBFLOW_DESKTOP_DESIGNER_FLOWS_NOT_SUPPORTED` - Errors with this extended error code have the following properties: `flowName`
- `SUBFLOW_INPUT_ELEMENT_INCOMPATIBLE_DATATYPES` - Errors with this extended error code have the following properties: `subflowName`, `inputAssignmentNames`
- `SUBFLOW_INPUT_INVALID_VALUE` - Errors with this extended error code have the following properties: `subflowName`, `inputAssignmentNames`
- `SUBFLOW_INPUT_MISMATCHED_COLLECTIONTYPES` - Errors with this extended error code have the following properties: `subflowName`, `inputParameterNames`
- `SUBFLOW_INPUT_MISMATCHED_OBJECTS` - Errors with this extended error code have the following properties: `subflowName`, `inputParameterNames`
- `SUBFLOW_INPUT_MISSING_NAME` - Errors with this extended error code have the following properties: `subflowName`
- `SUBFLOW_INPUT_MULTIPLE_ASSIGNMENTS_TO_ONE_VARIABLE` - Errors with this extended error code have the following properties: `inputVariableName`
- `SUBFLOW_INPUT_REFERENCES_FIELD_ON_SUBJECT_VARIABLE` - Errors with this extended error code have the following properties: `inputVariableName`
- `SUBFLOW_INPUT_VALUE_INCOMPATIBLE_DATATYPES` - Errors with this extended error code have the following properties: `subflowName`, `inputAssignmentNames`
- `SUBFLOW_INPUT_VARIABLE_NOT_FOUND_IN_MASTERFLOW` - Errors with this extended error code have the following properties: `subflowName`, `inputAssignmentNames`
- `SUBFLOW_INPUT_VARIABLE_NOT_FOUND_IN_REFERENCEDFLOW` - Errors with this extended error code have the following properties: `subflowName`, `inputAssignmentNames`
- `SUBFLOW_INPUT_VARIABLE_NO_INPUT_ACCESS` - Errors with this extended error code have the following properties: `subflowName`, `inputAssignmentNames`
- `SUBFLOW_INVALID_NAME` - Errors with this extended error code have the following properties:
- `SUBFLOW_INVALID_REFERENCE` - Errors with this extended error code have the following properties: `flowName`

- SUBFLOW_MASTER_FLOW_TYPE_NOT_AUTOLAUNCHED - Errors with this extended error code have the following properties: parentFlowName
- SUBFLOW_MISSING_NAME - Errors with this extended error code have the following properties:
- SUBFLOW_NO_ACTIVE_VERSION - Errors with this extended error code have the following properties: subflowName, flowName
- SUBFLOW_OUTPUT_INCOMPATIBLE_DATATYPES - Errors with this extended error code have the following properties: subflowName, flowVersion, outputParameterNames
- SUBFLOW_OUTPUT_MISMATCHED_COLLECTIONTYPES - Errors with this extended error code have the following properties: subflowName, flowVersion, outputParameterNames
- SUBFLOW_OUTPUT_MISMATCHED_OBJECTS - Errors with this extended error code have the following properties: subflowName, flowVersion, outputParameterNames
- SUBFLOW_OUTPUT_MISSING_ASSIGNTOREFERENCE - Errors with this extended error code have the following properties: outputAssignment
- SUBFLOW_OUTPUT_MISSING_NAME - Errors with this extended error code have the following properties: subflowName
- SUBFLOW_OUTPUT_MULTIPLE_ASSIGNMENTS_TO_ONE_VARIABLE - Errors with this extended error code have the following properties: outputVariableName
- SUBFLOW_OUTPUT_REFERENCES_FIELD_ON_SUBJECT_VARIABLE - Errors with this extended error code have the following properties: outputAssignment
- SUBFLOW_OUTPUT_TARGET_DOES_NOT_EXIST_IN_MASTER_FLOW - Errors with this extended error code have the following properties: subflowName, outputAssignmentName
- SUBFLOW_OUTPUT_VARIABLE_NOT_FOUND_IN_MASTERFLOW - Errors with this extended error code have the following properties: subflowName, variableName
- SUBFLOW_OUTPUT_VARIABLE_NOT_FOUND_IN_REFERENCEDFLOW - Errors with this extended error code have the following properties: subflowName, flowVersion, outputParameterNames
- SUBFLOW_OUTPUT_VARIABLE_NO_OUTPUT_ACCESS - Errors with this extended error code have the following properties: subflowName, variableName
- SUBFLOW_REFERENCES_MASTERFLOW - Errors with this extended error code have the following properties:
- SURVEY_CHOICE_NOT_REFERENCED_BY_A_QUESTION - Errors with this extended error code have the following properties: choiceName
- SURVEY_CHOICE_REFERENCED_BY_MULTIPLE_QUESTIONS - Errors with this extended error code have the following properties: choiceName
- SURVEY_INACTIVE_SUBFLOWS - Errors with this extended error code have the following properties: subflowName
- SURVEY_MISSING_QUESTION_OR_SUBFLOW - Errors with this extended error code have the following properties: surveyName
- SURVEY_MISSING_REQUIRED_VARIABLES - Errors with this extended error code have the following properties: surveyName
- SURVEY_NESTED_SUBFLOWS - Errors with this extended error code have the following properties: subflowName
- SURVEY_NONSURVEY_SUBFLOWS - Errors with this extended error code have the following properties: subflowName
- SURVEY_SCREENFIELD_TYPE_NOT_SUPPORTED_FOR_QUESTION - Errors with this extended error code have the following properties: elementName

- SURVEY_START_ELEMENT_INVALID - Errors with this extended error code have the following properties:
- SURVEY_VARIABLE_ACCESS_INVALID - Errors with this extended error code have the following properties: surveyName
- UNEXPECTED_ERROR - Errors with this extended error code have the following properties:
- VALUE_CHAR_LIMIT_EXCEEDED - Errors with this extended error code have the following properties: elementName, characterLimit
- VARIABLE_FIELD_NOT_SUPPORTED_FOR_DATATYPE - Errors with this extended error code have the following properties: fieldName, datatype
- VARIABLE_FIELD_NOT_SUPPORTED_FOR_DATATYPE_AND_COLLECTION - Errors with this extended error code have the following properties: fieldName, datatype
- VARIABLE_FIELD_REQUIRED_FOR_DATATYPE - Errors with this extended error code have the following properties: datatype, fieldName
- VARIABLE_SCALE_EXCEEDS_LIMIT - Errors with this extended error code have the following properties: elementName
- VARIABLE_SCALE_NEGATIVE_INTEGER - Errors with this extended error code have the following properties: elementName
- VARIABLE_SCALE_NULL - Errors with this extended error code have the following properties: elementName
- WAITEVENT_DEFAULT_CONNECTOR_MISSING_LABEL - Errors with this extended error code have the following properties: waitEventName
- WAITEVENT_DUPLICATE_INPUT_PARAM - Errors with this extended error code have the following properties: parameterName
- WAITEVENT_INPUT_NOT_SUPPORTED_FOR_EVENTTYPE - Errors with this extended error code have the following properties: waitEventName, inputParameterName
- WAITEVENT_INPUT_REQUIRES_LITERAL_VALUE - Errors with this extended error code have the following properties: waitEventName, parameterName
- WAITEVENT_INVALID_CONDITION_LOGIC - Errors with this extended error code have the following properties: waitEventName
- WAITEVENT_MISSING - Errors with this extended error code have the following properties:
- WAITEVENT_MISSING_CONNECTOR - Errors with this extended error code have the following properties: waitEventName
- WAITEVENT_MISSING_EVENTTYPE - Errors with this extended error code have the following properties: waitEventName
- WAITEVENT_OBJECT_NOT_SUPPORTED_FOR_EVENTTYPE - Errors with this extended error code have the following properties: waitEventName
- WAITEVENT_OUTPUT_NOT_SUPPORTED_FOR_EVENTTYPE - Errors with this extended error code have the following properties: waitEventName, outputParameter
- WAITEVENT_RELATIVEALARM_INVALID_DATETIME_FIELD - Errors with this extended error code have the following properties: waitEventName, eventParameterName, incompatibleValue
- WAITEVENT_RELATIVEALARM_INVALID_FIELD - Errors with this extended error code have the following properties: waitEventName, eventParameterName, incompatibleValue
- WAITEVENT_RELATIVEALARM_INVALID_OBJECTTYPE - Errors with this extended error code have the following properties: waitEventName, inputParameterName

- WAITEVENT_RELATIVEALARM_INVALID_OFFSETNUMBER - Errors with this extended error code have the following properties: waitEventName, eventParameterName, incompatibleValue
- WAITEVENT_RELATIVEALARM_INVALID_OFFSETUNIT - Errors with this extended error code have the following properties: waitEventName, eventParameterName, incompatibleValue
- WAITEVENT_REQUIRED_INPUT_MISSING - Errors with this extended error code have the following properties: waitEventName, parameterName
- WAITEVENT_TYPE_INVALID_OR_NOT_SUPPORTED - Errors with this extended error code have the following properties: waitEventName
- WORKFLOW_MISSING_PROCESSMETADATAVALUES - Errors with this extended error code have the following properties: flowName
- WORKFLOW_OBJECTTYPE_NOT_FOUND - Errors with this extended error code have the following properties: objectType
- WORKFLOW_OBJECTTYPE_NOT_SUPPORTED - Errors with this extended error code have the following properties: objectType
- WORKFLOW_OBJECTVARIABLE_AND_OLDOBJECTVARIABLE_REFERENCE_SAME_SUBJECT_VARIABLE - Errors with this extended error code have the following properties: objectVariableName, oldObjectVariableName
- WORKFLOW_OBJECTVARIABLE_DOESNT_SUPPORT_INPUT - Errors with this extended error code have the following properties: objectType, objectVariableName
- WORKFLOW_OLDOBJECTVARIABLE_DOESNT_SUPPORT_INPUT - Errors with this extended error code have the following properties: objectType, oldObjectVariableName
- WORKFLOW_PROCESSMETADATAVALUES_MORE_THAN_ONE_NAME - Errors with this extended error code have the following properties: metadataValue
- WORKFLOW_PROCESS_METADATAVALUES_MISSING_NAME - Errors with this extended error code have the following properties: metadataValue
- WORKFLOW_RECURSIVECOUNTVARIABLE_DOESNT_SUPPORT_INPUT - Errors with this extended error code have the following properties: elementName
- WORKFLOW_TRIGGERTYPE_INVALID_VALUE - Errors with this extended error code have the following properties:

ExternalDataSource

[Salesforce Documentation for ExternalDataSource](#)

fullName a character (inherited from Metadata)

authProvider a character

certificate a character

customConfiguration a character

endpoint a character

isWritable a character either 'true' or 'false'

label a character

oauthRefreshToken a character

oauthScope a character

oauthToken a character

password a character

principalType a ExternalPrincipalType - which is a character taking one of the following values:

- Anonymous
- PerUser
- NamedUser

protocol a AuthenticationProtocol - which is a character taking one of the following values:

- NoAuthentication
- Oauth
- Password

repository a character

type a ExternalDataSourceType - which is a character taking one of the following values:

- Datacloud
- Datajourney
- OpenSearch
- Identity
- outgoingemail
- recommendation
- SfdcOrg
- OData
- OData4
- SimpleURL
- Wrapper

username a character

version a character

ExternalServiceRegistration

[Salesforce Documentation for ExternalServiceRegistration](#)

fullName a character (inherited from Metadata)

description a character

label a character

namedCredential a character

schema a character

schemaType a character

schemaUrl a character

status a character

FeedFilterCriterion

[Salesforce Documentation for FeedFilterCriterion](#)

feedItemType a FeedItemType - which is a character taking one of the following values:

- TrackedChange
- UserStatus
- TextPost
- AdvancedTextPost
- LinkPost
- ContentPost
- PollPost

- RypplePost
- ProfileSkillPost
- DashboardComponentSnapshot
- ApprovalPost
- CaseCommentPost
- ReplyPost
- EmailMessageEvent
- CallLogPost
- ChangeStatusPost
- AttachArticleEvent
- MilestoneEvent
- ActivityEvent
- ChatTranscriptPost
- CollaborationGroupCreated
- CollaborationGroupUnarchived
- SocialPost
- QuestionPost
- FacebookPost
- BasicTemplateFeedItem
- CreateRecordEvent
- CanvasPost
- AnnouncementPost

feedItemVisibility a FeedItemVisibility - which is a character taking one of the following values:

- AllUsers
- InternalUsers

relatedObjectType a character

FeedItemSettings

[Salesforce Documentation for FeedItemSettings](#)

characterLimit a integer

collapseThread a character either 'true' or 'false'

displayFormat a FeedItemDisplayFormat - which is a character taking one of the following values:

- Default
- HideBlankLines

feedItemType a FeedItemType - which is a character taking one of the following values:

- TrackedChange
- UserStatus
- TextPost
- AdvancedTextPost
- LinkPost
- ContentPost
- PollPost
- RypplePost
- ProfileSkillPost

- DashboardComponentSnapshot
- ApprovalPost
- CaseCommentPost
- ReplyPost
- EmailMessageEvent
- CallLogPost
- ChangeStatusPost
- AttachArticleEvent
- MilestoneEvent
- ActivityEvent
- ChatTranscriptPost
- CollaborationGroupCreated
- CollaborationGroupUnarchived
- SocialPost
- QuestionPost
- FacebookPost
- BasicTemplateFeedItem
- CreateRecordEvent
- CanvasPost
- AnnouncementPost

FeedLayout

[Salesforce Documentation for FeedLayout](#)

autocollapsePublisher a character either 'true' or 'false'

compactFeed a character either 'true' or 'false'

feedFilterPosition a FeedLayoutFilterPosition - which is a character taking one of the following values:

- CenterDropDown
- LeftFixed
- LeftFloat

feedFilters a FeedLayoutFilter

fullWidthFeed a character either 'true' or 'false'

hideSidebar a character either 'true' or 'false'

highlightExternalFeedItems a character either 'true' or 'false'

leftComponents a FeedLayoutComponent

rightComponents a FeedLayoutComponent

useInlineFiltersInConsole a character either 'true' or 'false'

FeedLayoutComponent

[Salesforce Documentation for FeedLayoutComponent](#)

componentType a FeedLayoutComponentType - which is a character taking one of the following values:

- HelpAndToolLinks
- CustomButtons

- Following
- Followers
- CustomLinks
- Milestones
- Topics
- CaseUnifiedFiles
- Visualforce

height a integer

page a character

FeedLayoutFilter

[Salesforce Documentation for FeedLayoutFilter](#)

feedFilterName a character

feedFilterType a FeedLayoutFilterType - which is a character taking one of the following values:

- AllUpdates
- FeedItemType
- Custom

feedItemType a FeedItemType - which is a character taking one of the following values:

- TrackedChange
- UserStatus
- TextPost
- AdvancedTextPost
- LinkPost
- ContentPost
- PollPost
- RypplePost
- ProfileSkillPost
- DashboardComponentSnapshot
- ApprovalPost
- CaseCommentPost
- ReplyPost
- EmailMessageEvent
- CallLogPost
- ChangeStatusPost
- AttachArticleEvent
- MilestoneEvent
- ActivityEvent
- ChatTranscriptPost
- CollaborationGroupCreated
- CollaborationGroupUnarchived
- SocialPost
- QuestionPost
- FacebookPost
- BasicTemplateFeedItem
- CreateRecordEvent

- CanvasPost
- AnnouncementPost

FieldMapping

[Salesforce Documentation for FieldMapping](#)

SObjectType a character

developerName a character

fieldMappingRows a FieldMappingRow

masterLabel a character

FieldMappingField

[Salesforce Documentation for FieldMappingField](#)

dataServiceField a character

dataServiceObjectName a character

priority a integer

FieldMappingRow

[Salesforce Documentation for FieldMappingRow](#)

SObjectType a character

fieldMappingFields a FieldMappingField

fieldName a character

mappingOperation a MappingOperation - which is a character taking one of the following values:

- Autofill
- Overwrite

FieldOverride

[Salesforce Documentation for FieldOverride](#)

field a character

formula a character

literalValue a character

FieldServiceSettings

[Salesforce Documentation for FieldServiceSettings](#)

fullName a character (inherited from Metadata)

fieldServiceNotificationsOrgPref a character either 'true' or 'false'

fieldServiceOrgPref a character either 'true' or 'false'

serviceAppointmentsDueDateOffsetOrgValue a integer

workOrderLineItemSearchFields a character

workOrderSearchFields a character

FieldSet

[Salesforce Documentation for FieldSet](#)

fullName a character (inherited from Metadata)

availableFields a FieldSetItem

description a character

displayedFields a FieldSetItem

label a character

FieldSetItem

[Salesforce Documentation for FieldSetItem](#)

field a character

isFieldManaged a character either 'true' or 'false'

isRequired a character either 'true' or 'false'

FieldSetTranslation

[Salesforce Documentation for FieldSetTranslation](#)

label a character

name a character

FieldValue

[Salesforce Documentation for FieldValue](#)

name a character

value a character that appears similar to any of the other accepted types (integer, numeric, date, datetime, boolean)

FileProperties

[Salesforce Documentation for FileProperties](#)

createdById a character

createdByName a character

createdDate a character formatted as 'yyyy-mm-ddThh:mm:ssZ'

fileName a character

fullName a character

id a character

lastModifiedById a character

lastModifiedByName a character

lastModifiedDate a character formatted as 'yyyy-mm-ddThh:mm:ssZ'

manageableState a ManageableState - which is a character taking one of the following values:

- released
- deleted
- deprecated
- installed
- beta
- unmanaged

namespacePrefix a character

type a character

FileTypeDispositionAssignmentBean

[Salesforce Documentation for FileTypeDispositionAssignmentBean](#)

behavior a FileDownloadBehavior - which is a character taking one of the following values:

- DOWNLOAD
- EXECUTE_IN_BROWSER
- HYBRID

fileType a FileType - which is a character taking one of the following values:

- UNKNOWN
- PDF
- POWER_POINT
- POWER_POINT_X
- POWER_POINT_M
- POWER_POINT_T
- WORD
- WORD_X
- WORD_M
- WORD_T
- PPS
- PPSX
- EXCEL
- EXCEL_X
- EXCEL_M
- EXCEL_T
- GOOGLE_DOCUMENT
- GOOGLE_PRESENTATION
- GOOGLE_SPREADSHEET
- GOOGLE_DRAWING
- GOOGLE_FORM
- GOOGLE_SCRIPT
- LINK
- SLIDE
- AAC
- ACGI
- AI
- AVI
- BMP
- BOXNOTE
- CSV
- EPS
- EXE
- FLASH
- GIF
- GZIP
- HTM
- HTML

- HTX
- JPEG
- JPE
- PJP
- PJPEG
- JFIF
- JPG
- JS
- MHTM
- MHTML
- MP3
- M4A
- M4V
- MP4
- MPEG
- MPG
- MOV
- MSG
- ODP
- ODS
- ODT
- OGV
- PNG
- PSD
- RTF
- QUIPDOC
- QUIPSHEET
- SHTM
- SHTML
- SNOTE
- STYPI
- SVG
- SVGZ
- TEXT
- THTML
- VISIO
- WMV
- WRF
- XML
- ZIP
- XZIP
- WMA
- XSN
- TRTF
- TXML

- WEBVIEW
- RFC822
- ASF
- DWG
- JAR
- XJS
- OPX
- XPSD
- TIF
- TIFF
- WAV
- CSS
- THUMB720BY480
- THUMB240BY180
- THUMB120BY90
- ALLTHUMBS
- PAGED_FLASH
- PACK
- C
- CPP
- WORDT
- INI
- JAVA
- LOG
- POWER_POINTT
- SQL
- XHTML
- EXCELT

securityRiskFileType a character either 'true' or 'false'

FileUploadAndDownloadSecuritySettings

[Salesforce Documentation for FileUploadAndDownloadSecuritySettings](#)

fullName a character (inherited from Metadata)

dispositions a FileTypeDispositionAssignmentBean

noHtmlUploadAsAttachment a character either 'true' or 'false'

FilterItem

[Salesforce Documentation for FilterItem](#)

field a character

operation a FilterOperation - which is a character taking one of the following values:

- equals
- notEqual
- lessThan
- greaterThan
- lessOrEqual

- greaterOrEqual
- contains
- notContain
- startsWith
- includes
- excludes
- within

value a character

valueField a character

FindSimilarOppFilter

[Salesforce Documentation for FindSimilarOppFilter](#)

similarOpportunitiesDisplayColumns a character

similarOpportunitiesMatchFields a character

FiscalYearSettings

[Salesforce Documentation for FiscalYearSettings](#)

fiscalYearNameBasedOn a character

startMonth a character

FlexiPage

[Salesforce Documentation for FlexiPage](#)

fullName a character (inherited from Metadata)

description a character

flexiPageRegions a FlexiPageRegion

masterLabel a character

parentFlexiPage a character

platformActionlist a PlatformActionList

quickActionList a QuickActionList

subjectType a character

template a FlexiPageTemplateInstance

type a FlexiPageType - which is a character taking one of the following values:

- AppPage
- ObjectPage
- RecordPage
- HomePage
- MailAppAppPage
- CommAppPage
- CommForgotPasswordPage
- CommLoginPage
- CommObjectPage
- CommQuickActionCreatePage
- CommRecordPage
- CommRelatedListPage

- CommSearchResultPage
- CommGlobalSearchResultPage
- CommSelfRegisterPage
- CommThemeLayoutPage
- UtilityBar
- RecordPreview

FlexiPageRegion

[Salesforce Documentation for FlexiPageRegion](#)

appendable a RegionFlagStatus - which is a character taking one of the following values:

- disabled
- enabled

componentInstances a ComponentInstance

mode a FlexiPageRegionMode - which is a character taking one of the following values:

- Append
- Prepend
- Replace

name a character

prependable a RegionFlagStatus - which is a character taking one of the following values:

- disabled
- enabled

replaceable a RegionFlagStatus - which is a character taking one of the following values:

- disabled
- enabled

type a FlexiPageRegionType - which is a character taking one of the following values:

- Region
- Facet

FlexiPageTemplateInstance

[Salesforce Documentation for FlexiPageTemplateInstance](#)

name a character

properties a ComponentInstanceProperty

Flow

[Salesforce Documentation for Flow](#)

fullName a character (inherited from Metadata)

actionCalls a FlowActionCall

apexPluginCalls a FlowApexPluginCall

assignments a FlowAssignment

choices a FlowChoice

constants a FlowConstant

decisions a FlowDecision

description a character

dynamicChoiceSets a FlowDynamicChoiceSet

formulas a FlowFormula

interviewLabel a character

label a character

loops a FlowLoop

processMetadataValues a FlowMetadataValue

processType a FlowProcessType - which is a character taking one of the following values:

- AutoLaunchedFlow
- Flow
- Workflow
- CustomEvent
- InvocableProcess
- LoginFlow
- ActionPlan
- JourneyBuilderIntegration
- UserProvisioningFlow
- Survey
- FieldServiceMobile
- OrchestrationFlow
- FieldServiceWeb
- TransactionSecurityFlow

recordCreates a FlowRecordCreate

recordDeletes a FlowRecordDelete

recordLookups a FlowRecordLookup

recordUpdates a FlowRecordUpdate

screens a FlowScreen

stages a FlowStage

startElementReference a character

steps a FlowStep

subflows a FlowSubflow

textTemplates a FlowTextTemplate

variables a FlowVariable

waits a FlowWait

FlowActionCall

[Salesforce Documentation for FlowActionCall](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

actionName a character

actionType a InvocableActionType - which is a character taking one of the following values:

- apex

- chatterPost
- contentWorkspaceEnableFolders
- emailAlert
- emailSimple
- flow
- metricRefresh
- quickAction
- submit
- thanks
- thunderResponse
- createServiceReport
- deployOrchestration
- createResponseEventAction
- generateWorkOrders
- deactivateSessionPermSet
- activateSessionPermSet
- aggregateValue
- orchestrationTimer
- orchestrationDebugLog
- choosePricebook
- localAction

connector a FlowConnector

faultConnector a FlowConnector

inputParameters a FlowActionCallInputParameter

outputParameters a FlowActionCallOutputParameter

FlowActionCallInputParameter

[Salesforce Documentation for FlowActionCallInputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

name a character

value a FlowElementReferenceOrValue

FlowActionCallOutputParameter

[Salesforce Documentation for FlowActionCallOutputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

name a character

FlowApexPluginCall

[Salesforce Documentation for FlowApexPluginCall](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

apexClass a character

connector a FlowConnector

faultConnector a FlowConnector

inputParameters a FlowApexPluginCallInputParameter

outputParameters a FlowApexPluginCallOutputParameter

FlowApexPluginCallInputParameter

[Salesforce Documentation for FlowApexPluginCallInputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

name a character

value a FlowElementReferenceOrValue

FlowApexPluginCallOutputParameter

[Salesforce Documentation for FlowApexPluginCallOutputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

name a character

FlowAssignment

[Salesforce Documentation for FlowAssignment](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

assignmentItems a FlowAssignmentItem

connector a FlowConnector

FlowAssignmentItem

[Salesforce Documentation for FlowAssignmentItem](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

operator a FlowAssignmentOperator - which is a character taking one of the following values:

- Assign
- Add
- Subtract
- AddItem

value a FlowElementReferenceOrValue

FlowBaseElement

[Salesforce Documentation for FlowBaseElement](#)

processMetadataValues a FlowMetadataValue

FlowCategory

[Salesforce Documentation for FlowCategory](#)

fullName a character (inherited from Metadata)

description a character

flowCategoryItems a FlowCategoryItems

masterLabel a character

FlowCategoryItems

[Salesforce Documentation for FlowCategoryItems](#)

flow a character

FlowChoice

[Salesforce Documentation for FlowChoice](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

choiceText a character

dataType a FlowDataType - which is a character taking one of the following values:

- Currency
- Date
- Number
- String
- Boolean
- SObject
- DateTime
- Picklist
- Multipicklist

userInput a FlowChoiceUserInput

value a FlowElementReferenceOrValue

FlowChoiceTranslation

[Salesforce Documentation for FlowChoiceTranslation](#)

choiceText a character

name a character

userInput a FlowChoiceUserInputTranslation

FlowChoiceUserInput

[Salesforce Documentation for FlowChoiceUserInput](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

isRequired a character either 'true' or 'false'

promptText a character

validationRule a FlowInputValidationRule

FlowChoiceUserInputTranslation

[Salesforce Documentation for FlowChoiceUserInputTranslation](#)

promptText a character

validationRule a FlowInputValidationRuleTranslation

FlowCondition

[Salesforce Documentation for FlowCondition](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

leftValueReference a character

operator a FlowComparisonOperator - which is a character taking one of the following values:

- EqualTo
- NotEqualTo
- GreaterThan
- LessThan
- GreaterThanOrEqualTo
- LessThanOrEqualTo
- StartsWith
- EndsWith
- Contains
- IsNull
- WasSet
- WasSelected
- WasVisited

rightValue a FlowElementReferenceOrValue

FlowConnector

[Salesforce Documentation for FlowConnector](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

targetReference a character

FlowConstant

[Salesforce Documentation for FlowConstant](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

dataType a FlowDataType - which is a character taking one of the following values:

- Currency
- Date
- Number
- String
- Boolean
- SObject
- DateTime
- Picklist
- Multipicklist

value a FlowElementReferenceOrValue

FlowDecision

[Salesforce Documentation for FlowDecision](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

defaultConnector a FlowConnector

defaultConnectorLabel a character

rules a FlowRule

FlowDefinition

[Salesforce Documentation for FlowDefinition](#)

fullName a character (inherited from Metadata)

activeVersionNumber a integer

description a character

masterLabel a character

FlowDefinitionTranslation

[Salesforce Documentation for FlowDefinitionTranslation](#)

flows a FlowTranslation

fullName a character

label a character

FlowDynamicChoiceSet

[Salesforce Documentation for FlowDynamicChoiceSet](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

dataType a FlowDataType - which is a character taking one of the following values:

- Currency
- Date
- Number
- String
- Boolean
- SObject
- DateTime
- Picklist
- Multipicklist

displayField a character

filters a FlowRecordFilter

limit a integer

object a character

outputAssignments a FlowOutputFieldAssignment

picklistField a character

picklistObject a character

sortField a character

sortOrder a SortOrder - which is a character taking one of the following values:

- Asc

- Desc

valueField a character

FlowElement

[Salesforce Documentation for FlowElement](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

description a character

name a character

FlowElementReferenceOrValue

[Salesforce Documentation for FlowElementReferenceOrValue](#)

booleanValue a character either 'true' or 'false'

dateTimeValue a character formatted as 'yyyy-mm-ddThh:mm:ssZ'

dateValue a character formatted as 'yyyy-mm-dd'

elementReference a character

numberValue a numeric

stringValue a character

FlowFormula

[Salesforce Documentation for FlowFormula](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

dataType a FlowDataType - which is a character taking one of the following values:

- Currency
- Date
- Number
- String
- Boolean
- SObject
- DateTime
- Picklist
- Multipicklist

expression a character

scale a integer

FlowInputFieldAssignment

[Salesforce Documentation for FlowInputFieldAssignment](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

field a character

value a FlowElementReferenceOrValue

FlowInputValidationRule

[Salesforce Documentation for FlowInputValidationRule](#)

errorMessage a character

formulaExpression a character

FlowInputValidationRuleTranslation

[Salesforce Documentation for FlowInputValidationRuleTranslation](#)

errorMessage a character

FlowLoop

[Salesforce Documentation for FlowLoop](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

assignNextValueToReference a character

collectionReference a character

iterationOrder a IterationOrder - which is a character taking one of the following values:

- Asc
- Desc

nextValueConnector a FlowConnector

noMoreValuesConnector a FlowConnector

FlowMetadataValue

[Salesforce Documentation for FlowMetadataValue](#)

name a character

value a FlowElementReferenceOrValue

FlowNode

[Salesforce Documentation for FlowNode](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

label a character

locationX a integer

locationY a integer

FlowOutputFieldAssignment

[Salesforce Documentation for FlowOutputFieldAssignment](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

field a character

FlowRecordCreate

[Salesforce Documentation for FlowRecordCreate](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

assignRecordIdToReference a character
connector a FlowConnector
faultConnector a FlowConnector
inputAssignments a FlowInputFieldAssignment
inputReference a character
object a character

FlowRecordDelete

[Salesforce Documentation for FlowRecordDelete](#)

label a character (inherited from FlowNode)
locationX a integer (inherited from FlowNode)
locationY a integer (inherited from FlowNode)
connector a FlowConnector
faultConnector a FlowConnector
filters a FlowRecordFilter
inputReference a character
object a character

FlowRecordFilter

[Salesforce Documentation for FlowRecordFilter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)
field a character
operator a FlowRecordFilterOperator - which is a character taking one of the following values:

- EqualTo
- NotEqualTo
- GreaterThan
- LessThan
- GreaterThanOrEqualTo
- LessThanOrEqualTo
- StartsWith
- EndsWith
- Contains
- IsNull

value a FlowElementReferenceOrValue

FlowRecordLookup

[Salesforce Documentation for FlowRecordLookup](#)

label a character (inherited from FlowNode)
locationX a integer (inherited from FlowNode)
locationY a integer (inherited from FlowNode)
assignNullValuesIfNoRecordsFound a character either 'true' or 'false'
connector a FlowConnector
faultConnector a FlowConnector

filters a FlowRecordFilter

object a character

outputAssignments a FlowOutputFieldAssignment

outputReference a character

queriedFields a character

sortField a character

sortOrder a SortOrder - which is a character taking one of the following values:

- Asc
- Desc

FlowRecordUpdate

[Salesforce Documentation for FlowRecordUpdate](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

connector a FlowConnector

faultConnector a FlowConnector

filters a FlowRecordFilter

inputAssignments a FlowInputFieldAssignment

inputReference a character

object a character

FlowRule

[Salesforce Documentation for FlowRule](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

conditionLogic a character

conditions a FlowCondition

connector a FlowConnector

label a character

FlowScreen

[Salesforce Documentation for FlowScreen](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

allowBack a character either 'true' or 'false'

allowFinish a character either 'true' or 'false'

allowPause a character either 'true' or 'false'

connector a FlowConnector

fields a FlowScreenField

helpText a character

pausedText a character

rules a FlowScreenRule

showFooter a character either 'true' or 'false'

showHeader a character either 'true' or 'false'

FlowScreenField

[Salesforce Documentation for FlowScreenField](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

choiceReferences a character

dataType a FlowDataType - which is a character taking one of the following values:

- Currency
- Date
- Number
- String
- Boolean
- SObject
- DateTime
- Picklist
- Multipicklist

defaultSelectedChoiceReference a character

defaultValue a FlowElementReferenceOrValue

extensionName a character

fieldText a character

fieldType a FlowScreenFieldType - which is a character taking one of the following values:

- DisplayText
- InputField
- LargeTextArea
- PasswordField
- RadioButtons
- DropdownBox
- MultiSelectCheckboxes
- MultiSelectPicklist
- ComponentInstance

helpText a character

inputParameters a FlowScreenFieldInputParameter

isRequired a character either 'true' or 'false'

isVisible a character either 'true' or 'false'

outputParameters a FlowScreenFieldOutputParameter

scale a integer

validationRule a FlowInputValidationRule

FlowScreenFieldInputParameter

[Salesforce Documentation for FlowScreenFieldInputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

name a character

value a FlowElementReferenceOrValue

FlowScreenFieldOutputParameter

[Salesforce Documentation for FlowScreenFieldOutputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

name a character

FlowScreenFieldTranslation

[Salesforce Documentation for FlowScreenFieldTranslation](#)

fieldText a character

helpText a character

name a character

validationRule a FlowInputValidationRuleTranslation

FlowScreenRule

[Salesforce Documentation for FlowScreenRule](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

conditionLogic a character

conditions a FlowCondition

label a character

ruleActions a FlowScreenRuleAction

FlowScreenRuleAction

[Salesforce Documentation for FlowScreenRuleAction](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

attribute a character

fieldReference a character

value a FlowElementReferenceOrValue

FlowScreenTranslation

[Salesforce Documentation for FlowScreenTranslation](#)

fields a FlowScreenFieldTranslation

helpText a character

name a character

pausedText a character

FlowStage

[Salesforce Documentation for FlowStage](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

isActive a character either 'true' or 'false'

label a character

stageOrder a integer

FlowStep

[Salesforce Documentation for FlowStep](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

connectors a FlowConnector

FlowSubflow

[Salesforce Documentation for FlowSubflow](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

connector a FlowConnector

flowName a character

inputAssignments a FlowSubflowInputAssignment

outputAssignments a FlowSubflowOutputAssignment

FlowSubflowInputAssignment

[Salesforce Documentation for FlowSubflowInputAssignment](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

name a character

value a FlowElementReferenceOrValue

FlowSubflowOutputAssignment

[Salesforce Documentation for FlowSubflowOutputAssignment](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

name a character

FlowTextTemplate

[Salesforce Documentation for FlowTextTemplate](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

text a character

FlowTranslation

[Salesforce Documentation for FlowTranslation](#)

choices a FlowChoiceTranslation

fullName a character

label a character

screens a FlowScreenTranslation

FlowVariable

[Salesforce Documentation for FlowVariable](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

dataType a FlowDataType - which is a character taking one of the following values:

- Currency
- Date
- Number
- String
- Boolean
- SObject
- DateTime
- Picklist
- Multipicklist

isCollection a character either 'true' or 'false'

isInput a character either 'true' or 'false'

isOutput a character either 'true' or 'false'

objectType a character

scale a integer

value a FlowElementReferenceOrValue

FlowWait

[Salesforce Documentation for FlowWait](#)

label a character (inherited from FlowNode)

locationX a integer (inherited from FlowNode)

locationY a integer (inherited from FlowNode)

defaultConnector a FlowConnector

defaultConnectorLabel a character

faultConnector a FlowConnector

waitEvents a FlowWaitEvent

FlowWaitEvent

[Salesforce Documentation for FlowWaitEvent](#)

description a character (inherited from FlowElement)

name a character (inherited from FlowElement)

conditionLogic a character

conditions a FlowCondition

connector a FlowConnector

eventType a character

inputParameters a FlowWaitEventInputParameter

label a character

outputParameters a FlowWaitEventOutputParameter

FlowWaitEventInputParameter

[Salesforce Documentation for FlowWaitEventInputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

name a character

value a FlowElementReferenceOrValue

FlowWaitEventOutputParameter

[Salesforce Documentation for FlowWaitEventOutputParameter](#)

processMetadataValues a FlowMetadataValue (inherited from FlowBaseElement)

assignToReference a character

name a character

Folder

[Salesforce Documentation for Folder](#)

fullName a character (inherited from Metadata)

accessType a FolderAccessTypes - which is a character taking one of the following values:

- Shared
- Public
- Hidden
- PublicInternal

folderShares a FolderShare

name a character

publicFolderAccess a PublicFolderAccess - which is a character taking one of the following values:

- ReadOnly
- ReadWrite

sharedTo a SharedTo

FolderShare

[Salesforce Documentation for FolderShare](#)

accessLevel a FolderShareAccessLevel - which is a character taking one of the following values:

- View
- EditAllContents
- Manage

sharedTo a character

sharedToType a FolderSharedToType - which is a character taking one of the following values:

- Group
- Role
- RoleAndSubordinates
- RoleAndSubordinatesInternal
- Manager

- ManagerAndSubordinatesInternal
- Organization
- Territory
- TerritoryAndSubordinates
- AllPrmUsers
- User
- PartnerUser
- AllCspUsers
- CustomerPortalUser
- PortalRole
- PortalRoleAndSubordinates
- ChannelProgramGroup

ForecastingCategoryMapping

[Salesforce Documentation for ForecastingCategoryMapping](#)

forecastingItemCategoryApiName a character

weightedSourceCategories a WeightedSourceCategory

ForecastingDisplayedFamilySettings

[Salesforce Documentation for ForecastingDisplayedFamilySettings](#)

productFamily a character

ForecastingSettings

[Salesforce Documentation for ForecastingSettings](#)

fullName a character (inherited from Metadata)

displayCurrency a DisplayCurrency - which is a character taking one of the following values:

- CORPORATE
- PERSONAL

enableForecasts a character either 'true' or 'false'

forecastingCategoryMappings a ForecastingCategoryMapping

forecastingDisplayedFamilySettings a ForecastingDisplayedFamilySettings

forecastingTypeSettings a ForecastingTypeSettings

ForecastingTypeSettings

[Salesforce Documentation for ForecastingTypeSettings](#)

active a character either 'true' or 'false'

adjustmentsSettings a AdjustmentsSettings

displayedCategoryApiNames a character

forecastRangeSettings a ForecastRangeSettings

forecastedCategoryApiNames a character

forecastingDateType a ForecastingDateType - which is a character taking one of the following values:

- OpportunityCloseDate
- ProductDate

- ScheduleDate

hasProductFamily a character either 'true' or 'false'

isAmount a character either 'true' or 'false'

isAvailable a character either 'true' or 'false'

isQuantity a character either 'true' or 'false'

managerAdjustableCategoryApiNames a character

masterLabel a character

name a character

opportunityListFieldsLabelMappings a OpportunityListFieldsLabelMapping

opportunityListFieldsSelectedSettings a OpportunityListFieldsSelectedSettings

opportunityListFieldsUnselectedSettings a OpportunityListFieldsUnselectedSettings

opportunitySplitName a character

ownerAdjustableCategoryApiNames a character

quotasSettings a QuotasSettings

territory2ModelName a character

ForecastRangeSettings

[Salesforce Documentation for ForecastRangeSettings](#)

beginning a integer

displaying a integer

periodType a PeriodTypes - which is a character taking one of the following values:

- Month
- Quarter
- Week
- Year

GlobalPicklistValue

[Salesforce Documentation for GlobalPicklistValue](#)

fullName a character (inherited from Metadata)

color a character

default a character either 'true' or 'false'

description a character

isActive a character either 'true' or 'false'

GlobalQuickActionTranslation

[Salesforce Documentation for GlobalQuickActionTranslation](#)

label a character

name a character

GlobalValueSet

[Salesforce Documentation for GlobalValueSet](#)

fullName a character (inherited from Metadata)

customValue a CustomValue

description a character
masterLabel a character
sorted a character either 'true' or 'false'

GlobalValueSetTranslation

[Salesforce Documentation for GlobalValueSetTranslation](#)

fullName a character (inherited from Metadata)
valueTranslation a ValueTranslation

Group

[Salesforce Documentation for Group](#)

fullName a character (inherited from Metadata)
doesIncludeBosses a character either 'true' or 'false'
name a character

HistoryRetentionPolicy

[Salesforce Documentation for HistoryRetentionPolicy](#)

archiveAfterMonths a integer
archiveRetentionYears a integer
description a character

Holiday

[Salesforce Documentation for Holiday](#)

activityDate a character formatted as 'yyyy-mm-dd'
businessHours a character
description a character
endTime a character formatted as 'hh:mm:ssZ'
isRecurring a character either 'true' or 'false'
name a character
recurrenceDayOfMonth a integer
recurrenceDayOfWeek a character
recurrenceDayOfWeekMask a integer
recurrenceEndDate a character formatted as 'yyyy-mm-dd'
recurrenceInstance a character
recurrenceInterval a integer
recurrenceMonthOfYear a character
recurrenceStartDate a character formatted as 'yyyy-mm-dd'
recurrenceType a character
startTime a character formatted as 'hh:mm:ssZ'

HomePageComponent

[Salesforce Documentation for HomePageComponent](#)

fullName a character (inherited from Metadata)

body a character

height a integer

links a character

page a character

pageComponentType a PageComponentType - which is a character taking one of the following values:

- links
- htmlArea
- imageOrNote
- visualforcePage

showLabel a character either 'true' or 'false'

showScrollbars a character either 'true' or 'false'

width a PageComponentWidth - which is a character taking one of the following values:

- narrow
- wide

HomePageLayout

[Salesforce Documentation for HomePageLayout](#)

fullName a character (inherited from Metadata)

narrowComponents a character

wideComponents a character

IdeaReputationLevel

[Salesforce Documentation for IdeaReputationLevel](#)

name a character

value a integer

IdeasSettings

[Salesforce Documentation for IdeasSettings](#)

fullName a character (inherited from Metadata)

enableChatterProfile a character either 'true' or 'false'

enableIdeaThemes a character either 'true' or 'false'

enableIdeas a character either 'true' or 'false'

enableIdeasReputation a character either 'true' or 'false'

halfLife a numeric

ideasProfilePage a character

Index

[Salesforce Documentation for Index](#)

fullName a character (inherited from Metadata)

fields a IndexField

label a character

IndexField

[Salesforce Documentation for IndexField](#)

name a character

sortDirection a character

InsightType

[Salesforce Documentation for InsightType](#)

fullName a character (inherited from Metadata)

defaultTrendType a InsightTrendType - which is a character taking one of the following values:

- Positive
- Negative
- Informational
- Suggestion

description a character

isProtected a character either 'true' or 'false'

masterLabel a character

parentType a InsightParentType - which is a character taking one of the following values:

- Opportunity
- Account

title a character

InstalledPackage

[Salesforce Documentation for InstalledPackage](#)

fullName a character (inherited from Metadata)

password a character

versionNumber a character

IntegrationHubSettings

[Salesforce Documentation for IntegrationHubSettings](#)

fullName a character (inherited from Metadata)

canonicalName a character

canonicalNameBindingChar a character

description a character

isEnabled a character either 'true' or 'false'

isProtected a character either 'true' or 'false'

masterLabel a character

setupData a character

setupDefinition a character

setupNamespace a character

setupSimpleName a character

uUID a character

version a character

versionBuild a integer

versionMajor a integer

versionMinor a integer

IntegrationHubSettingsType

[Salesforce Documentation for IntegrationHubSettingsType](#)

fullName a character (inherited from Metadata)

canonicalName a character

canonicalNameBindingChar a character

description a character

isEnabled a character either 'true' or 'false'

isProtected a character either 'true' or 'false'

masterLabel a character

setupNamespace a character

setupSimpleName a character

uUID a character

version a character

versionBuild a integer

versionMajor a integer

versionMinor a integer

IpRange

[Salesforce Documentation for IpRange](#)

description a character

end a character

start a character

KeyboardShortcuts

[Salesforce Documentation for KeyboardShortcuts](#)

customShortcuts a CustomShortcut

defaultShortcuts a DefaultShortcut

Keyword

[Salesforce Documentation for Keyword](#)

keyword a character

KeywordList

[Salesforce Documentation for KeywordList](#)

fullName a character (inherited from Metadata)

description a character

keywords a Keyword

masterLabel a character

KnowledgeAnswerSettings

[Salesforce Documentation for KnowledgeAnswerSettings](#)

assignTo a character

defaultArticleType a character

enableArticleCreation a character either 'true' or 'false'

KnowledgeCaseField

[Salesforce Documentation for KnowledgeCaseField](#)

name a character

KnowledgeCaseFieldsSettings

[Salesforce Documentation for KnowledgeCaseFieldsSettings](#)

field a KnowledgeCaseField

KnowledgeCaseSettings

[Salesforce Documentation for KnowledgeCaseSettings](#)

articlePDFCreationProfile a character

articlePublicSharingCommunities a KnowledgeCommunitiesSettings

articlePublicSharingSites a KnowledgeSitesSettings

articlePublicSharingSitesChatterAnswers a KnowledgeSitesSettings

assignTo a character

customizationClass a character

defaultContributionArticleType a character

editor a KnowledgeCaseEditor - which is a character taking one of the following values:

- simple
- standard

enableArticleCreation a character either 'true' or 'false'

enableArticlePublicSharingSites a character either 'true' or 'false'

enableCaseDataCategoryMapping a character either 'true' or 'false'

useProfileForPDFCreation a character either 'true' or 'false'

KnowledgeCommunitiesSettings

[Salesforce Documentation for KnowledgeCommunitiesSettings](#)

community a character

KnowledgeLanguage

[Salesforce Documentation for KnowledgeLanguage](#)

active a character either 'true' or 'false'

defaultAssignee a character

defaultAssigneeType a KnowledgeLanguageLookupValueType - which is a character taking one of the following values:

- User
- Queue

defaultReviewer a character

defaultReviewerType a KnowledgeLanguageLookupValueType - which is a character taking one of the following values:

- User
- Queue

name a character

KnowledgeLanguageSettings

[Salesforce Documentation for KnowledgeLanguageSettings](#)

language a KnowledgeLanguage

KnowledgeSettings

[Salesforce Documentation for KnowledgeSettings](#)

fullName a character (inherited from Metadata)

answers a KnowledgeAnswerSettings

cases a KnowledgeCaseSettings

defaultLanguage a character

enableChatterQuestionKBDeflection a character either 'true' or 'false'

enableCreateEditOnArticlesTab a character either 'true' or 'false'

enableExternalMediaContent a character either 'true' or 'false'

enableKnowledge a character either 'true' or 'false'

enableLightningKnowledge a character either 'true' or 'false'

languages a KnowledgeLanguageSettings

showArticleSummariesCustomerPortal a character either 'true' or 'false'

showArticleSummariesInternalApp a character either 'true' or 'false'

showArticleSummariesPartnerPortal a character either 'true' or 'false'

showValidationStatusField a character either 'true' or 'false'

suggestedArticles a KnowledgeSuggestedArticlesSettings

KnowledgeSitesSettings

[Salesforce Documentation for KnowledgeSitesSettings](#)

site a character

KnowledgeSuggestedArticlesSettings

[Salesforce Documentation for KnowledgeSuggestedArticlesSettings](#)

caseFields a KnowledgeCaseFieldsSettings

useSuggestedArticlesForCase a character either 'true' or 'false'

workOrderFields a KnowledgeWorkOrderFieldsSettings

workOrderLineItemFields a KnowledgeWorkOrderLineItemFieldsSettings

KnowledgeWorkOrderField

[Salesforce Documentation for KnowledgeWorkOrderField](#)

name a character

KnowledgeWorkOrderFieldsSettings

[Salesforce Documentation for KnowledgeWorkOrderFieldsSettings](#)

field a KnowledgeWorkOrderField

KnowledgeWorkOrderLineItemField

[Salesforce Documentation for KnowledgeWorkOrderLineItemField](#)

name a character

KnowledgeWorkOrderLineItemFieldsSettings

[Salesforce Documentation for KnowledgeWorkOrderLineItemFieldsSettings](#)

field a KnowledgeWorkOrderLineItemField

Layout

[Salesforce Documentation for Layout](#)

fullName a character (inherited from Metadata)

customButtons a character

customConsoleComponents a CustomConsoleComponents

emailDefault a character either 'true' or 'false'

excludeButtons a character

feedLayout a FeedLayout

headers a LayoutHeader - which is a character taking one of the following values:

- PersonalTagging
- PublicTagging

layoutSections a LayoutSection

miniLayout a MiniLayout

multilineLayoutFields a character

platformActionList a PlatformActionList

quickActionList a QuickActionList

relatedContent a RelatedContent

relatedLists a RelatedListItem

relatedObjects a character

runAssignmentRulesDefault a character either 'true' or 'false'

showEmailCheckbox a character either 'true' or 'false'

showHighlightsPanel a character either 'true' or 'false'

showInteractionLogPanel a character either 'true' or 'false'

showKnowledgeComponent a character either 'true' or 'false'

showRunAssignmentRulesCheckbox a character either 'true' or 'false'

showSolutionSection a character either 'true' or 'false'

showSubmitAndAttachButton a character either 'true' or 'false'

summaryLayout a SummaryLayout

LayoutColumn

[Salesforce Documentation for LayoutColumn](#)

layoutItems a LayoutItem

reserved a character

LayoutItem

[Salesforce Documentation for LayoutItem](#)

analyticsCloudComponent a AnalyticsCloudComponentLayoutItem

behavior a UiBehavior - which is a character taking one of the following values:

- Edit
- Required
- Readonly

canvas a character

component a character

customLink a character

emptySpace a character either 'true' or 'false'

field a character

height a integer

page a character

reportChartComponent a ReportChartComponentLayoutItem

scontrol a character

showLabel a character either 'true' or 'false'

showScrollbars a character either 'true' or 'false'

width a character

LayoutSection

[Salesforce Documentation for LayoutSection](#)

customLabel a character either 'true' or 'false'

detailHeading a character either 'true' or 'false'

editHeading a character either 'true' or 'false'

label a character

layoutColumns a LayoutColumn

style a LayoutSectionStyle - which is a character taking one of the following values:

- TwoColumnsTopToBottom
- TwoColumnsLeftToRight
- OneColumn
- CustomLinks

LayoutSectionTranslation

[Salesforce Documentation for LayoutSectionTranslation](#)

label a character

section a character

LayoutTranslation

[Salesforce Documentation for LayoutTranslation](#)

layout a character

layoutType a character

sections a LayoutSectionTranslation

LeadConvertSettings

[Salesforce Documentation for LeadConvertSettings](#)

fullName a character (inherited from Metadata)

allowOwnerChange a character either 'true' or 'false'

objectMapping a ObjectMapping

opportunityCreationOptions a VisibleOrRequired - which is a character taking one of the following values:

- VisibleOptional
- VisibleRequired
- NotVisible

Letterhead

[Salesforce Documentation for Letterhead](#)

fullName a character (inherited from Metadata)

available a character either 'true' or 'false'

backgroundColor a character

bodyColor a character

bottomLine a LetterheadLine

description a character

footer a LetterheadHeaderFooter

header a LetterheadHeaderFooter

middleLine a LetterheadLine

name a character

topLine a LetterheadLine

LetterheadHeaderFooter

[Salesforce Documentation for LetterheadHeaderFooter](#)

backgroundColor a character

height a integer

horizontalAlignment a LetterheadHorizontalAlignment - which is a character taking one of the following values:

- None
- Left
- Center
- Right

logo a character

verticalAlignment a LetterheadVerticalAlignment - which is a character taking one of the following values:

- None

- Top
- Middle
- Bottom

LetterheadLine

[Salesforce Documentation for LetterheadLine](#)

color a character

height a integer

LicensedCustomPermissions

[Salesforce Documentation for LicensedCustomPermissions](#)

customPermission a character

licenseDefinition a character

LicenseDefinition

[Salesforce Documentation for LicenseDefinition](#)

fullName a character (inherited from Metadata)

aggregationGroup a character

description a character

isPublished a character either 'true' or 'false'

label a character

licensedCustomPermissions a LicensedCustomPermissions

licensingAuthority a character

licensingAuthorityProvider a character

minPlatformVersion a integer

origin a character

revision a integer

trialLicenseDuration a integer

trialLicenseQuantity a integer

LightningBolt

[Salesforce Documentation for LightningBolt](#)

fullName a character (inherited from Metadata)

category a LightningBoltCategory - which is a character taking one of the following values:

- IT
- Marketing
- Sales
- Service

lightningBoltFeatures a LightningBoltFeatures

lightningBoltImages a LightningBoltImages

lightningBoltItems a LightningBoltItems

masterLabel a character

publisher a character

summary a character

LightningBoltFeatures

[Salesforce Documentation for LightningBoltFeatures](#)

description a character

order a integer

title a character

LightningBoltImages

[Salesforce Documentation for LightningBoltImages](#)

image a character

order a integer

LightningBoltItems

[Salesforce Documentation for LightningBoltItems](#)

name a character

type a character

LightningComponentBundle

[Salesforce Documentation for LightningComponentBundle](#)

fullName a character (inherited from Metadata)

apiVersion a numeric

isExposed a character either 'true' or 'false'

LightningExperienceTheme

[Salesforce Documentation for LightningExperienceTheme](#)

fullName a character (inherited from Metadata)

defaultBrandingSet a character

description a character

masterLabel a character

shouldOverrideLoadingImage a character either 'true' or 'false'

ListMetadataQuery

[Salesforce Documentation for ListMetadataQuery](#)

folder a character

type a character

ListPlacement

[Salesforce Documentation for ListPlacement](#)

height a integer

location a character

units a character

width a integer

ListView

[Salesforce Documentation for ListView](#)

fullName a character (inherited from Metadata)

booleanFilter a character

columns a character

division a character

filterScope a FilterScope - which is a character taking one of the following values:

- Everything
- Mine
- Queue
- Delegated
- MyTerritory
- MyTeamTerritory
- Team
- AssignedToMe

filters a ListViewFilter

label a character

language a Language - which is a character taking one of the following values:

- en_US
- de
- es
- fr
- it
- ja
- sv
- ko
- zh_TW
- zh_CN
- pt_BR
- nl_NL
- da
- th
- fi
- ru
- es_MX
- no
- hu
- pl
- cs
- tr
- in
- ro
- vi
- uk

- iw
- el
- bg
- en_GB
- ar
- sk
- pt_PT
- hr
- sl
- fr_CA
- ka
- sr
- sh
- en_AU
- en_MY
- en_IN
- en_PH
- en_CA
- ro_MD
- bs
- mk
- lv
- lt
- et
- sq
- sh_ME
- mt
- ga
- eu
- cy
- is
- ms
- tl
- lb
- rm
- hy
- hi
- ur
- bn
- de_AT
- de_CH
- ta
- ar_DZ
- ar_BH
- ar_EG

- ar_IQ
- ar_JO
- ar_KW
- ar_LB
- ar_LY
- ar_MA
- ar_OM
- ar_QA
- ar_SA
- ar_SD
- ar_SY
- ar_TN
- ar_AE
- ar_YE
- zh_SG
- zh_HK
- en_HK
- en_IE
- en_SG
- en_ZA
- fr_BE
- fr_LU
- fr_CH
- de_BE
- de_LU
- it_CH
- nl_BE
- es_AR
- es_BO
- es_CL
- es_CO
- es_CR
- es_DO
- es_EC
- es_SV
- es_GT
- es_HN
- es_NI
- es_PA
- es_PY
- es_PE
- es_PR
- es_US
- es_UY
- es_VE

- ca
- eo
- iw_EO

queue a character

sharedTo a SharedTo

ListViewFilter

[Salesforce Documentation for ListViewFilter](#)

field a character

operation a FilterOperation - which is a character taking one of the following values:

- equals
- notEqual
- lessThan
- greaterThan
- lessOrEqual
- greaterOrEqual
- contains
- notContain
- startsWith
- includes
- excludes
- within

value a character

LiveAgentConfig

[Salesforce Documentation for LiveAgentConfig](#)

enableLiveChat a character either 'true' or 'false'

openNewAccountSubtab a character either 'true' or 'false'

openNewCaseSubtab a character either 'true' or 'false'

openNewContactSubtab a character either 'true' or 'false'

openNewLeadSubtab a character either 'true' or 'false'

openNewVFPagesubtab a character either 'true' or 'false'

pageNamesToOpen a character

showKnowledgeArticles a character either 'true' or 'false'

LiveAgentSettings

[Salesforce Documentation for LiveAgentSettings](#)

fullName a character (inherited from Metadata)

enableLiveAgent a character either 'true' or 'false'

LiveChatAgentConfig

[Salesforce Documentation for LiveChatAgentConfig](#)

fullName a character (inherited from Metadata)

assignments a AgentConfigAssignments

autoGreeting a character
capacity a integer
criticalWaitTime a integer
customAgentName a character
enableAgentFileTransfer a character either 'true' or 'false'
enableAgentSneakPeek a character either 'true' or 'false'
enableAssistanceFlag a character either 'true' or 'false'
enableAutoAwayOnDecline a character either 'true' or 'false'
enableAutoAwayOnPushTimeout a character either 'true' or 'false'
enableChatConferencing a character either 'true' or 'false'
enableChatMonitoring a character either 'true' or 'false'
enableChatTransferToAgent a character either 'true' or 'false'
enableChatTransferToButton a character either 'true' or 'false'
enableChatTransferToSkill a character either 'true' or 'false'
enableLogoutSound a character either 'true' or 'false'
enableNotifications a character either 'true' or 'false'
enableRequestSound a character either 'true' or 'false'
enableSneakPeek a character either 'true' or 'false'
enableVisitorBlocking a character either 'true' or 'false'
enableWhisperMessage a character either 'true' or 'false'
label a character
supervisorDefaultAgentStatusFilter a SupervisorAgentStatusFilter - which is a character taking one of the following values:

- Online
- Away
- Offline

supervisorDefaultButtonFilter a character
supervisorDefaultSkillFilter a character
supervisorSkills a SupervisorAgentConfigSkills
transferableButtons a AgentConfigButtons
transferableSkills a AgentConfigSkills
LiveChatButton
[Salesforce Documentation for LiveChatButton](#)
fullName a character (inherited from Metadata)
animation a LiveChatButtonPresentation - which is a character taking one of the following values:

- Slide
- Fade
- Appear
- Custom

autoGreeting a character
chastitorIdleTimeout a integer

chasitorIdleTimeoutWarning a integer

chatPage a character

customAgentName a character

deployments a LiveChatButtonDeployments

enableQueue a character either 'true' or 'false'

inviteEndPosition a LiveChatButtonInviteEndPosition - which is a character taking one of the following values:

- TopLeft
- Top
- TopRight
- Left
- Center
- Right
- BottomLeft
- Bottom
- BottomRight

inviteImage a character

inviteStartPosition a LiveChatButtonInviteStartPosition - which is a character taking one of the following values:

- TopLeft
- TopLeftTop
- Top
- TopRightTop
- TopRight
- TopRightRight
- Right
- BottomRightRight
- BottomRight
- BottomRightBottom
- Bottom
- BottomLeftBottom
- BottomLeft
- BottomLeftLeft
- Left
- TopLeftLeft

isActive a character either 'true' or 'false'

label a character

numberOfReroutingAttempts a integer

offlineImage a character

onlineImage a character

optionsCustomRoutingIsEnabled a character either 'true' or 'false'

optionsHasChasitorIdleTimeout a character either 'true' or 'false'

optionsHasInviteAfterAccept a character either 'true' or 'false'

- optionsHasInviteAfterReject** a character either 'true' or 'false'
- optionsHasRerouteDeclinedRequest** a character either 'true' or 'false'
- optionsIsAutoAccept** a character either 'true' or 'false'
- optionsIsInviteAutoRemove** a character either 'true' or 'false'
- overallQueueLength** a integer
- perAgentQueueLength** a integer
- postChatPage** a character
- postChatUrl** a character
- preChatFormPage** a character
- preChatFormUrl** a character
- pushTimeOut** a integer
- routingType** a LiveChatButtonRoutingType - which is a character taking one of the following values:
- Choice
 - LeastActive
 - MostAvailable
- site** a character
- skills** a LiveChatButtonSkills
- timeToRemoveInvite** a integer
- type** a LiveChatButtonType - which is a character taking one of the following values:
- Standard
 - Invite
- windowLanguage** a Language - which is a character taking one of the following values:
- en_US
 - de
 - es
 - fr
 - it
 - ja
 - sv
 - ko
 - zh_TW
 - zh_CN
 - pt_BR
 - nl_NL
 - da
 - th
 - fi
 - ru
 - es_MX
 - no
 - hu
 - pl

- cs
- tr
- in
- ro
- vi
- uk
- iw
- el
- bg
- en_GB
- ar
- sk
- pt_PT
- hr
- sl
- fr_CA
- ka
- sr
- sh
- en_AU
- en_MY
- en_IN
- en_PH
- en_CA
- ro_MD
- bs
- mk
- lv
- lt
- et
- sq
- sh_ME
- mt
- ga
- eu
- cy
- is
- ms
- tl
- lb
- rm
- hy
- hi
- ur
- bn

- de_AT
- de_CH
- ta
- ar_DZ
- ar_BH
- ar_EG
- ar_IQ
- ar_JO
- ar_KW
- ar_LB
- ar_LY
- ar_MA
- ar_OM
- ar_QA
- ar_SA
- ar_SD
- ar_SY
- ar_TN
- ar_AE
- ar_YE
- zh_SG
- zh_HK
- en_HK
- en_IE
- en_SG
- en_ZA
- fr_BE
- fr_LU
- fr_CH
- de_BE
- de_LU
- it_CH
- nl_BE
- es_AR
- es_BO
- es_CL
- es_CO
- es_CR
- es_DO
- es_EC
- es_SV
- es_GT
- es_HN
- es_NI
- es_PA

- es_PY
- es_PE
- es_PR
- es_US
- es_UY
- es_VE
- ca
- eo
- iw_EO

LiveChatButtonDeployments

[Salesforce Documentation for LiveChatButtonDeployments](#)

deployment a character

LiveChatButtonSkills

[Salesforce Documentation for LiveChatButtonSkills](#)

skill a character

LiveChatDeployment

[Salesforce Documentation for LiveChatDeployment](#)

fullName a character (inherited from Metadata)

brandingImage a character

connectionTimeoutDuration a integer

connectionWarningDuration a integer

displayQueuePosition a character either 'true' or 'false'

domainWhiteList a LiveChatDeploymentDomainWhitelist

enablePrechatApi a character either 'true' or 'false'

enableTranscriptSave a character either 'true' or 'false'

label a character

mobileBrandingImage a character

site a character

windowTitle a character

LiveChatDeploymentDomainWhitelist

[Salesforce Documentation for LiveChatDeploymentDomainWhitelist](#)

domain a character

LiveChatSensitiveDataRule

[Salesforce Documentation for LiveChatSensitiveDataRule](#)

fullName a character (inherited from Metadata)

actionType a SensitiveDataActionType - which is a character taking one of the following values:

- Remove
- Replace

description a character

enforceOn a integer

isEnabled a character either 'true' or 'false'

pattern a character

replacement a character

LiveMessageSettings

[Salesforce Documentation for LiveMessageSettings](#)

fullName a character (inherited from Metadata)

enableLiveMessage a character either 'true' or 'false'

LogInfo

[Salesforce Documentation for LogInfo](#)

category a LogCategory - which is a character taking one of the following values:

- Db
- Workflow
- Validation
- Callout
- Apex_code
- Apex_profiling
- Visualforce
- System
- Wave
- All

level a LogCategoryLevel - which is a character taking one of the following values:

- None
- Finest
- Finer
- Fine
- Debug
- Info
- Warn
- Error

LookupFilter

[Salesforce Documentation for LookupFilter](#)

active a character either 'true' or 'false'

booleanFilter a character

description a character

errorMessage a character

filterItems a FilterItem

infoMessage a character

isOptional a character either 'true' or 'false'

LookupFilterTranslation

[Salesforce Documentation for LookupFilterTranslation](#)

errorMessage a character

informationalMessage a character

MacroSettings

[Salesforce Documentation for MacroSettings](#)

fullName a character (inherited from Metadata)

enableAdvancedSearch a character either 'true' or 'false'

ManagedTopic

[Salesforce Documentation for ManagedTopic](#)

fullName a character (inherited from Metadata)

managedTopicType a character

name a character

parentName a character

position a integer

topicDescription a character

ManagedTopics

[Salesforce Documentation for ManagedTopics](#)

fullName a character (inherited from Metadata)

managedTopic a ManagedTopic

MarketingActionSettings

[Salesforce Documentation for MarketingActionSettings](#)

fullName a character (inherited from Metadata)

enableMarketingAction a character either 'true' or 'false'

MarketingResourceType

[Salesforce Documentation for MarketingResourceType](#)

fullName a character (inherited from Metadata)

description a character

masterLabel a character

object a character

provider a character

MatchingRule

[Salesforce Documentation for MatchingRule](#)

fullName a character (inherited from Metadata)

booleanFilter a character

description a character

label a character

matchingRuleItems a MatchingRuleItem

ruleStatus a MatchingRuleStatus - which is a character taking one of the following values:

- Inactive
- DeactivationFailed
- Activating
- Deactivating
- Active
- ActivationFailed

MatchingRuleItem

[Salesforce Documentation for MatchingRuleItem](#)

blankValueBehavior a BlankValueBehavior - which is a character taking one of the following values:

- MatchBlanks
- NullNotAllowed

fieldName a character

matchingMethod a MatchingMethod - which is a character taking one of the following values:

- Exact
- FirstName
- LastName
- CompanyName
- Phone
- City
- Street
- Zip
- Title

MatchingRules

[Salesforce Documentation for MatchingRules](#)

fullName a character (inherited from Metadata)

matchingRules a MatchingRule

Metadata

[Salesforce Documentation for Metadata](#)

fullName a character

MetadataWithContent

[Salesforce Documentation for MetadataWithContent](#)

fullName a character (inherited from Metadata)

content a character formed using RCurl::base64Encode

MilestoneType

[Salesforce Documentation for MilestoneType](#)

fullName a character (inherited from Metadata)

description a character

recurrenceType a MilestoneTypeRecurrenceType - which is a character taking one of the following values:

- none
- recursIndependently
- recursChained

MiniLayout

[Salesforce Documentation for MiniLayout](#)

fields a character

relatedLists a RelatedListItem

MobileSettings

[Salesforce Documentation for MobileSettings](#)

fullName a character (inherited from Metadata)

chatterMobile a ChatterMobileSettings

dashboardMobile a DashboardMobileSettings

salesforceMobile a SFDCMobileSettings

touchMobile a TouchMobileSettings

ModeratedEntityField

[Salesforce Documentation for ModeratedEntityField](#)

entityName a character

fieldName a character

keywordList a character

ModerationRule

[Salesforce Documentation for ModerationRule](#)

fullName a character (inherited from Metadata)

action a ModerationRuleAction - which is a character taking one of the following values:

- Block
- FreezeAndNotify
- Review
- Replace
- Flag

actionLimit a integer

active a character either 'true' or 'false'

description a character

entitiesAndFields a ModeratedEntityField

masterLabel a character

notifyLimit a integer

timePeriod a RateLimitTimePeriod - which is a character taking one of the following values:

- Short
- Medium

type a ModerationRuleType - which is a character taking one of the following values:

- Content

- Rate

userCriteria a character

userMessage a character

NamedCredential

[Salesforce Documentation for NamedCredential](#)

fullName a character (inherited from Metadata)

allowMergeFieldsInBody a character either 'true' or 'false'

allowMergeFieldsInHeader a character either 'true' or 'false'

authProvider a character

certificate a character

endpoint a character

generateAuthorizationHeader a character either 'true' or 'false'

label a character

oauthRefreshToken a character

oauthScope a character

oauthToken a character

password a character

principalType a ExternalPrincipalType - which is a character taking one of the following values:

- Anonymous
- PerUser
- NamedUser

protocol a AuthenticationProtocol - which is a character taking one of the following values:

- NoAuthentication
- Oauth
- Password

username a character

NameSettings

[Salesforce Documentation for NameSettings](#)

fullName a character (inherited from Metadata)

enableMiddleName a character either 'true' or 'false'

enableNameSuffix a character either 'true' or 'false'

NavigationLinkSet

[Salesforce Documentation for NavigationLinkSet](#)

navigationMenuItem a NavigationMenuItem

NavigationMenuItem

[Salesforce Documentation for NavigationMenuItem](#)

defaultListViewId a character

label a character

position a integer

publiclyAvailable a character either 'true' or 'false'

subMenu a NavigationSubMenu

target a character

targetPreference a character

type a character

NavigationSubMenu

[Salesforce Documentation for NavigationSubMenu](#)

navigationMenuItem a NavigationMenuItem

Network

[Salesforce Documentation for Network](#)

fullName a character (inherited from Metadata)

allowInternalUserLogin a character either 'true' or 'false'

allowMembersToFlag a character either 'true' or 'false'

allowedExtensions a character

caseCommentEmailTemplate a character

changePasswordTemplate a character

communityRoles a CommunityRoles

description a character

disableReputationRecordConversations a character either 'true' or 'false'

emailFooterLogo a character

emailFooterText a character

emailSenderAddress a character

emailSenderName a character

enableCustomVFErrorPageOverrides a character either 'true' or 'false'

enableDirectMessages a character either 'true' or 'false'

enableGuestChatter a character either 'true' or 'false'

enableGuestFileAccess a character either 'true' or 'false'

enableInvitation a character either 'true' or 'false'

enableKnowledgeable a character either 'true' or 'false'

enableNicknameDisplay a character either 'true' or 'false'

enablePrivateMessages a character either 'true' or 'false'

enableReputation a character either 'true' or 'false'

enableShowAllNetworkSettings a character either 'true' or 'false'

enableSiteAsContainer a character either 'true' or 'false'

enableTalkingAboutStats a character either 'true' or 'false'

enableTopicAssignmentRules a character either 'true' or 'false'

enableTopicSuggestions a character either 'true' or 'false'

enableUpDownVote a character either 'true' or 'false'

feedChannel a character

forgotPasswordTemplate a character

gatherCustomerSentimentData a character either 'true' or 'false'

logoutUrl a character

maxFileSizeKb a integer

navigationLinkSet a NavigationLinkSet

networkMemberGroups a NetworkMemberGroup

networkPageOverrides a NetworkPageOverride

newSenderAddress a character

picassoSite a character

recommendationAudience a RecommendationAudience

recommendationDefinition a RecommendationDefinition

reputationLevels a ReputationLevelDefinitions

reputationPointsRules a ReputationPointsRules

selfRegProfile a character

selfRegistration a character either 'true' or 'false'

sendWelcomeEmail a character either 'true' or 'false'

site a character

status a NetworkStatus - which is a character taking one of the following values:

- UnderConstruction
- Live
- DownForMaintenance

tabs a NetworkTabSet

urlPathPrefix a character

welcomeTemplate a character

NetworkAccess

[Salesforce Documentation for NetworkAccess](#)

ipRanges a IpRange

NetworkBranding

[Salesforce Documentation for NetworkBranding](#)

content a character formed using RUrl::base64Encode (inherited from MetadataWithContent)

loginFooterText a character

loginLogo a character

loginLogoName a character

loginPrimaryColor a character

loginQuaternaryColor a character

loginRightFrameUrl a character

network a character

pageFooter a character

pageHeader a character

primaryColor a character

primaryComplementColor a character

quaternaryColor a character

quaternaryComplementColor a character

secondaryColor a character

staticLogoImageUrl a character

tertiaryColor a character

tertiaryComplementColor a character

zeronaryColor a character

zeronaryComplementColor a character

NetworkMemberGroup

[Salesforce Documentation for NetworkMemberGroup](#)

permissionSet a character

profile a character

NetworkPageOverride

[Salesforce Documentation for NetworkPageOverride](#)

changePasswordPageOverrideSetting a NetworkPageOverrideSetting - which is a character taking one of the following values:

- Designer
- VisualForce
- Standard

forgotPasswordPageOverrideSetting a NetworkPageOverrideSetting - which is a character taking one of the following values:

- Designer
- VisualForce
- Standard

homePageOverrideSetting a NetworkPageOverrideSetting - which is a character taking one of the following values:

- Designer
- VisualForce
- Standard

loginPageOverrideSetting a NetworkPageOverrideSetting - which is a character taking one of the following values:

- Designer
- VisualForce
- Standard

selfRegProfilePageOverrideSetting a NetworkPageOverrideSetting - which is a character taking one of the following values:

- Designer
- VisualForce
- Standard

NetworkTabSet

[Salesforce Documentation for NetworkTabSet](#)

customTab a character

defaultTab a character

standardTab a character

NextAutomatedApprover

[Salesforce Documentation for NextAutomatedApprover](#)

useApproverFieldOfRecordOwner a character either 'true' or 'false'

userHierarchyField a character

ObjectMapping

[Salesforce Documentation for ObjectMapping](#)

inputObject a character

mappingFields a ObjectMappingField

outputObject a character

ObjectMappingField

[Salesforce Documentation for ObjectMappingField](#)

inputField a character

outputField a character

ObjectNameCaseValue

[Salesforce Documentation for ObjectNameCaseValue](#)

article a Article - which is a character taking one of the following values:

- None
- Indefinite
- Definite

caseType a CaseType - which is a character taking one of the following values:

- Nominative
- Accusative
- Genitive
- Dative
- Inessive
- Elative
- Illative
- Adessive
- Ablative
- Allative
- Essive
- Translative
- Partitive
- Objective
- Subjective

- Instrumental
- Prepositional
- Locative
- Vocative
- Sublative
- Superessive
- Delative
- Causalfinal
- Essiveformal
- Termanative
- Distributive
- Ergative
- Adverbial
- Abessive
- Comitative

plural a character either 'true' or 'false'

possessive a Possessive - which is a character taking one of the following values:

- None
- First
- Second

value a character

ObjectRelationship

[Salesforce Documentation for ObjectRelationship](#)

join a ObjectRelationship

outerJoin a character either 'true' or 'false'

relationship a character

ObjectSearchSetting

[Salesforce Documentation for ObjectSearchSetting](#)

enhancedLookupEnabled a character either 'true' or 'false'

lookupAutoCompleteEnabled a character either 'true' or 'false'

name a character

resultsPerPageCount a integer

ObjectUsage

[Salesforce Documentation for ObjectUsage](#)

object a character

OpportunityListFieldsLabelMapping

[Salesforce Documentation for OpportunityListFieldsLabelMapping](#)

field a character

label a character

OpportunityListFieldsSelectedSettings

[Salesforce Documentation for OpportunityListFieldsSelectedSettings](#)

field a character

OpportunityListFieldsUnselectedSettings

[Salesforce Documentation for OpportunityListFieldsUnselectedSettings](#)

field a character

OpportunitySettings

[Salesforce Documentation for OpportunitySettings](#)

fullName a character (inherited from Metadata)

autoActivateNewReminders a character either 'true' or 'false'

enableFindSimilarOpportunities a character either 'true' or 'false'

enableOpportunityTeam a character either 'true' or 'false'

enableUpdateReminders a character either 'true' or 'false'

findSimilarOppFilter a FindSimilarOppFilter

promptToAddProducts a character either 'true' or 'false'

Orchestration

[Salesforce Documentation for Orchestration](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

context a character

masterLabel a character

OrchestrationContext

[Salesforce Documentation for OrchestrationContext](#)

fullName a character (inherited from Metadata)

description a character

events a OrchestrationContextEvent

masterLabel a character

runtimeType a character

salesforceObject a character

salesforceObjectPrimaryKey a character

OrchestrationContextEvent

[Salesforce Documentation for OrchestrationContextEvent](#)

eventType a character

orchestrationEvent a character

platformEvent a character

platformEventPrimaryKey a character

OrderSettings

[Salesforce Documentation for OrderSettings](#)

fullName a character (inherited from Metadata)

enableNegativeQuantity a character either 'true' or 'false'

enableOrders a character either 'true' or 'false'

enableReductionOrders a character either 'true' or 'false'

enableZeroQuantity a character either 'true' or 'false'

OrganizationSettingsDetail

[Salesforce Documentation for OrganizationSettingsDetail](#)

settingName a character

settingValue a character either 'true' or 'false'

OrgPreferenceSettings

[Salesforce Documentation for OrgPreferenceSettings](#)

fullName a character (inherited from Metadata)

preferences a OrganizationSettingsDetail

Package

[Salesforce Documentation for Package](#)

fullName a character (inherited from Metadata)

apiAccessLevel a APIAccessLevel - which is a character taking one of the following values:

- Unrestricted
- Restricted

description a character

namespacePrefix a character

objectPermissions a ProfileObjectPermissions

packageType a character

postInstallClass a character

setupWeblink a character

types a PackageTypeMembers

uninstallClass a character

version a character

PackageTypeMembers

[Salesforce Documentation for PackageTypeMembers](#)

members a character

name a character

PackageVersion

[Salesforce Documentation for PackageVersion](#)

majorNumber a integer

minorNumber a integer

namespace a character

PasswordPolicies

[Salesforce Documentation for PasswordPolicies](#)

apiOnlyUserHomePageURL a character

complexity a Complexity - which is a character taking one of the following values:

- NoRestriction
- AlphaNumeric
- SpecialCharacters
- UpperLowerCaseNumeric
- UpperLowerCaseNumericSpecialCharacters

expiration a Expiration - which is a character taking one of the following values:

- ThirtyDays
- SixtyDays
- NinetyDays
- SixMonths
- OneYear
- Never

historyRestriction a character

lockoutInterval a LockoutInterval - which is a character taking one of the following values:

- FifteenMinutes
- ThirtyMinutes
- SixtyMinutes
- Forever

maxLoginAttempts a MaxLoginAttempts - which is a character taking one of the following values:

- ThreeAttempts
- FiveAttempts
- TenAttempts
- NoLimit

minimumPasswordLength a character

minimumPasswordLifetime a character either 'true' or 'false'

obscureSecretAnswer a character either 'true' or 'false'

passwordAssistanceMessage a character

passwordAssistanceURL a character

questionRestriction a QuestionRestriction - which is a character taking one of the following values:

- None
- DoesNotContainPassword

PathAssistant

[Salesforce Documentation for PathAssistant](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

entityName a character

fieldName a character

masterLabel a character

pathAssistantSteps a PathAssistantStep

recordTypeName a character

PathAssistantSettings

[Salesforce Documentation for PathAssistantSettings](#)

fullName a character (inherited from Metadata)

pathAssistantEnabled a character either 'true' or 'false'

PathAssistantStep

[Salesforce Documentation for PathAssistantStep](#)

fieldNames a character

info a character

picklistValueName a character

PermissionSet

[Salesforce Documentation for PermissionSet](#)

fullName a character (inherited from Metadata)

applicationVisibilities a PermissionSetApplicationVisibility

classAccesses a PermissionSetApexClassAccess

customPermissions a PermissionSetCustomPermissions

description a character

externalDataSourceAccesses a PermissionSetExternalDataSourceAccess

fieldPermissions a PermissionSetFieldPermissions

hasActivationRequired a character either 'true' or 'false'

label a character

license a character

objectPermissions a PermissionSetObjectPermissions

pageAccesses a PermissionSetApexPageAccess

recordTypeVisibilities a PermissionSetRecordTypeVisibility

tabSettings a PermissionSetTabSetting

userPermissions a PermissionSetUserPermission

PermissionSetApexClassAccess

[Salesforce Documentation for PermissionSetApexClassAccess](#)

apexClass a character

enabled a character either 'true' or 'false'

PermissionSetApexPageAccess

[Salesforce Documentation for PermissionSetApexPageAccess](#)

apexPage a character

enabled a character either 'true' or 'false'

PermissionSetApplicationVisibility

[Salesforce Documentation for PermissionSetApplicationVisibility](#)

application a character

visible a character either 'true' or 'false'

PermissionSetCustomPermissions

[Salesforce Documentation for PermissionSetCustomPermissions](#)

enabled a character either 'true' or 'false'

name a character

PermissionSetExternalDataSourceAccess

[Salesforce Documentation for PermissionSetExternalDataSourceAccess](#)

enabled a character either 'true' or 'false'

externalDataSource a character

PermissionSetFieldPermissions

[Salesforce Documentation for PermissionSetFieldPermissions](#)

editable a character either 'true' or 'false'

field a character

readable a character either 'true' or 'false'

PermissionSetGroup

[Salesforce Documentation for PermissionSetGroup](#)

fullName a character (inherited from Metadata)

description a character

isCalculatingChanges a character either 'true' or 'false'

label a character

permissionSets a character

PermissionSetObjectPermissions

[Salesforce Documentation for PermissionSetObjectPermissions](#)

allowCreate a character either 'true' or 'false'

allowDelete a character either 'true' or 'false'

allowEdit a character either 'true' or 'false'

allowRead a character either 'true' or 'false'

modifyAllRecords a character either 'true' or 'false'

object a character

viewAllRecords a character either 'true' or 'false'

PermissionSetRecordTypeVisibility

[Salesforce Documentation for PermissionSetRecordTypeVisibility](#)

recordType a character

visible a character either 'true' or 'false'

PermissionSetTabSetting

[Salesforce Documentation for PermissionSetTabSetting](#)

tab a character

visibility a PermissionSetTabVisibility - which is a character taking one of the following values:

- None
- Available
- Visible

PermissionSetUserPermission

[Salesforce Documentation for PermissionSetUserPermission](#)

enabled a character either 'true' or 'false'

name a character

PersonalJourneySettings

[Salesforce Documentation for PersonalJourneySettings](#)

fullName a character (inherited from Metadata)

enableExactTargetForSalesforceApps a character either 'true' or 'false'

PersonListSettings

[Salesforce Documentation for PersonListSettings](#)

fullName a character (inherited from Metadata)

enablePersonList a character either 'true' or 'false'

PicklistEntry

[Salesforce Documentation for PicklistEntry](#)

active a character either 'true' or 'false'

defaultValue a character either 'true' or 'false'

label a character

validFor a character

value a character

PicklistValue

[Salesforce Documentation for PicklistValue](#)

color a character (inherited from GlobalPicklistValue)

default a character either 'true' or 'false' (inherited from GlobalPicklistValue)

description a character (inherited from GlobalPicklistValue)

isActive a character either 'true' or 'false' (inherited from GlobalPicklistValue)

allowEmail a character either 'true' or 'false'

closed a character either 'true' or 'false'

controllingFieldValues a character

converted a character either 'true' or 'false'

cssExposed a character either 'true' or 'false'

forecastCategory a ForecastCategories - which is a character taking one of the following values:

- Omitted
- Pipeline
- BestCase
- Forecast
- Closed

highPriority a character either 'true' or 'false'

probability a integer

reverseRole a character

reviewed a character either 'true' or 'false'

won a character either 'true' or 'false'

PicklistValueTranslation

[Salesforce Documentation for PicklistValueTranslation](#)

masterLabel a character

translation a character

PlatformActionList

[Salesforce Documentation for PlatformActionList](#)

fullName a character (inherited from Metadata)

actionListContext a PlatformActionListContext - which is a character taking one of the following values:

- ListView
- RelatedList
- ListViewRecord
- RelatedListRecord
- Record
- FeedElement
- Chatter
- Global
- Flexipage
- MruList
- MruRow
- RecordEdit
- Photo
- BannerPhoto
- ObjectHomeChart
- ListViewDefinition
- Dockable
- Lookup
- Assistant

platformActionListItems a PlatformActionListItem

relatedSourceEntity a character

PlatformActionListItem

[Salesforce Documentation for PlatformActionListItem](#)

actionName a character

actionType a PlatformActionType - which is a character taking one of the following values:

- QuickAction
- StandardButton
- CustomButton
- ProductivityAction
- ActionLink
- InvocableAction

sortOrder a integer

subtype a character

PlatformCachePartition

[Salesforce Documentation for PlatformCachePartition](#)

fullName a character (inherited from Metadata)

description a character

isDefaultPartition a character either 'true' or 'false'

masterLabel a character

platformCachePartitionTypes a PlatformCachePartitionType

PlatformCachePartitionType

[Salesforce Documentation for PlatformCachePartitionType](#)

allocatedCapacity a integer

allocatedPurchasedCapacity a integer

allocatedTrialCapacity a integer

cacheType a PlatformCacheType - which is a character taking one of the following values:

- Session
- Organization

Portal

[Salesforce Documentation for Portal](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

admin a character

defaultLanguage a character

description a character

emailSenderAddress a character

emailSenderName a character

enableSelfCloseCase a character either 'true' or 'false'

footerDocument a character

forgotPassTemplate a character

headerDocument a character

isSelfRegistrationActivated a character either 'true' or 'false'

loginHeaderDocument a character

logoDocument a character

logoutUrl a character

newCommentTemplate a character

newPassTemplate a character

newUserTemplate a character

ownerNotifyTemplate a character

selfRegNewUserUrl a character

selfRegUserDefaultProfile a character

selfRegUserDefaultRole a PortalRoles - which is a character taking one of the following values:

- Executive
- Manager
- Worker
- PersonAccount

selfRegUserTemplate a character

showActionConfirmation a character either 'true' or 'false'

stylesheetDocument a character

type a PortalType - which is a character taking one of the following values:

- CustomerSuccess
- Partner
- Network

PostTemplate

[Salesforce Documentation for PostTemplate](#)

fullName a character (inherited from Metadata)

default a character either 'true' or 'false'

description a character

fields a character

label a character

PrimaryTabComponents

[Salesforce Documentation for PrimaryTabComponents](#)

containers a Container

ProductSettings

[Salesforce Documentation for ProductSettings](#)

fullName a character (inherited from Metadata)

enableCascadeActivateToRelatedPrices a character either 'true' or 'false'

enableQuantitySchedule a character either 'true' or 'false'

enableRevenueSchedule a character either 'true' or 'false'

Profile

[Salesforce Documentation for Profile](#)

fullName a character (inherited from Metadata)
applicationVisibilities a ProfileApplicationVisibility
categoryGroupVisibilities a ProfileCategoryGroupVisibility
classAccesses a ProfileApexClassAccess
custom a character either 'true' or 'false'
customPermissions a ProfileCustomPermissions
description a character
externalDataSourceAccesses a ProfileExternalDataSourceAccess
fieldPermissions a ProfileFieldLevelSecurity
layoutAssignments a ProfileLayoutAssignment
loginHours a ProfileLoginHours
loginIpRanges a ProfileLoginIpRange
objectPermissions a ProfileObjectPermissions
pageAccesses a ProfileApexPageAccess
profileActionOverrides a ProfileActionOverride
recordTypeVisibilities a ProfileRecordTypeVisibility
tabVisibilities a ProfileTabVisibility
userLicense a character
userPermissions a ProfileUserPermission

ProfileActionOverride

[Salesforce Documentation for ProfileActionOverride](#)

actionName a character
content a character
formFactor a FormFactor - which is a character taking one of the following values:

- Small
- Medium
- Large

pageOrSubjectType a character
recordType a character
type a ActionOverrideType - which is a character taking one of the following values:

- Default
- Standard
- Scontrol
- Visualforce
- Flexipage
- LightningComponent

ProfileApexClassAccess

[Salesforce Documentation for ProfileApexClassAccess](#)

apexClass a character
enabled a character either 'true' or 'false'

ProfileApexPageAccess

[Salesforce Documentation for ProfileApexPageAccess](#)

apexPage a character

enabled a character either 'true' or 'false'

ProfileApplicationVisibility

[Salesforce Documentation for ProfileApplicationVisibility](#)

application a character

default a character either 'true' or 'false'

visible a character either 'true' or 'false'

ProfileCategoryGroupVisibility

[Salesforce Documentation for ProfileCategoryGroupVisibility](#)

dataCategories a character

dataCategoryGroup a character

visibility a CategoryGroupVisibility - which is a character taking one of the following values:

- ALL
- NONE
- CUSTOM

ProfileCustomPermissions

[Salesforce Documentation for ProfileCustomPermissions](#)

enabled a character either 'true' or 'false'

name a character

ProfileExternalDataSourceAccess

[Salesforce Documentation for ProfileExternalDataSourceAccess](#)

enabled a character either 'true' or 'false'

externalDataSource a character

ProfileFieldLevelSecurity

[Salesforce Documentation for ProfileFieldLevelSecurity](#)

editable a character either 'true' or 'false'

field a character

readable a character either 'true' or 'false'

ProfileLayoutAssignment

[Salesforce Documentation for ProfileLayoutAssignment](#)

layout a character

recordType a character

ProfileLoginHours

[Salesforce Documentation for ProfileLoginHours](#)

fridayEnd a character

fridayStart a character
mondayEnd a character
mondayStart a character
saturdayEnd a character
saturdayStart a character
sundayEnd a character
sundayStart a character
thursdayEnd a character
thursdayStart a character
tuesdayEnd a character
tuesdayStart a character
wednesdayEnd a character
wednesdayStart a character

ProfileLoginIpRange

[Salesforce Documentation for ProfileLoginIpRange](#)

description a character
endAddress a character
startAddress a character

ProfileObjectPermissions

[Salesforce Documentation for ProfileObjectPermissions](#)

allowCreate a character either 'true' or 'false'
allowDelete a character either 'true' or 'false'
allowEdit a character either 'true' or 'false'
allowRead a character either 'true' or 'false'
modifyAllRecords a character either 'true' or 'false'
object a character
viewAllRecords a character either 'true' or 'false'

ProfilePasswordPolicy

[Salesforce Documentation for ProfilePasswordPolicy](#)

fullName a character (inherited from Metadata)
lockoutInterval a integer
maxLoginAttempts a integer
minimumPasswordLength a integer
minimumPasswordLifetime a character either 'true' or 'false'
obscure a character either 'true' or 'false'
passwordComplexity a integer
passwordExpiration a integer
passwordHistory a integer
passwordQuestion a integer

profile a character

ProfileRecordTypeVisibility

[Salesforce Documentation for ProfileRecordTypeVisibility](#)

default a character either 'true' or 'false'

personAccountDefault a character either 'true' or 'false'

recordType a character

visible a character either 'true' or 'false'

ProfileSessionSetting

[Salesforce Documentation for ProfileSessionSetting](#)

fullName a character (inherited from Metadata)

externalCommunityUserIdentityVerif a character either 'true' or 'false'

forceLogout a character either 'true' or 'false'

profile a character

requiredSessionLevel a SessionSecurityLevel - which is a character taking one of the following values:

- LOW
- STANDARD
- HIGH_ASSURANCE

sessionPersistence a character either 'true' or 'false'

sessionTimeout a integer

sessionTimeoutWarning a character either 'true' or 'false'

ProfileTabVisibility

[Salesforce Documentation for ProfileTabVisibility](#)

tab a character

visibility a TabVisibility - which is a character taking one of the following values:

- Hidden
- DefaultOff
- DefaultOn

ProfileUserPermission

[Salesforce Documentation for ProfileUserPermission](#)

enabled a character either 'true' or 'false'

name a character

PublicGroups

[Salesforce Documentation for PublicGroups](#)

publicGroup a character

PushNotification

[Salesforce Documentation for PushNotification](#)

fieldNames a character

objectName a character

Queue

[Salesforce Documentation for Queue](#)

fullName a character (inherited from Metadata)

doesSendEmailToMembers a character either 'true' or 'false'

email a character

name a character

queueMembers a QueueMembers

queueRoutingConfig a character

queueSubject a QueueSubject

QueueMembers

[Salesforce Documentation for QueueMembers](#)

publicGroups a PublicGroups

roleAndSubordinates a RoleAndSubordinates

roleAndSubordinatesInternal a RoleAndSubordinatesInternal

roles a Roles

users a Users

QueueSubject

[Salesforce Documentation for QueueSubject](#)

subjectType a character

QuickAction

[Salesforce Documentation for QuickAction](#)

fullName a character (inherited from Metadata)

canvas a character

description a character

fieldOverrides a FieldOverride

flowDefinition a character

height a integer

icon a character

isProtected a character either 'true' or 'false'

label a character

lightningComponent a character

optionsCreateFeedItem a character either 'true' or 'false'

page a character

quickActionLayout a QuickActionLayout

quickActionSendEmailOptions a QuickActionSendEmailOptions

standardLabel a QuickActionLabel - which is a character taking one of the following values:

- LogACall

- LogANote
- New
- NewRecordType
- Update
- NewChild
- NewChildRecordType
- CreateNew
- CreateNewRecordType
- SendEmail
- QuickRecordType
- Quick
- EditDescription
- Defer
- ChangeDueDate
- ChangePriority
- ChangeStatus
- SocialPost
- Escalate
- EscalateToRecord
- OfferFeedback
- RequestFeedback
- AddRecord
- AddMember
- Reply
- ReplyAll
- Forward

successMessage a character

targetObject a character

targetParentField a character

targetRecordType a character

type a QuickActionType - which is a character taking one of the following values:

- Create
- VisualforcePage
- Post
- SendEmail
- LogACall
- SocialPost
- Canvas
- Update
- LightningComponent
- Flow

width a integer

QuickActionLayout

[Salesforce Documentation for QuickActionLayout](#)

layoutSectionStyle a LayoutSectionStyle - which is a character taking one of the following values:

- TwoColumnsTopToBottom
- TwoColumnsLeftToRight
- OneColumn
- CustomLinks

quickActionLayoutColumns a QuickActionLayoutColumn

QuickActionLayoutColumn

[Salesforce Documentation for QuickActionLayoutColumn](#)

quickActionLayoutItems a QuickActionLayoutItem

QuickActionLayoutItem

[Salesforce Documentation for QuickActionLayoutItem](#)

emptySpace a character either 'true' or 'false'

field a character

uiBehavior a UiBehavior - which is a character taking one of the following values:

- Edit
- Required
- Readonly

QuickActionList

[Salesforce Documentation for QuickActionList](#)

quickActionListItems a QuickActionListItem

QuickActionListItem

[Salesforce Documentation for QuickActionListItem](#)

quickActionName a character

QuickActionSendEmailOptions

[Salesforce Documentation for QuickActionSendEmailOptions](#)

defaultEmailTemplateName a character

ignoreDefaultEmailTemplateSubject a character either 'true' or 'false'

QuickActionTranslation

[Salesforce Documentation for QuickActionTranslation](#)

label a character

name a character

QuotasSettings

[Salesforce Documentation for QuotasSettings](#)

showQuotas a character either 'true' or 'false'

QuoteSettings

[Salesforce Documentation for QuoteSettings](#)

fullName a character (inherited from Metadata)

enableQuote a character either 'true' or 'false'

RecommendationAudience

[Salesforce Documentation for RecommendationAudience](#)

recommendationAudienceDetails a RecommendationAudienceDetail

RecommendationAudienceDetail

[Salesforce Documentation for RecommendationAudienceDetail](#)

audienceCriteriaType a AudienceCriteriaType - which is a character taking one of the following values:

- CustomList
- MaxDaysInCommunity

audienceCriteriaValue a character

setupName a character

RecommendationDefinition

[Salesforce Documentation for RecommendationDefinition](#)

recommendationDefinitionDetails a RecommendationDefinitionDetail

RecommendationDefinitionDetail

[Salesforce Documentation for RecommendationDefinitionDetail](#)

actionUrl a character

description a character

linkText a character

scheduledRecommendations a ScheduledRecommendation

setupName a character

title a character

RecommendationStrategy

[Salesforce Documentation for RecommendationStrategy](#)

fullName a character (inherited from Metadata)

description a character

masterLabel a character

recommendationStrategyName a character

strategyNode a StrategyNode

RecordType

[Salesforce Documentation for RecordType](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

businessProcess a character

compactLayoutAssignment a character

description a character

label a character

picklistValues a RecordTypePicklistValue

RecordTypePicklistValue

[Salesforce Documentation for RecordTypePicklistValue](#)

picklist a character

values a PicklistValue

RecordTypeTranslation

[Salesforce Documentation for RecordTypeTranslation](#)

description a character

label a character

name a character

RelatedContent

[Salesforce Documentation for RelatedContent](#)

relatedContentItems a RelatedContentItem

RelatedContentItem

[Salesforce Documentation for RelatedContentItem](#)

layoutItem a LayoutItem

RelatedList

[Salesforce Documentation for RelatedList](#)

hideOnDetail a character either 'true' or 'false'

name a character

RelatedListItem

[Salesforce Documentation for RelatedListItem](#)

customButtons a character

excludeButtons a character

fields a character

relatedList a character

sortField a character

sortOrder a SortOrder - which is a character taking one of the following values:

- Asc
- Desc

RemoteSiteSetting

[Salesforce Documentation for RemoteSiteSetting](#)

fullName a character (inherited from Metadata)

description a character

disableProtocolSecurity a character either 'true' or 'false'

isActive a character either 'true' or 'false'

url a character

Report

[Salesforce Documentation for Report](#)

fullName a character (inherited from Metadata)

aggregates a ReportAggregate

block a Report

blockInfo a ReportBlockInfo

buckets a ReportBucketField

chart a ReportChart

colorRanges a ReportColorRange

columns a ReportColumn

crossFilters a ReportCrossFilter

currency a CurrencyIsoCode - which is a character taking one of the following values:

- ADP
- AED
- AFA
- AFN
- ALL
- AMD
- ANG
- AOA
- ARS
- ATS
- AUD
- AWG
- AZM
- AZN
- BAM
- BBD
- BDT
- BEF
- BGL
- BGN
- BHD
- BIF
- BMD
- BND
- BOB
- BOV
- BRB
- BRL
- BSD
- BTN

- BWP
- BYB
- BYN
- BYR
- BZD
- CAD
- CDF
- CHF
- CLF
- CLP
- CNY
- COP
- CRC
- CSD
- CUC
- CUP
- CVE
- CYP
- CZK
- DEM
- DJF
- DKK
- DOP
- DZD
- ECS
- EEK
- EGP
- ERN
- ESP
- ETB
- EUR
- FIM
- FJD
- FKP
- FRF
- GBP
- GEL
- GHC
- GHS
- GIP
- GMD
- GNF
- GRD
- GTQ
- GWP

- GYD
- HKD
- HNL
- HRD
- HRK
- HTG
- HUF
- IDR
- IEP
- ILS
- INR
- IQD
- IRR
- ISK
- ITL
- JMD
- JOD
- JPY
- KES
- KGS
- KHR
- KMF
- KPW
- KRW
- KWD
- KYD
- KZT
- LAK
- LBP
- LKR
- LRD
- LSL
- LTL
- LUF
- LVL
- LYD
- MAD
- MDL
- MGA
- MGF
- MKD
- MMK
- MNT
- MOP
- MRO

- MTL
- MUR
- MVR
- MWK
- MXN
- MXV
- MYR
- MZM
- MZN
- NAD
- NGN
- NIO
- NLG
- NOK
- NPR
- NZD
- OMR
- PAB
- PEN
- PGK
- PHP
- PKR
- PLN
- PTE
- PYG
- QAR
- RMB
- ROL
- RON
- RSD
- RUB
- RUR
- RWF
- SAR
- SBD
- SCR
- SDD
- SDG
- SEK
- SGD
- SHP
- SIT
- SKK
- SLL
- SOS

- SRD
- SRG
- SSP
- STD
- SUR
- SVC
- SYP
- SZL
- THB
- TJR
- TJS
- TMM
- TMT
- TND
- TOP
- TPE
- TRL
- TRY
- TTD
- TWD
- TZS
- UAH
- UGX
- USD
- UYU
- UZS
- VEB
- VEF
- VND
- VUV
- WST
- XAF
- XCD
- XOF
- XPF
- YER
- YUM
- ZAR
- ZMK
- ZMW
- ZWD
- ZWL

dataCategoryFilters a ReportDataCategoryFilter

description a character

division a character

filter a ReportFilter

folderName a character

format a ReportFormat - which is a character taking one of the following values:

- MultiBlock
- Matrix
- Summary
- Tabular

groupingsAcross a ReportGrouping

groupingsDown a ReportGrouping

historicalSelector a ReportHistoricalSelector

name a character

numSubscriptions a integer

params a ReportParam

reportType a character

roleHierarchyFilter a character

rowLimit a integer

scope a character

showCurrentDate a character either 'true' or 'false'

showDetails a character either 'true' or 'false'

sortColumn a character

sortOrder a SortOrder - which is a character taking one of the following values:

- Asc
- Desc

territoryHierarchyFilter a character

timeFrameFilter a ReportTimeFrameFilter

userFilter a character

ReportAggregate

[Salesforce Documentation for ReportAggregate](#)

acrossGroupingContext a character

calculatedFormula a character

datatype a ReportAggregateDatatype - which is a character taking one of the following values:

- currency
- percent
- number

description a character

developerName a character

downGroupingContext a character

isActive a character either 'true' or 'false'

isCrossBlock a character either 'true' or 'false'

masterLabel a character

reportType a character

scale a integer

ReportAggregateReference

[Salesforce Documentation for ReportAggregateReference](#)

aggregate a character

ReportBlockInfo

[Salesforce Documentation for ReportBlockInfo](#)

aggregateReferences a ReportAggregateReference

blockId a character

joinTable a character

ReportBucketField

[Salesforce Documentation for ReportBucketField](#)

bucketType a ReportBucketFieldType - which is a character taking one of the following values:

- text
- number
- picklist

developerName a character

masterLabel a character

nullTreatment a ReportFormulaNullTreatment - which is a character taking one of the following values:

- n
- z

otherBucketLabel a character

sourceColumnName a character

useOther a character either 'true' or 'false'

values a ReportBucketFieldValue

ReportBucketFieldSourceValue

[Salesforce Documentation for ReportBucketFieldSourceValue](#)

from a character

sourceValue a character

to a character

ReportBucketFieldValue

[Salesforce Documentation for ReportBucketFieldValue](#)

sourceValues a ReportBucketFieldSourceValue

value a character

ReportChart

[Salesforce Documentation for ReportChart](#)

backgroundColor1 a character

backgroundColor2 a character

backgroundFadeDir a ChartBackgroundDirection - which is a character taking one of the following values:

- TopToBottom
- LeftToRight
- Diagonal

chartSummaries a ChartSummary

chartType a ChartType - which is a character taking one of the following values:

- None
- Scatter
- ScatterGrouped
- Bubble
- BubbleGrouped
- HorizontalBar
- HorizontalBarGrouped
- HorizontalBarStacked
- HorizontalBarStackedTo100
- VerticalColumn
- VerticalColumnGrouped
- VerticalColumnStacked
- VerticalColumnStackedTo100
- Line
- LineGrouped
- LineCumulative
- LineCumulativeGrouped
- Pie
- Donut
- Funnel
- VerticalColumnLine
- VerticalColumnGroupedLine
- VerticalColumnStackedLine
- Plugin

enableHoverLabels a character either 'true' or 'false'

expandOthers a character either 'true' or 'false'

groupingColumn a character

legendPosition a ChartLegendPosition - which is a character taking one of the following values:

- Right
- Bottom
- OnChart

location a ChartPosition - which is a character taking one of the following values:

- CHART_TOP
- CHART_BOTTOM

secondaryGroupingColumn a character

showAxisLabels a character either 'true' or 'false'

showPercentage a character either 'true' or 'false'

showTotal a character either 'true' or 'false'

showValues a character either 'true' or 'false'

size a ReportChartSize - which is a character taking one of the following values:

- Tiny
- Small
- Medium
- Large
- Huge

summaryAxisManualRangeEnd a numeric

summaryAxisManualRangeStart a numeric

summaryAxisRange a ChartRangeType - which is a character taking one of the following values:

- Auto
- Manual

textColor a character

textSize a integer

title a character

titleColor a character

titleSize a integer

ReportChartComponentLayoutItem

[Salesforce Documentation for ReportChartComponentLayoutItem](#)

cacheData a character either 'true' or 'false'

contextFilterableField a character

error a character

hideOnError a character either 'true' or 'false'

includeContext a character either 'true' or 'false'

reportName a character

showTitle a character either 'true' or 'false'

size a ReportChartComponentSize - which is a character taking one of the following values:

- SMALL
- MEDIUM
- LARGE

ReportColorRange

[Salesforce Documentation for ReportColorRange](#)

aggregate a ReportSummaryType - which is a character taking one of the following values:

- Sum
- Average
- Maximum
- Minimum
- None

columnName a character
highBreakpoint a numeric
highColor a character
lowBreakpoint a numeric
lowColor a character
midColor a character

ReportColumn

[Salesforce Documentation for ReportColumn](#)

aggregateTypes a ReportSummaryType - which is a character taking one of the following values:

- Sum
- Average
- Maximum
- Minimum
- None

field a character

reverseColors a character either 'true' or 'false'

showChanges a character either 'true' or 'false'

ReportCrossFilter

[Salesforce Documentation for ReportCrossFilter](#)

criteriaItems a ReportFilterItem

operation a ObjectFilterOperator - which is a character taking one of the following values:

- with
- without

primaryTableColumn a character

relatedTable a character

relatedTableJoinColumn a character

ReportDataCategoryFilter

[Salesforce Documentation for ReportDataCategoryFilter](#)

dataCategory a character

dataCategoryGroup a character

operator a DataCategoryFilterOperation - which is a character taking one of the following values:

- above
- below
- at
- aboveOrBelow

ReportFilter

[Salesforce Documentation for ReportFilter](#)

booleanFilter a character

criteriaItems a ReportFilterItem

language a Language - which is a character taking one of the following values:

- en_US
- de
- es
- fr
- it
- ja
- sv
- ko
- zh_TW
- zh_CN
- pt_BR
- nl_NL
- da
- th
- fi
- ru
- es_MX
- no
- hu
- pl
- cs
- tr
- in
- ro
- vi
- uk
- iw
- el
- bg
- en_GB
- ar
- sk
- pt_PT
- hr
- sl
- fr_CA
- ka
- sr
- sh
- en_AU
- en_MY
- en_IN
- en_PH
- en_CA

- ro_MD
- bs
- mk
- lv
- lt
- et
- sq
- sh_ME
- mt
- ga
- eu
- cy
- is
- ms
- tl
- lb
- rm
- hy
- hi
- ur
- bn
- de_AT
- de_CH
- ta
- ar_DZ
- ar_BH
- ar_EG
- ar_IQ
- ar_JO
- ar_KW
- ar_LB
- ar_LY
- ar_MA
- ar_OM
- ar_QA
- ar_SA
- ar_SD
- ar_SY
- ar_TN
- ar_AE
- ar_YE
- zh_SG
- zh_HK
- en_HK
- en_IE

- en_SG
- en_ZA
- fr_BE
- fr_LU
- fr_CH
- de_BE
- de_LU
- it_CH
- nl_BE
- es_AR
- es_BO
- es_CL
- es_CO
- es_CR
- es_DO
- es_EC
- es_SV
- es_GT
- es_HN
- es_NI
- es_PA
- es_PY
- es_PE
- es_PR
- es_US
- es_UY
- es_VE
- ca
- eo
- iw_EO

ReportFilterItem

[Salesforce Documentation for ReportFilterItem](#)

column a character

columnToColumn a character either 'true' or 'false'

isUnlocked a character either 'true' or 'false'

operator a FilterOperation - which is a character taking one of the following values:

- equals
- notEqual
- lessThan
- greaterThan
- lessOrEqual
- greaterOrEqual
- contains
- notContain

- startsWith
- includes
- excludes
- within

snapshot a character

value a character

ReportFolder

[Salesforce Documentation for ReportFolder](#)

accessType a FolderAccessTypes (inherited from Folder)

folderShares a FolderShare (inherited from Folder)

name a character (inherited from Folder)

publicFolderAccess a PublicFolderAccess (inherited from Folder)

sharedTo a SharedTo (inherited from Folder)

ReportGrouping

[Salesforce Documentation for ReportGrouping](#)

aggregateType a ReportAggrType - which is a character taking one of the following values:

- Sum
- Average
- Maximum
- Minimum
- RowCount

dateGranularity a UserDateGranularity - which is a character taking one of the following values:

- None
- Day
- Week
- Month
- Quarter
- Year
- FiscalQuarter
- FiscalYear
- MonthInYear
- DayInMonth
- FiscalPeriod
- FiscalWeek

field a character

sortByName a character

sortOrder a SortOrder - which is a character taking one of the following values:

- Asc
- Desc

sortType a ReportSortType - which is a character taking one of the following values:

- Column
- Aggregate

- CustomSummaryFormula

ReportHistoricalSelector

[Salesforce Documentation for ReportHistoricalSelector](#)

snapshot a character

ReportLayoutSection

[Salesforce Documentation for ReportLayoutSection](#)

columns a ReportTypeColumn

masterLabel a character

ReportParam

[Salesforce Documentation for ReportParam](#)

name a character

value a character

ReportTimeFrameFilter

[Salesforce Documentation for ReportTimeFrameFilter](#)

dateColumn a character

endDate a character formatted as 'yyyy-mm-dd'

interval a UserDateInterval - which is a character taking one of the following values:

- INTERVAL_CURRENT
- INTERVAL_CURNEXT1
- INTERVAL_CURPREV1
- INTERVAL_NEXT1
- INTERVAL_PREV1
- INTERVAL_CURNEXT3
- INTERVAL_CURFY
- INTERVAL_PREVFY
- INTERVAL_PREV2FY
- INTERVAL_AGO2FY
- INTERVAL_NEXTFY
- INTERVAL_PREVCURFY
- INTERVAL_PREVCUR2FY
- INTERVAL_CURNEXTFY
- INTERVAL_CUSTOM
- INTERVAL_YESTERDAY
- INTERVAL_TODAY
- INTERVAL_TOMORROW
- INTERVAL_LASTWEEK
- INTERVAL_THISWEEK
- INTERVAL_NEXTWEEK
- INTERVAL_LASTMONTH
- INTERVAL_THISMONTH
- INTERVAL_NEXTMONTH

- INTERVAL_LASTTHISMONTH
- INTERVAL_THISNEXTMONTH
- INTERVAL_CURRENTQ
- INTERVAL_CURNEXTQ
- INTERVAL_CURPREVQ
- INTERVAL_NEXTQ
- INTERVAL_PREVQ
- INTERVAL_CURNEXT3Q
- INTERVAL_CURY
- INTERVAL_PREVY
- INTERVAL_PREV2Y
- INTERVAL_AGO2Y
- INTERVAL_NEXTY
- INTERVAL_PREVCURY
- INTERVAL_PREVCUR2Y
- INTERVAL_CURNEXTY
- INTERVAL_LAST7
- INTERVAL_LAST30
- INTERVAL_LAST60
- INTERVAL_LAST90
- INTERVAL_LAST120
- INTERVAL_NEXT7
- INTERVAL_NEXT30
- INTERVAL_NEXT60
- INTERVAL_NEXT90
- INTERVAL_NEXT120
- LAST_FISCALWEEK
- THIS_FISCALWEEK
- NEXT_FISCALWEEK
- LAST_FISCALPERIOD
- THIS_FISCALPERIOD
- NEXT_FISCALPERIOD
- LASTTHIS_FISCALPERIOD
- THISNEXT_FISCALPERIOD
- CURRENT_ENTITLEMENT_PERIOD
- PREVIOUS_ENTITLEMENT_PERIOD
- PREVIOUS_TWO_ENTITLEMENT_PERIODS
- TWO_ENTITLEMENT_PERIODS_AGO
- CURRENT_AND_PREVIOUS_ENTITLEMENT_PERIOD
- CURRENT_AND_PREVIOUS_TWO_ENTITLEMENT_PERIODS

startDate a character formatted as 'yyyy-mm-dd'

ReportType

[Salesforce Documentation for ReportType](#)

fullName a character (inherited from Metadata)

autogenerated a character either 'true' or 'false'

baseObject a character

category a ReportTypeCategory - which is a character taking one of the following values:

- accounts
- opportunities
- forecasts
- cases
- leads
- campaigns
- activities
- busop
- products
- admin
- territory
- other
- content
- usage_entitlement
- wdc
- calibration
- territory2

deployed a character either 'true' or 'false'

description a character

join a ObjectRelationship

label a character

sections a ReportLayoutSection

ReportTypeColumn

[Salesforce Documentation for ReportTypeColumn](#)

checkedByDefault a character either 'true' or 'false'

displayNameOverride a character

field a character

table a character

ReportTypeColumnTranslation

[Salesforce Documentation for ReportTypeColumnTranslation](#)

label a character

name a character

ReportTypeSectionTranslation

[Salesforce Documentation for ReportTypeSectionTranslation](#)

columns a ReportTypeColumnTranslation

label a character

name a character

ReportTypeTranslation

[Salesforce Documentation for ReportTypeTranslation](#)

description a character

label a character

name a character

sections a ReportTypeSectionTranslation

ReputationBranding

[Salesforce Documentation for ReputationBranding](#)

smallImage a character

ReputationLevel

[Salesforce Documentation for ReputationLevel](#)

branding a ReputationBranding

label a character

lowerThreshold a numeric

ReputationLevelDefinitions

[Salesforce Documentation for ReputationLevelDefinitions](#)

level a ReputationLevel

ReputationLevels

[Salesforce Documentation for ReputationLevels](#)

chatterAnswersReputationLevels a ChatterAnswersReputationLevel

ideaReputationLevels a IdeaReputationLevel

ReputationPointsRule

[Salesforce Documentation for ReputationPointsRule](#)

eventType a character

points a integer

ReputationPointsRules

[Salesforce Documentation for ReputationPointsRules](#)

pointsRule a ReputationPointsRule

RetrieveRequest

[Salesforce Documentation for RetrieveRequest](#)

apiVersion a numeric

packageNames a character

singlePackage a character either 'true' or 'false'

specificFiles a character

unpackaged a Package

Role

[Salesforce Documentation for Role](#)

caseAccessLevel a character (inherited from RoleOrTerritory)

contactAccessLevel a character (inherited from RoleOrTerritory)

description a character (inherited from RoleOrTerritory)

mayForecastManagerShare a character either 'true' or 'false' (inherited from RoleOrTerritory)

name a character (inherited from RoleOrTerritory)

opportunityAccessLevel a character (inherited from RoleOrTerritory)

parentRole a character

RoleAndSubordinates

[Salesforce Documentation for RoleAndSubordinates](#)

roleAndSubordinate a character

RoleAndSubordinatesInternal

[Salesforce Documentation for RoleAndSubordinatesInternal](#)

roleAndSubordinateInternal a character

RoleOrTerritory

[Salesforce Documentation for RoleOrTerritory](#)

fullName a character (inherited from Metadata)

caseAccessLevel a character

contactAccessLevel a character

description a character

mayForecastManagerShare a character either 'true' or 'false'

name a character

opportunityAccessLevel a character

Roles

[Salesforce Documentation for Roles](#)

role a character

RuleEntry

[Salesforce Documentation for RuleEntry](#)

assignedTo a character

assignedToType a AssignToLookupValueType - which is a character taking one of the following values:

- User
- Queue

booleanFilter a character

businessHours a character

businessHoursSource a BusinessHoursSourceType - which is a character taking one of the following values:

- None
- Case
- Static

criteriaItems a FilterItem

disableEscalationWhenModified a character either 'true' or 'false'

escalationAction a EscalationAction

escalationStartTime a EscalationStartTimeType - which is a character taking one of the following values:

- CaseCreation
- CaseLastModified

formula a character

notifyCcRecipients a character either 'true' or 'false'

overrideExistingTeams a character either 'true' or 'false'

replyToEmail a character

senderEmail a character

senderName a character

team a character

template a character

SamlSsoConfig

[Salesforce Documentation for SamlSsoConfig](#)

fullName a character (inherited from Metadata)

attributeName a character

attributeNameIdFormat a character

decryptionCertificate a character

errorUrl a character

executionUserId a character

identityLocation a SamlIdentityLocationType - which is a character taking one of the following values:

- SubjectNameId
- Attribute

identityMapping a SamlIdentityType - which is a character taking one of the following values:

- Username
- FederationId
- UserId

issuer a character

loginUrl a character

logoutUrl a character

name a character

oauthTokenEndpoint a character

redirectBinding a character either 'true' or 'false'

requestSignatureMethod a character

requestSigningCertId a character

salesforceLoginUrl a character

samlEntityId a character

samlJitHandlerId a character

samlVersion a SamlType - which is a character taking one of the following values:

- SAML1_1
- SAML2_0

singleLogoutBinding a SamlSpSLOBinding - which is a character taking one of the following values:

- RedirectBinding
- PostBinding

singleLogoutUrl a character

userProvisioning a character either 'true' or 'false'

validationCert a character

ScheduledRecommendation

[Salesforce Documentation for ScheduledRecommendation](#)

scheduledRecommendationDetails a ScheduledRecommendationDetail

ScheduledRecommendationDetail

[Salesforce Documentation for ScheduledRecommendationDetail](#)

channel a RecommendationChannel - which is a character taking one of the following values:

- DefaultChannel
- CustomChannel1
- CustomChannel2
- CustomChannel3
- CustomChannel4
- CustomChannel5

enabled a character either 'true' or 'false'

rank a integer

recommendationAudience a character

Scontrol

[Salesforce Documentation for Scontrol](#)

content a character formed using RUrl::base64Encode (inherited from MetadataWithContent)

contentSource a SControlContentSource - which is a character taking one of the following values:

- HTML
- URL
- Snippet

description a character

encodingKey a Encoding - which is a character taking one of the following values:

- UTF-8
- ISO-8859-1

- Shift_JIS
- ISO-2022-JP
- EUC-JP
- ks_c_5601-1987
- Big5
- GB2312
- Big5-HKSCS
- x-SJIS_0213

fileContent a character formed using RUrl::base64Encode

fileName a character

name a character

supportsCaching a character either 'true' or 'false'

ScontrolTranslation

[Salesforce Documentation for ScontrolTranslation](#)

label a character

name a character

SearchLayouts

[Salesforce Documentation for SearchLayouts](#)

customTabListAdditionalFields a character

excludedStandardButtons a character

listViewButtons a character

lookupDialogsAdditionalFields a character

lookupFilterFields a character

lookupPhoneDialogsAdditionalFields a character

searchFilterFields a character

searchResultsAdditionalFields a character

searchResultsCustomButtons a character

SearchSettings

[Salesforce Documentation for SearchSettings](#)

fullName a character (inherited from Metadata)

documentContentSearchEnabled a character either 'true' or 'false'

optimizeSearchForCJKEnabled a character either 'true' or 'false'

recentlyViewedUsersForBlankLookupEnabled a character either 'true' or 'false'

searchSettingsByObject a SearchSettingsByObject

sidebarAutoCompleteEnabled a character either 'true' or 'false'

sidebarDropDownListEnabled a character either 'true' or 'false'

sidebarLimitToItemsIOwnCheckboxEnabled a character either 'true' or 'false'

singleSearchResultShortcutEnabled a character either 'true' or 'false'

spellCorrectKnowledgeSearchEnabled a character either 'true' or 'false'

SearchSettingsByObject

[Salesforce Documentation for SearchSettingsByObject](#)

searchSettingsByObject a ObjectSearchSetting

SecuritySettings

[Salesforce Documentation for SecuritySettings](#)

fullName a character (inherited from Metadata)

networkAccess a NetworkAccess

passwordPolicies a PasswordPolicies

sessionSettings a SessionSettings

ServiceCloudConsoleConfig

[Salesforce Documentation for ServiceCloudConsoleConfig](#)

componentList a AppComponentList

detailPageRefreshMethod a character

footerColor a character

headerColor a character

keyboardShortcuts a KeyboardShortcuts

listPlacement a ListPlacement

listRefreshMethod a character

liveAgentConfig a LiveAgentConfig

primaryTabColor a character

pushNotifications a PushNotification

tabLimitConfig a TabLimitConfig

whitelistedDomains a character

SessionSettings

[Salesforce Documentation for SessionSettings](#)

disableTimeoutWarning a character either 'true' or 'false'

enableCSPOnEmail a character either 'true' or 'false'

enableCSRFOnGet a character either 'true' or 'false'

enableCSRFOnPost a character either 'true' or 'false'

enableCacheAndAutocomplete a character either 'true' or 'false'

enableClickjackNonsetupSFDC a character either 'true' or 'false'

enableClickjackNonsetupUser a character either 'true' or 'false'

enableClickjackNonsetupUserHeaderless a character either 'true' or 'false'

enableClickjackSetup a character either 'true' or 'false'

enableContentSniffingProtection a character either 'true' or 'false'

enablePostForSessions a character either 'true' or 'false'

enableSMSIdentity a character either 'true' or 'false'

enableUpgradeInsecureRequests a character either 'true' or 'false'

enableXssProtection a character either 'true' or 'false'
enforceIpRangesEveryRequest a character either 'true' or 'false'
forceLogoutOnSessionTimeout a character either 'true' or 'false'
forceReLogin a character either 'true' or 'false'
hstsOnForcecomSites a character either 'true' or 'false'
identityConfirmationOnEmailChange a character either 'true' or 'false'
identityConfirmationOnTwoFactorRegistrationEnabled a character either 'true' or 'false'
lockSessionsToDomain a character either 'true' or 'false'
lockSessionsToIp a character either 'true' or 'false'
logoutURL a character
redirectionWarning a character either 'true' or 'false'
referrerPolicy a character either 'true' or 'false'
requireHttpOnly a character either 'true' or 'false'
requireHttps a character either 'true' or 'false'
securityCentralKillSession a character either 'true' or 'false'
sessionTimeout a SessionTimeout - which is a character taking one of the following values:

- TwentyFourHours
- TwelveHours
- EightHours
- FourHours
- TwoHours
- SixtyMinutes
- ThirtyMinutes
- FifteenMinutes

SFDCMobileSettings

[Salesforce Documentation for SFDCMobileSettings](#)

enableMobileLite a character either 'true' or 'false'
enableUserToDeviceLinking a character either 'true' or 'false'

SharedTo

[Salesforce Documentation for SharedTo](#)

allCustomerPortalUsers a character
allInternalUsers a character
allPartnerUsers a character
channelProgramGroup a character
channelProgramGroups a character
group a character
groups a character
managerSubordinates a character
managers a character
portalRole a character

portalRoleAndSubordinates a character
queue a character
role a character
roleAndSubordinates a character
roleAndSubordinatesInternal a character
roles a character
rolesAndSubordinates a character
territories a character
territoriesAndSubordinates a character
territory a character
territoryAndSubordinates a character

SharingBaseRule

[Salesforce Documentation for SharingBaseRule](#)

fullName a character (inherited from Metadata)
accessLevel a character
accountSettings a AccountSharingRuleSettings
description a character
label a character
sharedTo a SharedTo

SharingCriteriaRule

[Salesforce Documentation for SharingCriteriaRule](#)

accessLevel a character (inherited from SharingBaseRule)
accountSettings a AccountSharingRuleSettings (inherited from SharingBaseRule)
description a character (inherited from SharingBaseRule)
label a character (inherited from SharingBaseRule)
sharedTo a SharedTo (inherited from SharingBaseRule)
booleanFilter a character
criteriaItems a FilterItem

SharingOwnerRule

[Salesforce Documentation for SharingOwnerRule](#)

accessLevel a character (inherited from SharingBaseRule)
accountSettings a AccountSharingRuleSettings (inherited from SharingBaseRule)
description a character (inherited from SharingBaseRule)
label a character (inherited from SharingBaseRule)
sharedTo a SharedTo (inherited from SharingBaseRule)
sharedFrom a SharedTo

SharingReason

[Salesforce Documentation for SharingReason](#)

fullName a character (inherited from Metadata)

label a character

SharingReasonTranslation

[Salesforce Documentation for SharingReasonTranslation](#)

label a character

name a character

SharingRecalculation

[Salesforce Documentation for SharingRecalculation](#)

className a character

SharingRules

[Salesforce Documentation for SharingRules](#)

fullName a character (inherited from Metadata)

sharingCriteriaRules a SharingCriteriaRule

sharingOwnerRules a SharingOwnerRule

sharingTerritoryRules a SharingTerritoryRule

SharingSet

[Salesforce Documentation for SharingSet](#)

fullName a character (inherited from Metadata)

accessMappings a AccessMapping

description a character

name a character

profiles a character

SharingTerritoryRule

[Salesforce Documentation for SharingTerritoryRule](#)

sharedFrom a SharedTo (inherited from SharingOwnerRule)

SidebarComponent

[Salesforce Documentation for SidebarComponent](#)

componentType a character

createAction a character

enableLinking a character either 'true' or 'false'

height a integer

label a character

lookup a character

page a character

relatedLists a RelatedList

unit a character

updateAction a character

width a integer

SiteDotCom

[Salesforce Documentation for SiteDotCom](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

label a character

siteType a SiteType - which is a character taking one of the following values:

- Siteforce
- Visualforce
- User

SiteRedirectMapping

[Salesforce Documentation for SiteRedirectMapping](#)

action a SiteRedirect - which is a character taking one of the following values:

- Permanent
- Temporary

isActive a character either 'true' or 'false'

source a character

target a character

SiteWebAddress

[Salesforce Documentation for SiteWebAddress](#)

certificate a character

domainName a character

primary a character either 'true' or 'false'

Skill

[Salesforce Documentation for Skill](#)

fullName a character (inherited from Metadata)

assignments a SkillAssignments

description a character

label a character

SkillAssignments

[Salesforce Documentation for SkillAssignments](#)

profiles a SkillProfileAssignments

users a SkillUserAssignments

SkillProfileAssignments

[Salesforce Documentation for SkillProfileAssignments](#)

profile a character

SkillUserAssignments

[Salesforce Documentation for SkillUserAssignments](#)

user a character

SocialCustomerServiceSettings

[Salesforce Documentation for SocialCustomerServiceSettings](#)

fullName a character (inherited from Metadata)

caseSubjectOption a CaseSubjectOption - which is a character taking one of the following values:

- SocialPostSource
- SocialPostContent
- BuildCustom

StandardFieldTranslation

[Salesforce Documentation for StandardFieldTranslation](#)

label a character

name a character

StandardValue

[Salesforce Documentation for StandardValue](#)

color a character (inherited from CustomValue)

default a character either 'true' or 'false' (inherited from CustomValue)

description a character (inherited from CustomValue)

isActive a character either 'true' or 'false' (inherited from CustomValue)

label a character (inherited from CustomValue)

allowEmail a character either 'true' or 'false'

closed a character either 'true' or 'false'

converted a character either 'true' or 'false'

cssExposed a character either 'true' or 'false'

forecastCategory a ForecastCategories - which is a character taking one of the following values:

- Omitted
- Pipeline
- BestCase
- Forecast
- Closed

groupingString a character

highPriority a character either 'true' or 'false'

probability a integer

reverseRole a character

reviewed a character either 'true' or 'false'

won a character either 'true' or 'false'

StandardValueSet

[Salesforce Documentation for StandardValueSet](#)

fullName a character (inherited from Metadata)

groupingStringEnum a character

sorted a character either 'true' or 'false'

standardValue a StandardValue

StandardValueSetTranslation

[Salesforce Documentation for StandardValueSetTranslation](#)

fullName a character (inherited from Metadata)

valueTranslation a ValueTranslation

State

[Salesforce Documentation for State](#)

active a character either 'true' or 'false'

integrationValue a character

isoCode a character

label a character

standard a character either 'true' or 'false'

visible a character either 'true' or 'false'

StaticResource

[Salesforce Documentation for StaticResource](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

cacheControl a StaticResourceCacheControl - which is a character taking one of the following values:

- Private
- Public

contentType a character

description a character

StrategyNode

[Salesforce Documentation for StrategyNode](#)

definition a character

description a character

name a character

parentNode a character

type a integer

SubtabComponents

[Salesforce Documentation for SubtabComponents](#)

containers a Container

SummaryLayout

[Salesforce Documentation for SummaryLayout](#)

masterLabel a character

sizeX a integer

sizeY a integer

sizeZ a integer

summaryLayoutItems a SummaryLayoutItem

summaryLayoutStyle a SummaryLayoutStyle - which is a character taking one of the following values:

- Default
- QuoteTemplate
- DefaultQuoteTemplate
- ServiceReportTemplate
- ChildServiceReportTemplateStyle
- DefaultServiceReportTemplate
- CaseInteraction
- QuickActionLayoutLeftRight
- QuickActionLayoutTopDown
- PathAssistant

SummaryLayoutItem

[Salesforce Documentation for SummaryLayoutItem](#)

customLink a character

field a character

posX a integer

posY a integer

posZ a integer

SupervisorAgentConfigSkills

[Salesforce Documentation for SupervisorAgentConfigSkills](#)

skill a character

SynonymDictionary

[Salesforce Documentation for SynonymDictionary](#)

fullName a character (inherited from Metadata)

groups a SynonymGroup

isProtected a character either 'true' or 'false'

label a character

SynonymGroup

[Salesforce Documentation for SynonymGroup](#)

languages a Language - which is a character taking one of the following values:

- en_US
- de
- es
- fr
- it
- ja

- sv
- ko
- zh_TW
- zh_CN
- pt_BR
- nl_NL
- da
- th
- fi
- ru
- es_MX
- no
- hu
- pl
- cs
- tr
- in
- ro
- vi
- uk
- iw
- el
- bg
- en_GB
- ar
- sk
- pt_PT
- hr
- sl
- fr_CA
- ka
- sr
- sh
- en_AU
- en_MY
- en_IN
- en_PH
- en_CA
- ro_MD
- bs
- mk
- lv
- lt
- et
- sq

- sh_ME
- mt
- ga
- eu
- cy
- is
- ms
- tl
- lb
- rm
- hy
- hi
- ur
- bn
- de_AT
- de_CH
- ta
- ar_DZ
- ar_BH
- ar_EG
- ar_IQ
- ar_JO
- ar_KW
- ar_LB
- ar_LY
- ar_MA
- ar_OM
- ar_QA
- ar_SA
- ar_SD
- ar_SY
- ar_TN
- ar_AE
- ar_YE
- zh_SG
- zh_HK
- en_HK
- en_IE
- en_SG
- en_ZA
- fr_BE
- fr_LU
- fr_CH
- de_BE
- de_LU

- it_CH
- nl_BE
- es_AR
- es_BO
- es_CL
- es_CO
- es_CR
- es_DO
- es_EC
- es_SV
- es_GT
- es_HN
- es_NI
- es_PA
- es_PY
- es_PE
- es_PR
- es_US
- es_UY
- es_VE
- ca
- eo
- iw_EO

terms a character

TabLimitConfig

[Salesforce Documentation for TabLimitConfig](#)

maxNumberOfPrimaryTabs a character

maxNumberOfSubTabs a character

Territory

[Salesforce Documentation for Territory](#)

caseAccessLevel a character (inherited from RoleOrTerritory)

contactAccessLevel a character (inherited from RoleOrTerritory)

description a character (inherited from RoleOrTerritory)

mayForecastManagerShare a character either 'true' or 'false' (inherited from RoleOrTerritory)

name a character (inherited from RoleOrTerritory)

opportunityAccessLevel a character (inherited from RoleOrTerritory)

accountAccessLevel a character

parentTerritory a character

Territory2

[Salesforce Documentation for Territory2](#)

fullName a character (inherited from Metadata)

accountAccessLevel a character
caseAccessLevel a character
contactAccessLevel a character
customFields a FieldValue
description a character
name a character
opportunityAccessLevel a character
parentTerritory a character
ruleAssociations a Territory2RuleAssociation
territory2Type a character

Territory2Model

[Salesforce Documentation for Territory2Model](#)

fullName a character (inherited from Metadata)
customFields a FieldValue
description a character
name a character

Territory2Rule

[Salesforce Documentation for Territory2Rule](#)

fullName a character (inherited from Metadata)
active a character either 'true' or 'false'
booleanFilter a character
name a character
objectType a character
ruleItems a Territory2RuleItem

Territory2RuleAssociation

[Salesforce Documentation for Territory2RuleAssociation](#)

inherited a character either 'true' or 'false'
ruleName a character

Territory2RuleItem

[Salesforce Documentation for Territory2RuleItem](#)

field a character
operation a FilterOperation - which is a character taking one of the following values:

- equals
- notEqual
- lessThan
- greaterThan
- lessOrEqual
- greaterOrEqual
- contains

- notContain
- startsWith
- includes
- excludes
- within

value a character

Territory2Settings

[Salesforce Documentation for Territory2Settings](#)

fullName a character (inherited from Metadata)

defaultAccountAccessLevel a character

defaultCaseAccessLevel a character

defaultContactAccessLevel a character

defaultOpportunityAccessLevel a character

opportunityFilterSettings a Territory2SettingsOpportunityFilter

Territory2SettingsOpportunityFilter

[Salesforce Documentation for Territory2SettingsOpportunityFilter](#)

apexClassName a character

enableFilter a character either 'true' or 'false'

runOnCreate a character either 'true' or 'false'

Territory2Type

[Salesforce Documentation for Territory2Type](#)

fullName a character (inherited from Metadata)

description a character

name a character

priority a integer

TopicsForObjects

[Salesforce Documentation for TopicsForObjects](#)

fullName a character (inherited from Metadata)

enableTopics a character either 'true' or 'false'

entityApiName a character

TouchMobileSettings

[Salesforce Documentation for TouchMobileSettings](#)

enableTouchAppIPad a character either 'true' or 'false'

enableTouchAppiPhone a character either 'true' or 'false'

enableTouchBrowserIPad a character either 'true' or 'false'

enableTouchIosPhone a character either 'true' or 'false'

enableVisualforceInTouch a character either 'true' or 'false'

TransactionSecurityAction

[Salesforce Documentation for TransactionSecurityAction](#)

block a character either 'true' or 'false'

endSession a character either 'true' or 'false'

freezeUser a character either 'true' or 'false'

notifications a TransactionSecurityNotification

twoFactorAuthentication a character either 'true' or 'false'

TransactionSecurityNotification

[Salesforce Documentation for TransactionSecurityNotification](#)

inApp a character either 'true' or 'false'

sendEmail a character either 'true' or 'false'

user a character

TransactionSecurityPolicy

[Salesforce Documentation for TransactionSecurityPolicy](#)

fullName a character (inherited from Metadata)

action a TransactionSecurityAction

active a character either 'true' or 'false'

apexClass a character

description a character

developerName a character

eventName a TransactionSecurityEventName - which is a character taking one of the following values:

- ReportEvent
- ApiEvent
- AdminSetupEvent
- LoginEvent

eventType a MonitoredEvents - which is a character taking one of the following values:

- AuditTrail
- Login
- Entity
- DataExport
- AccessResource

executionUser a character

flow a character

masterLabel a character

resourceName a character

type a TxnSecurityPolicyType - which is a character taking one of the following values:

- CustomApexPolicy
- CustomConditionBuilderPolicy

Translations

[Salesforce Documentation for Translations](#)

fullName a character (inherited from Metadata)
customApplications a CustomApplicationTranslation
customDataTypeTranslations a CustomDataTypeTranslation
customLabels a CustomLabelTranslation
customPageWebLinks a CustomPageWebLinkTranslation
customTabs a CustomTabTranslation
flowDefinitions a FlowDefinitionTranslation
quickActions a GlobalQuickActionTranslation
reportTypes a ReportTypeTranslation
scontrols a ScontrolTranslation

UiFormulaCriterion

[Salesforce Documentation for UiFormulaCriterion](#)

leftValue a character
operator a character
rightValue a character

UiFormulaRule

[Salesforce Documentation for UiFormulaRule](#)

booleanFilter a character
criteria a UiFormulaCriterion

UiPlugin

[Salesforce Documentation for UiPlugin](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)
description a character
extensionPointIdentifier a character
isEnabled a character either 'true' or 'false'
language a character
masterLabel a character

UserCriteria

[Salesforce Documentation for UserCriteria](#)

fullName a character (inherited from Metadata)
creationAgeInSeconds a integer
description a character
lastChatterActivityAgeInSeconds a integer
masterLabel a character
profiles a character
userTypes a NetworkUserType - which is a character taking one of the following values:

- Internal
- Customer
- Partner

Users

[Salesforce Documentation for Users](#)

user a character

ValidationRule

[Salesforce Documentation for ValidationRule](#)

fullName a character (inherited from Metadata)

active a character either 'true' or 'false'

description a character

errorConditionFormula a character

errorDisplayField a character

errorMessage a character

ValidationRuleTranslation

[Salesforce Documentation for ValidationRuleTranslation](#)

errorMessage a character

name a character

ValueSet

[Salesforce Documentation for ValueSet](#)

controllingField a character

restricted a character either 'true' or 'false'

valueSetDefinition a ValueSetValuesDefinition

valueSetName a character

valueSettings a ValueSettings

ValueSettings

[Salesforce Documentation for ValueSettings](#)

controllingFieldValue a character

valueName a character

ValueSetValuesDefinition

[Salesforce Documentation for ValueSetValuesDefinition](#)

sorted a character either 'true' or 'false'

value a CustomValue

ValueTranslation

[Salesforce Documentation for ValueTranslation](#)

masterLabel a character

translation a character

ValueTypeField

[Salesforce Documentation for ValueTypeField](#)

fields a ValueTypeField

foreignKeyDomain a character

isForeignKey a character either 'true' or 'false'

isNameField a character either 'true' or 'false'

minOccurs a integer

name a character

picklistValues a PicklistEntry

soapType a character

valueRequired a character either 'true' or 'false'

VisualizationPlugin

[Salesforce Documentation for VisualizationPlugin](#)

fullName a character (inherited from Metadata)

description a character

developerName a character

icon a character

masterLabel a character

visualizationResources a VisualizationResource

visualizationTypes a VisualizationType

VisualizationResource

[Salesforce Documentation for VisualizationResource](#)

description a character

file a character

rank a integer

type a VisualizationResourceType - which is a character taking one of the following values:

- js
- css

VisualizationType

[Salesforce Documentation for VisualizationType](#)

description a character

developerName a character

icon a character

masterLabel a character

scriptBootstrapMethod a character

WaveApplication

[Salesforce Documentation for WaveApplication](#)

fullName a character (inherited from Metadata)

assetIcon a character

description a character

folder a character

masterLabel a character

shares a FolderShare

templateOrigin a character

templateVersion a character

WaveDashboard

[Salesforce Documentation for WaveDashboard](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

application a character

description a character

masterLabel a character

templateAssetSourceName a character

WaveDataflow

[Salesforce Documentation for WaveDataflow](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

dataflowType a character

description a character

masterLabel a character

WaveDataset

[Salesforce Documentation for WaveDataset](#)

fullName a character (inherited from Metadata)

application a character

description a character

masterLabel a character

templateAssetSourceName a character

WaveLens

[Salesforce Documentation for WaveLens](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

application a character

datasets a character

description a character

masterLabel a character

templateAssetSourceName a character

visualizationType a character

WaveRecipe

[Salesforce Documentation for WaveRecipe](#)

content a character formed using RCurl::base64Encode (inherited from MetadataWithContent)

dataflow a character

masterLabel a character

securityPredicate a character

targetDatasetAlias a character

WaveTemplateBundle

[Salesforce Documentation for WaveTemplateBundle](#)

fullName a character (inherited from Metadata)

assetIcon a character

assetVersion a numeric

description a character

label a character

templateBadgeIcon a character

templateDetailIcon a character

templateType a character

WaveXmd

[Salesforce Documentation for WaveXmd](#)

fullName a character (inherited from Metadata)

application a character

dataset a character

datasetConnector a character

datasetFullyQualifiedName a character

dates a WaveXmdDate

dimensions a WaveXmdDimension

measures a WaveXmdMeasure

organizations a WaveXmdOrganization

origin a character

type a character

waveVisualization a character

WaveXmdDate

[Salesforce Documentation for WaveXmdDate](#)

alias a character

compact a character either 'true' or 'false'

dateFieldDay a character

dateFieldEpochDay a character

dateFieldEpochSecond a character

dateFieldFiscalMonth a character

dateFieldFiscalQuarter a character

dateFieldFiscalWeek a character

dateFieldFiscalYear a character
dateFieldFullYear a character
dateFieldHour a character
dateFieldMinute a character
dateFieldMonth a character
dateFieldQuarter a character
dateFieldSecond a character
dateFieldWeek a character
dateFieldYear a character
description a character
firstDayOfWeek a integer
fiscalMonthOffset a integer
isYearEndFiscalYear a character either 'true' or 'false'
label a character
showInExplorer a character either 'true' or 'false'
sortIndex a integer

WaveXmdDimension

[Salesforce Documentation for WaveXmdDimension](#)

customActions a WaveXmdDimensionCustomAction
customActionsEnabled a character either 'true' or 'false'
dateFormat a character
description a character
field a character
fullyQualifiedName a character
imageTemplate a character
isDerived a character either 'true' or 'false'
isMultiValue a character either 'true' or 'false'
label a character
linkTemplate a character
linkTemplateEnabled a character either 'true' or 'false'
linkTooltip a character
members a WaveXmdDimensionMember
origin a character
recordDisplayFields a WaveXmdRecordDisplayLookup
recordIdField a character
recordOrganizationIdField a character
salesforceActions a WaveXmdDimensionSalesforceAction
salesforceActionsEnabled a character either 'true' or 'false'
showDetailsDefaultFieldIndex a integer
showInExplorer a character either 'true' or 'false'

sortIndex a integer

WaveXmdDimensionCustomAction

[Salesforce Documentation for WaveXmdDimensionCustomAction](#)

customActionName a character

enabled a character either 'true' or 'false'

icon a character

method a character

sortIndex a integer

target a character

tooltip a character

url a character

WaveXmdDimensionMember

[Salesforce Documentation for WaveXmdDimensionMember](#)

color a character

label a character

member a character

sortIndex a integer

WaveXmdDimensionSalesforceAction

[Salesforce Documentation for WaveXmdDimensionSalesforceAction](#)

enabled a character either 'true' or 'false'

salesforceActionName a character

sortIndex a integer

WaveXmdMeasure

[Salesforce Documentation for WaveXmdMeasure](#)

dateFormat a character

description a character

field a character

formatCustomFormat a character

formatDecimalDigits a integer

formatIsNegativeParens a character either 'true' or 'false'

formatPrefix a character

formatSuffix a character

formatUnit a character

formatUnitMultiplier a numeric

fullyQualifiedName a character

isDerived a character either 'true' or 'false'

label a character

origin a character

showDetailsDefaultFieldIndex a integer

showInExplorer a character either 'true' or 'false'

sortIndex a integer

WaveXmdOrganization

[Salesforce Documentation for WaveXmdOrganization](#)

instanceUrl a character

label a character

organizationIdentifier a character

sortIndex a integer

WaveXmdRecordDisplayLookup

[Salesforce Documentation for WaveXmdRecordDisplayLookup](#)

recordDisplayField a character

WebLink

[Salesforce Documentation for WebLink](#)

fullName a character (inherited from Metadata)

availability a WebLinkAvailability - which is a character taking one of the following values:

- online
- offline

description a character

displayType a WebLinkDisplayType - which is a character taking one of the following values:

- link
- button
- massActionButton

encodingKey a Encoding - which is a character taking one of the following values:

- UTF-8
- ISO-8859-1
- Shift_JIS
- ISO-2022-JP
- EUC-JP
- ks_c_5601-1987
- Big5
- GB2312
- Big5-HKSCS
- x-SJIS_0213

hasMenubar a character either 'true' or 'false'

hasScrollbars a character either 'true' or 'false'

hasToolbar a character either 'true' or 'false'

height a integer

isResizable a character either 'true' or 'false'

linkType a WebLinkType - which is a character taking one of the following values:

- url
- sControl
- javascript
- page
- flow

masterLabel a character

openType a WebLinkWindowType - which is a character taking one of the following values:

- newWindow
- sidebar
- noSidebar
- replace
- onClickJavaScript

page a character

position a WebLinkPosition - which is a character taking one of the following values:

- fullScreen
- none
- topLeft

protected a character either 'true' or 'false'

requireRowSelection a character either 'true' or 'false'

scontrol a character

showsLocation a character either 'true' or 'false'

showsStatus a character either 'true' or 'false'

url a character

width a integer

WebLinkTranslation

[Salesforce Documentation for WebLinkTranslation](#)

label a character

name a character

WebToCaseSettings

[Salesforce Documentation for WebToCaseSettings](#)

caseOrigin a character

defaultResponseTemplate a character

enableWebToCase a character either 'true' or 'false'

WeightedSourceCategory

[Salesforce Documentation for WeightedSourceCategory](#)

sourceCategoryApiName a character

weight a numeric

Workflow

[Salesforce Documentation for Workflow](#)

fullName a character (inherited from Metadata)

alerts a WorkflowAlert

fieldUpdates a WorkflowFieldUpdate

flowActions a WorkflowFlowAction

knowledgePublishes a WorkflowKnowledgePublish

outboundMessages a WorkflowOutboundMessage

rules a WorkflowRule

send a WorkflowSend

tasks a WorkflowTask

WorkflowAction

[Salesforce Documentation for WorkflowAction](#)

fullName a character (inherited from Metadata)

WorkflowActionReference

[Salesforce Documentation for WorkflowActionReference](#)

name a character

type a WorkflowActionType - which is a character taking one of the following values:

- FieldUpdate
- KnowledgePublish
- Task
- Alert
- Send
- OutboundMessage
- FlowAction

WorkflowAlert

[Salesforce Documentation for WorkflowAlert](#)

extends WorkflowAction see documentation for WorkflowAction

ccEmails a character

description a character

protected a character either 'true' or 'false'

recipients a WorkflowEmailRecipient

senderAddress a character

senderType a ActionEmailSenderType - which is a character taking one of the following values:

- CurrentUser
- OrgWideEmailAddress
- DefaultWorkflowUser

template a character

WorkflowEmailRecipient

[Salesforce Documentation for WorkflowEmailRecipient](#)

field a character

recipient a character

type a ActionEmailRecipientTypes - which is a character taking one of the following values:

- group
- role
- user
- opportunityTeam
- accountTeam
- roleSubordinates
- owner
- creator
- partnerUser
- accountOwner
- customerPortalUser
- portalRole
- portalRoleSubordinates
- contactLookup
- userLookup
- roleSubordinatesInternal
- email
- caseTeam
- campaignMemberDerivedOwner

WorkflowFieldUpdate

[Salesforce Documentation for WorkflowFieldUpdate](#)

extends **WorkflowAction** see documentation for WorkflowAction

description a character

field a character

formula a character

literalValue a character

lookupValue a character

lookupValueType a LookupValueType - which is a character taking one of the following values:

- User
- Queue
- RecordType

name a character

notifyAssignee a character either 'true' or 'false'

operation a FieldUpdateOperation - which is a character taking one of the following values:

- Formula
- Literal
- Null
- NextValue
- PreviousValue
- LookupValue

protected a character either 'true' or 'false'

reevaluateOnChange a character either 'true' or 'false'

targetObject a character

WorkflowFlowAction

[Salesforce Documentation for WorkflowFlowAction](#)

extends WorkflowAction see documentation for WorkflowAction

description a character

flow a character

flowInputs a WorkflowFlowActionParameter

label a character

language a character

protected a character either 'true' or 'false'

WorkflowFlowActionParameter

[Salesforce Documentation for WorkflowFlowActionParameter](#)

name a character

value a character

WorkflowKnowledgePublish

[Salesforce Documentation for WorkflowKnowledgePublish](#)

extends WorkflowAction see documentation for WorkflowAction

action a KnowledgeWorkflowAction - which is a character taking one of the following values:

- PublishAsNew
- Publish

description a character

label a character

language a character

protected a character either 'true' or 'false'

WorkflowRule

[Salesforce Documentation for WorkflowRule](#)

fullName a character (inherited from Metadata)

actions a WorkflowActionReference

active a character either 'true' or 'false'

booleanFilter a character

criteriaItems a FilterItem

description a character

formula a character

triggerType a WorkflowTriggerTypes - which is a character taking one of the following values:

- onCreateOnly
- onCreateOrTriggeringUpdate
- onAllChanges
- OnRecursiveUpdate

workflowTimeTriggers a WorkflowTimeTrigger

WorkflowSend

[Salesforce Documentation for WorkflowSend](#)

extends WorkflowAction see documentation for WorkflowAction

action a SendAction - which is a character taking one of the following values:

- Send

description a character

label a character

language a character

protected a character either 'true' or 'false'

WorkflowTask

[Salesforce Documentation for WorkflowTask](#)

extends WorkflowAction see documentation for WorkflowAction

assignedTo a character

assignedToType a ActionTaskAssignedToTypes - which is a character taking one of the following values:

- user
- role
- opportunityTeam
- accountTeam
- owner
- accountOwner
- creator
- accountCreator
- partnerUser
- portalRole

description a character

dueDateOffset a integer

notifyAssignee a character either 'true' or 'false'

offsetFromField a character

priority a character

protected a character either 'true' or 'false'

status a character

subject a character

WorkflowTaskTranslation

[Salesforce Documentation for WorkflowTaskTranslation](#)

description a character

name a character

subject a character

WorkflowTimeTrigger

[Salesforce Documentation for WorkflowTimeTrigger](#)

actions a WorkflowActionReference

offsetFromField a character

timeLength a character

workflowTimeTriggerUnit a WorkflowTimeUnits - which is a character taking one of the following values:

- Hours
- Days

WorkspaceMapping

[Salesforce Documentation for WorkspaceMapping](#)

fieldName a character

tab a character

Value

a list that can be used as input to one of the CRUD Metadata API operations: [sf_create_metadata](#), [sf_update_metadata](#), [sf_update_metadata](#)

parameterized_search_control

Auxiliary for Controlling Parametrized Searches

Description

A function for allowing finer grained control over how a search is performed when not using SOSL

Usage

```
parameterized_search_control(
  objects = NULL,
  fields_scope = c("ALL", "NAME", "EMAIL", "PHONE", "SIDEBAR"),
  fields = NULL,
  overall_limit = 2000,
  spell_correction = TRUE
)
```

Arguments

objects	character; objects to search and return in the response. Multiple objects can be provided as a character vector
fields_scope	character; scope of fields to search in order to limit the resources used and improve performance
fields	character; one or more fields to return in the response for each subject specified. If no fields are specified only the Ids of the matching records are returned.
overall_limit	numeric; the maximum number of results to return across all subject parameters specified.
spell_correction	logical; specifies whether spell correction should be enabled for a user's search.

Value

list of parameters passed onto sf_search

References

https://developer.salesforce.com/docs/atlas.en-us.api_rest.meta/api_rest/resources_search_parameterized.htm#resources_search_parameterized

Examples

```
## Not run:
# free text search only on Contact record Phone fields
# this will improve the performance of the search
my_phone_search <- "(336)"
search_result <- sf_search(my_phone_search,
                          objects = c("Contact", "Lead"),
                          fields_scope = "PHONE",
                          fields = c("Id", "FirstName", "LastName"))

## End(Not run)
```

rforcecom.bulkAction *The salesforcer backwards compatible version of the RForcecom function rforcecom.bulkAction*

Description**Soft-deprecated**

This function is a convenience wrapper for submitting bulk API jobs

Usage

```
rforcecom.bulkAction(
  session,
  operation = c("insert", "delete", "upsert", "update", "hardDelete"),
  data,
  object,
  external_id_fieldname = NULL,
  multiBatch = TRUE,
  batchSize = 10000,
  interval_seconds = 5,
  max_attempts = 100,
  verbose = FALSE
)
```

Arguments

session list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by `rforcecom.login`. This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.

operation	a character string defining the type of operation being performed
data	a matrix or data.frame that can be coerced into a CSV file for submitting as batch request
object	a character string defining the target salesforce object that the operation will be performed on
external_id_fieldname	character; string identifying a custom field on the object that has been set as an "External ID" field. This field is used to reference objects during upserts to determine if the record already exists in Salesforce or not.
multiBatch	a boolean value defining whether or not submit data in batches to the API
batchSize	an integer value defining the number of records to submit if multiBatch is true. The max value is 10,000 in accordance with Salesforce limits.
interval_seconds	an integer defining the seconds between attempts to check for job completion
max_attempts	an integer defining then max number attempts to check for job completion before stopping
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df of the results of the bulk job

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
# update Account object
updates <- rforcecom.bulkAction(session,
                                operation = 'update',
                                data = my_data,
                                object = 'Account')

## End(Not run)
```

rforcecom.bulkQuery *The salesforcer backwards compatible version of*
[rforcecom.bulkQuery](#)

Description

Soft-deprecated

Usage

```
rforcecom.bulkQuery(
  session,
  soqlQuery,
  object,
  interval_seconds = 5,
  max_attempts = 100,
  verbose = FALSE
)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
soqlQuery	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
object	character; the name of one Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject__c")
interval_seconds	an integer defining the seconds between attempts to check for job completion
max_attempts	an integer defining then max number attempts to check for job completion before stopping
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A data.frame of the recordset returned by query

rforcecom.create *The salesforcer backwards compatible version of*
[rforcecom.create](#)

Description

Soft-deprecated

Usage

```
rforcecom.create(session, objectName, fields)
```

Arguments

session	list; a list containing "sessionID", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
objectName	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
fields	Field names and values. (ex: Name="CompanyName", Phone="000-000-000")

Value

data.frame containing the id and success indicator of the record creation process

rforcecom.delete	<i>The salesforcer backwards compatible version of rforcecom.delete</i>
------------------	---

Description

Soft-deprecated

Usage

```
rforcecom.delete(session, objectName, id)
```

Arguments

session	list; a list containing "sessionID", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
objectName	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
id	Record ID to delete. (ex: "999x000000xxxxZZZ")

Value

NULL if successful otherwise the function errors out

rforcecom.getObjectDescription

*The salesforcer backwards compatible version of
rforcecom.getObjectDescription*

Description

Soft-deprecated

Usage

```
rforcecom.getObjectDescription(session, objectName)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
objectName	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").

Value

Object descriptions

Note

This function returns a data.frame with one row per field for an object.

rforcecom.getServerTimestamp

*The salesforcer backwards compatible version of
rforcecom.getServerTimestamp*

Description

Soft-deprecated

Usage

```
rforcecom.getServerTimestamp(session)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
---------	---

rforcecom.login	<i>The salesforcer backwards compatible version of rforcecom.login</i>
-----------------	--

Description**Soft-deprecated****Usage**

```
rforcecom.login(
  username,
  password,
  loginURL = "https://login.salesforce.com/",
  apiVersion = "35.0"
)
```

Arguments

username	Your username for login to the Salesforce.com. In many cases, username is your E-mail address.
password	Your password for login to the Salesforce.com. Note: DO NOT FORGET your Security Token. (Ex.) If your password is "Pass1234" and your security token is "XYZXYZXYZXYZ", you should set "Pass1234XYZXYZXYZXYZ".
loginURL	(optional) Login URL. If your environment is sandbox specify (ex:) "https://test.salesforce.com/".
apiVersion	(optional) Version of the REST API and SOAP API that you want to use. (ex:) "35.0" Supported versions from v20.0 and up.

Value

sessionID	Session ID.
instanceURL	Instance URL.
apiVersion	API Version.

rforcecom.query	<i>The salesforcer backwards compatible version of rforcecom.query</i>
-----------------	--

Description**Soft-deprecated****Usage**

```
rforcecom.query(session, sqlQuery, queryAll = FALSE)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
sqlQuery	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
queryAll	logical; indicating if the query recordset should include deleted and archived records (available only when querying Task and Event records)

Value

Result dataset.

rforcecom.retrieve *The salesforcer backwards compatible version of*
[rforcecom.retrieve](#)

Description**Soft-deprecated****Usage**

```
rforcecom.retrieve(
  session,
  objectName,
  fields,
  limit = NULL,
  id = NULL,
  offset = NULL,
  order = NULL,
  inverse = NULL,
  nullsLast = NULL
)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
objectName	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
fields	A List of field names. (ex: c("Id", "Name", "Industry", "AnnualRevenue"))
limit	Number of the records to retrieve. (ex: 5)
id	Record ID to retrieve. (ex: "999x000000xxxxxZZZ")

offset	Specifies the starting row offset. (ex: "100")
order	A list for controlling the order of query results. (ex: "c("Industry","Name")")
inverse	If it is TRUE, the results are ordered in descending order. This parameter works when order parameter has been set. (Default: FALSE)
nullsLast	If it is TRUE, null records list in last. If not null records list in first. This parameter works when order parameter has been set. (Default: FALSE)

rforcecom.search *The salesforcer backwards compatible version of*
[rforcecom.search](#)

Description

Soft-deprecated

Usage

```
rforcecom.search(session, queryString)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
queryString	Query strings to search. (ex: "United", "Electronics")

rforcecom.update *The salesforcer backwards compatible version of*
[rforcecom.update](#)

Description

Soft-deprecated

Usage

```
rforcecom.update(session, objectName, id, fields)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
objectName	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
id	Record ID to update. (ex: "999x000000xxxxxZZZ")
fields	Field names and values. (ex: Name="CompanyName", Phone="000-000-000")

Value

NULL if successful otherwise the function errors out

rforcecom.upsert	<i>The salesforcer backwards compatible version of rforcecom.upsert</i>
------------------	---

Description**Soft-deprecated****Usage**

```
rforcecom.upsert(session, objectName, externalIdField, externalId, fields)
```

Arguments

session	list; a list containing "sessionId", "instanceURL", and "apiVersion" as returned by rforcecom.login . This argument is ignored in all backward compatible calls because the authorization credentials are stored in an environment internal to the salesforcer package, so it is no longer necessary to pass the session in each function call.
objectName	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
externalIdField	An external Key's field name. (ex: "AccountMaster__c")
externalId	An external Key's ID. (ex: "999x000000xxxxxZZZ")
fields	Field names and values. (ex: Name="CompanyName", Phone="000-000-000")

Value

NULL if successful otherwise the function errors out

sf_abort_job_bulk	<i>Abort Bulk API Job</i>
-------------------	---------------------------

Description

This function aborts a Job in the Salesforce Bulk API

Usage

```
sf_abort_job_bulk(
  job_id,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A list of parameters defining the now aborted job

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
job_info <- sf_create_job_bulk('insert', 'Account')
sf_abort_job_bulk(job_info$id)

## End(Not run)
```

sf_analytics_notifications_limits

Return limits of analytics notifications

Description**Experimental****Usage**

```
sf_analytics_notifications_limits(
  source = c("lightningDashboardSubscribe", "lightningReportSubscribe",
    "waveNotification"),
  record_id = NULL
)
```

Arguments

source	character; a vector of character to specify what type of analytics notification to return. Valid values are: lightningDashboardSubscribe Dashboard subscriptions lightningReportSubscribe Report subscriptions waveNotification Einstein Analytics notifications By default, all 3 sources will be returned in the results.
--------	--

record_id character; specify if wanting to return the notification details for a single record. Valid values are either a unique report Id (these reference Ids start with "000") or an Einstein Analytics lens ID (these reference Ids start with "0FK").

Value

list

sf_analytics_notifications_list

List analytics notifications

Description

Experimental

Usage

```
sf_analytics_notifications_list(
  source = c("lightningDashboardSubscribe", "lightningReportSubscribe",
    "waveNotification"),
  owner_id = NULL,
  record_id = NULL
)
```

Arguments

source character; a vector of character to specify what type of analytics notification to return. Valid values are:

lightningDashboardSubscribe Dashboard subscriptions

lightningReportSubscribe Report subscriptions

waveNotification Einstein Analytics notifications

By default, all 3 sources will be returned in the results.

owner_id character; Allows users with Manage Analytics Notifications permission to get notifications for another user with the specified Salesforce Id representing the owner, which is a User record (i.e. the Id will start with "005").

record_id character; specify if wanting to return the notification details for a single record. Valid values are either a unique report Id (these reference Ids start with "000") or an Einstein Analytics lens ID (these reference Ids start with "0FK").

Value

list

`sf_analytics_notification_create`*Create an analytics notification*

Description**Experimental****Usage**`sf_analytics_notification_create(body)`**Arguments**

<code>body</code>	<code>list</code> ; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.
-------------------	---

Value`list`

`sf_analytics_notification_delete`*Delete an analytics notification*

Description**Experimental****Usage**`sf_analytics_notification_delete(notification_id)`**Arguments**

<code>notification_id</code>	character; the Salesforce Id assigned to a created analytics notification. It will start with "0Au".
------------------------------	--

Value`logical`

sf_analytics_notification_describe

Describe an analytics notification

Description

Experimental

Usage

```
sf_analytics_notification_describe(notification_id)
```

Arguments

notification_id

character; the Salesforce Id assigned to a created analytics notification. It will start with "0Au".

Value

list

sf_analytics_notification_update

Update an analytics notification

Description

Experimental

Usage

```
sf_analytics_notification_update(notification_id, body)
```

Arguments

notification_id

character; the Salesforce Id assigned to a created analytics notification. It will start with "0Au".

body

list; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value

list

sf_auth

*Log in to Salesforce***Description****Stable**

Log in using Basic (Username-Password) or OAuth 2.0 authentication. OAuth does not require sharing passwords, but will require authorizing salesforcer as a connected app to view and manage your organization. You will be directed to a web browser, asked to sign in to your Salesforce account, and to grant salesforcer permission to operate on your behalf. By default, these user credentials are cached in a file named `.httr-oauth-salesforcer` in the current working directory.

Usage

```
sf_auth(
  username = NULL,
  password = NULL,
  security_token = NULL,
  login_url = getOption("salesforcer.login_url"),
  token = NULL,
  consumer_key = getOption("salesforcer.consumer_key"),
  consumer_secret = getOption("salesforcer.consumer_secret"),
  callback_url = getOption("salesforcer.callback_url"),
  cache = getOption("salesforcer.httr_oauth_cache"),
  verbose = FALSE
)
```

Arguments

username	Salesforce username, typically an email address
password	Salesforce password
security_token	Salesforce security token. Note: A new security token is generated whenever your password is changed.
login_url	a custom login url; defaults to <code>https://login.salesforce.com</code> . If needing to log into a sandbox or dev environment then provide its login URL (e.g. <code>https://test.salesforce.com</code>)
token	optional; an actual token object or the path to a valid token stored as an <code>.rds</code> file
consumer_key, consumer_secret, callback_url	the "Consumer Key", "Consumer Secret", and "Callback URL" when using a connected app; defaults to the salesforcer connected apps' consumer key, secret, and callback url
cache	logical or character; TRUE means to cache using the default cache file <code>.httr-oauth-salesforcer</code> , FALSE means don't cache. A string means use the specified path as the cache file.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Examples

```
## Not run:
# log in using basic authentication (username-password)
sf_auth(username = "test@gmail.com",
         password = "test_password",
         security_token = "test_token")

# log in using OAuth 2.0
# Via browser or refresh of .htr-oauth-salesforcer
sf_auth()

# log in to a Sandbox environment
# Via browser or refresh of .htr-oauth-salesforcer
sf_auth(login_url = "https://test.salesforce.com")

# Save token and log in using it
saveRDS(salesforcer_state()$token, "token.rds")
sf_auth(token = "token.rds")

## End(Not run)
```

sf_batch_details_bulk *Returning the Details of a Batch in a Bulk API Job*

Description

This function returns detailed (row-by-row) information on an existing batch which has already been submitted to Bulk API Job

Usage

```
sf_batch_details_bulk(
  job_id,
  batch_id,
  api_type = c("Bulk 1.0"),
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
batch_id	character; the Salesforce Id assigned to a submitted batch as returned by sf_create_batches_bulk . It will start with "751".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df, formatted by Salesforce, with information containing the success or failure or certain rows in a submitted batch, unless the operation was query, then it is a data.frame containing the result_id for retrieving the recordset.

Note

This is a legacy function used only with Bulk 1.0.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
job_info <- sf_create_job_bulk(operation = "query", object = "Account")
soql <- "SELECT Id, Name FROM Account LIMIT 10"
batch_query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = soql)
batch_details <- sf_batch_details_bulk(job_id=batch_query_info$jobId,
                                     batch_id=batch_query_info$id)
sf_close_job_bulk(job_info$id)

## End(Not run)
```

sf_batch_status_bulk *Checking the Status of a Batch in a Bulk API Job*

Description

This function checks on and returns status information on an existing batch which has already been submitted to Bulk API Job

Usage

```
sf_batch_status_bulk(
  job_id,
  batch_id,
  api_type = c("Bulk 1.0"),
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
batch_id	character; the Salesforce Id assigned to a submitted batch as returned by sf_create_batches_bulk . It will start with "751".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.

`verbose` logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A `tbl_df` of parameters defining the batch identified by the `batch_id`

Note

This is a legacy function used only with Bulk 1.0.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
job_info <- sf_create_job_bulk(operation = "query", object = "Account")
soql <- "SELECT Id, Name FROM Account LIMIT 10"
batch_query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = soql)
batch_status <- sf_batch_status_bulk(job_id = batch_query_info$jobId,
                                     batch_id = batch_query_info$id)
job_close_ind <- sf_close_job_bulk(job_info$id)
sf_get_job_bulk(job_info$id)

## End(Not run)
```

<code>sf_close_job_bulk</code>	<i>Close Bulk API Job</i>
--------------------------------	---------------------------

Description

This function closes a Job in the Salesforce Bulk API

Usage

```
sf_close_job_bulk(
  job_id,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  verbose = FALSE
)
```

Arguments

`job_id` character; the Salesforce Id assigned to a submitted job as returned by `sf_create_job_bulk`. It will start with "750".

`api_type` character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.

`verbose` logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A list of parameters defining the now closed job

Note

This is a legacy function used only with Bulk 1.0.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
my_query <- "SELECT Id, Name FROM Account LIMIT 10"
job_info <- sf_create_job_bulk(operation='query', object='Account')
query_info <- sf_submit_query_bulk(job_id=job_info$id, soql=my_query)
recordset <- sf_query_result_bulk(job_id = query_info$jobId,
                                batch_id = query_info$id,
                                result_id = result$result)

sf_close_job_bulk(job_info$id)

## End(Not run)
```

sf_control

Auxiliary for Controlling Calls to Salesforce APIs

Description

Typically only used internally by functions when control parameters are passed through via dots (...), but it can be called directly to control the behavior of API calls. This function behaves exactly like `glm.control` for the `glm` function.

Usage

```
sf_control(
  AllOrNoneHeader = list(allOrNone = FALSE),
  AllowFieldTruncationHeader = list(allowFieldTruncation = FALSE),
  AssignmentRuleHeader = list(useDefaultRule = TRUE),
  DisableFeedTrackingHeader = list(disableFeedTracking = FALSE),
  DuplicateRuleHeader = list(allowSave = FALSE, includeRecordDetails = FALSE,
    runAsCurrentUser = TRUE),
  EmailHeader = list(triggerAutoResponseEmail = FALSE, triggerOtherEmail = FALSE,
    triggerUserEmail = TRUE),
  LocaleOptions = list(language = "en_US"),
  MruHeader = list(updateMru = FALSE),
  OwnerChangeOptions = list(options = list(list(execute = TRUE, type =
```

```

"EnforceNewOwnerHasReadAccess"), list(execute = FALSE, type = "KeepAccountTeam"),
  list(execute = FALSE, type = "KeepSalesTeam"), list(execute = FALSE, type =
"KeepSalesTeamGrantCurrentOwnerReadWriteAccess"), list(execute = FALSE, type =
"SendEmail"), list(execute = FALSE, type = "TransferAllOwnedCases"), list(execute =
TRUE, type = "TransferContacts"), list(execute = TRUE, type = "TransferContracts"),
list(execute = FALSE, type = "TransferNotesAndAttachments"), list(execute =
  TRUE, type = "TransferOpenActivities"), list(execute = TRUE, type =
"TransferOrders"), list(execute = FALSE, type = "TransferOtherOpenOpportunities"),
list(execute = FALSE, type = "TransferOwnedClosedOpportunities"), list(execute =
  FALSE, type = "TransferOwnedOpenCases"), list(execute = FALSE, type =
  "TransferOwnedOpenOpportunities"))),
QueryOptions = list(batchSize = 500),
UserTerritoryDeleteHeader = list(transferToUserId = NA),
BatchRetryHeader = list(`Sforce-Disable-Batch-Retry` = FALSE),
LineEndingHeader = list(`Sforce-Line-Ending` = NA),
PKChunkingHeader = list(`Sforce-Enable-PKChunking` = FALSE),
api_type = NULL,
operation = NULL
)

```

Arguments

AllOrNoneHeader

list; containing the allOrNone element with a value of TRUE or FALSE. This control specifies whether a call rolls back all changes unless all records are processed successfully. This control is available in SOAP, REST, and Metadata APIs for the following functions: [sf_create](#), [sf_delete](#), [sf_update](#), [sf_upsert](#), [sf_create_metadata](#), [sf_delete_metadata](#), [sf_update_metadata](#), [sf_upsert_metadata](#). For more information, read the Salesforce documentation [here](#).

AllowFieldTruncationHeader

list; containing the allowFieldTruncation element with a value of TRUE or FALSE. This control specifies the truncation behavior for some field types in SOAP API version 15.0 and later for the following functions: [sf_create](#), [sf_update](#), [sf_upsert](#). For more information, read the Salesforce documentation [here](#).

AssignmentRuleHeader

list; containing the useDefaultRule element with a value of TRUE or FALSE or the assignmentRuleId element. This control specifies the assignment rule to use when creating or updating an Account, Case, or Lead for the following functions: [sf_create](#), [sf_update](#), [sf_upsert](#). For more information, read the Salesforce documentation [here](#).

DisableFeedTrackingHeader

list; containing the disableFeedTracking element with a value of TRUE or FALSE. This control specifies whether the changes made in the current call are tracked in feeds for SOAP API calls made with the following functions: [sf_create](#), [sf_delete](#), [sf_update](#), [sf_upsert](#). For more information, read the Salesforce documentation [here](#).

DuplicateRuleHeader

list; containing the allowSave, includeRecordDetails, and runAsCurrentUser elements each with a value of TRUE or FALSE. This control specifies how duplicate rules should be applied when using the following functions: [sf_create](#),

- [sf_update](#), [sf_upsert](#). For more information, read the Salesforce documentation [here](#).
- EmailHeader** list; containing the `triggerAutoResponseEmail`, `triggerOtherEmail`, and `triggerUserEmail` elements each with a value of TRUE or FALSE. This control determines if an email notification should be sent when a request is processed by SOAP API calls made with the following functions: [sf_create](#), [sf_delete](#), [sf_update](#), [sf_upsert](#), [sf_reset_password](#). For more information, read the Salesforce documentation [here](#).
- LocaleOptions** list; containing the `language` element. This control specifies the language of the labels returned by the [sf_describe_objects](#) function using the SOAP API. The value must be a valid user locale (language and country), such as `de_DE` or `en_GB`. For more information, read the Salesforce documentation [here](#). The list of valid user locales is available [here](#).
- MruHeader** list; containing the `updateMru` element with a value of TRUE or FALSE. This control indicates whether to update the list of most recently used items (TRUE) or not (FALSE) in the Recent Items section of the sidebar in the Salesforce user interface. This works for SOAP API calls made with the following functions: [sf_create](#), [sf_update](#), [sf_upsert](#), [sf_retrieve](#), [sf_query](#). For more information, read the Salesforce documentation [here](#).
- OwnerChangeOptions** list; containing the `options` element. This control specifies the details of ownership of attachments and notes when a record's owner is changed. This works for SOAP API calls made with the following functions: [sf_update](#), [sf_upsert](#). For more information, read the Salesforce documentation [here](#).
- QueryOptions** list; containing the `batchSize` element. This control specifies the batch size for query results. This works for SOAP or REST API calls made with the following functions: [sf_query](#), [sf_retrieve](#). For more information, read the Salesforce documentation [here](#).
- UserTerritoryDeleteHeader** list; containing the `transferToUserId` element. This control specifies a user to whom open opportunities are assigned when the current owner is removed from a territory. This works for the [sf_delete](#) function using the SOAP API. For more information, read the Salesforce documentation [here](#).
- BatchRetryHeader** list; containing the `Sforce-Disable-Batch-Retry` element. When you create a bulk job, the Batch Retry control lets you disable retries for unfinished batches included in the job. This works for most operations run through the Bulk 1.0 API (e.g. `sf_create(., api_type = "Bulk 1.0")`) or creating a Bulk 1.0 job with [sf_create_job_bulk](#). For more information, read the Salesforce documentation [here](#).
- LineEndingHeader** list; containing the `Sforce-Line-Ending` element. When you're creating a bulk upload job, the Line Ending control lets you specify whether line endings are read as line feeds (LFs) or as carriage returns and line feeds (CRLFs) for fields of type Text Area and Text Area (Long). This works for most operations run through the Bulk APIs and/or creating a Bulk job from scratch with [sf_create_job_bulk](#). However, note that as of `readr v1.3.1` all CSV files end with the line feed character ("`\n`") regardless of the operating system. So it is usually best to not specify this argument. For more information, read the Salesforce documentation [here](#).

PKChunkingHeader list; containing the Sforce-Enable-PKChunking element. Use the PK Chunking control to enable automatic primary key (PK) chunking for a bulk query job. This works for queries run through the Bulk 1.0 API either via `sf_query(. , api_type = "Bulk 1.0")` or `sf_query_bulk`. For more information, read the Salesforce documentation [here](#).

api_type character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.

operation character; a string defining the type of operation being performed (e.g. "insert", "update", "upsert", "delete", "hardDelete", "query", "queryall").

Examples

```
## Not run:
this_control <- sf_control(DuplicateRuleHeader=list(allowSave=TRUE,
                                                  includeRecordDetails=FALSE,
                                                  runAsCurrentUser=TRUE))

new_contact <- c(FirstName = "Test", LastName = "Contact-Create")
new_record <- sf_create(new_contact, "Contact", control = this_control)

# specifying the controls directly and are picked up by dots
new_record <- sf_create(new_contact, "Contact",
                      DuplicateRuleHeader = list(allowSave=TRUE,
                                                  includeRecordDetails=FALSE,
                                                  runAsCurrentUser=TRUE))

## End(Not run)
```

sf_convert_lead	<i>Convert Leads</i>
-----------------	----------------------

Description

Experimental

Converts Leads each into an Account, Contact, as well as (optionally) an Opportunity.

Usage

```
sf_convert_lead(
  input_data,
  guess_types = TRUE,
  api_type = c("SOAP"),
  control = list(...),
  ...,
  verbose = FALSE
)
```

Arguments

input_data named vector, matrix, data.frame, or tbl_df; data can be coerced into a data.frame. See the details below on how format your input data to control things like whether an opportunity will be created, an email will be sent to the new owner, and other control options.

guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control.
...	arguments passed to sf_control
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Details

When converting leads owned by a queue, the owner must be specified. This is because accounts and contacts cannot be owned by a queue. Below is a complete list of options to control the conversion process. Include a column in your input data to specify an option for each record. For example, if you want opportunities to not be created for each converted lead then add a column in your input data called doNotCreateOpportunity and set its value to TRUE. The default is FALSE which creates opportunities. The order of columns in the input data does not matter, just that the names match (case-insensitive).

leadId ID of the Lead to convert. Required.

convertedStatus Valid LeadStatus value for a converted lead. Required.

accountId Id of the Account into which the lead will be merged. Required only when updating an existing account, including person accounts. If no accountId is specified, then the API creates a new account.

contactId Id of the Contact into which the lead will be merged (this contact must be associated with the specified accountId, and an accountId must be specified). Required only when updating an existing contact. If no contactId is specified, then the API creates a new contact that is implicitly associated with the Account.

ownerId Specifies the Id of the person to own any newly created account, contact, and opportunity. If the client application does not specify this value, then the owner of the new object will be the owner of the lead.

opportunityId The Id of an existing opportunity to relate to the lead. The opportunityId and opportunityName arguments are mutually exclusive. Specifying a value for both results in an error. If doNotCreateOpportunity argument is TRUE, then no Opportunity is created and this field must be left blank; otherwise, an error is returned.

doNotCreateOpportunity Specifies whether to create an Opportunity during lead conversion (FALSE, the default) or not (TRUE). Set this flag to TRUE only if you do not want to create an opportunity from the lead. An opportunity is created by default.

opportunityName Name of the opportunity to create. If no name is specified, then this value defaults to the company name of the lead. The maximum length of this field is 80 characters. The opportunityId and opportunityName arguments are mutually exclusive. Specifying a value for both results in an error. If doNotCreateOpportunity argument is TRUE, then no Opportunity is created and this field must be left blank; otherwise, an error is returned.

overwriteLeadSource Specifies whether to overwrite the LeadSource field on the target Contact object with the contents of the LeadSource field in the source Lead object (TRUE), or not (FALSE, the default). To set this field to TRUE, the client application must specify a contactId for the target contact.

sendNotificationEmail Specifies whether to send a notification email to the owner specified in the ownerId (TRUE) or not (FALSE, the default).

Salesforce Documentation

Value

tbl_df with details of the converted record

Examples

```
## Not run:
# create a new lead at Grand Hotels & Resorts Ltd
new_lead <- tibble(FirstName = "Test", LastName = "Prospect",
                  Company = "Grand Hotels & Resorts Ltd")
rec <- sf_create(new_lead, "Lead")

# find the Id of matching account to link to
acct_id <- sf_query("SELECT Id from Account WHERE name = 'Grand Hotels & Resorts Ltd' LIMIT 1")

# create the row(s) for the leads to convert
to_convert <- tibble(leadId = rec$id,
                    convertedStatus = "Closed - Converted",
                    accountId = acct_id$id)
converted_lead <- sf_convert_lead(to_convert)

## End(Not run)
```

sf_copy_report

Copy a report

Description

Experimental

Creates a copy of a custom, standard, or public report by sending a POST request to the Report List resource.

Usage

```
sf_copy_report(report_id, name = NULL, verbose = FALSE)
```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
name	character; a user-specified name for the newly cloned report. If left NULL, then the new name will be the same name as the report being cloned appended with " = Copy" that is prefixed with a number if that name is not unique. It is highly recommended to provide a name, if possible.

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list representing the newly cloned report with up to 4 properties that describe the report:

attributes Report type along with the URL to retrieve common objects and joined metadata.

reportMetadata Unique identifiers for groupings and summaries.

reportTypeMetadata Fields in each section of a report type plus filter information for those fields.

reportExtendedMetadata Additional information about summaries and groupings.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# only the 200 most recently viewed reports
most_recent_reports <- sf_report_list()

# all possible reports in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")

# id of the report to copy
this_report_id <- all_reports$Id[1]

# not providing a name appends " - Copy" to the name of the report being cloned
report_details <- sf_copy_report(this_report_id)

# example of providing new name to the copied report
report_details <- sf_copy_report(this_report_id, "My New Copy of Report ABC")

## End(Not run)
```

sf_create

Create Records

Description

Maturing

Adds one or more new records to your organization's data.

Usage

```
sf_create(
  input_data,
  object_name,
  api_type = c("SOAP", "REST", "Bulk 1.0", "Bulk 2.0"),
  guess_types = TRUE,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```

Arguments

input_data	named vector, matrix, data.frame, or tbl_df; data can be coerced into a data.frame
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control or further downstream to sf_bulk_operation
all_or_none	logical; allows a call to roll back all changes unless all records are processed successfully.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records with success indicator

Note

Because the SOAP and REST calls chunk data into batches of 200 records the AllOrNoneHeader will only apply to the success or failure of every batch of records and not all records submitted to the function.

Examples

```
## Not run:
n <- 2
```

```

new_contacts <- tibble(FirstName = rep("Test", n),
                      LastName = paste0("Contact", 1:n))
new_recs1 <- sf_create(new_contacts, object_name = "Contact")

# add control to allow the creation of records that violate a duplicate rules
new_recs2 <- sf_create(new_contacts, object_name = "Contact",
                      DuplicateRuleHeader=list(allowSave=TRUE,
                                              includeRecordDetails=FALSE,
                                              runAsCurrentUser=TRUE))

# example using the Bulk 1.0 API to insert records
new_recs3 <- sf_create(new_contacts, object_name = "Contact",
                      api_type = "Bulk 1.0")

## End(Not run)

```

sf_create_attachment *Create Attachments*

Description

Experimental

This function will allow you to create attachments (and other blob data, such as Documents) by supplying file paths (absolute or relative) to media that you would like to upload to Salesforce along with accompanying metadata, such as a Description, Keywords, ParentId, FolderId, etc.

Usage

```

sf_create_attachment(
  input_data,
  object_name = "Attachment",
  api_type = c("SOAP", "REST", "Bulk 1.0", "Bulk 2.0"),
  control = list(...),
  ...,
  verbose = FALSE
)

```

Arguments

input_data	named vector, matrix, data.frame, or tbl_df; data can be coerced into a data.frame. The input must contain a column entitled 'Body' with an absolute or relative file path (unless creating a Document using a Url) along with other required fields depending on the object. See the details below for the other required fields when creating Attachments and Documents.
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject_c").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .

... arguments passed to `sf_control` or further downstream to `sf_bulk_operation`

`verbose` logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

`tbl_df` with details of the created records

Note

The length of any file name can't exceed 512 bytes (per Bulk 1.0 API). The SOAP API create call restricts these files to a maximum size of 25 MB. For a file attached to a Solution, the limit is 1.5 MB. The maximum email attachment size is 3 MB. You can only create or update documents to a maximum size of 5 MB. The REST API allows you to insert or update blob data limited to 50 MB of text data or 37.5 MB of base64-encoded data.

References

https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce_api_objects_attachment.htm

https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce_api_objects_document.htm

https://developer.salesforce.com/docs/atlas.en-us.api_rest.meta/api_rest/dome_subject_insert_update_blob.htm

Examples

```
## Not run:
# upload two PDFs from working directory to a particular record as Attachments
file_path1 <- here::here("doc1.pdf")
file_path2 <- here::here("doc2.pdf")
parent_record_id <- "0033s00000zLbgs"
attachment_details <- tibble(Body = c(file_path1, file_path2),
                             ParentId = rep(parent_record_id, 2))
result <- sf_create_attachment(attachment_details)

# the function supports inserting all blob content, just update the
# object_name argument to add the PDF as a Document instead of an Attachment
document_details <- tibble(Name = "doc1.pdf",
                           Description = "Test Document 1",
                           Body = file_path1,
                           FolderId = "0016A000001EgIwQAK",
                           Keywords = "example,test,document")
result <- sf_create_attachment(document_details, object_name = "Document")

# the Bulk API can be invoked using api_type="Bulk 1.0" which will automatically
# take a data.frame of Attachment info and create a ZIP file with CSV manifest
# that is required for that API
result <- sf_create_attachment(attachment_details, api_type="Bulk 1.0")

## End(Not run)
```

 sf_create_batches_bulk

Add Batches to a Bulk API Job

Description

This function takes a data frame and submits it in batches to a an already existing Bulk API Job by chunking into temp files

Usage

```
sf_create_batches_bulk(
  job_id,
  input_data,
  batch_size = NULL,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
input_data	named vector, matrix, data.frame, or tbl_df; data can be coerced into CSV file for submitting as batch request
batch_size	integer; the number of individual records to be included in a single batch uploaded to the Bulk APIs (1.0 or 2.0).
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

a tbl_df containing details of each batch

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
# NOTE THAT YOU MUST FIRST CREATE AN EXTERNAL ID FIELD CALLED My_External_Id
# BEFORE RUNNING THIS EXAMPLE
# inserting 2 records
my_data <- tibble(Name=c('New Record 1', 'New Record 2'),
                  My_External_Id__c=c('11111', '22222'))
job_info <- sf_create_job_bulk(operation='insert',
```

```

                                object='Account')
batches_ind <- sf_create_batches_bulk(job_id = job_info$id,
                                    input_data = my_data)
# upserting 3 records
my_data2 <- tibble(My_External_Id__c=c('11111','22222', '99999'),
                  Name=c('Updated_Name1', 'Updated_Name2', 'Upserted_Record'))
job_info <- sf_create_job_bulk(operation='upsert',
                              externalIdFieldName='My_External_Id__c',
                              object='Account')
batches_ind <- sf_create_batches_bulk(job_id = job_info$id,
                                    input_data = my_data2)
sf_get_job_bulk(job_info$id)

## End(Not run)

```

sf_create_job_bulk *Create Bulk API Job*

Description

This function initializes a Job in the Salesforce Bulk API

Usage

```

sf_create_job_bulk(
  operation = c("insert", "delete", "upsert", "update", "hardDelete", "query",
               "queryall"),
  object_name,
  soql = NULL,
  external_id_fieldname = NULL,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  content_type = c("CSV", "ZIP_CSV", "ZIP_XML", "ZIP_JSON"),
  concurrency_mode = c("Parallel", "Serial"),
  column_delimiter = c("COMMA", "TAB", "PIPE", "SEMICOLON", "CARET", "BACKQUOTE"),
  control = list(...),
  ...,
  line_ending = deprecated(),
  verbose = FALSE
)

```

Arguments

operation	character; a string defining the type of operation being performed (e.g. "insert", "update", "upsert", "delete", "hardDelete", "query", "queryall").
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
soql	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
external_id_fieldname	character; string identifying a custom field on the object that has been set as an "External ID" field. This field is used to reference objects during upserts to determine if the record already exists in Salesforce or not.

api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
content_type	character; being one of 'CSV', 'ZIP_CSV', 'ZIP_XML', or 'ZIP_JSON' to indicate the type of data being passed to the Bulk APIs. For the Bulk 2.0 API the only valid value (and the default) is 'CSV'.
concurrency_mode	character; either "Parallel" or "Serial" that specifies whether batches should be completed sequentially or in parallel. Use "Serial" only if lock contentions persist with in "Parallel" mode. Note: this argument is only used in the Bulk 1.0 API and will be ignored in calls using the Bulk 2.0 API.
column_delimiter	character; indicating the column delimiter used for CSV job data. The default value is COMMA. Valid values are: "BACKQUOTE", "CARET", "COMMA", "PIPE", "SEMICOLON", and "TAB", but this package only accepts and uses "COMMA". Also, note that this argument is only used in the Bulk 2.0 API and will be ignored in calls using the Bulk 1.0 API.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
line_ending	character; indicating the The line ending used for CSV job data, marking the end of a data row. The default is NULL and determined by the operating system using "CRLF" for Windows machines and "LF" for Unix machines. NOTE: As of readr v1.3.1 all CSV files end with the line feed character ("\n") regardless of the operating system. So it is usually best to not specify this argument.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df parameters defining the created job, including id

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
# insert into Account
job_info <- sf_create_job_bulk(operation='insert', object_name='Account')

# delete from Account
job_info <- sf_create_job_bulk(operation='delete', object_name='Account')

# update into Account
job_info <- sf_create_job_bulk(operation='update', object_name='Account')

# upsert into Account
job_info <- sf_create_job_bulk(operation='upsert',
```

```

                                externalIdFieldName='My_External_Id__c',
                                object_name='Account')
# insert attachments
job_info <- sf_create_job_bulk(operation='insert', object_name='Attachment')

# query leads
job_info <- sf_create_job_bulk(operation='query', object_name='Lead')

## End(Not run)

```

sf_create_metadata *Create Object or Field Metadata in Salesforce*

Description

Experimental

This function takes a list of Metadata components and sends them to Salesforce for creation

Usage

```

sf_create_metadata(
  metadata_type,
  metadata,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)

```

Arguments

metadata_type	character; string on what type of metadata to create.
metadata	list; metadata components to be created formatted as XML before being sent via API.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
all_or_none	logical; allows a call to roll back all changes unless all records are processed successfully.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df containing the creation result for each submitted metadata component


```
## End(Not run)
```

```
sf_create_report      Create a report
```

Description

Experimental

Create a new report using a POST request. To create a report, you only have to specify a name and report type to create a new report; all other metadata properties are optional. It is recommended to use the metadata from existing reports pulled using [sf_describe_report](#) as a guide on how to specify the properties of a new report.

Usage

```
sf_create_report(
  name = NULL,
  report_type = NULL,
  report_metadata = NULL,
  verbose = FALSE
)
```

Arguments

<code>name</code>	character; a user-specified name for the report.
<code>report_type</code>	character; a character representing the type of report to retrieve the metadata information on. A list of valid report types that can be created using this function will be available in the <code>reportTypes.type</code> column of results returned by sf_list_report_types . (e.g. AccountList, AccountContactRole, OpportunityHistory, etc.)
<code>report_metadata</code>	list; a list representing the properties to create the report with. The names of the list must be one or more of the 3 accepted metadata properties: <code>reportMetadata</code> , <code>reportTypeMetadata</code> , <code>reportExtendedMetadata</code> .
<code>verbose</code>	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to <code>TRUE</code> the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list representing the newly cloned report with up to 4 properties that describe the report:

attributes Report type along with the URL to retrieve common objects and joined metadata.

reportMetadata Unique identifiers for groupings and summaries.

reportTypeMetadata Fields in each section of a report type plus filter information for those fields.

reportExtendedMetadata Additional information about summaries and groupings.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# creating a blank report using just the name and type
my_new_report <- sf_create_report("Top Accounts Report", "AccountList")

# creating a report with additional metadata by grabbing an existing report
# and modifying it slightly (only the name in this case)

# first, grab all possible reports in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")

# second, get the id of the report to copy
this_report_id <- all_reports$Id[1]

# third, pull down its metadata and update the name
report_describe_list <- sf_describe_report(this_report_id)
report_describe_list$reportMetadata$name <- "TEST API Report Creation"

# fourth, create the report by passing the metadata
my_new_report <- sf_create_report(report_metadata=report_describe_list)

## End(Not run)
```

sf_dashboards_list *List dashboards*

Description**Experimental**

Returns a list of recently used dashboards

Usage

```
sf_dashboards_list(as_tbl = TRUE, verbose = FALSE)
```

Arguments

as_tbl	logical; an indicator of whether to convert the parsed JSON into a tbl_df.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list or tbl_df depending on the value of argument as_tbl

See Also

- [Salesforce Documentation](#)
- [Salesforce Example](#)

 sf_dashboard_components_describe

Describe dashboard components

Description**Experimental****Usage**

```
sf_dashboard_components_describe(dashboard_id, component_ids = c(character(0)))
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

component_ids character; a vector of Unique Salesforce Ids of a dashboard component.

Value

list

sf_dashboard_copy

Copy a dashboard

Description**Experimental****Usage**

```
sf_dashboard_copy(dashboard_id, report_folder_id)
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

report_folder_id character; the Salesforce Id assigned to a created analytics folder (it will start with "00I").

Value

list

sf_dashboard_delete *Delete a dashboard*

Description

Experimental

Usage

```
sf_dashboard_delete(dashboard_id)
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

Value

logical

sf_dashboard_describe *Describe a dashboard*

Description

Experimental

Returns metadata for the specified dashboard, including dashboard components, filters, layout, and the running user.

Usage

```
sf_dashboard_describe(dashboard_id, as_tbl = TRUE, verbose = FALSE)
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

as_tbl logical; an indicator of whether to convert the parsed JSON into a tbl_df.

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list or tbl_df depending on the value of argument as_tbl

See Also

- [Salesforce Documentation](#)
- [Salesforce Example](#)

`sf_dashboard_filter_operators_list`*List dashboard filter operators*

Description**Experimental****Usage**`sf_dashboard_filter_operators_list()`**Value**`list`

`sf_dashboard_filter_options_analysis`*Get an analysis of the filter options for a dashboard*

Description**Experimental****Usage**

```
sf_dashboard_filter_options_analysis(  
    dashboard_id,  
    filter_columns = list(),  
    options = list()  
)
```

Arguments

- | | |
|-----------------------------|--|
| <code>dashboard_id</code> | character; the Salesforce Id assigned to a created dashboard. It will start with "01Z". |
| <code>filter_columns</code> | list; a list of fields from the source report which you check filter values against. Each object in the array has these properties:... |
| <code>options</code> | list; a list of objects describing a dashboard filter. Each object has these properties:... |

Value`list`

sf_dashboard_refresh *Refresh an existing dashboard*

Description

Experimental

Usage

```
sf_dashboard_refresh(dashboard_id, dashboard_filters = c(character(0)))
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

dashboard_filters character; Dashboard results are always unfiltered, unless you have specified filter parameters in your request. Use this argument to include up to three optional filter Ids. You can obtain the list of defined filter Ids from the dashboard metadata using [sf_dashboard_describe](#).

Value

list

sf_dashboard_results *Get the results of an existing dashboard*

Description

Experimental

This function allows for pulling specific data from a dashboard. There is a convenience function ([sf_get_dashboard_data](#)) to get the dashboard data in a tabular format returned as a tbl_df.

Usage

```
sf_dashboard_results(  
  dashboard_id,  
  running_user = NULL,  
  dashboard_filters = c(character(0))  
)
```

Arguments

dashboard_id	character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".
running_user	character; the Salesforce Id that should be assigned as the runner of the job. This should be from a User record (i.e. the Id will start with "005"). Note that this will throw an error if the User is not allowed to change the running User, or if the selected running User is invalid.
dashboard_filters	character; Dashboard results are always unfiltered, unless you have specified filter parameters in your request. Use this argument to include up to three optional filter Ids. You can obtain the list of defined filter Ids from the dashboard metadata using sf_dashboard_describe .

Value

tbl_df

sf_dashboard_set_sticky_filter

Set a sticky dashboard filter

Description**Experimental**

Set a default filter value which gets applied to a dashboard when you open it. The default filter value you specify only applies to you (other people won't see it when they open the dashboard). If you change the filter value while viewing the dashboard, then the filter value you set in the user interface overwrites the value you set via the API. To set sticky filters for a dashboard, `canUseStickyFilter` must equal `true`. Saves any dashboard filters set in the request so that they're also set the next time you open the dashboard. NOTE: You can only set dashboard filters for yourself, not for other users.

Usage

```
sf_dashboard_set_sticky_filter(
  dashboard_id,
  dashboard_filters = c(character(0))
)
```

Arguments

dashboard_id	character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".
dashboard_filters	character; Dashboard results are always unfiltered, unless you have specified filter parameters in your request. Use this argument to include up to three optional filter Ids. You can obtain the list of defined filter Ids from the dashboard metadata using sf_dashboard_describe .

Value

list

sf_dashboard_status *Get the status of a dashboard*

Description

Experimental

Usage

```
sf_dashboard_status(  
  dashboard_id,  
  running_user = NULL,  
  dashboard_filters = c(character(0))  
)
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

running_user character; the Salesforce Id that should be assigned as the runner of the job. This should be from a User record (i.e. the Id will start with "005"). Note that this will throw an error if the User is not allowed to change the running User, or if the selected running User is invalid.

dashboard_filters character; Dashboard results are always unfiltered, unless you have specified filter parameters in your request. Use this argument to include up to three optional filter Ids. You can obtain the list of defined filter Ids from the dashboard metadata using [sf_dashboard_describe](#).

Value

list

sf_dashboard_update *Update a dashboard*

Description

Experimental

Usage

```
sf_dashboard_update(dashboard_id, body)
```

Arguments

dashboard_id	character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".
body	list; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value

list

sf_delete

*Delete Records***Description****Maturing**

Deletes one or more records from your organization's data.

Usage

```
sf_delete(
  ids,
  object_name = NULL,
  api_type = c("REST", "SOAP", "Bulk 1.0", "Bulk 2.0"),
  guess_types = TRUE,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```

Arguments

ids	vector, matrix, data.frame, or tbl_df; if not a vector, there must be a column called Id (case-insensitive) that can be passed in the request
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .

... arguments passed to [sf_control](#) or further downstream to [sf_bulk_operation](#)

all_or_none logical; allows a call to roll back all changes unless all records are processed successfully.

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records with success indicator

Note

Because the SOAP and REST calls chunk data into batches of 200 records the AllOrNoneHeader will only apply to the success or failure of every batch of records and not all records submitted to the function.

Examples

```
## Not run:
n <- 3
new_contacts <- tibble(FirstName = rep("Test", n),
                      LastName = paste0("Contact", 1:n))
new_records <- sf_create(new_contacts, object_name="Contact")
deleted_first <- sf_delete(new_records$id[1], object_name = "Contact")

# add the control to do an "All or None" deletion of the remaining records
deleted_rest <- sf_delete(new_records$id[2:3], object_name = "Contact",
                        AllOrNoneHeader = list(allOrNone = TRUE))

## End(Not run)
```

sf_delete_job_bulk *Delete Bulk API Job*

Description

Delete Bulk API Job

Usage

```
sf_delete_job_bulk(job_id, api_type = c("Bulk 2.0"), verbose = FALSE)
```

Arguments

job_id character; the Salesforce Id assigned to a submitted job as returned by [sf_create_job_bulk](#). It will start with "750".

api_type character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Examples

```
## Not run:
job_info <- sf_create_job_bulk('insert', 'Account')
sf_abort_job_bulk(job_info$id)
sf_delete_job_bulk(job_info$id)

## End(Not run)
```

sf_delete_metadata *Delete Object or Field Metadata in Salesforce*

Description**Experimental**

This function takes a request of named elements in Salesforce and deletes them.

Usage

```
sf_delete_metadata(
  metadata_type,
  object_names,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```

Arguments

metadata_type	character; string on what type of metadata to create.
object_names	a character vector of names that we wish to read metadata for
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
all_or_none	logical; allows a call to roll back all changes unless all records are processed successfully.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A data.frame containing the creation result for each submitted metadata component

See Also

[sf_list_metadata](#), [Salesforce Documentation](#)

Examples

```
## Not run:
metadata_info <- sf_delete_metadata(metadata_type = 'CustomObject',
                                   object_names = c('Custom_Account25__c'))

## End(Not run)
```

sf_delete_report	<i>Delete a report</i>
------------------	------------------------

Description

Experimental

Delete a report by sending a DELETE request to the Report resource. Deleted reports are moved to the Recycle Bin.

Usage

```
sf_delete_report(report_id, verbose = FALSE)
```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

logical indicating whether the report was deleted. This function will return TRUE if successful in deleting the report.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# first, grab all possible reports in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")

# second, get the id of the report to delete
this_report_id <- all_reports$Id[1]

# third, delete that report using its Id
success <- sf_delete_report(this_report_id)

## End(Not run)
```

`sf_delete_report_instance`*Delete a report instance*

Description

Experimental

If the given report instance has a status of Success or Error, delete the report instance.

Usage

```
sf_delete_report_instance(report_id, report_instance_id, verbose = FALSE)
```

Arguments

<code>report_id</code>	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
<code>report_instance_id</code>	character; the Salesforce Id assigned to a created analytics report instance (an asynchronous run). It will start with "0LG".
<code>verbose</code>	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

logical indicating whether the report instance was deleted. This function will return TRUE if successful in deleting the report instance.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# first, get the Id of a report in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")
this_report_id <- all_reports$Id[1]

# second, ensure that report has been executed at least once asynchronously
results <- sf_execute_report(this_report_id, async=TRUE)

# check if that report has succeeded, if so (or if it errored), then delete
instance_list <- sf_list_report_instances(this_report_id)
instance_status <- instance_list[[which(instance_list$id == results$id), "status"]]

## End(Not run)
```

sf_describe_metadata *Describe the Metadata in an Organization*

Description

Experimental

This function returns details about the organization metadata

Usage

```
sf_describe_metadata(verbose = FALSE)
```

Arguments

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A `tbl_df`

References

https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/

Examples

```
## Not run:
# describe metadata for the organization associated with the session
metadata_info <- sf_describe_metadata()

## End(Not run)
```

sf_describe_objects *SObject Basic Information*

Description

Maturing

Describes the individual metadata for the specified object.

Usage

```
sf_describe_objects(
  object_names,
  api_type = c("SOAP", "REST"),
  control = list(...),
  ...,
  verbose = FALSE
)
```

Arguments

object_names	character; the name of one or more Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list

See Also

[REST API Documentation](#), [REST API Example](#)

Examples

```
## Not run:
account_metadata <- sf_describe_objects("Account")
account_metadata_SOAP <- sf_describe_objects("Account", api_type="SOAP")
multiple_objs_metadata <- sf_describe_objects(c("Contact", "Lead"))

account_metadata_REST <- sf_describe_objects("Account", api_type="REST")

## End(Not run)
```

sf_describe_object_fields

Describe Object Fields

Description**Maturing**

This function takes the name of an object in Salesforce and returns a description of the fields on that object by returning a tibble with one row per field.

Usage

```
sf_describe_object_fields(object_name)
```

Arguments

object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
-------------	---

Value

A tibble containing one row per field for the requested object.

Note

The tibble only contains the fields that the user can view, as defined by the user's field-level security settings.

Examples

```
## Not run:
acct_fields <- sf_describe_object_fields('Account')

## End(Not run)
```

sf_describe_report *Describe a report*

Description**Experimental**

Retrieves report, report type, and related metadata for a tabular, summary, or matrix report.

Usage

```
sf_describe_report(report_id, verbose = FALSE)
```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Details

- Report metadata gives information about the report as a whole. Tells you such things as, the report type, format, the fields that are summaries, row or column groupings, filters saved to the report, and so on.
- Report type metadata tells you about all the fields available in the report type, those you can filter, and by what filter criteria.
- Report extended metadata tells you about the fields that are summaries, groupings, and contain record details in the report.

Value

list containing up to 4 properties that describe the report:

attributes Report type along with the URL to retrieve common objects and joined metadata.

reportMetadata Unique identifiers for groupings and summaries.

reportTypeMetadata Fields in each section of a report type plus filter information for those fields.

reportExtendedMetadata Additional information about summaries and groupings.

See Also

[Salesforce Documentation](#), [Salesforce Example](#)

Examples

```
## Not run:
# pull a list of up to 200 recent reports
# (for a full list you must use sf_query on the Report object)
reports <- sf_list_reports()

# id for the first report
reports[[1,"id"]]

# describe that report type
described_report <- sf_describe_report_type(unique_report_types[[1,"id"]])

## End(Not run)
```

sf_describe_report_type

Describe a report type

Description**Experimental**

Return metadata about a report type.

Usage

```
sf_describe_report_type(report_type, verbose = FALSE)
```

Arguments

report_type character; a character representing the type of report to retrieve the meta-data information on. A list of valid report types that can be described using this function will be available in the reportTypes.type column of results returned [sf_list_report_types](#). (e.g. AccountList, AccountContactRole, OpportunityHistory, etc.)

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list containing up to 4 properties that describe the report:

attributes Report type along with the URL to retrieve common objects and joined metadata.

reportMetadata Unique identifiers for groupings and summaries.

reportTypeMetadata Fields in each section of a report type plus filter information for those fields.

reportExtendedMetadata Additional information about summaries and groupings.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
reports <- sf_list_report_types()
unique_report_types <- reports %>% distinct(reportTypes.type)

# first unique report type
unique_report_types[[1,1]]

# describe that report type
described_report <- sf_describe_report_type(unique_report_types[[1,1]])

## End(Not run)
```

sf_download_attachment

Download an Attachment

Description**Maturing**

This function will allow you to download an attachment to disk based on the attachment body, file name, and path.

Usage

```
sf_download_attachment(body, name, path = ".")
```

Arguments

body	character; a URL path to the body of the attachment in Salesforce, typically retrieved via query on the Attachment object
name	character; the name of the file you would like to save the content to
path	character; a directory path where to create file, defaults to the current directory.

Examples

```
## Not run:
queried_attachments <- sf_query("SELECT Body, Name
                                FROM Attachment
                                WHERE ParentId = '0016A0000035mJ5'")
mapply(sf_download_attachment, queried_attachments$Body, queried_attachments$Name)

## End(Not run)
```

sf_empty_recycle_bin *Empty Recycle Bin*

Description**Experimental**

Delete records from the recycle bin immediately and permanently.

Usage

```
sf_empty_recycle_bin(ids, api_type = c("SOAP"), verbose = FALSE)
```

Arguments

ids	vector, matrix, data.frame, or tbl_df; if not a vector, there must be a column called Id (case-insensitive) that can be passed in the request
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Details

When emptying recycle bins, consider the following rules and guidelines:

- The logged in user can delete any record that he or she can query in their Recycle Bin, or the recycle bins of any subordinates. If the logged in user has Modify All Data permission, he or she can query and delete records from any Recycle Bin in the organization.
- Do not include the IDs of any records that will be cascade deleted, or an error will occur.
- Once records are deleted using this call, they cannot be undeleted using `link{sf_undelete}`
- After records are deleted from the Recycle Bin using this call, they can be queried using the `queryall` argument for some time. Typically this time is 24 hours, but may be shorter or longer.

Value

tbl_df of records with success indicator

References

https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce_api_calls_emptyrecyclebin.htm

Examples

```
## Not run:
new_contact <- c(FirstName = "Test", LastName = "Contact")
new_records <- sf_create(new_contact, object_name = "Contact")
delete <- sf_delete(new_records$id[1],
                   AllOrNoneHeader = list(allOrNone = TRUE))
is_deleted <- sf_query(sprintf("SELECT Id, IsDeleted FROM Contact WHERE Id='%s'",
                              new_records$id[1]),
                      queryall = TRUE)
hard_deleted <- sf_empty_recycle_bin(new_records$id[1])

# confirm that the record really is gone (can't be deleted)
undelete <- sf_undelete(new_records$id[1])
# if you use queryall you still will find the record for ~24hrs
is_deleted <- sf_query(sprintf("SELECT Id, IsDeleted FROM Contact WHERE Id='%s'",
                              new_records$id[1]), queryall = TRUE)

# As of v48.0 (Spring 2020) you can query the Ids of all records in the Recycle
# Bin, which makes it easier to clear the entire bin because you can grab the
# Ids of the records first
records_in_bin <- sf_query("SELECT Record FROM DeleteEvent")
records_emptied_from_bin <- sf_delete(records_in_bin$Record)

## End(Not run)
```

sf_execute_report

Execute a report

Description

Experimental

Get summary data with or without details by running a report synchronously or asynchronously through the API. When you run a report, the API returns data for the same number of records that are available when the report is run in the Salesforce user interface. Include the `filters` argument in your request to get specific results on the fly by passing dynamic filters, groupings, and aggregates in the report metadata. Finally, you may want to use [sf_run_report](#).

Usage

```
sf_execute_report(
  report_id,
  async = FALSE,
  include_details = TRUE,
  labels = TRUE,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  as_tbl = TRUE,
```

```

    report_metadata = NULL,
    verbose = FALSE
)

```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
async	logical; an indicator, by default set to TRUE, which executes the report asynchronously. If executed asynchronously, this function will return a list of attributes of the created report instance. The results can be pulled down by providing the report id and instance id to the function sf_get_report_instance_results . Refer to the details of the documentation on why executing a report asynchronously is preferred.
include_details	logical; an indicator applying to a synchronous indicating whether the run should return summary data with details.
labels	logical; an indicator of whether the returned data should be the label (i.e. formatted value) or the actual value. By default, the labels are returned because these are what appear in the Salesforce dashboard and more closely align with the column names. For example, "Account.Name" label may be "Account B" and the value 0016A0000035mJEQAY. The former (label) more accurately reflects the "Account.Name".
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
as_tbl	logical; an indicator of whether to convert the parsed JSON into a <code>tbl_df</code> .
report_metadata	list; a list with one element named "reportMetadata" having additional list elements underneath. All possible elements of reportMetadata are documented HERE , but you will most commonly only need to specify the following 3 elements to filter or query the results of an existing report: <ul style="list-style-type: none"> reportFormat A character specifying the format of the report with possible values: "TABULAR", "SUMMARY", "MATRIX", or "MULTI_BLOCK". reportBooleanFilter A character denoting how the individuals filters specified in reportFilters should be combined. For example, "(1OR4)AND2AND3". reportFilters A list of reportFilter specifications. Each must be a list with 3 elements: 1) column, 2) operator, and 3) value. You can find out how certain field types can be filtered by reviewing the results of sf_list_report_filter_operators.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL,

header, and body will be printed for each request, along with additional diagnostic information where available.

Details

Run a report synchronously if you expect it to finish running quickly. Otherwise, we recommend that you run reports through the API asynchronously for these reasons:

- Long running reports have a lower risk of reaching the timeout limit when run asynchronously.
- The 2-minute overall Salesforce API timeout limit doesn't apply to asynchronous runs.
- The Salesforce Reports and Dashboards REST API can handle a higher number of asynchronous run requests at a time.
- Since the results of an asynchronously run report are stored for a 24-hr rolling period, they're available for recurring access.

Before you filter a report, it helpful to check the following properties in the metadata that tell you if a field can be filtered, the values and criteria you can filter by, and filters that already exist in the report:

- filterable
- filterValues
- dataTypeFilterOperatorMap
- reportFilters

Value

tbl_df by default, but a list when as_tbl=FALSE, which means that the content from the API is converted from JSON to a list with no other post-processing.

See Also

Please see the following resources for more information:

- [Sync, Example - Sync](#)
- [Async, Example - Async](#)
- [Filtering Results](#)

Examples

```
## Not run:
# first, get the Id of a report in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")
this_report_id <- all_reports$Id[1]

# then execute a synchronous report that will wait for the results
results <- sf_execute_report(this_report_id)

# alternatively, you can execute an async report and then grab its results when done
# - The benefit of an async report is that the results will be stored for up to
#   24 hours for faster recall, if needed
results <- sf_execute_report(this_report_id, async=TRUE)

# check if completed and proceed if the status is "Success"
instance_list <- sf_list_report_instances(report_id)
```

```

instance_status <- instance_list[[which(instance_list$id == results$id), "status"]]
if(instance_status == "Success"){
  results <- sf_get_report_instance_results(report_id, results$id)
}

# Note: For more complex execution use the report_metadata argument.
# This can be done by building the list from scratch based on Salesforce
# documentation (not recommended) or pulling down the existing reportMetadata
# property of the report and modifying the list slightly (recommended).
# In addition, for relatively simple changes, you can leverage the convenience
# function sf_report_wrapper() which makes it easier to retrieve report results
report_details <- sf_describe_report(this_report_id)
report_metadata <- list(reportMetadata = report_details$reportMetadata)
report_metadata$reportMetadata$showGrandTotal <- FALSE
report_metadata$reportMetadata$showSubtotals <- FALSE
fields <- sf_execute_report(this_report_id,
                           report_metadata = report_metadata)

## End(Not run)

```

sf_find_duplicates *Find Duplicate Records*

Description

Experimental

Performs rule-based searches for duplicate records.

Usage

```

sf_find_duplicates(
  search_criteria,
  object_name,
  include_record_details = FALSE,
  guess_types = TRUE,
  verbose = FALSE
)

```

Arguments

search_criteria list; a list of fields and their values that would constitute a match. For example, list(FirstName="Marc", Company="Salesforce")

object_name character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").

include_record_details logical; get fields and values for records detected as duplicates by setting this property to TRUE. Get only record IDs for records detected as duplicates by setting this property to FALSE.

guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records found to be duplicates by the match rules

Note

You must have active duplicate rules for the supplied object before running this function. The object_name argument refers to using that object's duplicate rules on the search criteria to determine which records in other objects are duplicates.

Examples

```
## Not run:
# use the duplicate rules associated with the Lead object on the search
# criteria (email) in order to find duplicates
found_dupes <- sf_find_duplicates(search_criteria =
                                list(Email="bond_john@grandhotels.com"),
                                object_name = "Lead")

# now look for duplicates on email using the Contact object's rules
found_dupes <- sf_find_duplicates(search_criteria =
                                list(Email="bond_john@grandhotels.com"),
                                object_name = "Contact")

## End(Not run)
```

sf_find_duplicates_by_id

Find Duplicate Records By Id

Description**Experimental**

Performs rule-based searches for duplicate records.

Usage

```
sf_find_duplicates_by_id(
  sf_id,
  include_record_details = FALSE,
  guess_types = TRUE,
  verbose = FALSE
)
```

Arguments

sf_id	character; a Salesforce generated Id that uniquely identifies a record.
include_record_details	logical; get fields and values for records detected as duplicates by setting this property to TRUE. Get only record IDs for records detected as duplicates by setting this property to FALSE.
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records found to be duplicates by the match rules

Note

You must have active duplicate rules for the supplied object before running this function. This function uses the duplicate rules for the object that has the same type as the input record IDs. For example, if the record Id represents an Account, this function uses the duplicate rules associated with the Account object.

Examples

```
## Not run:
# use the duplicate rules associated with the object that this record
# belongs to in order to find duplicates
found_dupes <- sf_find_duplicates_by_id(sf_id = "00Q6A00000aABCnZZZ")

## End(Not run)
```

sf_get_all_jobs_bulk *Get All Bulk API Jobs*

Description

This function retrieves details about all Bulk jobs in the org.

Usage

```
sf_get_all_jobs_bulk(
  parameterized_search_list = list(isPkChunkingEnabled = NULL, jobType = NULL),
  next_records_url = NULL,
  api_type = c("Bulk 2.0"),
  verbose = FALSE
)
```

Arguments

parameterized_search_list	list; a list of parameters to be added as part of the URL query string (i.e. after a question mark "?") so that the result only returns information about jobs that meet that specific criteria. For more information, read the note below and/or the Salesforce documentation here .
next_records_url	character (leave as NULL); a string used internally by the function to paginate through to more records until complete
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df of parameters defining the details of all bulk jobs

Note

parameterized_search_list elements that can be set to filter the results:

- isPkChunkingEnabledA logical either TRUE or FALSE. TRUE only returns information about jobs where PK Chunking has been enabled.
- jobTypeA character string to return jobs matching the specified type. Must be one of: "BigObjectIngest", "Classic", "V2QIngest". Classic corresponds to Bulk 1.0 API jobs and V2Ingest corresponds to the Bulk 2.0 API jobs.

References

https://developer.salesforce.com/docs/atlas.en-us.api_bulk_v2.meta/api_bulk_v2/get_all_jobs.htm

Examples

```
## Not run:
job_info <- sf_create_job_bulk('insert', 'Account')
all_jobs_info <- sf_get_all_jobs_bulk()
# just the Bulk API 1.0 jobs
all_jobs_info <- sf_get_all_jobs_bulk(parameterized_search_list=list(jobType='Classic'))

## End(Not run)
```

 sf_get_all_query_jobs_bulk

Get All Bulk API Query Jobs

Description

This function retrieves details about all Bulk query jobs in the org.

Usage

```
sf_get_all_query_jobs_bulk(
  parameterized_search_list = list(isPkChunkingEnabled = NULL, jobType = NULL,
    concurrencyMode = NULL),
  next_records_url = NULL,
  api_type = c("Bulk 2.0"),
  verbose = FALSE
)
```

Arguments

parameterized_search_list	list; a list of parameters to be added as part of the URL query string (i.e. after a question mark ("?")) so that the result only returns information about jobs that meet that specific criteria. For more information, read the note below and/or the Salesforce documentation here .
next_records_url	character (leave as NULL); a string used internally by the function to paginate through to more records until complete
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df of parameters defining the details of all bulk jobs

Note

parameterized_search_list elements that can be set to filter the results:

- isPkChunkingEnabledA logical either TRUE or FALSE. TRUE only returns information about jobs where PK Chunking has been enabled.
- jobTypeA character string to return jobs matching the specified type. Must be one of: "BigObjectIngest", "Classic", "V2Query". Classic corresponds to Bulk 1.0 API jobs and V2Query corresponds to the Bulk 2.0 API jobs.
- concurrencyModeA character string to return jobs matching the specified concurrency mode. Must be one of: "serial" or "parallel", but only "serial" is currently supported.

References

https://developer.salesforce.com/docs/atlas.en-us.api_bulk_v2.meta/api_bulk_v2/get_all_jobs.htm

Examples

```
## Not run:
job_info <- sf_create_job_bulk('insert', 'Account')
all_query_jobs_info <- sf_get_all_query_jobs_bulk()
# just the Bulk API 2.0 query jobs
all_query_jobs_info <- sf_get_all_query_jobs_bulk(parameterized_search_list=list(jobType='V2Query'))
# just the Bulk API 1.0 query jobs
all_query_jobs_info <- sf_get_all_query_jobs_bulk(parameterized_search_list=list(jobType='Classic'))

## End(Not run)
```

sf_get_dashboard_data *Get dashboard data in a tabular format*

Description

Experimental

Usage

```
sf_get_dashboard_data(
  dashboard_id,
  running_user = NULL,
  dashboard_filters = c(character(0))
)
```

Arguments

dashboard_id character; the Salesforce Id assigned to a created dashboard. It will start with "01Z".

running_user character; the Salesforce Id that should be assigned as the runner of the job. This should be from a User record (i.e. the Id will start with "005"). Note that this will throw an error if the User is not allowed to change the running User, or if the selected running User is invalid.

dashboard_filters character; Dashboard results are always unfiltered, unless you have specified filter parameters in your request. Use this argument to include up to three optional filter Ids. You can obtain the list of defined filter Ids from the dashboard metadata using [sf_dashboard_describe](#).

Value

tbl_df

sf_get_deleted	<i>Get Deleted Records from a Timeframe</i>
----------------	---

Description

Maturing

Retrieves the list of individual records that have been deleted within the given timespan for the specified object.

Usage

```
sf_get_deleted(object_name, start, end, verbose = FALSE)
```

Arguments

object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
start	date or datetime; starting datetime of the timespan for which to retrieve the data.
end	date or datetime; ending datetime of the timespan for which to retrieve the data.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Note

This API ignores the seconds portion of the supplied datetime values.

Examples

```
## Not run:
# get all deleted Contact records from midnight until now
deleted_recs <- sf_get_deleted("Contact", Sys.Date(), Sys.time())

## End(Not run)
```

sf_get_job_bulk	<i>Get Bulk API Job</i>
-----------------	-------------------------

Description

This function retrieves details about a Job in the Salesforce Bulk API

Usage

```
sf_get_job_bulk(
  job_id,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  query_operation = FALSE,
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
query_operation	logical; an indicator of whether the job is a query job, which is needed when using the Bulk 2.0 API because the URI endpoints are different for the "ingest" vs. the "query" jobs.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df of parameters defining the details of the specified job id

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
job_info <- sf_create_job_bulk('insert', 'Account')
refreshed_job_info <- sf_get_job_bulk(job_info$id)
sf_abort_job_bulk(refreshed_job_info$id)

## End(Not run)
```

sf_get_job_records_bulk

Returning the Details of a Bulk API Job

Description

This function returns detailed (row-level) information on a job which has already been submitted completed (successfully or not).

Usage

```
sf_get_job_records_bulk(
  job_id,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  record_types = c("successfulResults", "failedResults", "unprocessedRecords"),
  combine_record_types = TRUE,
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
record_types	character; one or more types of records to retrieve from the results of running the specified job
combine_record_types	logical; indicating for Bulk 2.0 jobs whether the successfulResults, failedResults, and unprocessedRecords should be stacked together using bind_rows
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tibble or list of tibbles, formatted by Salesforce, with information containing the success or failure or certain rows in a submitted job

Note

With Bulk 2.0 the order of records in the response is not guaranteed to match the ordering of records in the original job data.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
job_info <- sf_create_job_bulk('insert', 'Account')
input_data <- tibble(Name=c("Test Account 1", "Test Account 2"))
batches_result <- sf_create_batches_bulk(job_info$id, input_data)
# pause a few seconds for operation to finish. Wait longer if job is not complete.
Sys.sleep(3)
# check status using - sf_get_job_bulk(job_info$id)
job_record_details <- sf_get_job_records_bulk(job_id=job_info$id)

## End(Not run)
```

```
sf_get_report_instance_results
    Get report instance results
```

Description

Experimental

Retrieves results for an instance of a report run asynchronously with or without filters. Depending on your asynchronous report run request, data can be at the summary level or include details.

Usage

```
sf_get_report_instance_results(
    report_id,
    report_instance_id,
    labels = TRUE,
    guess_types = TRUE,
    bind_using_character_cols = FALSE,
    fact_map_key = "T!T",
    verbose = FALSE
)
```

Arguments

<code>report_id</code>	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
<code>report_instance_id</code>	character; the Salesforce Id assigned to a created analytics report instance (an asynchronous run). It will start with "0LG".
<code>labels</code>	logical; an indicator of whether the returned data should be the label (i.e. formatted value) or the actual value. By default, the labels are returned because these are what appear in the Salesforce dashboard and more closely align with the column names. For example, "Account.Name" label may be "Account B" and the value 0016A0000035mJEQAY. The former (label) more accurately reflects the "Account.Name".
<code>guess_types</code>	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
<code>bind_using_character_cols</code>	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
<code>fact_map_key</code>	character; string providing an index into each section of a fact map, from which you can access summary and detailed data. The pattern for the fact map

keys varies by report format so it is important to know what the reportFormat property of the target report is. See the note below for more details.

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df; the detail report data. More specifically, the detailed data from the "T!T" entry in the fact map.

Note

Below are the fact map key patterns for three report types:

TABULAR T!T: The grand total of a report. Both record data values and the grand total are represented by this key.

SUMMARY <First level row grouping_second level row grouping_third level row grouping>!T: T refers to the row grand total.

MATRIX <First level row grouping_second level row grouping>!<First level column grouping_second level column grouping>.

Each item in a row or column grouping is numbered starting with 0. Here are some examples of fact map keys:

0!T The first item in the first-level grouping.

1!T The second item in the first-level grouping.

0_0!T The first item in the first-level grouping and the first item in the second-level grouping.

0_1!T The first item in the first-level grouping and the second item in the second-level grouping.

See Also

[Salesforce Documentation](#), [Salesforce Example](#), [Factmap Documentation](#)

Examples

```
## Not run:
# execute a report asynchronously in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")
this_report_id <- all_reports$Id[1]
results <- sf_execute_report(this_report_id, async=TRUE)

# check if that report has succeeded, ...
instance_list <- sf_list_report_instances(this_report_id)
instance_status <- instance_list[[which(instance_list$id == results$id), "status"]]

# ... if so, then grab the results
if(instance_status == "Success"){
  report_data <- sf_get_report_instance_results(report_id = this_report_id,
                                              report_instance_id = results$id)
}

## End(Not run)
```

sf_get_updated	<i>Get Updated Records from a Timeframe</i>
----------------	---

Description**Maturing**

Retrieves the list of individual records that have been inserted or updated within the given timespan in the specified object.

Usage

```
sf_get_updated(object_name, start, end, verbose = FALSE)
```

Arguments

object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
start	date or datetime; starting datetime of the timespan for which to retrieve the data.
end	date or datetime; ending datetime of the timespan for which to retrieve the data.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Note

This API ignores the seconds portion of the supplied datetime values.

Examples

```
## Not run:
# get all updated Contact records from midnight until now
updated_recs <- sf_get_updated("Contact", Sys.Date(), Sys.time())

## End(Not run)
```

sf_job_batches_bulk	<i>Checking the Status of a Batch in a Bulk API Job</i>
---------------------	---

Description

This function checks on and returns status information on an existing batch which has already been submitted to Bulk API Job

Usage

```
sf_job_batches_bulk(job_id, api_type = c("Bulk 1.0"), verbose = FALSE)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df of parameters defining the batch identified by the batch_id

Note

This is a legacy function used only with Bulk 1.0.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
job_info <- sf_create_job_bulk(operation = "query", object = "Account")
soql <- "SELECT Id, Name FROM Account LIMIT 10"
batch_query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = soql)
submitted_batches <- sf_job_batches_bulk(job_id=batch_query_info$jobId)
job_close_ind <- sf_close_job_bulk(job_info$id)
sf_get_job_bulk(job_info$id)

## End(Not run)
```

sf_list_api_limits *List the Limits for an API*

Description**Stable**

Lists information about limits in your org.

Usage

```
sf_list_api_limits()
```

Value

list

Note

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:

- Daily API calls
- Daily asynchronous Apex method executions (batch Apex, future methods, queueable Apex, and scheduled Apex)
- Daily Bulk API calls
- Daily Streaming API events (API version 36.0 and earlier)
- Daily durable Streaming API events (API version 37.0 and later)
- Streaming API concurrent clients (API version 36.0 and earlier)
- Durable Streaming API concurrent clients (API version 37.0 and later)
- Daily generic streaming events (API version 36.0 and earlier)
- Daily durable generic streaming events (API version 37.0 and later)
- Daily number of mass emails that are sent to external email addresses by using Apex or APIs
- Daily number of single emails that are sent to external email addresses by using Apex or APIs
- Concurrent REST API requests for results of asynchronous report runs
- Concurrent synchronous report runs via REST API
- Hourly asynchronous report runs via REST API
- Hourly synchronous report runs via REST API
- Hourly dashboard refreshes via REST API
- Hourly REST API requests for dashboard results
- Hourly dashboard status requests via REST API
- Daily workflow emails
- Hourly workflow time triggers
- Hourly OData callouts
- Daily and active scratch org counts
- Data storage (MB)
- File storage (MB)

Examples

```
## Not run:  
sf_list_api_limits()  
  
## End(Not run)
```

sf_list_metadata *List All Objects of a Certain Metadata Type in Salesforce*

Description

Experimental

This function takes a query of metadata types and returns a summary of all objects in salesforce of the requested types

Usage

```
sf_list_metadata(queries, verbose = FALSE)
```

Arguments

queries	a list of lists with each element consisting of 2 components: 1) the metadata type being requested and 2) the folder associated with the type that required for types that use folders, such as Dashboard, Document, EmailTemplate, or Report.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df's containing the queried metadata types

Note

Only 3 queries can be specified at one time, so the list length must not exceed 3.

References

https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/

Examples

```
## Not run:  
# pull back a list of all Custom Objects and Email Templates  
my_queries <- list(list(type='CustomObject'),  
                  list(folder='unfiled$public',  
                        type='EmailTemplate'))  
metadata_info <- sf_list_metadata(queries=my_queries)  
  
## End(Not run)
```

sf_list_objects	<i>List Organization Objects and their Metadata</i>
-----------------	---

Description**Stable**

Lists the available objects and their metadata for your organization's data.

Usage

```
sf_list_objects()
```

Value

list

Examples

```
## Not run:  
sf_list_objects()  
  
## End(Not run)
```

sf_list_reports	<i>List reports</i>
-----------------	---------------------

Description**Experimental**

Displays a list of up to 200 tabular, matrix, or summary reports that you recently viewed. To get a full list of reports by format, name, and other fields, use a SOQL query on the Report object.

Usage

```
sf_list_reports(recent = TRUE, as_tbl = TRUE, verbose = FALSE)
```

Arguments

recent	logical; an indicator of whether to return the 200 most recently viewed reports or to invoke a query on the Report object to return all reports in the Org. By default, this argument is set to TRUE meaning that only the most recently viewed reports are returned because this is the default behavior of the reports list endpoint in the Reports and Dashboards REST API.
as_tbl	logical; an indicator of whether to convert the parsed JSON into a tbl_df.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df by default, or a list depending on the value of argument as_tbl

Note

This function will only return up to 200 of recently viewed reports. For a COMPLETE list you must use [sf_query](#) on the report object.

See Also

[Salesforce Documentation](#), [Salesforce Example](#)

Examples

```
## Not run:
# return up to 200 recently viewed reports
reports <- sf_list_reports()

# return the results as a list
reports_as_list <- sf_list_reports(as_tbl=FALSE)

# to return all possible reports, which is queried from the Report object
all_reports <- sf_list_reports(recent=FALSE)

## End(Not run)
```

sf_list_report_fields *Get a list of report fields*

Description**Experimental**

The Report Fields resource returns report fields available for specified reports. Use the resource to determine the best fields for use in dashboard filters by seeing which fields different source reports have in common. Available in API version 40.0 and later.

Usage

```
sf_list_report_fields(
  report_id,
  intersect_with = c(character(0)),
  verbose = FALSE
)
```

Arguments

report_id character; the Salesforce Id assigned to a created analytics report. It will start with "000".

intersect_with character a vector of unique report IDs. This is helpful in determining the best fields for use in dashboard filters by seeing which fields different source reports have in common. If this argument is left empty, then the function returns a list of all possible report fields. Otherwise, returns a list of fields that specified reports share.

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list representing the 4 different field report properties:

displayGroups Fields available when adding a filter.

equivalentFields Fields available for each specified report. Each object in this array is a list of common fields categorized by report type.

equivalentFieldIndices Map of each field's API name to the index of the field in the equivalentFields array.

mergedGroups Merged fields.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# first, grab all possible reports in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")

# second, get the id of the report to check fields on
this_report_id <- all_reports$Id[1]

# third, pull that report and intersect its fields with up to three other reports
fields <- sf_list_report_fields(this_report_id, intersect_with=head(all_reports[["Id"]],3))

## End(Not run)
```

```
sf_list_report_filter_operators
      List report filter operators
```

Description

Experimental

Use the Filter Operators API to get information about which filter operators are available for reports and dashboards. The Filter Operators API is available in API version 40.0 and later.

Usage

```
sf_list_report_filter_operators(as_tbl = TRUE, verbose = FALSE)
```

Arguments

as_tbl	logical; an indicator of whether to convert the parsed JSON into a tbl_df.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df by default, or a list depending on the value of argument as_tbl

See Also

[Salesforce Documentation](#), [Salesforce Example](#)

Examples

```
## Not run:
report_filters <- sf_list_report_filter_operators()
unique_supported_fields <- report_filters %>% distinct(supported_field_type)

# operators to filter a picklist field
picklist_field_operators <- report_filters %>% filter(supported_field_type == "picklist")

## End(Not run)
```

sf_list_report_instances

List report instances

Description**Experimental**

Returns a list of instances for a report that you requested to be run asynchronously. Each item in the list is treated as a separate instance of the report run with metadata in that snapshot of time.

Usage

```
sf_list_report_instances(report_id, as_tbl = TRUE, verbose = FALSE)
```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
as_tbl	logical; an indicator of whether to convert the parsed JSON into a tbl_df.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df by default, or a list depending on the value of argument as_tbl

See Also

[Salesforce Documentation, Salesforce Example](#)

Examples

```
## Not run:
# first, get the Id of a report in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")
this_report_id <- all_reports$Id[1]

# second, execute an async report
results <- sf_execute_report(this_report_id, async=TRUE)

# third, pull a list of async requests ("instances") usually meant for checking
# if a recently requested report has succeeded and the results can be retrieved
instance_list <- sf_list_report_instances(this_report_id)
instance_status <- instance_list[[which(instance_list$id == results$id), "status"]]

## End(Not run)
```

sf_list_report_types *List report types*

Description**Experimental**

Return a list of report types.

Usage

```
sf_list_report_types(as_tbl = TRUE, verbose = FALSE)
```

Arguments

as_tbl	logical; an indicator of whether to convert the parsed JSON into a tbl_df.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df by default, or a list depending on the value of argument as_tbl

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
report_types <- sf_list_report_types()
unique_report_types <- report_types %>% select(reportTypes.type)

# return the results as a list
reports_as_list <- sf_list_report_types(as_tbl=FALSE)

## End(Not run)
```

sf_list_resources *List the Resources for an API*

Description**Stable**

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

Usage

```
sf_list_resources()
```

Value

list

Examples

```
## Not run:
sf_list_resources()

## End(Not run)
```

sf_list_rest_api_versions
List REST API Versions

Description**Stable**

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

Usage

```
sf_list_rest_api_versions()
```

Value

list

Examples

```
## Not run:
sf_list_rest_api_versions()

## End(Not run)
```

sf_merge

Merge Records

Description**Experimental**

This function combines records of the same object type into one of the records, known as the master record. The other records, known as the victim records, will be deleted. If a victim record has related records the master record the new parent of the related records.

Usage

```
sf_merge(
  master_id,
  victim_ids,
  object_name,
  master_fields = character(0),
  api_type = c("SOAP"),
  control = list(...),
  ...,
  verbose = FALSE
)
```

Arguments

master_id	character; a Salesforce generated Id that identifies the master record, which is the record to which the victim records will be merged into
victim_ids	character; one or two Salesforce Ids of records to be merged into the master record. Up to three records can be merged in a single request, including the master record. This limit is the same as the limit enforced by the Salesforce user interface. To merge more than 3 records, successively merge records by running sf_merge repeatedly.
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
master_fields	named vector; a vector of field names and values to supersede the master record values. Otherwise, the field values on the master record will prevail.
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control

verbose logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records with success indicator

Examples

```
## Not run:
n <- 3
new_contacts <- tibble(FirstName = rep("Test", n),
  LastName = paste0("Contact", 1:n),
  Description = paste0("Description", 1:n))
new_recs1 <- sf_create(new_contacts, object_name = "Contact")

# merge the second and third into the first record, but set the
# description field equal to the description of the second. All other fields
# will from the first record or, if blank, from the other records
merge_res <- sf_merge(master_id = new_recs1$id[1],
  victim_ids = new_recs1$id[2:3],
  object_name = "Contact",
  master_fields = tibble("Description" = new_contacts$Description[2]))
# check the second and third records now have the same Master Record Id as the first
merge_check <- sf_query(sprintf("SELECT Id, MasterRecordId, Description
  FROM Contact WHERE Id IN ('%s')",
  paste0(new_recs1$id, collapse="','")),
  queryall = TRUE)

## End(Not run)
```

sf_query

Perform SOQL Query

Description

Maturing

Executes a query against the specified object and returns data that matches the specified criteria.

Usage

```
sf_query(
  soql,
  object_name = NULL,
  queryall = FALSE,
  guess_types = TRUE,
  api_type = c("REST", "SOAP", "Bulk 1.0", "Bulk 2.0"),
  control = list(...),
  ...,
  page_size = deprecated(),
  next_records_url = NULL,
```

```

    bind_using_character_cols = FALSE,
    object_name_append = FALSE,
    object_name_as_col = FALSE,
    verbose = FALSE
)

```

Arguments

soql	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
queryall	logical; indicating if the query recordset should include records that have been deleted because of a merge or delete. Setting this argument to TRUE will also return information about archived Task and Event records. It is available in API versions 29.0 and later.
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control or further downstream to sf_query_bulk .
page_size	numeric; a number between 200 and 2000 indicating the number of records per page that are returned. Speed benchmarks should be done to better understand the speed implications of choosing high or low values of this argument.
next_records_url	character (leave as NULL); a string used internally by the function to paginate through to more records until complete
bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that bind_rows does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
object_name_append	logical; whether to include the object type (e.g. Account or Contact) as part of the column names (e.g. Account.Name).
object_name_as_col	logical; whether to include the object type (e.g. Account or Contact) as a new column.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records

Note

Bulk API query doesn't support the following SOQL:

- COUNT
- ROLLUP
- SUM
- GROUP BY CUBE
- OFFSET
- Nested SOQL queries
- Relationship fields

Additionally, Bulk API can't access or query compound address or compound geolocation fields.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
sf_query("SELECT Id, Account.Name, Email FROM Contact LIMIT 10")

## End(Not run)
```

<code>sf_query_bulk_v1</code>	<i>Run Bulk 1.0 query</i>
-------------------------------	---------------------------

Description

This function is a convenience wrapper for submitting and retrieving query API jobs from the Bulk 1.0 API.

Usage

```
sf_query_bulk_v1(
  soql,
  object_name = NULL,
  queryall = FALSE,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  interval_seconds = 3,
  max_attempts = 200,
  control = list(...),
  ...,
  api_type = "Bulk 1.0",
  verbose = FALSE
)
```


Arguments

soql	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
queryall	logical; indicating if the query recordset should include records that have been deleted because of a merge or delete. Setting this argument to TRUE will also return information about archived Task and Event records. It is available in API versions 29.0 and later.
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
interval_seconds	integer; defines the seconds between attempts to check for job completion.
max_attempts	integer; defines then max number attempts to check for job completion before stopping.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for <code>sf_control</code> .
...	other arguments passed on to <code>sf_control</code> or <code>sf_create_job_bulk</code> to specify the <code>content_type</code> , <code>concurrency_mode</code> , and/or <code>column_delimiter</code> .
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A `tbl_df` of the recordset returned by the query

References

[Bulk 1.0 documentation](#)

Examples

```
## Not run:
# select all Ids from Account object (up to 1000)
ids <- sf_query_bulk_v1(soql = 'SELECT Id FROM Account LIMIT 1000',
```

```

                                object_name = 'Account')
# alternatively you can specify as
ids <- sf_query(soql = 'SELECT Id FROM Account LIMIT 1000',
               object_name = 'Account',
               api_type="Bulk 1.0")

## End(Not run)

```

sf_query_bulk_v2

Run Bulk 2.0 query

Description

This function is a convenience wrapper for submitting and retrieving query API jobs from the Bulk 2.0 API.

Usage

```

sf_query_bulk_v2(
  soql,
  object_name = NULL,
  queryall = FALSE,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  interval_seconds = 3,
  max_attempts = 200,
  control = list(...),
  ...,
  api_type = "Bulk 2.0",
  verbose = FALSE
)

```

Arguments

soql	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
queryall	logical; indicating if the query recordset should include records that have been deleted because of a merge or delete. Setting this argument to TRUE will also return information about archived Task and Event records. It is available in API versions 29.0 and later.
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").

bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
interval_seconds	integer; defines the seconds between attempts to check for job completion.
max_attempts	integer; defines then max number attempts to check for job completion before stopping.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for <code>sf_control</code> .
...	other arguments passed on to <code>sf_control</code> or <code>sf_create_job_bulk</code> to specify the <code>content_type</code> , <code>concurrency_mode</code> , and/or <code>column_delimiter</code> .
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A `tbl_df` of the recordset returned by the query

References

[Bulk 2.0 documentation](#)

Examples

```
## Not run:
# select all Ids from Account object (up to 1000)
ids <- sf_query_bulk_v2(soql = 'SELECT Id FROM Account LIMIT 1000',
  object_name = 'Account')
# alternatively you can specify as
ids <- sf_query(soql = 'SELECT Id FROM Account LIMIT 1000',
  object_name = 'Account',
  api_type="Bulk 2.0")

## End(Not run)
```

sf_query_report

Get Report Data without Saving Changes to or Creating a Report

Description**Experimental**

Run a report without creating a new report or changing the existing one by making a POST request to the query resource. This allows you to get report data without filling up your Org with unnecessary reports.

Usage

```
sf_query_report(report_id, report_metadata = NULL, verbose = FALSE)
```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
report_metadata	list; a list with one element named "reportMetadata" having additional list elements underneath. All possible elements of reportMetadata are documented HERE , but you will most commonly only need to specify the following 3 elements to filter or query the results of an existing report: reportFormat A character specifying the format of the report with possible values: "TABULAR", "SUMMARY", "MATRIX", or "MULTI_BLOCK". reportBooleanFilter A character denoting how the individuals filters specified in reportFilters should be combined. For example, "(1OR4)AND2AND3". reportFilters A list of reportFilter specifications. Each must be a list with 3 elements: 1) column, 2) operator, and 3) value. You can find out how certain field types can be filtered by reviewing the results of sf_list_report_filter_operators .
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Details

Note that you can query a report's data simply by providing its Id. However, the data will only be the detailed data from the tabular format with no totals or other metadata. If you would like more control, for example, filtering the results or grouping them in specific ways, then you will need to specify a list to the report_metadata argument. The report_metadata argument requires specific knowledge on the structure the reportMetadata property of a report. For more information, please review the Salesforce documentation in detail [HERE](#). Additional references are provided in the "See Also" section.

Value

tbl_df

See Also

[Salesforce Documentation](#), [Salesforce Example](#)

sf_query_result_bulk *Retrieve the results of a completed bulk query*

Description

This function returns the recordset of a bulk query which has already been submitted to the Bulk 1.0 or Bulk 2.0 API and has completed.

Usage

```

sf_query_result_bulk(
  job_id,
  batch_id = NULL,
  result_id = NULL,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  batch_size = 50000,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  verbose = FALSE
)

```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
batch_id	character; the Salesforce Id assigned to a submitted batch as returned by sf_create_batches_bulk . It will start with "751".
result_id	character; a string returned from sf_batch_details_bulk when a query has completed and specifies how to get the recordset
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
batch_size	integer; the number of individual records to be included in a single batch uploaded to the Bulk APIs (1.0 or 2.0).
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

`tbl_df`, formatted by Salesforce, containing query results

References

[Bulk 1.0 documentation](#) and [Bulk 2.0 documentation](#)

Examples

```
## Not run:
my_query <- "SELECT Id, Name FROM Account LIMIT 1000"
job_info <- sf_create_job_bulk(operation = 'query', object = 'Account')
query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = my_query)
result <- sf_batch_details_bulk(job_id = query_info$jobId,
                               batch_id = query_info$id)
recordset <- sf_query_result_bulk(job_id = query_info$jobId,
                                 batch_id = query_info$id,
                                 result_id = result$result)

sf_close_job_bulk(job_info$id)

## End(Not run)
```

sf_query_result_bulk_v1

Retrieve the results of a Bulk 1.0 query

Description

This function returns the row-level recordset of a Bulk 1.0 query which has already been submitted to Bulk API Job and has Completed state

Usage

```
sf_query_result_bulk_v1(
  job_id,
  batch_id = NULL,
  result_id = NULL,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  api_type = c("Bulk 1.0"),
  verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
batch_id	character; the Salesforce Id assigned to a submitted batch as returned by sf_create_batches_bulk . It will start with "751".
result_id	character; a string returned from sf_batch_details_bulk when a query has completed and specifies how to get the recordset
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").

<code>bind_using_character_cols</code>	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
<code>api_type</code>	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
<code>verbose</code>	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

`tbl_df`, formatted by Salesforce, containing query results

References

[Bulk 1.0 documentation](#)

Examples

```
## Not run:
my_query <- "SELECT Id, Name FROM Account LIMIT 1000"
job_info <- sf_create_job_bulk(operation = 'query', object = 'Account', api_type="Bulk 1.0")
query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = my_query, api_type="Bulk 1.0")
result <- sf_batch_details_bulk(job_id = query_info$jobId,
                              batch_id = query_info$id)
recordset <- sf_query_result_bulk(job_id = query_info$jobId,
                                 batch_id = query_info$id,
                                 result_id = result$result)
sf_close_job_bulk(job_info$id, api_type="Bulk 1.0")

## End(Not run)
```

`sf_query_result_bulk_v2`

Retrieve the results of a Bulk 2.0 query

Description

This function returns the row-level recordset of a Bulk 2.0 query which has already been submitted as a Bulk 2.0 API job and has a JobComplete state.

Usage

```
sf_query_result_bulk_v2(
  job_id,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  batch_size = 50000,
```

```
locator = NULL,
api_type = c("Bulk 2.0"),
verbose = FALSE
)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that bind_rows does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
batch_size	integer; the number of individual records to be included in a single batch uploaded to the Bulk APIs (1.0 or 2.0).
locator	character; a string returned found in the API response header of a prior iteration of sf_query_result_bulk_v2 that is included in the query string of the next call to paginate through all records returned by the query.
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

`tbl_df`, formatted by Salesforce, containing query results

References

[Bulk 2.0 documentation](#)

Examples

```
## Not run:
my_query <- "SELECT Id, Name FROM Account LIMIT 1000"
job_info <- sf_create_job_bulk(operation = 'query', object = 'Account', api_type="Bulk 2.0")
query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = my_query, api_type="Bulk 2.0")
result <- sf_batch_details_bulk(job_id = query_info$jobId,
                              batch_id = query_info$id)
recordset <- sf_query_result_bulk(job_id = query_info$jobId,
                                 batch_id = query_info$id,
                                 result_id = result$result)
sf_close_job_bulk(job_info$id, api_type="Bulk 2.0")
```



```
## End(Not run)
```

sf_read_metadata	<i>Read Object or Field Metadata from Salesforce</i>
------------------	--

Description

Experimental

This function takes a request of named elements in Salesforce and returns their metadata

Usage

```
sf_read_metadata(metadata_type, object_names, verbose = FALSE)
```

Arguments

metadata_type	character; string on what type of metadata to create.
object_names	a character vector of names that we wish to read metadata for
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A list containing a response for each requested object

References

https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/

Examples

```
## Not run:  
metadata_info <- sf_read_metadata(metadata_type='CustomObject',  
                                object_names=c('Account'))  
  
## End(Not run)
```

sf_rename_metadata	<i>Rename Metadata Elements in Salesforce</i>
--------------------	---

Description

Experimental

This function takes an old and new name for a metadata element in Salesforce and applies the new name

Usage

```
sf_rename_metadata(metadata_type, old_fullname, new_fullname, verbose = FALSE)
```

Arguments

metadata_type	character; string on what type of metadata to create.
old_fullname	character; string corresponding to the fullName of the element you would like to rename
new_fullname	character; string corresponding to the new fullName you would like to apply the targeted element
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A data.frame containing the creation result for each submitted metadata component

References

https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/

Examples

```
## Not run:
renamed_custom_object <- sf_rename_metadata(metadata_type = 'CustomObject',
                                             old_fullname = 'Custom_Account32__c',
                                             new_fullname = 'Custom_Account99__c')

## End(Not run)
```

`sf_report_folders_list`*List report folders*

Description**Experimental****Usage**`sf_report_folders_list()`**Value**`list`

`sf_report_folder_children`*Get the subfolders (children) of a report folder*

Description**Experimental****Usage**`sf_report_folder_children(report_folder_id, page_size = 10, page = NULL)`**Arguments**`report_folder_id`

character; the Salesforce Id assigned to a created analytics folder (it will start with "00I").

`page_size`

integer; integer that indicates how many results each page returns. Default is 10.

`page`

integer; integer that indicates which page of results to return.

sf_report_folder_create

Create report folder

Description

Experimental

Usage

```
sf_report_folder_create(body)
```

Arguments

body *list*; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value

list

sf_report_folder_delete

Delete a report folder

Description

Experimental

Usage

```
sf_report_folder_delete(report_folder_id)
```

Arguments

report_folder_id *character*; the Salesforce Id assigned to a created analytics folder (it will start with "001").

Value

logical

`sf_report_folder_describe`*Describe a report folder*

Description**Experimental****Usage**`sf_report_folder_describe(report_folder_id)`**Arguments**`report_folder_id`

character; the Salesforce Id assigned to a created analytics folder (it will start with "00I").

Value`list`

`sf_report_folder_shares_add`*Add shares to a report folder*

Description**Experimental**

Creates new shares and appends them to the existing share list for the folder.

Usage`sf_report_folder_shares_add(report_folder_id, body)`**Arguments**`report_folder_id`

character; the Salesforce Id assigned to a created analytics folder (it will start with "00I").

`body`

`list`; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value`list`

sf_report_folder_shares_list

List the shares in a report folder

Description

Experimental

Usage

```
sf_report_folder_shares_list(report_folder_id)
```

Arguments

report_folder_id

character; the Salesforce Id assigned to a created analytics folder (it will start with "00I").

Value

list

sf_report_folder_shares_update

Update the shares for a report folder

Description

Experimental

Creates new shares to replace the existing shares in the share list for the folder.

Usage

```
sf_report_folder_shares_update(report_folder_id, body)
```

Arguments

report_folder_id

character; the Salesforce Id assigned to a created analytics folder (it will start with "00I").

body

list; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value

list

sf_report_folder_share_delete

Delete a report folder share

Description

Experimental

Usage

sf_report_folder_share_delete(report_folder_id, share_id)

Arguments

report_folder_id

character; the Salesforce Id assigned to a created analytics folder (it will start with "001").

share_id

character; the Salesforce Id assigned to a created analytics folder share (it will start with "004").

Value

logical

sf_report_folder_share_describe

Describe a report folder share

Description

Experimental

Usage

sf_report_folder_share_describe(report_folder_id, share_id)

Arguments

report_folder_id

character; the Salesforce Id assigned to a created analytics folder (it will start with "001").

share_id

character; the Salesforce Id assigned to a created analytics folder share (it will start with "004").

Value

list

 sf_report_folder_share_recipients

Get report folder share recipients

Description

Experimental

Usage

```
sf_report_folder_share_recipients(
  report_folder_id,
  share_type = c("User", "Group", "Role"),
  search_term = "",
  limit = 100
)
```

Arguments

report_folder_id	character; the Salesforce Id assigned to a created analytics folder (it will start with "001").
share_type	character; Return data for the recipients of the specified type, such as "User", "Group", or "Role".
search_term	character; Search to match share recipients' names. Default is "" (no restriction).
limit	integer; Limit to the number of search results. Default is 100.

Value

list

sf_report_folder_share_update

Update a report folder share

Description

Experimental

Usage

```
sf_report_folder_share_update(report_folder_id, share_id, body)
```


Arguments

report_folder_id	character; the Salesforce Id assigned to a created analytics folder (it will start with "001").
share_id	character; the Salesforce Id assigned to a created analytics folder share (it will start with "004").
body	list; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value

list

sf_report_folder_update

Update a report folder

Description**Experimental****Usage**

```
sf_report_folder_update(report_folder_id, body)
```

Arguments

report_folder_id	character; the Salesforce Id assigned to a created analytics folder (it will start with "001").
body	list; a list of data to be formatted as JSON before being sent to an API endpoint. This is NOT validated and is only experimental in allowing users to utilize the API functionality before wrapper functions have been written in R to format and validate the request in a more user-friendly format.

Value

list

sf_reset_password	<i>Reset User Password</i>
-------------------	----------------------------

Description

Experimental

Changes a user's password to a temporary, system-generated value.

Usage

```
sf_reset_password(user_id, control = list(...), ..., verbose = FALSE)
```

Arguments

user_id	character; the unique Salesforce Id assigned to the User
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list

Examples

```
## Not run:
# reset a user's password and ensure that an email is triggered to them
sf_reset_password(user_id = "0056A000000ZZZaaBBB",
  EmailHeader = list(triggerAutoResponseEmail = FALSE,
    triggerOtherEmail = FALSE,
    triggerUserEmail = TRUE))

## End(Not run)
```

sf_retrieve	<i>Retrieve Records By Id</i>
-------------	-------------------------------

Description

Maturing

Retrieves one or more new records to your organization's data.

Usage

```
sf_retrieve(
  ids,
  fields,
  object_name,
  api_type = c("REST", "SOAP", "Bulk 1.0", "Bulk 2.0"),
  guess_types = TRUE,
  control = list(...),
  ...,
  verbose = FALSE
)
```

Arguments

ids	vector, matrix, data.frame, or tbl_df; if not a vector, there must be a column called Id (case-insensitive) that can be passed in the request
fields	character; one or more strings indicating the fields to be returned on the records
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tibble

Examples

```
## Not run:
n <- 3
new_contacts <- tibble(FirstName = rep("Test", n),
  LastName = paste0("Contact", 1:n))
new_contacts_result <- sf_create(new_contacts, object_name="Contact")
retrieved_records <- sf_retrieve(ids=new_contacts_result$id,
  fields=c("LastName"),
  object_name="Contact")

## End(Not run)
```

sf_retrieve_metadata *Make A Request to Retrieve the Metadata*

Description

Experimental

This function makes a request to retrieve metadata as a package XML files that can be modified and later deployed into an environment

Usage

```
sf_retrieve_metadata(  
  retrieve_request,  
  filename = "package.zip",  
  check_interval = 3,  
  max_tries = 20,  
  verbose = FALSE  
)
```

Arguments

retrieve_request	a list of parameters defining what XML file representations should be returned
filename	a file path to save the zip file in the event that it is downloaded. The name must have a .zip extension. The default behavior will be to save in the current working directory as "package.zip"
check_interval	numeric; specifying the seconds to wait between retrieve status requests to check if complete
max_tries	numeric; specifying the maximum number of times to check whether the retrieve package.zip is complete before the function times out
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A list of details from the created retrieve request

Note

See the Salesforce documentation for the proper arguments to create a retrieveRequest. Here is a link to that documentation: https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/meta_retrieve_request.htm

References

https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/meta_retrieve.htm

Examples

```
## Not run:
retrieve_request <- list(unpackaged=list(types=list(members='*',
                                                  name='CustomObject')))
retrieve_info <- sf_retrieve_metadata(retrieve_request)

## End(Not run)
```

sf_run_bulk_operation *Run Bulk Operation*

Description**Maturing**

This function is a convenience wrapper for submitting bulk API jobs

Usage

```
sf_run_bulk_operation(
  input_data,
  object_name,
  operation = c("insert", "delete", "upsert", "update", "hardDelete"),
  external_id_fieldname = NULL,
  guess_types = TRUE,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  batch_size = NULL,
  interval_seconds = 3,
  max_attempts = 200,
  wait_for_results = TRUE,
  control = list(...),
  ...,
  verbose = FALSE
)

sf_bulk_operation(
  input_data,
  object_name,
  operation = c("insert", "delete", "upsert", "update", "hardDelete"),
  external_id_fieldname = NULL,
  guess_types = TRUE,
  api_type = c("Bulk 1.0", "Bulk 2.0"),
  batch_size = NULL,
  interval_seconds = 3,
  max_attempts = 200,
  wait_for_results = TRUE,
  control = list(...),
  ...,
  verbose = FALSE
)
```

Arguments

input_data	named vector, matrix, data.frame, or tbl_df; data can be coerced into CSV file for submitting as batch request
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
operation	character; string defining the type of operation being performed
external_id_fieldname	character; string identifying a custom field on the object that has been set as an "External ID" field. This field is used to reference objects during upserts to determine if the record already exists in Salesforce or not.
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
batch_size	integer; the number of individual records to be included in a single batch uploaded to the Bulk APIs (1.0 or 2.0).
interval_seconds	integer; defines the seconds between attempts to check for job completion.
max_attempts	integer; defines then max number attempts to check for job completion before stopping.
wait_for_results	logical; indicating whether to wait for the operation to complete so that the batch results of individual records can be obtained
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	other arguments passed on to sf_control or sf_create_job_bulk to specify the content_type, concurrency_mode, and/or column_delimiter.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df of the results of the bulk job

Note

With Bulk 2.0 the order of records in the response is not guaranteed to match the ordering of records in the original job data.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
n <- 20
new_contacts <- tibble(FirstName = rep("Test", n),
                      LastName = paste0("Contact", 1:n))
# insert new records into the Contact object
inserts <- sf_bulk_operation(input_data = new_contacts,
                             object_name = "Contact",
                             operation = "insert")

## End(Not run)
```

sf_run_bulk_query	<i>Run bulk query</i>
-------------------	-----------------------

Description

Maturing

This function is a convenience wrapper for submitting and retrieving query API jobs from the Bulk 1.0 and Bulk 2.0 APIs.

Usage

```
sf_run_bulk_query(
  soql,
  object_name = NULL,
  queryall = FALSE,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  interval_seconds = 3,
  max_attempts = 200,
  control = list(...),
  ...,
  api_type = c("Bulk 2.0", "Bulk 1.0"),
  verbose = FALSE
)

sf_query_bulk(
  soql,
  object_name = NULL,
  queryall = FALSE,
  guess_types = TRUE,
  bind_using_character_cols = FALSE,
  interval_seconds = 3,
  max_attempts = 200,
  control = list(...),
  ...,
  api_type = c("Bulk 2.0", "Bulk 1.0"),
  verbose = FALSE
)
```

Arguments

soql	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
queryall	logical; indicating if the query recordset should include records that have been deleted because of a merge or delete. Setting this argument to TRUE will also return information about archived Task and Event records. It is available in API versions 29.0 and later.
guess_types	logical; indicating whether or not to use <code>col_guess()</code> to try and cast the data returned in the recordset. If TRUE then <code>col_guess()</code> is used, if FALSE then all fields will be returned as character. This is helpful when <code>col_guess()</code> will mangle field values in Salesforce that you'd like to preserve during translation into a <code>tbl_df</code> , like numeric looking values that must be preserved as strings ("48.0").
bind_using_character_cols	logical; an indicator of whether to cast the data to all character columns to ensure that <code>bind_rows</code> does not fail because two paginated recordsets have differing datatypes for the same column. Set this to TRUE rarely, typically only when having this set to FALSE returns an error or you want all columns in the data to be character.
interval_seconds	integer; defines the seconds between attempts to check for job completion.
max_attempts	integer; defines then max number attempts to check for job completion before stopping.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for <code>sf_control</code> .
...	other arguments passed on to <code>sf_control</code> or <code>sf_create_job_bulk</code> to specify the <code>content_type</code> , <code>concurrency_mode</code> , and/or <code>column_delimiter</code> .
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A `tbl_df` of the recordset returned by the query

References

[Bulk 1.0 documentation](#) and [Bulk 2.0 documentation](#)

Examples

```
## Not run:
# select all Ids from Account object (up to 1000)
ids <- sf_query_bulk(soql = 'SELECT Id FROM Account LIMIT 1000')
```



```
# note that, by default, bulk queries are executed using the Bulk 2.0 API, which
# does not required the object name, but the Bulk 1.0 API can be still be invoked
# for queries by setting api_type="Bulk 1.0".

# alternatively you can specify as:
ids <- sf_query(soql = 'SELECT Id FROM Account LIMIT 1000',
                api_type = "Bulk 2.0")

ids <- sf_query(soql = 'SELECT Id FROM Account LIMIT 1000',
                object_name = 'Account',
                api_type = "Bulk 1.0")

## End(Not run)
```

sf_run_report

Get a report's data in tabular format

Description

Experimental

This function is a convenience wrapper for retrieving the data from a report. By default, it executes an asynchronous report and waits for the detailed data summarized in a tabular format, before pulling them down and returning as a `tbl_df`.

Usage

```
sf_run_report(
  report_id,
  report_filters = NULL,
  report_boolean_logic = NULL,
  sort_by = character(0),
  decreasing = FALSE,
  top_n = NULL,
  async = TRUE,
  interval_seconds = 3,
  max_attempts = 200,
  wait_for_results = TRUE,
  verbose = FALSE
)
```

Arguments

`report_id` character; the Salesforce Id assigned to a created analytics report. It will start with "000".

`report_filters` list; A list of reportFilter specifications. Each must be a list with 3 elements: 1) column, 2) operator, and 3) value. You can find out how certain field types can be filtered by reviewing the results of [sf_list_report_filter_operators](#).

`report_boolean_logic` character; a string of boolean logic to parse custom field filters if more than one is specified. For example, if three filters are specified, then they can be combined using the logic "(1 OR 2) AND 3".

sort_by	character; the name of the column(s) used to sort the results.
decreasing	logical; a indicator of whether the results should be ordered by increasing or decreasing values in sort_by column when selecting the top N records. Note, this argument will be ignored if not specifying Top N. You can sort the records using arrange after the results are returned.
top_n	integer; an integer which sets a row limit filter to a report. The results will be ordered as they appear in the report unless specified differently via the sort_by and decreasing arguments. Note, it is sometimes helpful to specify the top_n argument if a report contains many rows, but you are only interested in a subset of them. Alternatively, you can limit the count of returned rows via the report_filters argument.
async	logical; an indicator, by default set to TRUE, which executes the report asynchronously. If executed asynchronously, this function will return a list of attributes of the created report instance. The results can be pulled down by providing the report id and instance id to the function sf_get_report_instance_results . Refer to the details of the documentation on why executing a report asynchronously is preferred.
interval_seconds	integer; defines the seconds between attempts to check for job completion.
max_attempts	integer; defines then max number attempts to check for job completion before stopping.
wait_for_results	logical; indicating whether to wait for the report finish running so that data can be obtained. Otherwise, return the report instance details which can be used to retrieve the results when the async report has finished.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Details

This function is essentially a wrapper around [sf_execute_report](#). Please review or use that function and/or [sf_query_report](#) if you want to have more control over how the report is run and what format should be returned. In this case we've forced the reportFormat="TABULAR" without total rows and given options to filter, and select the Top N as function arguments rather than forcing the user to create an entire list of reportMetadata.

Value

tbl_df

See Also

Please see the following resources for more information:

- [Sync, Example - Sync](#)
- [Async, Example - Async](#)
- [Filtering Results](#)

Examples

```

## Not run:
# find a report in your org and run it
all_reports <- sf_query("SELECT Id, Name FROM Report")
this_report_id <- all_reports$Id[1]
results <- sf_run_report(this_report_id)

# apply your own filters to that same report
# set up some filters, if needed
# filter records that was created before this month
filter1 <- list(column = "CREATED_DATE",
               operator = "lessThan",
               value = "THIS_MONTH")

# filter records where the account billing address city is not empty
filter2 <- list(column = "ACCOUNT.ADDRESS1_CITY",
               operator = "notEqual",
               value = "")

# combine filter1 and filter2 using 'AND' so that records must meet both filters
results_using_AND <- sf_run_report(my_report_id,
                                report_boolean_logic = "1 AND 2",
                                report_filters = list(filter1, filter2))

# combine filter1 and filter2 using 'OR' which means that records must meet one
# of the filters but also throw in a row limit based on a specific sort order
results_using_OR <- sf_run_report(my_report_id,
                                report_boolean_logic = "1 OR 2",
                                report_filters = list(filter1, filter2),
                                sort_by = "Contact.test_number__c",
                                decreasing = TRUE,
                                top_n = 5)

## End(Not run)

```

sf_search

*Perform SOSL Search***Description****Maturing**

Searches for records in your organization's data.

Usage

```

sf_search(
  search_string,
  is_sosl = FALSE,
  guess_types = TRUE,
  api_type = c("REST", "SOAP", "Bulk 1.0", "Bulk 2.0"),
  parameterized_search_options = list(...),
  verbose = FALSE,
  ...
)

```

Arguments

search_string	character; string to search using parameterized search or SOSL. Note that is_sosl must be set to TRUE and the string valid in order to perform a search using SOSL.
is_sosl	logical; indicating whether or not to try the string as SOSL
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
parameterized_search_options	list; a list of parameters for controlling the search if not using SOSL. If using SOSL this argument is ignored.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.
...	arguments to be used to form the parameterized search options argument if it is not supplied directly.

Value

tibble

Note

The maximum number of returned rows in the SOSL query results is 2,000. Please refer to the limits [HERE](#) for more detail.

References

https://developer.salesforce.com/docs/atlas.en-us.soql_sosl.meta/soql_sosl/sforce_api_calls_sosl.htm

Examples

```
## Not run:
# free text search
area_code_search_string <- "(336)"
search_result <- sf_search(area_code_search_string)

# free text search with parameters
search_result <- sf_search(area_code_search_string,
                           fields_scope = "PHONE",
                           objects = "Lead",
                           fields = c("id", "phone", "firstname", "lastname"))

# using SOSL
my_sosl_search <- paste("FIND {(336)} in phone fields returning",
```

```

        "contact(id, phone, firstname, lastname),"
        "lead(id, phone, firstname, lastname)")
    sosl_search_result <- sf_search(my_sosl_search, is_sosl=TRUE)

    ## End(Not run)

```

sf_server_timestamp *Salesforce Server Timestamp*

Description

Stable

Retrieves the current system timestamp from the API.

Usage

```
sf_server_timestamp()
```

Value

POSIXct formatted timestamp

Examples

```

## Not run:
sf_server_timestamp()

## End(Not run)

```

sf_set_password *Set User Password*

Description

Experimental

Sets the specified user's password to the specified value.

Usage

```
sf_set_password(user_id, password, verbose = FALSE)
```

Arguments

user_id	character; the unique Salesforce Id assigned to the User
password	character; a new password that you would like to set for the supplied user that complies to your organizations password requirements
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list

Examples

```
## Not run:
sf_set_password(user_id = "0056A000000ZZZaaBBB", password="password123")

## End(Not run)
```

sf_submit_query_bulk *Submit Bulk Query Batch to a Bulk API Job*

Description

This function takes a SOQL text string and submits the query to an already existing Bulk API Job of operation "query"

Usage

```
sf_submit_query_bulk(job_id, soql, api_type = c("Bulk 1.0"), verbose = FALSE)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
soql	character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A list parameters of the batch

Note

Bulk API query doesn't support the following SOQL:

- COUNT
- ROLLUP
- SUM
- GROUP BY CUBE
- OFFSET
- Nested SOQL queries
- Relationship fields

Additionally, Bulk API can't access or query compound address or compound geolocation fields.

References

[Bulk 1.0 documentation](#)

Examples

```
## Not run:
my_query <- "SELECT Id, Name FROM Account LIMIT 1000"
job_info <- sf_create_job_bulk(operation = 'query', object = 'Account')
query_info <- sf_submit_query_bulk(job_id = job_info$id, soql = my_query)

## End(Not run)
```

sf_undelete	<i>Undelete Records</i>
-------------	-------------------------

Description

Experimental

Undeletes records from the Recycle Bin.

Usage

```
sf_undelete(
  ids,
  api_type = c("SOAP"),
  control = list(...),
  ...,
  verbose = FALSE
)
```

Arguments

ids	vector, matrix, data.frame, or tbl_df; if not a vector, there must be a column called Id (case-insensitive) that can be passed in the request
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records with success indicator

Note

Because the SOAP and REST calls chunk data into batches of 200 records the AllOrNoneHeader will only apply to the success or failure of every batch of records and not all records submitted to the function.

References

https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce_api_calls_undelete.htm

Examples

```
## Not run:
new_contact <- c(FirstName = "Test", LastName = "Contact")
new_records <- sf_create(new_contact, object_name = "Contact")
delete <- sf_delete(new_records$id[1],
                   AllOrNoneHeader = list(allOrNone = TRUE))
is_deleted <- sf_query(sprintf("SELECT Id, IsDeleted FROM Contact WHERE Id='%s'",
                              new_records$id[1]),
                      queryall = TRUE)
undelete <- sf_undelete(new_records$id[1])
is_not_deleted <- sf_query(sprintf("SELECT Id, IsDeleted FROM Contact WHERE Id='%s'",
                                  new_records$id[1]))

## End(Not run)
```

sf_update

Update Records

Description**Maturing**

Updates one or more records to your organization's data.

Usage

```
sf_update(
  input_data,
  object_name,
  api_type = c("SOAP", "REST", "Bulk 1.0", "Bulk 2.0"),
  guess_types = TRUE,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```


Arguments

input_data	named vector, matrix, data.frame, or tbl_df; data can be coerced into a data.frame
object_name	character; the name of the Salesforce object that the function is operating against (e.g. "Account", "Contact", "CustomObject__c").
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
guess_types	logical; indicating whether or not to use col_guess() to try and cast the data returned in the recordset. If TRUE then col_guess() is used, if FALSE then all fields will be returned as character. This is helpful when col_guess() will mangle field values in Salesforce that you'd like to preserve during translation into a tbl_df, like numeric looking values that must be preserved as strings ("48.0").
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control or further downstream to sf_bulk_operation
all_or_none	logical; allows a call to roll back all changes unless all records are processed successfully.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

tbl_df of records with success indicator

Note

Because the SOAP and REST calls chunk data into batches of 200 records the AllOrNoneHeader will only apply to the success or failure of every batch of records and not all records submitted to the function.

Examples

```
## Not run:
n <- 2
new_contacts <- tibble(FirstName = rep("Test", n),
                      LastName = paste0("Contact", 1:n))
new_records <- sf_create(new_contacts, "Contact")
updated_contacts <- tibble(FirstName = rep("TestTest", n),
                          LastName = paste0("Contact", 1:n),
                          Id = new_records$id)
# update and allow fields to be truncated if they are too long
update <- sf_update(input_data = updated_contacts, object_name = "Contact",
                   AllowFieldTruncationHeader=list(allowFieldTruncation=TRUE))

## End(Not run)
```

sf_update_metadata *Update Object or Field Metadata in Salesforce*

Description

Experimental

This function takes a list of Metadata components and sends them to Salesforce to update an object that already exists

Usage

```
sf_update_metadata(
  metadata_type,
  metadata,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```

Arguments

metadata_type	character; string on what type of metadata to create.
metadata	list; metadata components to be created formatted as XML before being sent via API.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
all_or_none	logical; allows a call to roll back all changes unless all records are processed successfully.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df containing the creation result for each submitted metadata component

Note

The update key is based on the fullName parameter of the metadata, so updates are triggered when an existing Salesforce element matches the metadata type and fullName.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# create an object that we can update
base_obj_name <- "Custom_Account1"
custom_object <- list()
custom_object$fullName <- paste0(base_obj_name, "__c")
custom_object$label <- paste0(gsub("_", " ", base_obj_name))
custom_object$pluralLabel <- paste0(base_obj_name, "s")
custom_object$nameField <- list(displayFormat = 'AN-{0000}',
                               label = paste0(base_obj_name, ' Number'),
                               type = 'AutoNumber')
custom_object$deploymentStatus <- 'Deployed'
custom_object$sharingModel <- 'ReadWrite'
custom_object$enableActivities <- 'true'
custom_object$description <- paste0(base_obj_name, " created by the Metadata API")
custom_object_result <- sf_create_metadata(metadata_type = 'CustomObject',
                                          metadata = custom_object)

# now update the object that was created
update_metadata <- custom_object
update_metadata$fullName <- 'Custom_Account1__c'
update_metadata$label <- 'New Label Custom_Account1'
update_metadata$pluralLabel <- 'Custom_Account1s_new'
updated_custom_object_result <- sf_update_metadata(metadata_type = 'CustomObject',
                                                  metadata = update_metadata)

## End(Not run)
```

sf_update_report	<i>Update a report</i>
------------------	------------------------

Description**Experimental**

Save changes to a report by sending a PATCH request to the Report resource. Note that saving a report deletes any running async report jobs because they might be obsolete based on the updates.

Usage

```
sf_update_report(report_id, report_metadata, verbose = FALSE)
```

Arguments

report_id	character; the Salesforce Id assigned to a created analytics report. It will start with "000".
report_metadata	list; a list representing the properties to create the report with. The names of the list must be one or more of the 3 accepted metadata properties: reportMetadata, reportTypeMetadata, reportExtendedMetadata.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list representing the newly cloned report with up to 4 properties that describe the report:

attributes Report type along with the URL to retrieve common objects and joined metadata.

reportMetadata Unique identifiers for groupings and summaries.

reportTypeMetadata Fields in each section of a report type plus filter information for those fields.

reportExtendedMetadata Additional information about summaries and groupings.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# first, grab all possible reports in your Org
all_reports <- sf_query("SELECT Id, Name FROM Report")

# second, get the id of the report to update
this_report_id <- all_reports$Id[1]

my_updated_report <- sf_update_report(this_report_id,
                                     report_metadata =
                                       list(reportMetadata =
                                             list(name = "Updated Report Name!")))

# alternatively, pull down its metadata and update the name
report_details <- sf_describe_report(this_report_id)
report_details$reportMetadata$name <- paste0(report_details$reportMetadata$name,
                                             " - UPDATED")

# fourth, update the report by passing the metadata
my_updated_report <- sf_update_report(this_report_id,
                                     report_metadata = report_details)

## End(Not run)
```

sf_upload_complete_bulk

Signal Upload Complete to Bulk API Job

Description

This function signals that uploads are complete to a Job in the Salesforce Bulk API

Usage

```
sf_upload_complete_bulk(job_id, api_type = c("Bulk 2.0"), verbose = FALSE)
```

Arguments

job_id	character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk . It will start with "750".
api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A list of parameters defining the job after signaling a completed upload

Note

This function is typically not used directly. It is used in `sf_create_batches_bulk()` right after submitting the batches to signal to Salesforce that the batches should no longer be queued.

References

https://developer.salesforce.com/docs/atlas.en-us.api_asynch.meta/api_asynch/

Examples

```
## Not run:
upload_info <- sf_upload_complete_bulk(job_id=job_info$id)

## End(Not run)
```

sf_upsert

Upsert Records

Description**Maturing**

Upserts one or more new records to your organization's data.

Usage

```
sf_upsert(
  input_data,
  object_name,
  external_id_fieldname,
  api_type = c("SOAP", "REST", "Bulk 1.0", "Bulk 2.0"),
  guess_types = TRUE,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```



```
## End(Not run)
```

sf_upsert_metadata *Upsert Object or Field Metadata in Salesforce*

Description

Experimental

This function takes a list of Metadata components and sends them to Salesforce for creation or update if the object already exists

Usage

```
sf_upsert_metadata(
  metadata_type,
  metadata,
  control = list(...),
  ...,
  all_or_none = deprecated(),
  verbose = FALSE
)
```

Arguments

metadata_type	character; string on what type of metadata to create.
metadata	list; metadata components to be created formatted as XML before being sent via API.
control	list; a list of parameters for controlling the behavior of the API call being used. For more information of what parameters are available look at the documentation for sf_control .
...	arguments passed to sf_control
all_or_none	logical; allows a call to roll back all changes unless all records are processed successfully.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

A tbl_df containing the creation result for each submitted metadata component

Note

The upsert key is based on the fullName parameter of the metadata, so updates are triggered when an existing Salesforce element matches the metadata type and fullName.

See Also

[Salesforce Documentation](#)

Examples

```
## Not run:
# create an object that we can confirm the update portion of the upsert
base_obj_name <- "Custom_Account1"
custom_object <- list()
custom_object$fullName <- paste0(base_obj_name, "__c")
custom_object$label <- paste0(gsub("_", " ", base_obj_name))
custom_object$pluralLabel <- paste0(base_obj_name, "s")
custom_object$nameField <- list(displayFormat = 'AN-{0000}',
                                label = paste0(base_obj_name, ' Number'),
                                type = 'AutoNumber')
custom_object$deploymentStatus <- 'Deployed'
custom_object$sharingModel <- 'ReadWrite'
custom_object$enableActivities <- 'true'
custom_object$description <- paste0(base_obj_name, " created by the Metadata API")
custom_object_result <- sf_create_metadata(metadata_type = 'CustomObject',
                                          metadata = custom_object)

# now update the object that was created
upsert_metadata <- list(custom_object, custom_object)
upsert_metadata[[1]]$fullName <- 'Custom_Account1__c'
upsert_metadata[[1]]$label <- 'New Label Custom_Account1'
upsert_metadata[[1]]$pluralLabel <- 'Custom_Account1s_new'
upsert_metadata[[2]]$fullName <- 'Custom_Account2__c'
upsert_metadata[[2]]$label <- 'New Label Custom_Account2'
upsert_metadata[[2]]$pluralLabel <- 'Custom_Account2s_new'
upserted_custom_object_result <- sf_upsert_metadata(metadata_type = 'CustomObject',
                                                    metadata = upsert_metadata)

## End(Not run)
```

sf_user_info

Return Current User Info

Description

Maturing

Retrieves personal information for the user associated with the current session.

Usage

```
sf_user_info(api_type = c("SOAP", "Chatter"), verbose = FALSE)
```

Arguments

api_type	character; one of "REST", "SOAP", "Bulk 1.0", or "Bulk 2.0" indicating which API to use when making the request.
verbose	logical; an indicator of whether to print additional detail for each API call, which is useful for debugging. More specifically, when set to TRUE the URL, header, and body will be printed for each request, along with additional diagnostic information where available.

Value

list

Examples

```
## Not run:  
sf_user_info()  
  
## End(Not run)
```

`valid_metadata_list` *List of Valid Data Types*

Description

A list of data types that are valid for the Metadata API service.

Usage

```
valid_metadata_list()
```

Value

codelist; contains name and valid inputs for data types

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