Package ‘salesforcer’

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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, and Meta-data) <https://trailhead.salesforce.com/en/content/learn/modules/api_basics/api_basics_overview>. 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.

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

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

Encoding UTF-8

Depends R (>= 3.5.0)

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LazyData true

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**build_metadata_xml_from_list**

Metadata List to XML Converter

**Description**

This function converts a list of metadata to XML.

**Usage**

```r
build_metadata_xml_from_list(input_data, metatype = NULL,
root_name = NULL, ns = c(character(0)), root = NULL)
```

**Arguments**

- **input_data**: XML document serving as the basis upon which to add the list
- **metatype**: character indicating the element name of each record in the list
- **root_name**: character; the name of the root node if created
- **ns**: named vector; a collection of character strings indicating the namespace definitions of the root node if created
- **root**: XMLNode; a node to be used as the root
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 = object_name, api_type = "SOAP")[[1]]
obj_fields_list <- obj_dat[names(obj_dat) == "fields"]
map(collapse_list_with_dupe_names)

## End(Not run)
**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**

```python
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 `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
  • HttpHead
  • 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)
pageOrSobjectType  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)
pageOrSobjectType 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

cchannel 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 AssignmentRules)
assignmentRule a AssignmentRule

AssistantRecommendationType
Salesforce Documentation for AssistantRecommendationType

fullName a character (inherited from AssistantRecommendationType)
description a character
masterLabel a character
platformActionlist a PlatformActionList
sobjectType 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 RCurl::base64Encode
styleContent a character formed using RCurl::base64Encode
testsuiteContent a character formed using RCurl::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
**metadata_type_validator**

**BusinessHoursEntry**  
Salesforce Documentation for BusinessHoursEntry

- **propertyName** a character
- **propertyValue** a character

**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

**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
**metadata_type_validator**

- `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
Certificate
Salesforce Documentation for Certificate

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

- 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
- **sourceSobjectType** a character
- **status** a CleanRuleStatus - which is a character taking one of the following values:
  - Inactive
  - Active
- **targetSobjectType** 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
eemailFooterDocument a character
eemailHeaderDocument a character
eemailNotificationUrl 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
**metadata_type_validator**

```plaintext
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
tertiaryColor a character
tertiaryComplementColor 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'
metadata_type_validator

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
metadata_type_validator

- 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:
metadata_type_validator

- 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_e_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)
keyCode 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

ccontentSniffingProtection  a character either 'true' or 'false'
cspUpgradeInsecureRequests  a character either 'true' or 'false'
customWebAddresses  a SiteWebAddress
description  a character
favoriteIcon  a character

fileNameNotFoundPage  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
cfolderName 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)

DashboardGridColumn

Salesforce Documentation for DashboardGridColumn

colSpan a integer
columnIndex a integer
dashboardComponent a DashboardComponent
rowIndex a integer
rowSpan a integer

DashboardGridLayout

Salesforce Documentation for DashboardGridLayout

dashboardGridComponents a DashboardGridColumn
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 RCurl::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
retrievalResult 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 FolderAccessType (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

ccontent 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'
enitlementLookupLimitedToActiveStatus  a character either 'true' or 'false'
enitlementLookupLimitedToSameAccount  a character either 'true' or 'false'
enitlementLookupLimitedToSameAsset  a character either 'true' or 'false'
enitlementLookupLimitedToSameContact  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
**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, 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 er-
  ror 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 - Er-
  rors with this extended error code have the following properties: metadataValue
• DATATYPE_INVALID - Errors with this extended error code have the following proper-
  ties: elementName, dataType
• DATATYPE_MISSING - Errors with this extended error code have the following proper-
  ties: elementName
• DECISION_DEFAULTCONNECTOR_MISSING_LABEL - Errors with this extended
  error code have the following properties: flowDecision
• DECISION_MISSING_OUTCOME - Errors with this extended error code have the fol-
  lowing properties: flowDecision
• ELEMENT_CONNECTS_TO_SELF - Errors with this extended error code have the fol-
  lowing 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_REFERENCESSAME_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_MISMATCHED_WITH_NONCOLLECTION_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, fieldName
• 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
• SOBJECT_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, sobjectName
• 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_SOBJECT_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_OBJECT_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_CHOICEREFERENCED_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_INPUTQUIRES_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_OBJECTVARIABLE - 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_PROCESSMETADATAVALUES_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
metadata_type_validator

```plaintext
certificate a character
customConfiguration a character
defaultType 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

relatedSObjectType a character
**FeedItemSettings**

Salesforce Documentation for FeedItemSettings

- **characterLimit**: an 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
metadata_type_validator

**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 ’yyyymm-ddThh:mm:ssZ’

**fileName** a character

**fullName** a character

**id** a character

**lastModifiedById** a character

**lastModifiedByName** a character

**lastModifiedDate** a character formatted as ’yyyymm-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
• JPJ
• 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
metadata_type_validator

- JAR
- XIS
- 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
sobjectType 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
wants 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

*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 'yyyymm-ddThh:mm:ssZ'
- **dateValue** a character formatted as 'yyyymm-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 FlowElementReferenceOrValue

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 'yyyyMMdd'
**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 'yyyyMMdd'
**recurrenceInstance**  a character
**recurrenceInterval**  a integer
**recurrenceMonthOfYear**  a character
**recurrenceStartDate**  a character formatted as 'yyyyMMdd'
**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
setup SimpleName  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

articlePDCreationProfile 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'
**metadata_type_validator**

- **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'

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**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
metadata_type_validator

• 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
chasitorIdleTimeout 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
metadata_type_validator

- `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
• 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
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*
**metadata_type_validator**

- **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)
mappingRules 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

description  a character
entityName  a character
fieldName  a character
keywordList  a character

ModerationRule
Salesforce Documentation for ModerationRule

description  a character
efullName  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
dateTimePeriod  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

dateTimePeriod  a RateLimitTimePeriod - which is a character taking one of the following values:
  • Short
  • Medium

allowMergeFieldsInBody  a character either 'true' or 'false'
allowMergeFieldsInHeader a character either ‘true’ or ‘false’
authProvider a character
certificate a character
destination 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 NavigationMenuSet

NavigationMenuItem
Salesforce Documentation for NavigationMenuSet

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 RCurl::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
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'

`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

distributed 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
metadata_type_validator

**label**: masterLabel  a character

**runtimeType**: runtimeType  a character

**salesforceObject**: salesforceObject  a character

**salesforceObjectPrimaryKey**: salesforceObjectPrimaryKey  a character

**OrchestrationContextEvent**

Salesforce Documentation for OrchestrationContextEvent

**eventType**: eventType  a character

**orchestrationEvent**: orchestrationEvent  a character

**platformEvent**: platformEvent  a character

**platformEventPrimaryKey**: platformEventPrimaryKey  a character

**OrderSettings**

Salesforce Documentation for OrderSettings

**fullName**: fullName  a character (inherited from Metadata)

**enableNegativeQuantity**: enableNegativeQuantity  a character either 'true' or 'false'

**enableOrders**: enableOrders  a character either 'true' or 'false'

**enableReductionOrders**: enableReductionOrders  a character either 'true' or 'false'

**enableZeroQuantity**: enableZeroQuantity  a character either 'true' or 'false'

**OrganizationSettingsDetail**

Salesforce Documentation for OrganizationSettingsDetail

**settingName**: settingName  a character

**settingValue**: settingValue  a character either 'true' or 'false'

**OrgPreferenceSettings**

Salesforce Documentation for OrgPreferenceSettings

**fullName**: fullName  a character (inherited from Metadata)

**preferences**: preferences  a OrganizationSettingsDetail

**Package**

Salesforce Documentation for Package

**fullName**: fullName  a character (inherited from Metadata)

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

**description**: description  a character

**namespacePrefix**: namespacePrefix  a character

**objectPermissions**: objectPermissions  a ProfileObjectPermissions

**packageType**: 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
- Ninety Days
- 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
  • DoesNotExistPassword

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
pageOrSobjectType 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
queueObject a QueueObject

QueueMembers
Salesforce Documentation for QueueMembers

publicGroups a PublicGroups
roleAndSubordinates a RoleAndSubordinates
roleAndSubordinatesInternal a RoleAndSubordinatesInternal
roles    a Roles
users    a Users

QueueObject
Salesforce Documentation for QueueObject

objectType 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:
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
g-folderName a character
format a ReportFormat - which is a character taking one of the following values:
  • MultiBlock
  • Matrix
  • Summary
  • Tabular
g-groupingsAcross a ReportGrouping
g-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 ReportBucketFieldSourceValue

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

backgroundColorFadeDir 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 FolderAccessType (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
**metadata_type_validator**

- **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
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 RCurl::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 RCurl::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
errorCodeColor 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
full Name  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
full Name  a character (inherited from Metadata)
customApplications  a CustomApplicationTranslation
customDataTypeTranslations  a CustomDataTypeTranslation
customLabels  aCustomLabelTranslation
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)
**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
metadata_type_validator

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
datasetFullyQualified Name 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
disable  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
disable  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
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
cceEmails 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
lookupValue Type  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 follow-
ing values:
  • Hours
  • Days

WorkspaceMapping
Salesforce Documentation for WorkspaceMapping
fieldName a character
tab a character
parameterized_search_control

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

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 sobject 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 sobject 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  Run Bulk Action

Description

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** a named character vector defining parameters of the api connection as returned by `rforcecom.login`
- **operation** a character string defining the type of operation being performed
- **data** a matrix or data.frame that can be coerced into .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 10000 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; do you want informative messages?
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

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

---

**rforcecom.bulkQuery**  
*salesforce's backwards compatible version of rforcecom.bulkQuery*

**Description**

salesforce's backwards compatible version of rforcecom.bulkQuery

**Usage**

```r
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::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; do you want informative messages?

**Value**

A `data.frame` of the recordset returned by query
rforcecom.create  
salesforce's backwards compatible version of rforcecom.create

**Description**

salesforce's backwards compatible version of rforcecom.create

**Usage**

rforcecom.create(session, objectName, fields)

**Arguments**

- **session**  
  list; a list containing "sessionID", "instanceURL", and "apiVersion" as returned by RForcecom::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  
salesforce's backwards compatible version of rforcecom.delete

**Description**

salesforce's backwards compatible version of rforcecom.delete

**Usage**

rforcecom.delete(session, objectName, id)

**Arguments**

- **session**  
  list; a list containing "sessionID", "instanceURL", and "apiVersion" as returned by RForcecom::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: "999x000000xxxxZFF")
**rforcecom.getObjectDescription**

**Value**

null if successful otherwise the function errors out

---

**Description**

salesforce's backwards compatible version of rforcecom.getObjectDescription

**Usage**

rforcecom.getObjectDescription(session, objectName)

**Arguments**

- **session** list; a list containing "sessionID", "instanceURL", and "apiVersion" as returned by RForcecom::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**

**Description**

salesforce's backwards compatible version of rforcecom.getServerTimestamp

**Usage**

rforcecom.getServerTimestamp(session)
Arguments

session list: a list containing "sessionID", "instanceURL", and "apiVersion" as returned by RForcecom::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.

Description

salesforcer's backwards compatible version of rforcecom.login

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**  
salesforcer's backwards compatible version of rforcecom.query

### Description

salesforcer's backwards compatible version of rforcecom.query

### Usage

```javascript
rforcecom.query(session, soqlQuery, queryAll = FALSE)
```

### Arguments

- **session** list: a list containing "sessionId", "instanceURL", and "apiVersion" as returned by `RForcecom::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")
- **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**  
salesfter's backwards compatible version of rforcecom.retrieve

### Description

salesforcer's backwards compatible version of rforcecom.retrieve

### Usage

```javascript
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::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: "999x000000xxxxxxxxZ")

**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**

`salesforcer's backwards compatible version of rforcecom.search`

---

Description

`salesforcer's backwards compatible version of rforcecom.search`

Usage

`rforcecom.search(session, queryString)`

Arguments

**session**
- list: a list containing "sessionID", "instanceURL", and "apiVersion" as returned by `RForcecom::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**

**salesforce's backwards compatible version of rforcecom.update**

**Description**

salesforce's backwards compatible version of rforcecom.update

**Usage**

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

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>session</td>
<td>list; a list containing &quot;sessionID&quot;, &quot;instanceURL&quot;, and &quot;apiVersion&quot; as returned by <code>RForcecom::rforcecom.login()</code>. 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.</td>
</tr>
<tr>
<td>objectName</td>
<td>character; the name of the Salesforce object that the function is operating against (e.g. &quot;Account&quot;, &quot;Contact&quot;, &quot;CustomObject__c&quot;)</td>
</tr>
<tr>
<td>id</td>
<td>Record ID to update. (ex: &quot;999x0000000xxxxxZZZ&quot;)</td>
</tr>
<tr>
<td>fields</td>
<td>Field names and values. (ex: Name=&quot;CompanyName&quot;, Phone=&quot;000-000-000&quot;)</td>
</tr>
</tbody>
</table>

**Value**

NULL if successful otherwise the function errors out

---

**rforcecom.upsert**

**salesforce's backwards compatible version of rforcecom.upsert**

**Description**

salesforce's backwards compatible version of rforcecom.upsert

**Usage**

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

**Description**

This function aborts a Job in the Salesforce Bulk API

**Usage**

```r
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`
- **api_type**: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- **verbose**: logical; do you want informative messages?

Value

A list of parameters defining the now aborted job

References


Examples

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

## End(Not run)
```

---

**sf_auth**

Log in to Salesforce

Description

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

```r
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 https://login.salesforce.com
- **token**: optional; an actual token object or the path to a valid token stored as an .rds file
- **consumer_key, consumer_secret, callback_url**: the "Consumer Key", "Consumer Secret", and "Callback URL" when using a connected app; defaults to the salesforce connected apps' consumer key, secret, and callback url
- **cache**: logical or character; TRUE means to cache using the default cache file .http-oauth-salesforcer, FALSE means don’t cache. A string means use the specified path as the cache file.
- **verbose**: logical; do you want informative messages?

**Examples**

```r
## 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 brower or refresh of .http-oauth-salesforcer
sf_auth()

# Save token and log in using it
saveRDS(.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)`
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
batch_id character; the Salesforce Id assigned assigned to a submitted batch as returned by sf_create_batches_bulk
api_type character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
verbose logical; do you want informative messages?

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$batchId)
sf_close_job_bulk(job_info$id)

## End(Not run)
Arguments

job_id  character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk
batch_id character; the Salesforce Id assigned assigned to a submitted batch as returned by sf_create_batches_bulk
api_type character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
verbose logical; do you want informative messages?

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

```r
## 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)
```

---

**sf_bulk_operation**  
*Run Bulk Operation*

Description

This function is a convenience wrapper for submitting bulk API jobs

Usage

```r
sf_bulk_operation(input_data, object_name, operation = c("insert",
    "delete", "upsert", "update", "hardDelete"),
external_id_fieldname = NULL, api_type = c("Bulk 1.0", "Bulk 2.0"),
wait_for_results = TRUE, interval_seconds = 3, max_attempts = 200,
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 one Salesforce objects 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.

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

wait_for_results  logical; indicating whether to wait for the operation to complete so that the batch results of individual records can be obtained

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 sf_control

... other arguments passed on to sf_control or sf_create_job_bulk such as content_type, concurrency_mode, or column_delimiter

verbose  logical; do you want informative messages?

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.

References

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

Examples

```r
## Not run:
n <- 20
ew_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,
```
sf_close_job_bulk  

Close Bulk API Job

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`
- `api_type`: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- `verbose`: logical; do you want informative messages?

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(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 = TRUE, type = "TransferNotesAndAttachments"),
                                      list(execute = TRUE, type = "TransferOpenActivities"),
                                      list(execute = TRUE, type = "TransferOrders"),
                                      list(execute = TRUE, type = "TransferOtherOpenOpportunities"),
                                      list(execute = FALSE, type = "TransferOwnedClosedOpportunities"),
                                      list(execute = FALSE, type = "TransferSavedOpportunities") ),
            QueryOptions = list(batchSize = 1000),
            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 Meta-
data 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 documenta-
tion 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 documenta-
tion 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 documenta-
tion 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 documenta-
tion 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 documenta-
tion 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 documenta-
tion 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 documenta-
tion 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 infor-
mation, read the Salesforce documenta-
tion 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 or creating a Bulk 1.0 job with `sf_create_job_bulk`. 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].

Examples

```r
# 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)
```
sf_create

Description

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"), control = list(...), ..., 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 one Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject__c")

api_type character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" 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; do you want informative messages?

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

```r
## 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_batches_bulk**

*Add Batches to a Bulk API Job*

**Description**

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

**Usage**

```r
sf_create_batches_bulk(job_id, input_data, 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`
- `input_data`: named `vector`, `matrix`, `data.frame`, or `tbl_df`; data can be coerced into `.csv` file for submitting as batch request
- `api_type`: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- `verbose`: logical; do you want informative messages?

**Value**

- a `tbl_df` containing details of each batch
## 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, 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(...), ..., verbose = FALSE)
```

**Arguments**

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

## Examples

```r
## 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

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

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", "Bulk 2.0", or "Chatter" 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

verbose logical; do you want informative messages?

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
```r
## 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')
```
sf\_create\_metadata

Create Object or Field Metadata in Salesforce

Description

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

Usage

\[
\text{sf\_create\_metadata}(\text{metadata\_type}, \text{metadata}, \text{control} = \text{list(...), ...}, \text{verbose} = \text{FALSE})
\]

Arguments

- \text{metadata\_type} character; string on what type of metadata to create
- \text{metadata} list; metadata components to be created formatted as XML before being sent via API
- \text{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 \text{sf\_control}
- ... arguments passed to \text{sf\_control}
- \text{verbose} logical; do you want informative messages?

Value

A tbl\_df containing the creation result for each submitted metadata component

References

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

```r
## Not run:
# read the metadata of the existing Account object
# we will use this object as a template to create a custom version
metadata_info <- sf_read_metadata(metadata_type='CustomObject',
    object_names=c('Account'))
custom_metadata <- metadata_info[[1]]
# remove default actionOverrides, this cannot be set during creation
custom_metadata[which(names(custom_metadata) %in% c("actionOverrides"))] <- NULL
# remove fields since its a custom object and the standard ones no longer exist
custom_metadata[which(names(custom_metadata) %in% c("fields"))] <- NULL
# remove views so that we get the Standard List Views
custom_metadata[which(names(custom_metadata) %in% c("listViews"))] <- NULL
# remove links so that we get the Standard Web Links
custom_metadata[which(names(custom_metadata) %in% c("webLinks"))] <- NULL
# now make some adjustments to customize the object
this_label <- 'Custom_Account43'
custom_metadata$fullName <- paste0(this_label, '_c')
custom_metadata$label <- this_label
custom_metadata$pluralLabel <- paste0(this_label, 's')
custom_metadata$nameField <- list(displayFormat='AN-{0000}',
    label='Account Number',
    type='AutoNumber')
custom_metadata$fields <- list(fullName='Phone__c',
    label='Phone',
    type='Phone')
# set the deployment status, this must be set before creation
custom_metadata$deploymentStatus <- 'Deployed'
# make a description to identify this easily in the UI setup tab
custom_metadata$description <- 'created by the Metadata API'
new_custom_object <- sf_create_metadata(metadata_type = 'CustomObject',
    metadata = custom_metadata,
    verbose = TRUE)

# adding custom fields to our object
# input formatted as a list
custom_fields <- list(list(fullName='Custom_Account43__c.CustomField66__c',
    label='CustomField66',
    length=100,
    type='Text'),
    list(fullName='Custom_Account43__c.CustomField77__c',
    label='CustomField77',
    length=100,
    type='Text'))
# formatted as a data.frame
custom_fields <- data.frame(fullName=c('Custom_Account43__c.CustomField88__c',
    'Custom_Account43__c.CustomerField99__c'),
    label=c('Test Field1', 'Test Field2'),
    length=c(44,45),
    type=c('Text', 'Text'))
new_custom_fields <- sf_create_metadata(metadata_type = 'CustomField',
    metadata = custom_fields)
```
## sf_delete

### Description

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

### Usage

```r
sf_delete(ids, object_name, api_type = c("REST", "SOAP", "Bulk 1.0", "Bulk 2.0"), 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
- **object_name**: character; the name of one Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject__c")
- **api_type**: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" 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; do you want informative messages?

### 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

```r
## 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")
```
# sf_delete_job_bulk

Add the control to do an "All or None" deletion of the remaining records

```r
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

```r
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`
- **api_type**: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- **verbose**: logical; do you want informative messages?

#### Examples

```r
## 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

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

#### Usage

```r
sf_delete_metadata(metadata_type, object_names, control = list(...), ...
                    verbose = FALSE)
```
sf_describe_metadata

Describe the Metadata in an Organization

Description
This function returns details about the organization metadata

Usage
sf_describe_metadata(verbosel = FALSE)

Arguments
verbosel logical; do you want informative messages?

Value
A tbl_df

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
verbose logical; do you want informative messages?

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/

See Also
sf_list_metadata

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

## End(Not run)
**sf_describe_objects**

References

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

Examples

```r
## 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**

Describes the individual metadata for the specified object.

**Usage**

```r
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", "Bulk 2.0", or "Chatter" 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; do you want informative messages?

**Value**

`list`

**Examples**

```r
## 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"))

## End(Not run)
```
sf_describe_object_fields

Describe Object Fields

Description
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 one Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject__c")

Value
A tbl_df 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_download_attachment

Download an Attachment

Description
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**

```r
## 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)
```

---

**Description**

Delete records from the recycle bin immediately and permanently.

**Usage**

```r
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", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- **verbose** logical; do you want informative messages?

**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.
sf_find_duplicates

Find Duplicate Records

Description

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 one Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject__c")

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

```r
## 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)

## End(Not run)
```
**sf_find_duplicates_by_id**

**Description**

Performs rule-based searches for duplicate records.

**Usage**

```
sf_find_duplicates_by_id(sf_id, include_record_details = FALSE, guess_types = TRUE, verbose = FALSE)
```
sf_get_all_jobs_bulk

Arguments

sf_id character; a Salesforce generated Id that 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 query recordset. TRUE uses col_guess() and FALSE returns all values as character strings.
verbose logical; do you want informative messages?

Value
tbl_df of records found to be duplicates by the match rules

Note
You must have actived 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

```r
## 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 2.0 jobs in the org.

Usage

```r
sf_get_all_jobs_bulk(next_records_url = NULL, api_type = c("Bulk 2.0"), verbose = FALSE)
```
sf_get_deleted

Get Deleted Records from a Timeframe

Description
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 one Salesforce objects 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; do you want informative messages?

Value
A tbl_df of parameters defining the details of all bulk 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()

## End(Not run)
sf_get_job_bulk

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)

---

ts.get_job_bulk  Get Bulk API Job

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"),
                 verbose = FALSE)

Arguments

job_id character; the Salesforce Id assigned to a submitted job as returned by sf_create_job_bulk
api_type character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
verbose logical; do you want informative messages?

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**

```r
def 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`
- `api_type` character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" 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; do you want informative messages?

**Value**

A `tbl_df` or list of `tbl_df`, 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/
sf_get_updated

Get Updated Records from a Timeframe

Description

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 one Salesforce objects 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; do you want informative messages?

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)
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_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`
- `api_type`: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- `verbose`: logical; do you want informative messages?

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


Examples

```r
## 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
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 workflow emails
- Hourly workflow time triggers
sf_list_metadata

- Hourly OData callouts
- Daily and active scratch org counts
- Data storage (MB)
- File storage (MB)

Examples

```r
# Not run:
sf_list_api_limits()

# End(Not run)
```

<table>
<thead>
<tr>
<th>sf_list_metadata</th>
<th>List All Objects of a Certain Metadata Type in Salesforce</th>
</tr>
</thead>
</table>

**Description**

This function takes a query of metadata types and returns a summary of all objects in salesforce of the requested types.

**Usage**

```r
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; do you want informative messages?

**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

```r
## 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**  
*List Organization Objects and their Metadata*

**Description**

Lists the available objects and their metadata for your organization’s data.

**Usage**

```
sf_list_objects()
```

**Value**

`list`

**Examples**

```r
## Not run:
sf_list_objects()
```

## End(Not run)

---

**sf_list_resources**  
*List the Resources for an API*

**Description**

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

**Usage**

```
sf_list_resources()
```

**Value**

`list`
### sf_list_rest_api_versions

**List REST API Versions**

**Description**

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

**Usage**

```python
sf_list_rest_api_versions()
```

**Value**

`list`

**Examples**

```python
## Not run:
sf_list_resources()

## End(Not run)
```

### sf_merge

**Merge Records**

**Description**

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 becomes the new parent of the related records.

**Usage**

```python
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 one Salesforce objects 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", "Bulk 2.0", or "Chatter" 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`
- **verbose**: logical; do you want informative messages?

Value

`tbl_df` of records with success indicator

Examples

```r
## Not run:
n <- 3
new_contacts <- tibble(FirstName = rep("Test", n),
  LastName = paste0("Contact", 1:n),
  Description = paste0("Description", 1:n))
new_rec1 <- 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_rec1$id[1],
  victim_ids = new_rec1$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_rec1$id, collapse="','")),
  queryall = TRUE)

## End(Not run)
```
**sf_query**

**Perform SOQL Query**

**Description**

Executes a query against the specified object and returns data that matches the specified criteria.

**Usage**

```plaintext
sf_query(soql, object_name, queryall = FALSE, guess_types = TRUE,
api_type = c("REST", "SOAP", "Bulk 1.0"), control = list(...), ...
next_records_url = NULL, verbose = FALSE)
```

**Arguments**

- **soql** character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account")
- **object_name** character; the name of one Salesforce objects 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. QueryAll will also return information about archived Task and Event records. QueryAll is available in API version 29.0 and later.
- **guess_types** logical; indicating whether or not to use `col_guess()` to try and cast the data returned in the query recordset. TRUE uses `col_guess()` and FALSE returns all values as character strings.
- **api_type** character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" 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`
- **next_records_url** character (leave as NULL); a string used internally by the function to paginate through to more records until complete
- **verbose** logical; do you want informative messages?

**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

```python
## Not run:
sf_query("SELECT Id, Account.Name, Email FROM Contact LIMIT 10")

## End(Not run)
```

---

**sf_query_bulk**

**Run Bulk Query**

**Description**

This function is a convenience wrapper for submitting and retrieving bulk query API jobs.

**Usage**

```python
sf_query_bulk(soql, object_name = NULL, queryall = FALSE,
               guess_types = TRUE, api_type = c("Bulk 1.0"), interval_seconds = 5,
               max_attempts = 100, control = list(...), ..., verbose = FALSE)
```

**Arguments**

- `soql` character; a string defining a SOQL query (e.g. "SELECT Id, Name FROM Account")
- `object_name` character; the name of one Salesforce objects 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. QueryAll will also return information about archived Task and Event records. QueryAll is available in API version 29.0 and later.

guess_types logical; indicating whether or not to use col_guess() to try and cast the data returned in the query recordset. TRUE uses col_guess() and FALSE returns all values as character strings.

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

interval_seconds integer; defines the seconds between attempts to check for job completion

max_attempts integer; defines the 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 sf_control

... arguments passed to sf_control

verbose logical; do you want informative messages?

Value

A tbl_df of the recordset returned by the query

References


Examples

## Not run:

# select all Ids from Account object (up to 1000)
ids <- sf_query_bulk(sql = 'SELECT Id FROM Account LIMIT 1000',
                    object_name = 'Account')

## End(Not run)

**sf_query_result_bulk** Retrieving the Results of a Bulk Query Batch in a Bulk API Job

Description

This function returns the row-level recordset of a bulk query which has already been submitted to Bulk API Job and has Completed state
sf_query_result_bulk

Usage

```r
sf_query_result_bulk(job_id, batch_id, result_id, guess_types = TRUE,
        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`
- **batch_id**: character; the Salesforce Id assigned assigned to a submitted batch as returned by `sf_create_batches_bulk`
- **result_id**: a character 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 `col_guess()` to try and cast the data returned in the query recordset. TRUE uses `col_guess()` and FALSE returns all values as character strings.
- **api_type**: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- **verbose**: logical; do you want informative messages?

Value

A tbl_df, formatted by Salesforce, containing query results

References

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

Examples

```r
## 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_read_metadata**  
*Read Object or Field Metadata from Salesforce*

### Description
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; do you want informative messages?

### 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
```r
## Not run:
metadata_info <- sf_read_metadata(metadata_type='CustomObject',
                                   object_names=c('Account'))

## End(Not run)
```

---

**sf_rename_metadata**  
*Rename Metadata Elements in Salesforce*

### Description
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)
```

---
sf_reset_password

**Description**
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; do you want informative messages?

sf_rename_metadata

**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; do you want informative messages?

**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**
```r
## Not run:
renamed_custom_object <- sf_rename_metadata(metadata_type = 'CustomObject',
                                          old_fullname = 'Custom_Account32__c',
                                          new_fullname = 'Custom_Account99__c')

## End(Not run)
```
**Value**

list

**Examples**

```r
## Not run:
# reset a user’s password and ensure that an email is triggered to them
sf_reset_password(user_id = "0056A000000ZBBB",
                  EmailHeader = list(triggerAutoResponseEmail = FALSE,
                                   triggerOtherEmail = FALSE,
                                   triggerUserEmail = TRUE))
```

## End(Not run)

---

**sf_retrieve**  
**Retrieve Records By Id**

**Description**

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"), control = list(...), ..., verbose = FALSE)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ids</td>
<td>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</td>
</tr>
<tr>
<td>fields</td>
<td>character; one or more strings indicating the fields to be returned on the records</td>
</tr>
<tr>
<td>object_name</td>
<td>character; the name of one Salesforce objects that the function is operating against (e.g. &quot;Account&quot;, &quot;Contact&quot;, &quot;CustomObject__c&quot;)</td>
</tr>
<tr>
<td>api_type</td>
<td>character; one of &quot;REST&quot;, &quot;SOAP&quot;, &quot;Bulk 1.0&quot;, &quot;Bulk 2.0&quot;, or &quot;Chatter&quot; indicating which API to use when making the request</td>
</tr>
<tr>
<td>control</td>
<td>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</td>
</tr>
<tr>
<td>...</td>
<td>arguments passed to sf_control</td>
</tr>
<tr>
<td>verbose</td>
<td>logical; do you want informative messages?</td>
</tr>
</tbody>
</table>

**Value**

tibble
Examples

```r
## 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

This function makes a request to retrieve metadata as a package XML files that can be modified and later deployed into an environment.

### Usage

```r
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; do you want informative messages?

### 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/api_meta_retrieve_request.htm](https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/api_meta_retrieve_request.htm)
sf_search

References

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

Examples

## Not run:

```r
retrieve_request <- list(unpackaged=list(types=list(members='*',
                                        name='CustomObject')))
retrieve_info <- sf_retrieve_metadata(retrieve_request)
```

## End(Not run)

---

**sf_search**

**Perform SOSL Search**

**Description**

Searches for records in your organization’s data.

**Usage**

```r
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 query recordset. TRUE uses `col_guess()` and FALSE returns all values as character strings.
- **api_type** character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" 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; do you want informative messages?
- **...** arguments to be used to form the parameterized search options argument if it is not supplied directly.

**Value**

tibble
sf_server_timestamp

Salesforce Server Timestamp

Description
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**

Sets the specified user’s password to the specified value.

**Usage**

```python
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; do you want informative messages?

**Value**

list

**Examples**

```python
## Not run:
sf_set_password(user_id = "0056A000000ZZaaBBB", 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**

```python
sf_submit_query_bulk(job_id, soql, api_type = c("Bulk 1.0"), verbose = FALSE)
```
sf_submit_query_bulk

Arguments

- **job_id**: character; the Salesforce Id assigned to a submitted job as returned by `sf_create_job_bulk`
- **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", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- **verbose**: logical; do you want informative messages?

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


Examples

```r
## 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

---

**Description**

Undeletes records from the Recycle Bin.

**Usage**

```r
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", "Bulk 2.0", or "Chatter" 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; do you want informative messages?

**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](https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce_api_calls_undelete.htm)

**Examples**

```r
## 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'"),
```
sf_update

Update Records

Description

Updates one or more records to your organization’s data.

Usage

\[\text{sf\_update}(\text{input\_data}, \text{object\_name}, \text{api\_type} = \text{c("SOAP", "REST", "Bulk 1.0", "Bulk 2.0")}, \text{control} = \text{list(...)}, \ldots, \text{verbose} = \text{FALSE})\]

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 one Salesforce objects that the function is operating against (e.g. "Account", "Contact", "CustomObject\_c")
- **api\_type**: character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" 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
- **verbose**: logical; do you want informative messages?

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

```r
## 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**

This function takes a list of Metadata components and sends them to Salesforce to update an object that already exists.

**Usage**

```r
sf_update_metadata(metadata_type, metadata, control = list(...), ..., 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`
- **verbose**: logical; do you want informative messages?

**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`.
References

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

Examples

```r
## 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_Accounts_new'
updated_custom_object_result <- sf_update_metadata(metadata_type = 'CustomObject',
                                                    metadata = update_metadata)

## 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**

```r
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`
- `api_type` character; one of "REST", "SOAP", "Bulk 1.0", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- `verbose` logical; do you want informative messages?
**sf_upsert**

**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**

```r
## Not run:
upload_info <- sf_upsert_complete_bulk(job_id=job_info$id)

## End(Not run)
```

---

### sf_upsert

**Upsert Records**

**Description**

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"),
          control = list(...), ..., 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 one Salesforce objects that the function is operating against (e.g. “Account”, “Contact”, “CustomObject__c”)
- **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", "Bulk 2.0", or "Chatter" 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` for more details.

**Value**

`tbl_df` of records with success indicator

**Examples**

```r
## Not run:

n <- 2
new_contacts <- tibble(FirstName = rep("Test", n),
                        LastName = paste0("Contact-Create-", 1:n),
                        My_External_Id__c = paste0("Contact-Create-", 1:n))
new_contacts_result <- sf_create(new_contacts, object_name="Contact")

upserted_contacts <- tibble(FirstName = rep("Test", n),
                            LastName = paste0("Contact-Upsert-", 1:n),
                            My_External_Id__c = letters[1:n])
new_record <- tibble(FirstName = "Test",
                     LastName = paste0("Contact-Upsert-", n+1),
                     My_External_Id__c = letters[n+1])
upserted_contacts <- bind_rows(upserted_contacts, new_record)
upserted_contacts_result <- sf_upsert(upserted_contacts,
                                       object_name="Contact",
                                       "My_External_Id__c")

## End(Not run)
```

---

**sf_upsert_metadata**

**Upsert Object or Field Metadata in Salesforce**

**Description**

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(...), ..., 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

verbose logical; do you want informative messages?

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.

References

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

Examples

```r
## Not run:
# create an object that we can confirm the update portion of the upsert
base_obj_name <- "Custom_Account"
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]]$pluralLabel <- 'Custom_Accounts_new'
upsert_metadata[[2]]$fullName <- 'Custom_Account2__c'
upsert_metadata[[2]]$label <- 'New Label Custom_Account2'
upsert_metadata[[2]]$pluralLabel <- 'Custom_Accounts2_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
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", "Bulk 2.0", or "Chatter" indicating which API to use when making the request
- verbose   logical; do you want informative messages?

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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