GET {objectName}/metadata

This document describes the metadata properties that the SAP Open Connectors platform expects when doing GET /objects/{objectName}/metadata. The GET /objects/{objectName}/metadata endpoint has strict formatting requirements to power our VDRs and also to keep consistency in object structure for the consumption of metadata. If not implemented properly, this can cause VDR's to fail, and cause the GET /objects/{objectName}/metadata endpoint to fail.

Goals of implementing /objects/{objectName}/metadata

- Provide a unified metadata experience across the platform
- Use javascript as necessary to convert from vendor meta format to CE format
- Provide users with as much data describing the API as the vendor makes available
- Power VDR's for all those gooooood transformations.

> **Watch Out!** Your API needs to return data formatted exactly correct or the /objects/{objectName}/metadata API fails. We recommend creating a copy /objects/{objectName}/metadata_copy which doesn't have the same backend restrictions. Once you complete your resource, copy the hook over to the main API and let it take care of the validation for you

Best Practices

Below you will find a full list of acceptable properties for /objects/{objectName}/metadata and the usage, however, in practice, we often will only implement a fraction. This is usually due to the vendor not making things available, but you may also need to abstract something out that the platform doesn't support and is deemed unnecessary.

Always Include

- vendorPath

- mask
- format
- type

Sometimes Include

When to include: nice-to-haves, if vendor provides property then implement it, but don't get caught up looking for them or doing insane parsing unless required

- vendorDisplayName
- vendorNativeType
- vendorReadOnly
- vendorRequired
- filterable
- createable
- updateable
- description
- custom

Seldom Include

When to include: Only implement these properties if a customer requires it, or you're just feeling really excited about having rich metadata

Path	primaryKey	custom	updateable	nullable	type
reference	picklistValues[]	restrictedPicklist[]	relations	precision	defaultValue
displayName	readOnly	filterable	method	description	conditionallyRequired
vendorDisplayName	vendorRequired	filterableNames[]	name	length	subFormat
vendorNativeType	vendorReadOnly	filterableOperators[]	response	minLength	sampleValue
required	hidden	createable	request		

Dictionary

CE Metadata Property Name	DataType	Description/Usage
conditionallyRequired	String	when is this field required (dependency)... Invoice if CC provided, also need cvv. Mostly present in swagger
createable	Boolean	can be created, usually in a POST
custom	Boolean	true if is custom field
defaultValue	Object	if no value provided, value defaults to X
description	String	description of what field does
displayName	String	label seen in vendor UI ** not used much
filterable	Boolean	searchable in where clause
filterableNames[]	List	if prop filterable by other name, list filter options here.
filterableOperators[]	List	logical operators supported in filtering
format	String	int64

CE Metadata Property Name	DataType	Description/Usage
hidden	Boolean	we don't know what this means but vendors do it maybe hidden in UI
length	Integer	max length of field
mask	String	formatting dates — usually only for dates
method	List	name - HttpMethod in caps, GET POST PATCH ….. response - true/false does this field show up request - true/false can it be used in a request
minLength	Integer	min length of field
nullable	Boolean	most fields are nullable (default true). This field can/cannot be set to null (required)**
path	String	dot notation path***not really used
picklistValues[]	List	Array of picklist values for enums
precision	String	how precise is a value, $1.00 has precision of 2
primaryKey	Boolean	has this property if property is a primary key
readOnly	Boolean	CE read only immutable operations
reference	String	foreignKey of object
relations	List	foreign key reference to other metadata?
required	Boolean	CE required ** not usually used
restrictedPicklist	Boolean	If enum is restricted (no other values other than picklist); or perhaps gross amount of values
sampleValue	Object	sample data to put in payload
subFormat	String	in general, don't bother unless customer required

OEMetadata Property Name	String DataType	type of object (https://cl.ly/11b77390824a) Description/Usage
updateable	Boolean	can be updated, usually in PATCH or PUT
vendorDisplayName	String	label seen in vendor UI
vendorNativeType	String	Type in vendor system (nice to have)
vendorPath	String	dot notation path
vendorReadOnly	Boolean	vendor read only immutable operations
vendorRequired	Boolean	use this for required fields

Types and Formats