Activate CDS view for ODP ODATA

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Prerequisites

Install and configure Eclipse and SAP perspectives.
Install Eclipse and HANA components from Hana software tools
Create connection from the HANA perspective:

Application server: 172.29.50.44

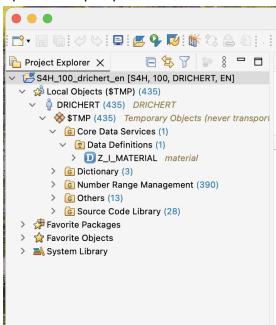
Instance: 00 User: DRICHERT Password:

Security Profiles to add to your user (SU01)

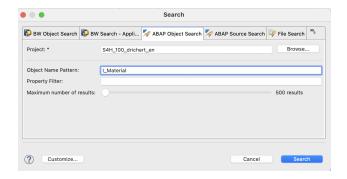
Add profile to user: S_BI-WX_RFC (for ODP contexts DataSource/extractors or ABAP CDS) or S_BI-WHM_RFC (for ODP context SAP BW or BW/4HANA) to the communication user.

Extend Existing CDS View for Analytic consumption (Eclipse)

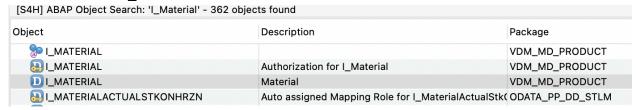
Open ABAP perspective.



Open the cds view you want to modify. Tool Bar -> Search -> Search -> ABAP Object Search -> I_Material:



Double click on D I Material:



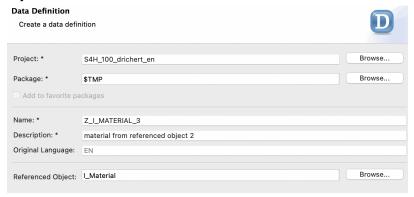
It should look something like this:

```
@AbapCatalog: {
   sqlViewName: 'IMATERIAL',
   preserveKey: true,
   compiler.compareFilter: true
}
@VDM.viewType: #BASIC
@EndUserText.label: 'Material'
@ObjectModel.representativeKey: 'Material'
@AccessControl.authorizationCheck: #CHECK
@Search.searchable: true
@ObjectModel.usageType.serviceQuality: #A
@ObjectModel.usageType.sizeCategory: #L
@ObjectModel.usageType.dataClass: #MASTER
@ClientHandling.algorithm: #SESSION_VARIABLE
@Metadata.allowExtensions:true
@Metadata.ignorePropagatedAnnotations: true
```

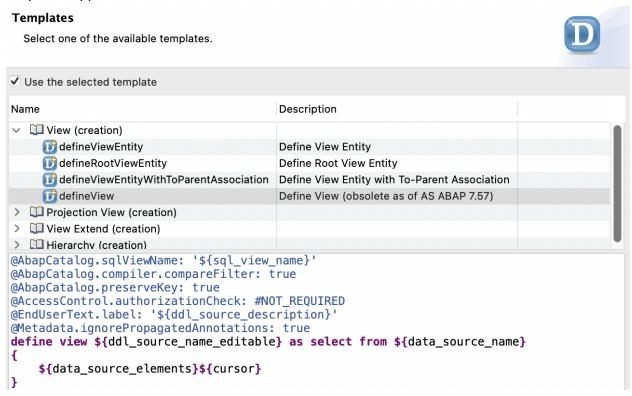
Create a new data definition (right-click from package \$tmp -> CDS -> Data Definitions-> new data definition.



Give it a name that starts with Z_ and put the original cds view, **I_Material** as the referenced object.



Click next, and next again (it's a local object so no transport request needed). The selected templates appear.



Keep the default and click Finish.

Add a name that starts with Z, not underscore, for example ZMATERIAL2

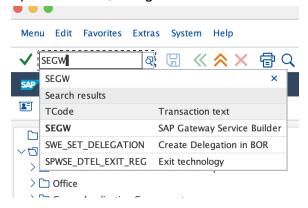
```
@AbapCatalog.sqlViewName: !!
@AbapCatalog.compiler.compareFil
Add these two lines after 'AccessControl
@Analytics: { dataCategory: #DIMENSION }
@Analytics.dataExtraction.enabled
```

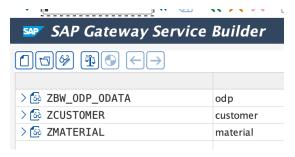
Save, check and Activate:



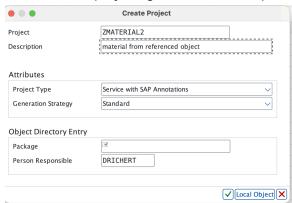
Create project in Gateway Service Builder (SEGW):

Open SAP GUI, and go to transaction SEGW:

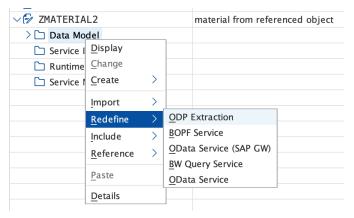




Create a new project, give name, description and click Local Object:



Right-click on Data Model->Redefine->ODP Extraction.

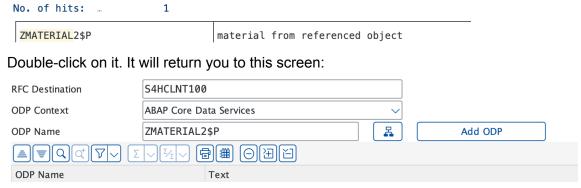


For RFC Destination, choose your own host:

	_	_	
S4HCLNT100	Client	100	

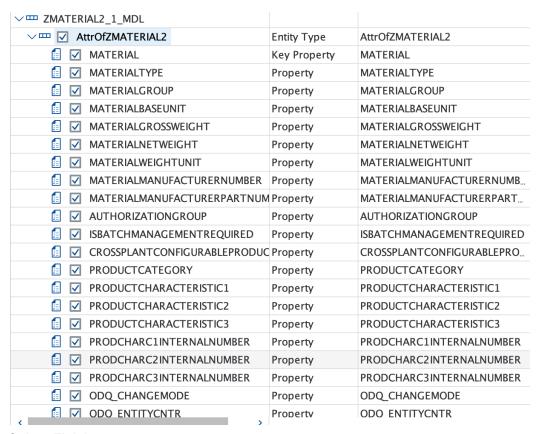
ODP Context: ABAP Core Data Services

ODP Name. Don't type this, use the search! This is because SAP adds a \$P to the end of the name. Search on the name you put in the single quotes in the definition above, 'ZMATERIAL2'



Select Add ODP, and it will add the ODP to the list.

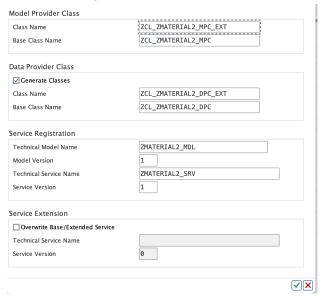
Next, add descriptions. Next. Local Object. Select all the artifacts.



Select Finish.

The message appears that the project was checked with no errors.

Select the project and select Generate runtime objects.



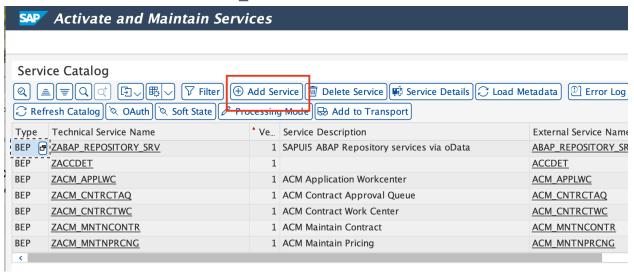
Select, Local Object.

The message appears that the runtime objects were generated successfully.

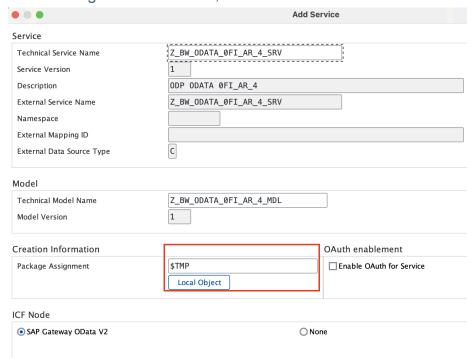
Activate and Maintain Services (/IWFND/MAINT_SERVICE)

Go to transaction /n/IWFND/MAINT SERVICE

1. Go to transaction /IWFND/MAINT SERVICE and click Add Service



- 2. Enter System Alias as LOCAL and click on Get Services button
- 3. Search the generated service, and select service:



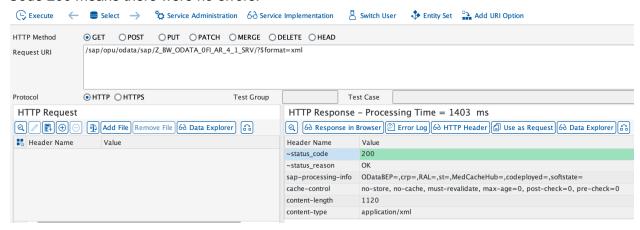
External name: Z_BW_ODATA_0FI_AR_4_1_SRV and ZCUSTOMER_1_SRV

Activate in Gateway Client (/IWFND/GW_CLIENT)

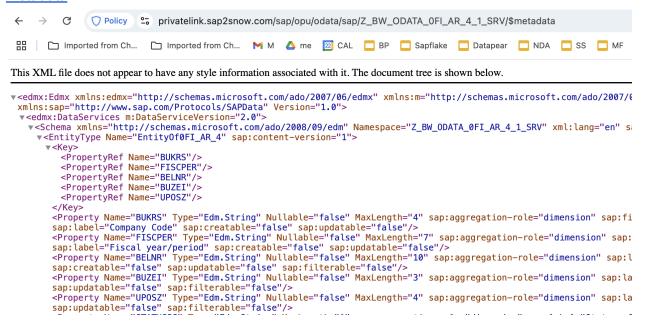
- 4. Go to the SAP Gateway Client / IWFND/GW CLIENT
- 5. Enter the URL for the service:

 $/ sap/opu/odata/sap/Z_BW_ODATA_OFI_AR_4_1_SRV/?\$ format=xml \ and click execute.$

6. Code 200 means there were no errors.



- 7. To view the complete metadata of the service, use the url
- 8. https://privatelink.sap2snow.com/sap/opu/odata/sap/Z BW ODATA 0FI AR 4 1 SRV/\$ metadata



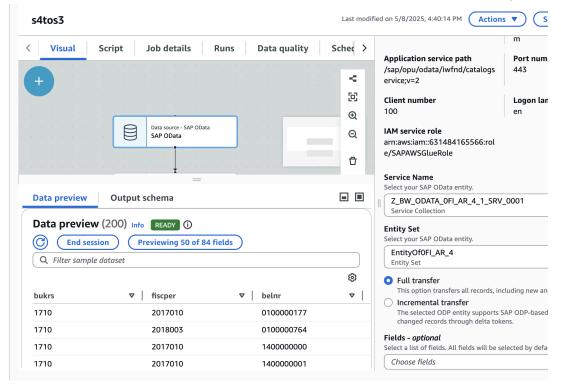
Other URLS:

https://privatelink.sap2snow.com/sap/opu/odata/sap/ZMATERIAL SRV/\$metadata

https://privatelink.sap2snow.com/sap/opu/odata/sap/ZCUSTOMER 1 SRV/\$metadata

Create Data Flow in AWS Glue

1. In AWS Glue create a connection to your s/4HANA system, create a dataflow with source as SAP ODATA, search for ZMATERIAL, choose the service and entity.



Choose S3 bucket as the target.

2. Click Run to run the job

CDS View Documentation

CDS View Documentation for S/4HANA 2023 FP00