

Customer Hierarchy SAP Privat Cloud Service Configuration

To retrieve Customer Hierarchy data from the SAP Private Cloud, a CDS view service specifically created for this purpose is utilized. This CDS view, developed using Eclipse, is designed to read data directly from the KNVH table. The following steps describe how to create and configure this service:

1. Create the Root View Entity:

- In Eclipse, create a root view entity and set the `@Data.publish` parameter to `true`.
- This root view entity should select data from the standard KNVH table.

```
1 @AccessControl.authorizationCheck: #NOT_REQUIRED
2 @EndUserText.label: 'ZDVCUSTHIERARCHY'
3 @OData.publish: true
4 define root view entity ZDVCUSTHIERARCHY as select from knvh
5 {
6   key hityp as Hityp,
7   key kunnr as Kunnr,
8   key vkorg as Vkorg,
9   key vtweg as Vtweg,
10  key spart as Spart,
11  key datab as Datab,
12  datbi as Datbi,
13  hkunnr as Hkunnr,
14  hvkorg as Hvkorg,
15  hvtweg as Hvtweg,
16  hspart as Hspart,
17  grpno as Grpno,
18  bokre as Bokre,
19  prfre as Prfre,
20  hzuor as Hzuor,
21  node_guid as NodeGuid,
22  node_id as NodeId
23 }
```

1. Activate the Root Entity View as an OData Service:

- Use transaction `n/iwfn/maint_service` to register the service.
- Use the "Add Service" button to activate the root entity view as an OData Service.

The screenshot displays the SAP 'Activate and Maintain Services' transaction. The main area shows the 'Service Catalog' with a table listing services. The 'Add Service' button is highlighted with a green box. Below the Service Catalog, the 'ICF Nodes' section is visible, showing a table with columns for Status, ICF Node, Session Time-out, Soft State, and Description. The 'System Aliases' section is also visible, showing a table with columns for SAP System Alias, Description, Default, Metadata, and User Role.

Type	Technical Service Name	Ve	Service Description	External Service Name	Nsp.	OAuth.	Soft State	Status	Processing Mode
BEP	ZDVCUSTHIERARCHY_CDS	1	ZDVCUSTHIERARCHY	ZDVCUSTHIERARCHY_CDS				Not Supported	Routing-based

Status	ICF Node	Session Time-out	Soft State	Description
ODATA	ODATA	00:00:00		Standard Mode

SAP System Alias	Description	Default	Metadata	User Role
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

1. Test the Service:

- Utilize the SAP Gateway Client to test the service and ensure it is functioning correctly.

The top screenshot shows the 'Activate and Maintain Services' interface. The 'Service Catalog' section displays a table with the following data:

Type	Technical Service Name	Service Description	External Service Name	Nsp.	OAuth	Soft State	Status	Processing Mode
BEP	ZDVCUSTHIERARCHY_CDS	ZDVCUSTHIERARCHY	ZDVCUSTHIERARCHY_CDS				Not Supported	Routing-based

The 'ICF Nodes' section shows a table with the following data:

Status	ICF Node	Session Time-out	Soft State	Description
OK	ODATA	00:00:00		Standard Mode

The 'System Aliases' section shows a table with the following data:

SAP System Alias	Description	Default	Metadata	User Role
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

The bottom screenshot shows the 'SAP Gateway Client' interface. The 'Request URI' field contains the URL: `/sap/opu/odata/sap/ZDVCUSTHIERARCHY_CDS/ZDVCUSTHIERARCHY`. The 'HTTP Request' section shows the request details, and the 'HTTP Response' section shows the response details, including headers and XML content. The response status is 200 OK, and the processing time is 60 ms. The XML content includes metadata and a single row of data for the customer hierarchy.

These steps outline the process of setting up and configuring the CDS view service for accessing Customer Hierarchy data in SAP Private Cloud.