

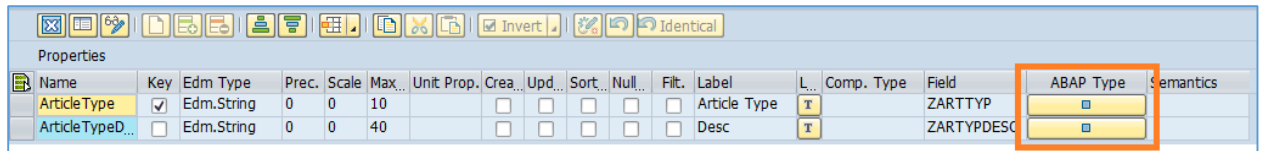
## ODATA Standards

- There should not be any underscore, special characters and/or space in Entity names and entity property names.
- Follow CamelCase in Entity and property names
- While creating property names, do not use ABAP field names. Write the description of it.  
Example:
  - i. MATNR – Article
  - ii. MAKTX – ArticleDescr
  - iii. WERKS – Site
- Property name should be such that it's easily comprehensible.
- For all the FIORI Applications, we need to follow proper process:  
**Discussion -> Mockup -> EDM -> RFC Development -> ODATA -> UI**  
Any deviations to be signed off from central governance team.
- Once the Odata is developed, we should avoid making changes in IMPORTING and EXPORTING parameters of RFC. Source code changes can be made at any time.
- Any addition/deletion of field or change in field semantic attributes in RFC, must be communicated to Odata developer and accordingly updated in EDM.
- All DATE fields should be marked as NULLABLE while creating ENTITY.
- In most of the cases Navigation and Associations are needed while doing expanded and create deep entity. Avoid creating navigations for simple entity set or create stream calls.
- NAVIGATION names should be short and explanatory enough to understand which two entities are being linked with it.
  - Example: EntitySet1 – IndentHeaderSet  
EntitySet2 – IndentItemSet  
Association – IndentHeaderItem  
Navigation - INDENTHEADERITEMNAV
- Re-definition of methods are done only if the desired functionality is not achievable via CRUDQ methods.
- For passing date field in URL, we explicitly need to mention **datetime** keyword.

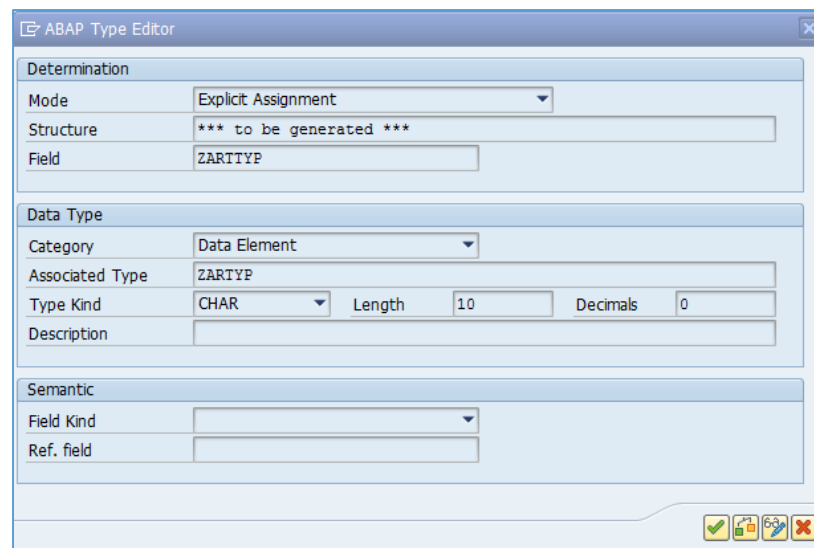
Eg: /sap/opu/odata/sap/Z\_FIORI\_CIH\_SRV/PISearchSet/?\$filter=**FromDate eq datetime'2015-01-01T00:00:00' and ToDate eq datetime'2015-11-01T00:00:00'**

- In case of adding property to the existing entity, we explicitly need to mention DATA ELEMENT.

i. Click on ABAP Type



- ii. Select Mode as **Explicit assignment** and Category as **Data Element**.  
In Associated Type, we mention the associated Data element. So that its property comes in Odata as well.



- Avoid deleting the Odata project which is already created. Along with Odata projects 7-8 runtime artifacts are generated and they are not deleted when project is deleted from SEGW.
- Re-definition of any method should only be done in extension classes – \*MPC\_EXT, \*DPC\_EXT.
- Do not make any changes in DPC and MPC classes which are auto generated on the basis of mapping done in SEGW. Always re-define the respective method in \*MPC\_EXT, \*DPC\_EXT.
- When using Create/Get stream, always mark the respective entity as media type and redefine DEFINE method of MPC class.
- While implementing the CREATE\_ENTITY, we need to re-define the same method in EXT class and comment the READ call. We pass RETURN message explicitly in success scenario.

- On implementing the CREATE\_DEEP and EXPANDED\_ENTITY, the deep structure name should be same as navigation property name.
- The navigation name should end with NAV and the entire name should be in capital letters.  
Example – HEADERITEMNAV or HEADER\_ITEM\_NAV.
- In case of ENTITY\_SET, if a particular property needs to be passed with multiple input values it should be separated with **OR**.

Example:

sap/opu/odata/sap/Z\_FIORI\_FD33\_SRV/CustomerCreditDetailSet/?\$filter=(CustomerId eq '660097911' or CustomerId eq '660091320') and CCArea eq 'CREL'

- Entities should always have KEY field(s) which uniquely identifies each record in output.
- Messages can be transferred to HTTP Header using:
  - ADD\_MESSAGE method of interface /IWBEP/IF\_MESSAGE\_CONTAINER
  - Passing name and value in HTTP framework – IHTTPNPV
- URLs format for CRUDQ operation:
  - **GET\_ENTITY** - /sap/opu/odata/sap/ABC\_SRV/EntitySet(KeyField1='TEST1', KeyField2='TEST2')
  - **GET\_ENTITY\_SET** - /sap/opu/odata/sap/ABC\_SRV/EntitySet  
/sap/opu/odata/sap/ABC\_SRV/EntitySet/?\$filter=Field1 eq 'test1' and Field2 eq 'test2'
  - **CREATE/CREATE\_DEEP** - /sap/opu/odata/sap/ABC\_SRV/EntitySet
  - **UPDATE** - /sap/opu/odata/sap/ABC\_SRV/EntitySet(KeyField1='TEST1', KeyField2='TEST2')
  - **DELETE** - /sap/opu/odata/sap/ABC\_SRV/EntitySet(KeyField1='TEST1', KeyField2='TEST2')
  - **GET\_EXPANDED\_ENTITY** – /sap/opu/odata/sap/ABC\_SRV/EntitySet(KeyField1='TEST1', KeyField2='TEST2')/?\$expand=NAVIGATION
  - **CREATE\_STREAM** - /sap/opu/odata/sap/ABC\_SRV/EntitySet
  - **GET\_STREAM** - /sap/opu/odata/sap/ABC\_SRV/EntitySet(KeyField1='TEST1', KeyField2='TEST2')/\$value