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Fiori Elemnet- CDS View with BOPF CRUD(2)

Posted by Siva Prasad



Part-2 Adding a BOPF Determination to set default order status

In the last post [Fiori Element- CDS View with BOPF CRUD](#) we have created a Fiori App with the help of fiori elements that used the CDS View[integrated with BO]generated oData service . In this post here we will a new BOPF Determination to set the default status in the order header.

Let's see the fiori app first. Here we have the list report and select create.

A screenshot of the SAP Fiori 'Order Details' application. The header shows the SAP logo and 'Order Details' with a dropdown arrow. Below the header, there's a 'Standard *' filter and a 'Go' button. The main content area displays a table of orders. The table has columns for Order ID, Order Date, Order Value, and Order Status. There are three rows of data. Above the table, there are icons for 'Set Complete', 'Create', and 'Delete'.

Order ID	Order Date	Order Value	Order Status
10001	Jul 17, 2020	100.00 INR	D
10002	Jul 18, 2020	200.00 USD	D
10003	Jul 18, 2020	1,000.00 INR	D

As we have made the status field as readonly, the user can only fill other fields but not the status field.

< SAP Order

<Unnamed Object> Set Complete

General Information

General Information

Order ID: * Order Date: Order Value: Order Status:

Save Cancel

Fill values in other fields and save.

< SAP Order

10004 Set Complete

General Information

General Information

Order ID: * Order Date: Order Value: Order Status:

Save Cancel

Data Saved and go back.

< SAP Order

10004 Edit Delete Set Complete

General Information

General Information

Order ID: 10004 Order Date: Jul 18, 2020 Order Value: 200.00 INR Order Status:

Here the status field is remained blank. So let's proceed to create a BOPF BO Determination and to set a default status to the order header during creation.

SAP Order Details

Standard * ▾

Adapt Filters Go

Orders (4)

Order ID	Order Date	Order Value	Order Status
10001	Jul 17, 2020	100.00 INR D	>
10002	Jul 18, 2020	200.00 USD D	>
10003	Jul 18, 2020	1,000.00 INR D	>
10004	Jul 18, 2020	200.00 INR	>

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Open the BO and go the change mode and right click on the Determinations node and create a new determination. Provide a name and a class name. Double click on the class name to create the determination class.

Create Business Object Open Business Object Display <-> Change Check Check & Gener... Test Information More ▾

Business Object Detail Browser

- ZZ_ORDER_HDR_TRANS
 - Node Structure
 - Node Elements
 - ZZ_ORDER_HDR_TRANS
 - Static Properties
 - Associations
 - Determinations
 - ACTION_AND_FIELD_CONTROL
 - SET_DEFAULT_STATUS_ON_CREATE Set the Default Status During Creation
 - Validations
 - Actions
 - LOCK_ZZ_ORDER_HDR_TRANS
 - SET_STATUS_COMPLETE
 - Alternative Keys
 - Consistency Group

Determination

* Determination Name: SET_DEFAULT_STATUS_ON_CREATE

Description: Set the Default Status During Creation

Determination Settings

* Determination Cat.: T Transient

Class/Interface: ZCL_TEST_DETR_DEFAULT_STATUS

Administrative Data

Creation: 18.07.2020 05:11:43

Last Changed: 18.07.2020 05:11:43

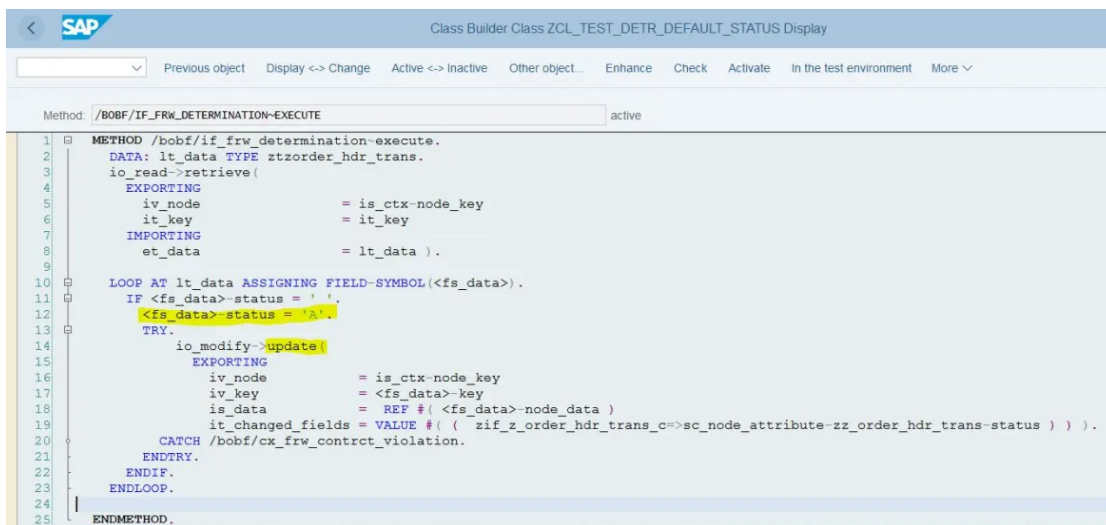
The class appears with related interface already implemented. So here we have to make implementation of the EXECUTE method.

Class/Interface: ZCL_TEST_DETR_DEFAULT_STATUS Implemented / Active

Properties Interfaces Friends Attributes Methods Events Types Aliases

Method	Level	Visibility	Me...	Description
/BOBF/IF_FRW_DETERMINATION~CHECK_DELTA	Instance Method	Public		Check for Relevant Data Changes
/BOBF/IF_FRW_DETERMINATION~CHECK	Instance Method	Public		Check Values of Relevant Fields
/BOBF/IF_FRW_DETERMINATION~EXECUTE	Instance Method	Public		Perform Determination

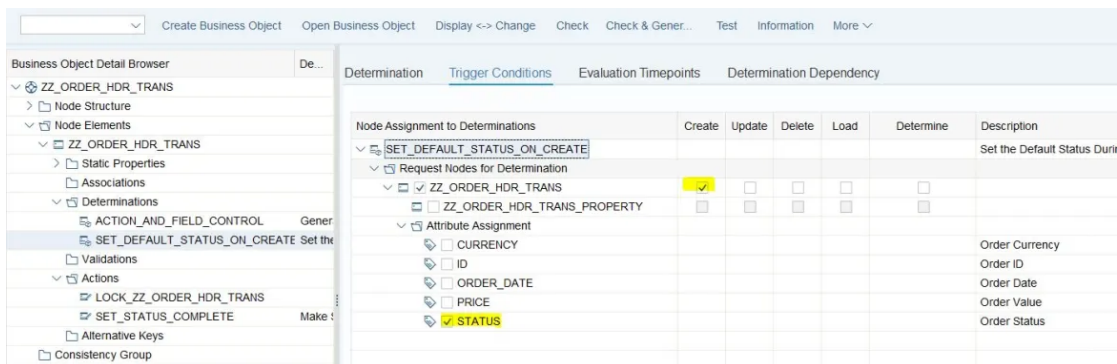
Now here we set the status to 'A' initially. Save and activate it.



The screenshot shows the SAP Class Builder interface for the class `ZCL_TEST_DETR_DEFAULT_STATUS`. The method `/BOBF/IF_FRW_DETERMINATION-EXECUTE` is selected and set to 'active'. The code is as follows:

```
1 METHOD /bobf/if_frww_determination-execute.  
2 DATA: lt_data TYPE ztzorder_hdr_trans.  
3 io_read->retrieve(  
4     EXPORTING  
5         iv_node           = is_ctx-node_key  
6         it_key            = it_key  
7     IMPORTING  
8         et_data           = lt_data ).  
9  
10 LOOP AT lt_data ASSIGNING FIELD-SYMBOL(<fs_data>).  
11 IF <fs_data>-status = 'A'.  
12     <fs_data>-status = 'A'.  
13 TRY.  
14     io_modify->update(  
15         EXPORTING  
16             iv_node       = is_ctx-node_key  
17             iv_key        = <fs_data>-key  
18             is_data       = REF #( <fs_data>-node_data )  
19             it_changed_fields = VALUE #( ( zif_z_order_hdr_trans_c=>sc_node_attribute-zz_order_hdr_trans-status ) ) ).  
20 CATCH /bobf/cx_frww_contract_violation.  
21 ENDTRY.  
22 ENDIF.  
23 ENDLOOP.  
24  
25 ENDMETHOD.
```

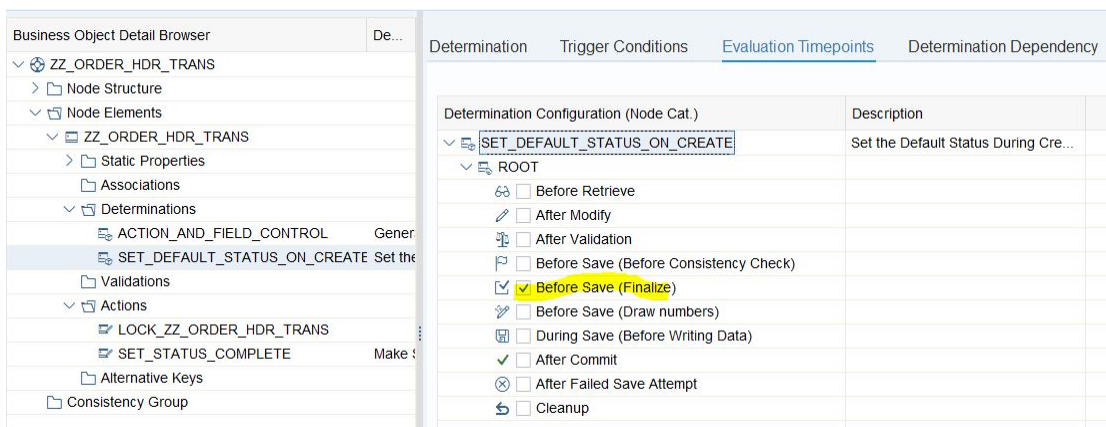
Let's put a trigger condition.



The screenshot shows the SAP Business Object Detail Browser for the business object `ZZ_ORDER_HDR_TRANS`. The 'Trigger Conditions' tab is selected. The table below shows the configuration for the determination `SET_DEFAULT_STATUS_ON_CREATE`.

Node Assignment to Determinations	Create	Update	Delete	Load	Determine	Description
<code>SET_DEFAULT_STATUS_ON_CREATE</code>						Set the Default Status During Create
Request Nodes for Determination						
<input checked="" type="checkbox"/> <code>ZZ_ORDER_HDR_TRANS</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> <code>ZZ_ORDER_HDR_TRANS_PROPERTY</code>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Attribute Assignment						
<input type="checkbox"/> CURRENCY						Order Currency
<input type="checkbox"/> ID						Order ID
<input type="checkbox"/> ORDER_DATE						Order Date
<input type="checkbox"/> PRICE						Order Value
<input checked="" type="checkbox"/> STATUS						Order Status

Also the evaluation point.



The screenshot shows the SAP Business Object Detail Browser for the business object `ZZ_ORDER_HDR_TRANS`. The 'Evaluation Timepoints' tab is selected. The table below shows the configuration for the determination `SET_DEFAULT_STATUS_ON_CREATE`.

Determination Configuration (Node Cat.)	Description
<code>SET_DEFAULT_STATUS_ON_CREATE</code>	Set the Default Status During Create
ROOT	
<input type="checkbox"/> Before Retrieve	
<input type="checkbox"/> After Modify	
<input type="checkbox"/> After Validation	
<input type="checkbox"/> Before Save (Before Consistency Check)	
<input checked="" type="checkbox"/> Before Save (Finalize)	
<input type="checkbox"/> Before Save (Draw numbers)	
<input type="checkbox"/> During Save (Before Writing Data)	
<input checked="" type="checkbox"/> After Commit	
<input type="checkbox"/> After Failed Save Attempt	
<input type="checkbox"/> Cleanup	

Now run the app again and create a new record.

SAP

Order Details ▾

Standard * ▾

Adapt Filters Go

Orders (5)

Set Complete Create Delete ⚙️

Order ID	Order Date	Order Value	Order Status	
○ 10001	Jul. 17, 2020	100.00 INR	D	>
○ 10002	Jul. 18, 2020	200.00 USD	D	>
○ 10003	Jul. 18, 2020	1,000.00 INR	D	>
○ 10004	Jul. 18, 2020	200.00 INR	D	>
○ 10005	Jul. 18, 2020	125.00 USD	A	>

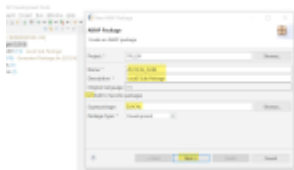
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