

SAP Event Management

How to Generate your own Transactional Fiori Apps

A Guide for Developers

Applies to:

- SAP Event Management 9.2 SP4 and above
- SAP Fiori for Event Management 1.0 or above
- SAP Web IDE
- SAP Web IDE Full-Stack
- Doc version: 1.3

Summary

This guide supports developers implementing custom transactional Fiori apps for their tracking scenarios that are set-up in their **SAP Event Management** system. It describes all the steps that you need to use the **SAP Web IDE** template '*Transactional App for SAP Event Management*' to generate Fiori apps for **SAP Event Management**. It provides additional information on how to enhance the generated app to meet further requirements.

Created on: 11 September 2018



Contents

Introduction	3
Custom Transactional Fiori Apps	3
About this guide	5
Step 1: Configure the Backend System	6
1-1. Activate the EM OData Service	6
1-2. Configure the EM OData Service	6
1-3. Test the Configuration of the EM OData Service	24
Step 2: Generate a New Fiori App	25
2-1. Setting Up SAP Web IDE and SAP Web IDE Full-Stack	25
2-2. Generation of the Example App Using the Wizard	28
Step 3: Modify the Generated Fiori App to Enable Non-Standard Functionality (Optional)	34
3-1. Change the Attributes in the Detail area	34
3-2. Logic to sync two Timezone Comboboxes	34
Step 4: Set Up the ABAP Front-End Server	35
4-1. The ABAP Front-End Server	35
4-2. Define Semantic Objects	35
4-3. Customize Your SAP Fiori Launchpad	
Appendix 1 Related Documents and SAP Notes	37
Related Documents	
Related SAP Notes	37
Appendix 2 General Information	
Usage of Specific Semantic Settings for Configured Fields	
Semantics for Configured Fields:	38
Naming Conventions and Restrictions	
Configured fields	
User Profile Customizing	
Appendix 3 Frequently Asked Questions	45
Copyright	46



Introduction

Custom Transactional Fiori Apps

SAP Event Management 9.2 introduced the EM OData service, used to retrieve EM data and send event messages in a generic way. **SAP Fiori for SAP Event Management 1.0** introduced the first EM transactional Fiori app '*Freight Order Visibility*' (FOV), based on the EM OData service.

To make the FOV app easily extensible by customer developers, the **SAP Event Management plugin/extension for SAP Web IDE** is available. It is also known as the *Transactional App for SAP Event Management* and can be used by customer developers to generate their own custom transactional Fiori apps. This guide explains how to do this.

The SAP Event Management plugin/extension for SAP Web IDE:

- is available in the SAP Web IDE as a plugin
- is available in the SAP Web IDE Full-Stack as an extension.

Note

For information on how to migrate an SAP Web IDE plugin to an SAP Web IDE Full-Stack extension, see:

https://help.sap.com/viewer/825270ffffe74d9f988a0f0066ad59f0/CF/en-US/67a97b85476c41048f4203940f43766d.html

The SAP Event Management plugin/extension for SAP Web IDE:

- uses the EM OData service
- can be used by SAP EM customers to generate their own transactional Fiori app based on their own customizations without any custom development. This is done by means of a wizard designed for developers that allows them to accelerate and simplify development.

Note

The **SAP Event Management plugin/extension for SAP Web IDE** requires as a minimum the backend to have release **SAP Event Management 9.2** with support package SP4. Alternatively SAP Note <u>2175612</u> can be installed on top of lower support package.

The transactional Fiori apps generated by the wizard:

- are fully functional apps
- have the same look and feel along with similar functionality to the standard EM FOV app
- can be enhanced by manually modifying the code if additional detailed functions not provided by the wizard are required
- run on desktops, as well as tablet devices that have a screen format wide enough to display side by side the overview section and the detailed section of the screen.



Disclaimers

- 1. In most case, the settings made by the wizard result in a working FIORI app. However, in certain cases there might be mismatched settings that cannot automatically be detected by the wizard that result in a non-working app. In such cases, re-running the wizard with revised settings or manually modifying the code may be necessary.
- 2. Once generated an app can only be modified manually, not by means of the wizard.
- 3. The generation process is one-time only. After completing the wizard, you cannot use the wizard again to change the generated coding. To change the properties that you have already included in your app, you can either:
 - start from scratch by starting the wizard again and generate the app once more or
 - manually adjust them in your coding. For more information about manually adjusting your code, see step 3 <u>Modify the Generated Fiori App to Enable Non-Standard</u> <u>Functionality (Optional)</u>



About this guide

This guide provides an overview of the process that generates your own transactional Fiori app. It does not attempt to explain details if they are already documented elsewhere. In this case, it directs you to the existing documentation. However, it does provide details if they are previously undocumented or specific to this process.

This document guides you through the process to generate your own app involving the following steps:

- 1. Configure the Backend System
- 2. Generate a New Fiori App
- 3. Modify the Generated Fiori App to Enable Non-Standard Functionality (Optional)
- 4. <u>Set Up the ABAP Front-End Server</u>

Note

Throughout this guide the TM-EM freight unit tracking scenario, **ODT30_FU** is used as a reference as it is one of the most popular EM scenarios. However, the guide can be applied to any EM scenario, not only those involving TM. In fact, this means that the guide can be used to create a custom Fiori app for any tracking scenario that you have defined in your SAP Event Management system.

More information regarding the **ODT40_TO** scenario, which is the underlying scenario for the FOV app, can be found in the <u>Freight Order Visibility scenario guide</u>.



Step 1: Configure the Backend System

1-1. Activate the EM OData Service

To activate the EM OData service, *EM_SRV*, in the **SAP Event Management** backend system, first activate the gateway then configure the system alias.

For more information on the individual steps involved with details, see Customizing under Event Management → Event Messages, Status Queries, Web Interface and EM OData Service → EM OData Service → Define EM OData Service.

1-2. Configure the EM OData Service

The generated app for the example scenario looks as shown in the following screen shot:

Freight Units (1)		Freight Unit Details
4100027281	00	EM_ROTTERDAM_ST to EM_MANNHEIM_ST 2 h
EM_ROTTERDAM_ST to EM_MANNHEIM_ST 4100027281 Or EM Trucking D-69190 Walldorf (EM_CA EM Consignee Quadrat D-68159 Mann		4100027281 On Time EM Trucking D-69190 Walldorf (EM_CARR_01) EM Consignee Quadrat D-68159 Mannheim (EM_CONS_03) Image: Consignee Quadratery of the second s
		Block Status: Not Blocked Transp. Status: In Transit

Eve	nt Messages(7)					[=]	+
	Event Code	Expected Event Date/Time	Actual Event Date/Time	Location	Reason		
٠	Scheduling (SCHEDULED)	Jul 8, 2015 1:00:00 PM CET	Jul 10, 2015 9:33:12 AM UTC				/
~	Loading Begin (LOAD_BEGIN)	Jul 10, 2015 3:39:20 PM CET	Jul 10, 2015 12:13:00 PM CET	EM Rotterdam Station (EM_ROTTERDAM_S T)			/
~	Loading End (LOAD_END)	Jul 10, 2015 3:59:20 PM CET	Jul 10, 2015 3:28:00 PM CET	EM Rotterdam Station (EM_ROTTERDAM_S T)			/
A	Arrival at Destination (ARRIV_DEST)	Jul 10, 2015 9:40:00 PM CET		EM Mannheim Station (EM_MANNHEIM_ST)			/
A	Unloading Begin (UNLOAD_BEGIN)	Jul 10, 2015 9:40:00 PM CET		EM Mannheim Station (EM_MANNHEIM_ST)			/
A	Unloading End (UNLOAD_END)	Jul 10, 2015 10:00:00 PM CET		EM Mannheim Station (EM_MANNHEIM_ST)			/
~	Departure (DEPARTURE)	Jul 10, 2015 3:59:20 PM CET	Jul 13, 2015 2:56:00 PM CET	EM Rotterdam Station (EM_ROTTERDAM_S T)			/



Y

For every property that is to be displayed or used for selection in the generated Fiori app, a corresponding configured field has to be created.

For properties to be used for:

- selection, create a configured field and add the configured field to a new selection profile
- display, create a configured field and add the configured field to a new display profile.

Selection and display profiles need to be assigned to a new user profile.

OData specific properties, such as the mandatory external field name, need to be set which means you must create your own configured fields and cannot re-use existing ones from the standard content (without making modifications). However, you can copy a standard configured field and modify the appropriate settings that are relevant for the EM OData service. This is how the configured fields have been created that are used in this example.

Note: Configured fields starting with "Z" have been copied from a standard configured field that is used in the **ODT30_FU** scenario. Configured fields starting with "ZN" have been created from scratch for the example app.

- 1. Define selection, display and user profiles as follows:
 - a. Start transaction /SAPTRX/UCUP5 to create the new profiles
 - b. Create a new selection profile, for example *Z_FREIGHTUNIT*

New Entries: Overview of Added Entries

19 - - -				
Dialog Structure	Selection Profile			
Control User Profile	Selection Profile	Description		
Selection Profile Selection Profile Iten	Z_FREIGHTUNIT	Freight Unit Selection		
 Display Profile 				
 Event Handler Display 				

c. Create a new display profile, for example *Z_FREIGHTUNIT* without adding any further details

New Entries: Details of Added Entries

🎾 🚍 🔂 🔂 🔐				
Dialog Structure	Display Profile	Z_FREIGHTUNIT	Freight Unit Display	
User Profile Selection Profile Gelection Profile Iten	Display Profile	L	-	
 Display Profile 	Title Field 1		Title Field 2	
 Event Handler Display Event Message Display Event Handler Index EH Indexed Para 	Object Attribute 1 Field 1 Object Attribute 2 Field 1 Object Attribute 3 Field 1		Object Attribute 1 Field 2 Object Attribute 2 Field 2 Object Attribute 3 Field 2	
	Number Object Status 1		Object Status 2	

- d. Create a new user profile such as *Z_FREIGHTUNIT* and make the following settings:
 - Select your selection profile
 - Select your display profile
 - Enter the OData ID, which serves as a unique identifier for your scenario (more information is available via F1-help)
 - Select the event handler type used for your scenario



• Set the indicator to disable the profile for now. By doing this your new user profile will have no impact on the EM OData service as long as you are setting it up

🎾 New Entries 🐚 🚘 🛷 🔂 🛃				
Dialog Structure	User Profile	Z_FREIGHTUNIT	Freight Unit Tracking	
Selection Profile Iten	User Profile			
 Display Profile 	Selection Profile	Z_FREIGHTUNIT	Freight Unit Selection	
• 🗀 Event Handler Display	Display Profile	Z_FREIGHTUNIT	Freight Unit Display	
C Event Message Displa Event Handler Index C EH Indexed Para	OData ID	ZFreightUnit ODT30_FU		

2. Define the configured fields for selection

For each property that is to be used for selection in the app, you have to create a configured field. When these configured fields are assigned to the selection profile (next step) one of the following usage types has to be selected, which determines how the selection criteria will be used in the app (for more info see the F1-Help):

- Search Field
- Drill-down/Filter
- Drill-down only

The following examples illustrate what has to be done. You can create configured fields for selection by executing transaction **/SAPTRX/UCCF**.

a. Selection with the freight unit ID (usage type in selection profile: search field) A feature you want in the app is to be able to search for specific event handlers by entering a freight unit ID in to the search field. To enable this you have to create a configured field like Z_ODT30_FU_ID. It refers to the system parameter ODT20_TOR_ID, in which the freight unit ID is stored with leading zeros. Therefore the Leading Zeros Indicator is set to allow searching without having to enter the leading zeros. On the OData Service tab you must enter a unique external field name (see <u>naming conventions</u>), which will be the property name in the entity type ZFreightUnitEventHandlerOverview in the EM OData service later. Since we do not want to use the freight unit ID as a filter, the TAANA related settings can be left empty.



Configured Field Z_OI	DT30_FU_ID_SEL
General Data WebDyn	pro OData Service
EM Attribute ID	SYST_ODT20_TOR_ID
EM Object	Event Handler
Short Description	Freight Unit
Long Description	Freight Unit
Display Length	20
✓Lead. Zeros Ind.	
Configured Field Z_OD	T30_FU_ID_SEL
General Data WebDyn	pro OData Service
Semantics for Conf. Field	
External Field Name	FreightUnitIDFilter
TAANA View	
TAANA Variant	

b. Selection with the shipper ID (usage type in selection profile: Drill-down/Filter) The shipper ID (-> system parameter **ODT20_SHIPPER_INT**) is one of the parameters we want to have as possible filter categories available in the app. The long description will be used as filter category name in the app.

Since the selection field will be used as a usage type Drill-down/Filter in the selection profile, you need to determine how to retrieve the values and descriptions for the value help of the filter control. One option is the usage of TAANA (Table Analysis) to determine all the values that occur for a specific parameter.

TAANA must be setup for the parameters to be used and specified for each configured field separately. For information of how to use TAANA and retrieve filter values and filter descriptions, see the document Table Analysis (TAANA) - Usage for Filters in SAP Event Management transactional Applications (Fiori):

http://go.sap.com/documents/2016/06/4092ce1b-767c-0010-82c7-eda71af511fa.html



Configured Field Z_OI	DT30_FU_SHIP_SEL
General Data WebDyn	npro OData Service
EM Attribute ID	SYST_ODT20_SHIPPER_INT
EM Object	Event Handler
Short Description	Shipper
Long Description	Shipper
Display Length	
Lead. Zeros Ind.	
Configured Field [Z_0	DDT30_FU_SHIP_SEL
General Data WebDy	npro OData Service
Semantics for Conf. Field	▼
External Field Name	ShipperIDFlt
TAANA View	/SAPTRX/ODT20
TAANA Variant	ZODT_30_COLLECT

c. Selection with delivery status value (usage type in selection profile: Drill-down/Filter) The delivery status (status type ODT20_DELIVERY) is to be available as filter category as well in the app. The long description will be used again as filter category name in the app. For configured fields that refer to a status type no TAANA related fields are visible. For status types the possible status values are defined already in the customizing. Therefore no further logic like TAANA is necessary, which could be used to determine these values.



Configured Field ZOD	120_STAT_TOR_DLVS
General Data WebDyn	pro OData Service
EM Attribute ID	STATUS_TYPE:ODT20_DELIVERY
EM Object	Event Handler
Short Description	Deliv. Status
Long Description	Delivery Status
Display Length	
Lead. Zeros Ind.	
Dialog Structure	T20_STAT_TOR_DLVS
General Data WebDyr	npro OData Service
Semantics for Conf. Field	- -
External Field Name	DeliveryStatusFlt
	DeliveryStatusric

d. Selection of active event handlers (usage type in selection profile: Drill-down only)

The app is to only display active event handlers (EH header field EH_ACTIVE = 'X'). The corresponding property in the EM OData service *EventHandlerlsActiveFlt* will be selected as a static filter in the wizard to generate the app later. Since we do not want to offer this property as a filter category in the app, we can leave the TAANA related fields empty.



Configured Field ZOD1	I30_EH_ACTIVE
General Data WebDyn	pro OData Service
EM Attribute ID	EH ACTIVE
EM Object	Event Handler
Short Description	EH Active
Long Description	EH Active
Display Length	
Lead. Zeros Ind.	
Configured Field ZOD1	I30_EH_ACTIVE
General Data WebDyn	pro OData Service
	<u> </u>
Semantics for Conf. Field	
External Field Name	EventHandlerIsActiveFlt
TAANA View	
TAANA Variant	

3. Assign configured fields to selection profile

As soon as you have defined all required configured fields for selection you can assign them to your selection profile. For each field you have to select the usage type (refer to the F1 help for further information). For all fields with usage type Drill-down/Filter a collection ID (-> naming convention, F1 help) has to be entered.

In addition to the configured fields from above, some standard fields are used in the example:

- *EXP_EVENT_ACT_DT_SEL*: Filter category will be available to select event handler with expected events which have actual dates that lie in a specific time range, for example Current Day or Previous Week,...
- *EXP_EVENT_ACT_TZ_SEL*: Filter category will be available to define the time zone to which the actual dates of *EXP_EVENT_ACT_DT_SEL* refer to
- *EXP_EVENT_CNTRY_SEL*: Filter category will be available to select event handlers with expected events that refer to specific countries



🦻 New entries 咱 📑 🐼 📑 📑 🔡						
Dialog Structure User Profile Selection Profile	Selection Profile	_FREIGHTUNIT				
Selection Profile Iten	Selection Profile Item					
 Display Profile 	Configured Field	Usage Type	Collection ID			
• 🗀 Event Handler Display	EXP_EVENT_ACT_DT_SEL	Drill-down/Filter 🔹	EventDateTimeFilter			
• 🗀 Event Message Displa	EXP_EVENT_ACT_TZ_SEL	Drill-down/Filter	EventTimeZoneFilter			
 Event Handler Index 	EXP_EVENT_CNTRY_SEL	Drill-down/Filter	EventCountryFilter			
• 🗀 EH Indexed Parai	ZODT20_STAT_TOR_DLVS	Drill-down/Filter	DeliveryStatusFlt			
	ZODT30_EH_ACTIVE	Drill-down only	5			
	Z_ODT30_FU_ID_SEL	Search Field	L			
	Z_ODT30_FU_SHIP_SEL	Drill-down/Filter 🔹	ShipperFilter			

This makes the following filter categories available in the generated app later:

Filter Categories		Ç
Default 😔		
Deliv. Status		>
Expected Event Country		>
Calendar Time Frame		>
Calendar Time Frame Time Zone		>
Shipper		>
	Apply	Cancel

More information on the BAdI implementation for the ODT40_TO scenario (BAdI /SAPTRX/BADI_ODATA_FO) is available in the <u>Freight Order Visibility scenario guide</u>.



4. Define configured fields for display

Configured fields for display are needed for all the properties that shall be displayed in the several areas of the app which refer to the following entity types of the EM OData service (which will be generated as soon as the user profile is enabled):

- ZFreightUnitEventHandlerOverview
- ZFreightUnitEventHandlerDetails
- ZFreightUnitEventMessageOverview
- ZFreightUnitEventMessageDetails
- ZFreightUnitAssignedFreightOrders

The following examples illustrate what has to be done. You can create configured fields for display by executing transaction **/SAPTRX/UCCF**.

a. Display the freight unit ID

The freight unit ID (system parameter *ODT20_TOR_ID*) is definitely one of the attributes that should be displayed in the master area of the app. Again the external field name has to be unique and to comply with the naming conventions (link) and will serve as property name in the OData service.

Configured Field Z	_ODT30_FU_ID
General Data WebI	Dynpro OData Service
EM Attribute ID	SYST_ODT20_TOR_ID
EM Object	Event Handler
Short Description	Freight Unit
Long Description	Freight Unit
Display Length	
✓Lead. Zeros Ind.	
Configured Field Z	_ODT30_FU_ID
General Data WebD	Oynpro OData Service
Semantics for Configured I	Field
External Field Name	FreightUnitID
Use Value State	

b. Display the shipper ID with description

To display the shipper of the freight unit in a format like <Shipper description (Shipper ID)> two configured fields have to be defined – one for the description (control parameter



ODT20_SHIPPER_DESC) and one for the ID (system parameter *ODT20_SHIPPER_INT*). When generating the app they can be combined to achieve the desired format.

Configured Field Z	N_ODT30_SHIPPERDESC	
General Data WebI	Dynpro OData Service	
	Dynpro Obaca Service	
EM Attribute ID	CNTR_ODT20_SHIPPER_DESC	
EM Object	Event Handler	
Short Description	Shipper	
Long Description	Shipper	
Display Length		
Lead. Zeros Ind.		
Suppr. Field		
Configured Field Z1	N_ODT30_SHIPPERDESC	
General Data WebD	Oynpro OData Service	
	_	
Semantics for Configured F	Field	•
Semantics for Configured F External Field Name	Field ShipperDescription	•
		•
External Field Name		•
External Field Name		_]
External Field Name	ShipperDescription	<u> </u>
External Field Name	ShipperDescription	_]
External Field Name Use Value State Configured Field Z_	ShipperDescription	_]
External Field Name Use Value State Configured Field Z_	ShipperDescription	_]
External Field Name Use Value State Configured Field General Data WebD	ShipperDescription	_]
External Field Name Use Value State Configured Field General Data WebD	ODT30_FU_SHIPPER ynpro OData Service	•
External Field Name Use Value State Configured Field Configured Field Configured ID EM Attribute ID EM Object	ODT30_FU_SHIPPER ynpro OData Service SYST_ODT20_SHIPPER_INT]
External Field Name Use Value State Configured Field Z General Data WebD EM Attribute ID EM Object Short Description	ODT30_FU_SHIPPER ynpro OData Service SYST_ODT20_SHIPPER_INT Event Handler	
External Field Name Use Value State Configured Field Z General Data WebD EM Attribute ID EM Object Short Description	ODT30_FU_SHIPPER ynpro OData Service SYST_ODT20_SHIPPER_INT Event Handler Shipper	-
External Field Name Use Value State Configured Field Z General Data WebD EM Attribute ID EM Object Short Description Long Description	ODT30_FU_SHIPPER ynpro OData Service SYST_ODT20_SHIPPER_INT Event Handler Shipper	
External Field Name Use Value State Configured Field Z General Data WebD EM Attribute ID EM Object Short Description Long Description	ODT30_FU_SHIPPER ynpro OData Service SYST_ODT20_SHIPPER_INT Event Handler Shipper	-



Configured Field	Z_ODT30_FU_SHIPPER	
General Data	WebDynpro OData Ser	vice
Semantics for Config	gured Field	Ţ ,
External Field Name		ShipperID
Use Value State		

c. Display the current delay in hours

One configured field can be used to display the current delay in hours of a freight unit in the master area. To be able to display this number in a specific color which is determined by the actual delay the indicator *Use Value State* is set. Then a second configured field is needed which will provide the value state. (More info regarding the value state is in <u>Appendix 2</u>).

Configured Field ZM	N_ODT30_FU_DELAY		
General Data WebD	ynpro OData Service	1	
	-		
EM Attribute ID	INFO_ZODT30_CURRENT	_FU_DELAY	
EM Object	Event Handler		
Short Description	Current Delay		
Long Description	Current Delay		
Display Length			
Lead. Zeros Ind. Suppr. Field			
Configured Field ZN	_ODT30_FU_DELAY		
General Data WebD	ynpro OData Service		
Semantics for Configured F	ield	[_]
External Field Name		FreightUnitDelay	
✓ Use Value State			
Configured Field for Value S	State	ZN_ODT30_FU_DELAY	_VS



The semantics of this configured field has to be set to *Value State* and the external field name must end with '*VS*' (refer to the <u>naming conventions</u> in Appendix 2). One possibility to provide the values for these configured fields is to implement method *AFTER_GET_DATA_DISP* of BAdI **/SAPTRX/BADI_EH_S**. You can check BAdI implementation **/SAPTRX/ODATA_FIORI_APPS** for reference, which was created for the FOV app. You can find more information regarding this BAdI implementation in the <u>Freight</u> Order Visibility scenario guide.

Configured Field Z1	N_ODT30_FU_DELAY_VS	
General Data WebD	Opata Service	
EM Attribute ID	INFO_ZODT30_CURRENT	FU_DELAY_VS
EM Object	Event Handler	
Short Description	Delay Value State	
Long Description	Delay Value State	
Display Length		
Lead. Zeros Ind.		
Configured Field Z1	N_ODT30_FU_DELAY_VS	
General Data WebD	Opata Service	
Semantics for Configured F	Field	Value State
External Field Name		FreightUnitDelayVS
Use Value State		

d. Display the delivery status

The delivery status (status type *ODT20_DELIVERY*) is also to be displayed with value state that is with a color code. For configured fields that refer to a status type no additional configured field has to be defined for the value state. For status types the relation between status value and value state can be defined in the status attribute customizing.



Dialog Structure	StatusAtt. Name	ODT20_DELIV	ERY	Delivery S	tatus
 Status Attribute Names 					
• 🔁 Status Attribute Valu	J Status Attribute Va	ues			
	Status Attr. Value	Description	Seq. Icon	Icon Name	Value State
	CANCELLED	Cancelled	3		Warning (Yellow) 🔻
	DELAYED	Delayed	2		Error (Red) 🔹 🔻
	ON_TIME	On Time	1		Success (Green) 🔹

A property for the value state is generated automatically into the EM OData service. The property name is generated by concatenating 'VS' to the property name of the related status type.

Configured Field	DDT20_STAT_TOR_DLV
General Data WebD	Opata Service
EM Attribute ID	STATUS_TYPE:ODT20_DELIVERY
EM Object	Event Handler
Short Description	Deliv. Status
Long Description	Delivery Status
Display Length	
Lead. Zeros Ind.	
Configured Field ZC	DT20_STAT_TOR_DLV
General Data WebD	ynpro OData Service
Semantics for Configured F	ield 🔹
External Field Name	DeliveryStatusFreightUnit
✓ Use Value State	

e. Display the event status icon

To display the event status icon, the standard configured field EVENT_STATUS_EXTEND has to be used. If you use this field the standard icons are automatically used for the different event status.

f. Display the expected event date For displaying the expected event date the standard configured field EXP_DATE_TS can be used. The semantics is set to *Timestamp*, which requires an additional configured field to



provide the related time zone, which is *EXP_TIMEZONE*. (For more information see <u>Appendix 2</u>).

/			
Configured Field EX	KP_DATE_TS		
General Data WebD	ynpro OData Service		
EM Attribute ID	EVENT EXPECTED TIMES	TAMP	
EM Object	Event Message		
Short Description	Expected Event Date/Tin	ne	
Long Description	Expected Event Date/Tin	ne	
Display Length			
Configured Field EX	KP_DATE_TS		
		_	
General Data WebD	ynpro / OData Service		
	-		_
Semantics for Configured F	Field	Timestamp	•
External Field Name		EventExpectedD	ateTime
Use Value State			
Configured Field for Timezo	one	EXP_TIMEZONE	

The semantics of configured field *EXP_TIMEZONE* has to be set to *Timezone*. This configured field has not to be assigned in the display profile, it is automatically taken into account for the generation of the EM OData service since it is referenced by *EXP_DATE_TS*.

Configured Field	EXP_TIMEZONE
General Data We	bDynpro OData Service
EM Attribute ID	EVENT EXPECTED TIMEZONE
EM Object	Event Message
Short Description	Expd Date/Time Time Zone
Long Description	Time Zone for Expected Date/Time
Display Length	
Lead. Zeros Ind.	
Suppr. Field	



Configured Field	EXP_TIMEZONE		
General Data	WebDynpro OData S	ervice	
Semantics for Con	figured Field	Timezone	•
External Field Nam	e	EventExpectedTime	Zone
Use Value State	1		

g. Display the IDs of the assigned freight orders

This is the configured field for the leading indexed parameter to display additional data regarding the assigned freight orders in a table on an additional tab in the app. All values in one table row refer to indexed parameters that have the same index as the leading parameter.

Configured Field Z1	N_ODT30_ASSIGNED_FO		
General Data WebD	ynpro OData Service		
EM Attribute ID	CNTR_ZODT30_ASSIGNED_FREIGHT_ORDER_ID		
EM Object	Event Handler		
Short Description	Freight Order		
Long Description	Freight Order ID		
Display Length			
✓Lead. Zeros Ind. Suppr. Field			
Configured Field ZN	_ODT30_ASSIGNED_FO		
General Data WebDynpro OData Service			
Semantics for Configured F	ield 📜 🔽		
External Field Name	AssignedFreightOrderID		
Use Value State			

 Display the number of assigned freight orders
 This configured field can be used to provide the number of assigned freight orders. The number will be displayed for the additional tabs to indicate the number of entries. The



semantics has to be set to Number and the external field name has to begin with '*NumberOf* (refer to Appendix 2 for more information regarding <u>semantics</u> and <u>naming conventions</u>).

Configured Field ZI	N_ODT30_NO_ASS_FOS	
General Data WebD	Dynpro OData Service	
EM Attribute ID	CNTR_ZODT30_TO_NUMBER_OF_ASSIGNED_FOS	
EM Object	Event Handler	
Short Description	Number of Assigned FOs	
Long Description	Number of Assigned Freight Orders	
Display Length		
Lead. Zeros Ind.		
Suppr. Field		
Configured Field ZN	N_ODT30_NO_ASS_FOS	
General Data WebD	Ovnpro OData Service	
	Dynpro / OData Service	
Semantics for Configured F	Field Number	
External Field Name	NumberOfAssignedFreightOrd	lers
Use Value State		

5. Assign configured fields to display profile

As soon as you have defined all required configured fields for display you can assign them to your display profile as shown in the next screen shots.

a. Event Handler Overview

The number of fields for the event handler overview is fixed. For the attributes *Number*, *Object Status 1* and *Object Status 2*, the use of the value state concept is supported.



Change View "Display Profile": Details						
Dialog Structure	Display Profile	Z_FREIGHTUNIT	Freight Unit Display			
Call Selection Profile Iten Display Profile Display Profile Call Event Handler Display	Title Field 1	Z_ODT30_FU_SRC_LOC	Title Field 2	Z_ODT30_FU_DST_LOC		
 Event Message Displation Event Handler Index EH Indexed Parar 	Object Attribute 2 Field 1	Z_ODT30_FU_ID ZN_ODT30_SHIPPERDESC	Object Attribute 1 Field 2 Object Attribute 2 Field 2	Z_ODT30_FU_SHIPPER		
	Object Attribute 3 Field 1 Number	ZN_ODT30_CONSDESC	Object Attribute 3 Field 2	Z_ODT30_FU_CONSID		
	Object Status 1	ZODT20_STAT_TOR_DLV	Object Status 2			

b. Event Handler Details

The number of fields that can be displayed in the event handler details is not limited.

Dialog Structure	Display Profile	Z_FREIGHTUNIT		Freight Unit Display		
• 🗀 User Profile						
 Selection Profile 						
 Selection Profile Iten 						
 Display Profile 	Event Handler Display De	etails				
 Event Handler Display 	Configured Field	Seq. Det.				
 Event Message Displa 	ZODT20_STAT_TRANS	1				
 Event Handler Index 	ZODT20_STAT_BLOCK	2	•			
• 🗀 EH Indexed Parai		ð				
			_			

c. Event Message Overview and Details

The fields that are to be displayed in the event message overview or the event message details are defined together in one table.



Dialog Structure	Display Profile Z	FREIGHTUNIT	Display	
 User Profile 	L.			
 Selection Profile 				
 Selection Profile Iten 	1			
 Display Profile 	Event Message Display Det	tails		
• 🗀 Event Handler Display	Configured Field	Entity Type	Seq. Table	Seq. Det.
• 🔁 Event Message Displa	2,2112 0022	EventMessageOverview and Ev 🔻	90	90
Event Handler Index	EVI DESC	EventMessageOverview and Ev 🔻	1	1
• 🗀 EH Indexed Para	EVT_LOCATION_DESC	EventMessageOverview and Ev 🔻	2	2
	EVT_LOCATION_ID	EventMessageOverview and Ev 🔻	2	2
	EVT_REASON_TEXT	EventMessageOverview and Ev 🔻	3	3
	EXP_DATE_TS	EventMessageOverview and Ev 🔻	4	4
	MSG_DATE_TS	EventMessageDetails (Detail 🔻		7
	REP_DATE_TS	EventMessageOverview and Ev 🔻	5	5
	EVENT_STATUS_EXTEND	EventMessageOverview and Ev 🔻	91	91

 Event Handler Indexed Parameters
 For each additional tab that is to be displayed in the app one leading indexed parameter has to be assigned here.

Dialog Structure User Profile	Dis	play Profile	Z_	FREIGHTUNIT	
 Selection Profile Selection Profile Iten 		Event Handler Indexed A	Para	ameters	
 Display Profile 		Leading Index Param.		Collection ID	Number
• 🗀 Event Handler Display		ZN_ODT30_ASSIGNED_1	FO	AssignedFreightOrder	ZN_ODT30_NO_ASS_FOS
• 🗀 Event Message Displa				ð	
Event Handler Index					
• 🗀 EH Indexed Para					

For each leading indexed parameter a list of configured fields that refer to control or info parameters can be assigned.

Dialog Structure	Display Profile	Z_FREIGHTUNIT
 User Profile Selection Profile 	Leading Index Param.	ZN_ODT30_ASSIGNED_FO
Selection Profile Iten	1	
 Display Profile 	EH Indexed Parameter I	Details
• 🗀 Event Handler Display	Configured Field	
 Event Message Displa 	ZN_ODT30_CARRIER_F	0
 Event Handler Index 	ZN ODT30 LOADING L	oc 👻
• 🔂 EH Indexed Para	ZN ODT30 UNLOAD LO	c 🔲

6. Enable the user profile

As soon as you are finished with the customizing of the selection profile and the display profile you can enable the user profile by removing the flag on the indicator *Disabled Prof. Ind.*. The next time the EM OData service will be called, it will be regenerated and the new entity types which refer to the new user profile should be available.



For more information, see:

- Customizing under Event Management → Event Messages, Status Queries, Web Interface and EM OData Service → EM OData Service → Configure Fields for User Profiles.
- Customizing under Event Management → Event Messages, Status Queries, Web Interface and EM OData Service → EM OData Service → Define EM OData Service
- F1 help on specific fields.

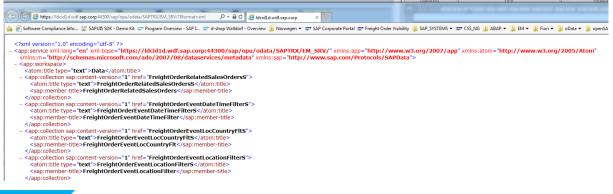
1-3. Test the Configuration of the EM OData Service

Once the EM OData service is activated and configured, test its configuration:

- Delete the metadata cache using transaction: /IWFND/CACHE_CLEANUP
- Start.transaction: /iwfnd/maint_service
- Double-click: EM_SRV

Catalog mod Service Name SETIBACRIE A. TISS I SERVICE NOISS MED CATALOS NOISS MED CA	1 1 2 1 1	Service Description Asset Tracking Service Ayla Test Service Catalog Service Catalog Service Version 2 Catalog Service Version 2 Data Agang Manage Groups Data Agang Manage Groups	External Service Name ASSETTRACKING AYLA TEST: SERVICE CATALOSSERVICE CATALOSSERVICE	* Namespace	
ETERADUG A TEST SERVICE NOISS MED CATALOS NOISS MED CATALOS E HINGSP E HONOD SEV JUNS DENO SEV UNA POPACISHET SEV OIA APPS SW SERVICE SEV OIA REPORTURE SEV OIA REPORTURE SEV	1 1 2 1 1	Asset Tracking Service Ayla Test Service Catalog Service Catalog Service Version 2 Data Aging Manage Groups	ASSETTRACKING AYLA TEST SERVICE CATALOGSERVICE		
A. TEST SERVICE NRUSS MED CATALOS MINISS MED CATALOS G. MINGGRE G. MINGGRE SEV LIARES DEMO SEV DIA APPS GW SERVICE SEV DIA APPS GW SERVICE SEV DIA APPS ACTIVEET SEV DIA BEOPENION SEV	1 1 2 1 1	Ayla Test Service Catalog Service Catalog Service Version 2 Data Aging Manage Groups	AYLA TEST SERVICE CATALOGSERVICE		
ND/SG_MED_CATALOG ND/SG_MED_CATALOG G_MIGGSP G_MONORI SRV LANES DEMO_SRV OIA_APPS_GW_SRV/ICE_SRV OIA_RPFAINN_SRV OIA_RPFAINN_SRV	1 2 1 1	Catalog Service Catalog Service Version 2 Data Aging Manage Groups	CATALOGSERVICE	(TAVEND)	
HD/SG_MED_CATALOG G_MIGGSP G_HONORI SRV LANES_DEMO_SRV DIA_APPS_GW_SERVICE_SRV DIA_BPFACTSHEET_SRV OLA_BPFACTSHEET_SRV OLA_BPFACTSHEET_SRV	2 1 1 1 1	Catalog Service Version 2 Data Aging Manage Groups		(TRACENT)/	
G MINGGRP G MONORI SRV LAMES DEMO SRV DIA APPS GW SRRVICE SRV DIA BPPEACTSHEET SRV DIA BPDENINN SRV	1	Data Aging Manage Groups	CATALOGSERVICE		
G. MONOBU SRV LANES DEMO. SRV DIA APPS GW. SERVICE SRV DIA. BPACTSHEET. SRV DIA. BPAPENBIY, SRV	1			/IWFND/	
SRV LANES DEMO SRV OIA APPS GW SERVICE SRV OIA BPFACTSHEET SRV OIA BPOPENBW SRV	1	Data Aging Monitor Objects	DAAG MNGGRP		5
LANES DEMO SRV DIA APPS GW SERVICE SRV DIA BPFACTSHEET SRV DIA BPOPENINY SRV			DAAG MONOBJ		
OIA APPS GW SERVICE SRV OIA BPFACTSHEET SRV OIA BPOPENDIV SRV	1	Service: Event Management Fion	EM SRV	/SAPTRX/	
OIA BPFACTSHEET SRV OIA BPOPENINV SRV		EPM: Gateway Service for Lanes Page Demo	EPM LANES DEMO SRV		1.6
OLA BPOPENINV SRV	1	CL_EPM_OIA_APPS_GW_SER_DPC_EXT	EPM OIA APPS GW SERVICE SRV		10
	1	EPM OIA: Open Item Analysis Dashboard - BP Fac	EPM OIA BPFACTSHEET SRV		
OTA CTRVCALECTREND CRV	1	EPM OIA:Open Ibern Analysis Dashboard - BP Ope	EPM OLA BPOPENINV SRV		
	1	EPM OIA: Open Item Analysis Dashboard - Countr	EPM OIA CTRYSALESTREND SRV		
OLA DEG GW SERVICE SRV	1	CL_EPM_OIA_DFG_GW_SERV_DPC_EXT	EPM OIA DEG GW SERVICE SRV		
OIA FIORI GW SERVICE SRV	1		EPM OIA FIORI GW SERVICE SRV		
OIA FIORI SRV	1	EPM OIA: Open Item Analysis Dashboard - Launc_	EPM OIA FIORI SRV		
OLA GW SALES HISTORY SRV	1	CL_EPM_OIA_GW_SALES_HL_DPC_EXT	EPM OIA GW SALES HISTORY SRV		
OIA OPENINY SRV	1	EPM OIA:Open Ibern Analysis Dashboard - Open 1	EPM OIA OPENINV SRV		G
OIA PRODSALESTREND SRV	1	EPM OIA: Open Item Analysis Dashboard-Product	EPM OIA PRODSALESTREND SRV		
TRACE	1	BRF+ lean trace evaluation	FOT TRACE		R
ND/GWDEMO SP2	1	ZCL_ZTEST_GWDEMO_DPC_EXT	GWDEMO_SP2	/IWBEP/	
ARCH VARIANT DIST SERVICE	1	Service for archiving distribution app	ILM ARCH VARIANT DIST SERVICE		19
308 MONITOR SERVICE	1	ILM Job Monitor Service	ILM JOB MONITOR SERVICE		
C	1	ILM Reporting Work Center	RWC		1
ND/SG MGW NOTIF STORE	1	ODATA Channet Notification Store	NOTIFICATIONSTORE	/IWFND/	
OURCE AVAILABILITY	1	Resource Availability	RESOURCE AVAILABILITY	/EMOD/	R
TSAMPLEFLIGHT 2	1	OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT 2	/IWBEP/	
M SADL GW DEV SCEN RO SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. 5c	S EPM SADL GW DEV SCEN RO SRV		1
HOME DYNAMIC SERVICE		Dynamic SADL Service	SADL HOME DYNAMIC SERVICE		
RS_SERVICE	1	Service for SADL ref. Scenario	SADL RS SERVICE		
HANA EXT PAL ODATA SRV	1	SEPM HANA EXT PAL ODATA	SEPM HANA EXT PAL ODATA SRV		
INTEGRATION SRV	1		SM INTEGRATION SRV		G
M SEARCH SRV	1		STERM SEARCH SRV		
M SUGGEST SRV	1		STERM SUGGEST SRV		12
M TERMINOLOGY SEARCH SRV	1		STERM TERMINOLOGY SEARCH SRV		
ND/SUBSCRIP TIONMANAGEMENT	2	MOC enabled Subscription Management Service	SUBSCRIP TIONMANAGEMENT	/IWBEP/	
				/TAT/	
				/IMFND/	
DELTE ETRO, PETRE			- REPRESENTATION		
Call Browner All Gateway Cl	ent		Add System Alas	Secustomina	Se
				(and the sty	
	es Node Session Time- Des	L UL DATA - ODATA I IDIU/SAGES/TRACTOR I IDIU/SAGES/TRACTOR I COM Browner I S Gateway Clerk CS Sector Time Description	LIL DATA DOTAS LIL DATA DOTAS I Track Trace Obje Sirvey for UL DISOSCERTITACIÓN HINTON Usage Trace de la conserve de la conser	LU DATA ODATA 1 Track Tarao Oboja Service for UL TAT LU DATA ODATA LU DATA ODATA 1 Track Tarao Oboja Service for UL TAT LU DATA ODATA NOVICE SERVICE 1 Information Worker - User Service USERSENDE	LLI DATA GOATA 1 Track Trace objes Server for UL TAT LLI DATA GOATA (TAT) I Track Trace objes Server for USERSETURE (TATA GOATA (TAT) I Information Worker - User Server (USERSETURE (TATA GOATA (TAT)) I Information Worker - User Server (USERSETURE (TATA GOATA (TAT)) I Information Worker - User Server (USERSETURE (TAT)) I I I Information Worker - User Server (USERSETURE (TAT)) I I I Information Worker - User Server (USERSETURE (TAT)) I I I Information Worker - User Server (USERSETURE (TAT)) I I I I I I I I I I I I I I I I I I I

- In the bottom window, click the Call Browser button
- This displays your metadata in the EM OData service. Check that it is all present and correct.





Step 2: Generate a New Fiori App

2-1. Setting Up SAP Web IDE and SAP Web IDE Full-Stack

You need a customer account for SAP Cloud Platform.

For information on purchasing a customer account, see <u>https://help.hana.ondemand.com/help/frameset.htm?a71a081b39e343e097046bf487f57af3.html</u>.

For general information on **SAP Cloud Platform**, see https://help.sap.com/viewer/65de2977205c403bbc107264b8eccf4b/Cloud/en-US/a8d6db47b1714a8d87f043a3546962c9.html

The **SAP Cloud Platform** account gives you a subscription to **SAP Web IDE** and **SAP Web IDE Full-Stack**. With this subscription you can install any of the available plugins/extensions. Select the tile: *Transactional App for SAP Event Management*.

This starts a wizard that is designed to be easy to use. Initially you need to enter set up info including:

- a project name for your app (this creates a folder inside **SAP Web IDE**, or **SAP Web IDE Full-Stack**, of the same name)
- a data connection to the system that you are to run your Fiori app on, for example your SAP Event Management backend system. You need to set up the Cloud Connector in the system that you are to run your Fiori app. For more information see:
 - SAP Cloud Platform Connectivity: <u>https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/e54cc8fbbb571014beb5caaf6aa31280.html</u>
 - Cloud Connector: <u>https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/e6c7616abb5710148cfcf3e75d96d596.html</u>
 - o Download of SAP HANA Cloud Connector: https://tools.hana.ondemand.com/#cloud
 - o SCN Community for SAP HANA Cloud Platform: http://developers.sap.com/cloud
- the name of the OData service, in this case EM_SRV

Notes

- 1. While using the wizard, if you need to switch your scenario (OData ID), you have to re-start the wizard.
- 2. If the backend configuration is changed and the EM OData service is regenerated while using the wizard, you have to re-start the wizard as well.
- 3. While using the wizard, it is not possible to save your work. Either, you must finish the wizard and generate an app, or if you need to stop before reaching the end, next time you must start the wizard again from the first step.

Once your set up info is entered, the wizard guides you through the remaining steps. You need to provide values that correspond, or point, to the settings that you configured in step 1 in the **SAP Event Management** backend system.

The following table, Table 1, relates some example values entered in the backend system during step 1 to the corresponding entries required in the wizard during step 5, Master List Area.



	Example Backend Value (configured field)	Wizard Entry (Ste (property nam	• •
Static Filter	ZODT30_EH_ACTIVE	EventHandlerIsActiveFlt	(5-2)
Title Field 1	Z_ODT30_FU_SRC_LOC	SourceLocationID	(5-4)
Title Field 2	Z_ODT30_FU_DST_LOC	DestinationLocationID	(5-4)
Number	ZN_ODT30_FU_DELAY	FreightUnitDelay	(5-4)
Object Attribute 1 Field 1	Z_ODT30_FU_ID	FreightUnitID	(5-4a)
Object Attribute 2 Field 1	ZN_ODT30_SHIPPERDESC	ShipperDescription	(5-4a)
Object Attribute 2 Field 2	Z_ODT30_FU_SHIPPER	ShipperID	(5-4a)
Object Attribute 3 Field 1	ZN_ODT30_CONSDESC	ConsigneeDescription	(5-4a)
Object Attribute 3 Field 2	Z_ODT30_FU_CONSID	ConsigneeID	(5-4a)
Object Status 1	ZODT20_STAT_TOR_DLV	DeliveryStatus	(5-4b)

 Table 1: Example Backend Values from Step 1 with Corresponding Wizard Entries

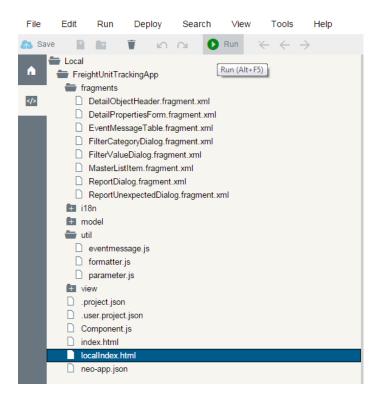
Key:

- Z or Z_ prefix indicates a copy of an existing standard configured field
- ZN_ prefix indicates a new configured field



When you finish the wizard, the coding for the Fiori app is generated.

- You can find the coding in the new project folder (you defined the name in step 2 of the wizard).
- You can directly test the app by executing *Run* for the localIndex.html.





2-2. Generation of the Example App Using the Wizard

The single steps the wizard guides you through to generate the example app for freight unit tracking are illustrated in the following screen shots:

1. Template Selection

1 Template Selection



Preight Onliers (20)			Freight Order Details	
Search for Orders.	KARL	SRUHE to WALLDOR	ξF	2
KARLSRUHE to	2 h +0000	105 ARLINES 5 (H20001409)		On Te
	-	് രി		
VICPLONCE APLINES 5 (442)0114 Read	21) (bish	Acception . Accepted		
WALLDORF	2 h		Completely Delevered Nex 9, 2014 5 00 00 PM OET	
AUDIOLOWICE ARE ARE S (AUDIOL ARE ARE ARE S (AUDIOL ARE ARE ARE ARE S (AUDIOL ARE		Planned Execution Stat Registration Number	Nov 5, 2014 6 80 60 AM CET	
KARLSRUHE to WALLDORF	2 h Event	Messages(8)		8.4
4400000111 OV	5mi	EventCode	Expected EventOpte Time Reason	
VICELONCE APLINES 5 (4420014 Read	*	Loading Begin (LOAD_BESIN)	Nex 5, 2014 E-00-09 AM CET	1
WALLDORF	2h 🖌	Loading End (LOAD_END)	Nex 8, 2014 6:30-38 AM CET	/
AVC0000112 On WORLDWCE ARLINES 5 (H200014 Read		Prod of Policy (POPU)	Nex 5, 2014 8:30 38 AM CET	1
KARLSRUHE to	2h 4	Departure (XDPWR7URE)	New 1, 2014 2:45-33 AM CET	/
4420000113 Ov WORLDWDE ARLINES 1_X02_CAR		Amust at Destination (AARM_DEST)	Nex 8, 2014 12:00:00 PM CET	/
Road	4	Unituding Begin (JALCAD_BECIN)	Nov 8, 2014 1.00.93 PM CET	/
KARLSRUHE to WALLDORF	2h 🖌	Univariate Fiel	Nov 8, 2014	

2. Basic Information

NEW PROJECT 1 Template Selection > 2 Basic Information > Next

2 Basic Information

Project Name*

FreightUnitTrackingApp

3. Data Connection

NEW PROJECT 1 Template Selection > 2 Basic Information > 3 Data Connection > Next

3 Data Connection

Service: EM_SRV selected.

Choose a service from one of the sources listed below.

Sources

Service Information

Service Catalog	G8P
Workspace	EM_SRV
File System	EM_SRV [Service: Event Management Fiori]
Service URL	CB_SHOPPINGCARTITEM_SRV [Shopping Cart Item Service] CB_COMMITMENTITEM_SRV [Commitment Item Service]
	CB_PROMOTION_ITEM_SRV [Retail Promotion Item Service] CB_MAINTENANCE_PLAN_ITEM_SRV[Maintenance_Plan_Item_Service]

CB_MAINTENANCE_PLAN_ITEM_SRV [Maintenance Plan Item Service]

- CB_NOTIF_ITEM_SRV [Quality Notification Item Service]
- CB_ALLOCATION_TABLE_ITEM_SRV [Allocation Table Item Service]



4. Scenario

NEW PROJECT 1 Temptate Selection > 2 Basic Information > 3 Data Connection > <u>4 Scenario</u> > Next							
4 Scenario							
Choose the OData ID for the scenario ye	ou want to create the app for. The OData ID is configure	d in the		Display View "User	Profile": Details		_
user profile customizing in the backend.				Dalog Structure Citizer Profile	User Profile	[FREIGHTORDER	Freight Orded
				Selection Profile Selection Profile Item Selection Profile Item Selection Profile Selecti	Selection Profile Display Profile	FREIGHTORDER FREIGHTORDER	Freight Order Selection Frolle Freight Order Deplay Frolle
OData ID	Choose your OData ID	ZFreightUnit	~	DEvent Message Dapi Devent Handler Index De Indexed Para	OData ID Ev. Hand. Type	FreghtOrder 00160_10	

5. Master List Area

a. Static Filter

NEW PROJECT 1 Template	Selection > 2 Basic Information > 3 E	ata Connection → 4 Scenario → 5 Master List Area → Next			
5 Master List Area					
In this step you define the heading	g of the master list, the pre-set filters tha	t cannot be changed by the user		Preight Orders (20)	Freight Order Detail
interactively (static filters), the sta	indard text displayed in the search field if	it is empty and the attributes		Search for Orders. Q. O	KARLSRUHE to WALLDORF
shown for each entry in the mast	shown for each entry in the master list.				
				KARLSRUHE to 2 h WALLDORF 4000001 On Tese WORLDWIDE ARLINES 5 (400001409) Road	Section: Transported Datas Parend December 104 No. 8, 2014 (2020) 7450 Parend Execution Namber 104 No. 8, 2014 (2020) 7450 Reprint Number 107-05-0440
1. Static Filter	D			KARLSRUHE to 2 h WALLDORF	Event Messages(8) Event Code Exected Event Date Tark
1. Static Filter	Property Value	EventHandlerIsActiveFit	~	4420005111 On Time WORLDWDE ARLINES 5 (H420001409) Road	Ever Code Expected Seet Care Tost

b. Search

5 Master List Are	ea			
In this step you define the he	ading of the master list, the pre-set filters that	cannot be changed by the user	Preight Orders (20)	Freight Order Detail
interactively (static filters), th shown for each entry in the r >	3 4 <	Control for Collection and report to the Collection Control for model to adoption KARLSRUHE to 2 h WALLDOOR to 2 h VALUE OF The Collection of the Collection VOID CONTROL AND, ARE 5 (EXCEDED FAIL) Round	KARLSRUHE to WALLDORF WOLLDACE ARLESS (#0000140) HODORE WOLLDACE ARLESS (#0000140) HODORE WOLLDACE ARLESS (#0000140) HODORE WALLDORF	
List nue State n	ter John Elstrein		KARLSRUHE to 2 h WALLDORF On The 1000000 ONE OF THE 1000000 NUMBER S (ARDON 400) Read	Back Days Transportation Days. Conserved Polisiener Prevent Execution Days. Next, 2014 5000 PHC Parenet Execution Days. Next, 2014 6000 PHC Days and Days and Days and Days and Days Repeated in Number. IP-0.5438
Search Field	Placeholder	Search for Freight Units	WALLDORF 4420000111 On Time	Event Code Expected Event Date/Time
	Toottip	Search by Freight Unit ID or IDs of assigned Freight Orders	WORLDWICE ARE NESS (+420001+439) Road	Loading Begin Nov 5, 3014 CORD (ECON) BODO AM CCT

c. List Item

5 Master List Area

In this step you define the heading of the		Freight Orders (20)	Preight Order Deta			
Interactively (static filters), the standard text displayed in the search field if it is empty and the attributes						
> 1 2	3 4 a D	_>>		KARLSRUHE to 2 h WALDORF On Sine WORLDWIDE ARR.NES 5 (4420001409) Road	442000000 Deter and a comparison of the compa	
				KARLSRUHE to 2 h WALLDORF 4000001 On Time WORLDWIDCARLINES 5 (440001409) Road	Next Dap. Transportation Toruss. Completing Delivered Panneed Execution Rowerk, 2014 (50000 Partice) Panneed Execution Davit, New 5, 2014 (50000 Partice) Regularition Number. IPP-0:5448	
				KARLSRUHE to 2 h WALLDORF	Event Messages(8)	
Title	First Property	SourceLocationID	~	4420000111 On Time	Event Code Expected Event Date Ten	
				WORLDWIDE AIRLINES 5 (4420001409) Road	Loading Begin Nev 6, 2014 (LOAD_BEORN) E00.00 AM CET	
	Second Property	DestinationLocationID	~	and the set	on of the state of the second	
	Conjunction	to				
Number	Property	FreightUnitDelay	~			
	Value State	FreightUnitDelayVS	<u>~</u>			



- ·				
51	vlast	or	I IST	Area

In this step you define the heading of the master list, the pre-set filters that cannot be changed by the user interactively (static filters), the standard text displayed in the search field if it is empty and the attributes shown for each entry in the master list.

> 1 [2] List Title Static Fil	3 4 a ter Search List Item Attributes	5 Status	
1. Attribute	First Property	FreightUntID	~
	Second Property		~
	Formatter		~
2. Attribute	First Property	ShipperDescription	÷
	Second Property	ShipperID	~
	Formatter	First (Second)	~
3. Attribute	First Property	ConsigneeDescription	~
	Second Property	ConsigneeID	~
	Formatter	First (Second)	~

Freight Orders (20)		Freight Onder De
Inach for Unites Q	C KARLSRUHF to WALLOO	0.5
Filtered by multiple concerns :		
KARLSRUHE to 2 WALLDORF	h expresses	
4428000000 Ox 5		
14740.000 CARLINES 1 (442200) 40	i 🕕 🕲 💷	
Fired	Deals Asspection Assignation	
KARLSRUHE to 2		n Completely Delivered
WALLDORF	Panned Execution Ex	I No.4 8, 2014 5 80 00 P.
WORLDARDS ARE NOT I CARDONNAL		n. Nev 5, 2014 8:00:00 A
Real	Registant Nava	0. HP-01-0488
KARLSRUHE to 2 WALLDORF		
4400000111 De 3	- EveniCode	Expected Exert Sale?
INTRUDINDE ARE NES 5 (440000) 40	Loans Non	- May 8, 2014
Read	 Loang Mage 6.042_60000 	8:00 00 AM CET

5 Master List Area

In this step you define the heading of the master list, the pre-set filters that cannot be changed by the user interactively (static filters), the standard text displayed in the search field if it is empty and the attributes shown for each entry in the master list.

|> 1 2 3 4 a b >> List Title Static Filter Search List Item Attributes Status

1. Status	Property	FUDeliveryStatus	~
	Value State	FUDeliveryStatusVS	\checkmark
2. Status	Property		~
	Value State		\checkmark

Freight Orders (20)			Freight Order Detail
Search for Orders	CKARLS	RUHE to WALLDOR	
KARLSRUHE to 2 WALLDORF	th +(200000	IDE AIRLINES 5 (4420001409) 30	
4420000000 On T WORLDWDE ARUNES 5 (94200143		(a) (a)	
Read	Details	Angefn. Angefid.	
KARLSRUHE to 2 WALLDORF	th	Next Step Transportation Status	Constitute Debugant
4420000001 On T		Planned Execution End	Nov 8, 2014 5:00:00 PM
WORLDWIDE ARUNES 5 (#42000140 Road	0	Planned Execution Start Registration Number	Nov 5, 2014 6:00:00 AM FP-Ch 5400
	th Event N	lessages(8)	
WALLDORF		Event Code	Expected Event Date Ter
WORLDWIDE ARLINES 5 (\$42000140			
Prad	1	Loading Begin (LOAD) BEGIND	Nov 5, 2014 6 00:00 AM CFT

6. Filter Dialog 6 Filter Dialog

Choose the entity types of the filter categories to be shown in the filter dialog. For each entity type you can define whether selection of single or multiple values is possible.

		Add Row	Delete Row
	Single / Multi		
~	Multi		~
~	Multi		~
~	Single		~
~	Single		~
	~	 ✓ Multi ✓ Multi ✓ Single 	Single / Multi Single / Multi Multi Multi Multi Single





7. Details Area

7 Details Area

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	Label	First Property	~	
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8. Reporting Events 8 Reporting Events

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Tip

In the backend system, no special customizing is needed for event reporting. To see unexpected events, enter them in the Unexpected Events Codes list.

For more information, see Customizing under Event Management \rightarrow Event Handlers and Event Handler Data \rightarrow Event Handlers \rightarrow Define Event Handler Types \rightarrow Unexpected Event Codes.

9. Event Details Area 9 Event Details Area

In this step you define the heading of the event message detail	screen and the fields displayed on the screen. Seperate sets c	an be defined for expe	cted or unexpected			Preight Crown (20)	e- Event Vessage Details
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9 Event Details Area

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KARLERUHE to VALLEORF	2 h		
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	Second Property	~
	Formatter	~
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	Second Property	
	Formatter	~ ~
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	Formatter	~ ~

Properties

							Add Row	Delete Row
First Property		Second Property		Formatter		Label		
EventExpectedDateTime	~	EventExpectedTimeZone	~	Date/Time Timezone	~	First Property		~
EventDateTime	~	EventTimeZone	~	Date/Time Timezone	~	First Property		~ ~
EventReasonText	~		~		~	Pirst Property		~ ~



Step 3: Modify the Generated Fiori App to Enable Non-Standard Functionality (Optional)

This step is optional. You only need it if you want to extend the standard functionality by manually changing the generated coding.

The following two examples of additional features are used in this step of the guide to illustrate how to manipulate the generated coding. These are not the only possibilities, there are no constraints to the changes that you can make in the coding.

3-1. Change the Attributes in the Detail area

By default all attributes from the **Masterlistitem** are also displayed in the *Detailarea*. If you want to change that, you must manually adjust the **DetailObjectHeader.fragment.xml**.

- As it is an XML-view, you can delete the attributes by simply clearing the xml tag of the specific attribute you do not want to be displayed.
- To change the attribute value you need to provide the right property included in the *EventHandlerOverview* collection of your *OData-ID*.

3-2. Logic to sync two Timezone Comboboxes

Suppose you want to report an unexpected event. You want the user to report the:

- time and the timezone of the event and
- new time and timezone of when you expect the next event.

In most cases the timezone of the event and the timezone of the next event will be the same. To provide this logic, there are two steps:

- In the **ReportUnexpectedDialog.fragment.xml** find the two timezone comboboxes that should be attached to each other. Give them an id and change their press function to your choice.
- In the **Detail.controller.js** write your own function for the press event, call **fnOnTimeZoneChange** and pass the event to it. (It provides the logic to attach the values to the send event message function). When you enter the function, check the id (through the event) of the combobox you're coming from and apply the following logic:

The value of the first combobox overrides the value of the second one.



Step 4: Set Up the ABAP Front-End Server

4-1. The ABAP Front-End Server

You need to install an ABAP Front-End Server. You can either install it within the **SAP Event Management** backend system or on a separate system. For more information, see SAP Library for Fiori on SAP Help Portal at <u>http://help.sap.com/fiori</u> → System Landscape Required for SAP Fiori.

There are various set up and configuration tasks required including the following:

- For app implementation information, see SAP Library for Fiori on SAP Help Portal at http://help.sap.com/fiori App Implementation Information for SAP Fiori → App Implementation
 → App Implementation for Transactional Apps.
- You need to set up the **SAP Fiori Launchpad**. For more information, see SAP Library for Fiori on SAP Help Portal at http://help.sap.com/fiori then Additional Information → SAP Fiori Launchpad.
- As part of setting up the SAP Fiori Launchpad, you need SICF services for the application resources from the front end system. For more information, see SAP Library for Fiori on SAP Help Portal at http://help.sap.com/fiori then Additional Information → SAP Fiori Launchpad → Setting Up the Launchpad → Configuring ICF Nodes → SICF Services..
- As part of setting up the SAP Fiori Launchpad, you need to set up roles and authorizations. For more information, see SAP Library for Fiori on SAP Help Portal at http://help.sap.com/fiori then Additional Information → SAP Fiori Launchpad → Setting Up the Launchpad → Configuring Authorization Roles

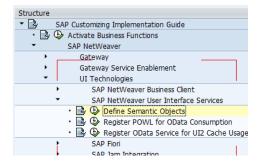
For general information about the Fiori system, see SAP Library for Fiori on SAP Help Portal at <u>http://help.sap.com/fiori</u> and check for documentation that is relevant for you such as the following:

- SAP Fiori Overview
- System Landscape Required for SAP Fiori → System Landscape
- App Implementation Information for SAP Fiori → Implementation Information.

4-2. Define Semantic Objects

To create a tile, you need semantic objects for navigational purposes. In the system you set up as a Fiori gateway, you need to define the semantic objects.

For more information, see Customizing under SAP NetWeaver → UI Technologies → SAP NetWeaver User Interface Services → Define Semantic Objects.





4-3. Customize Your SAP Fiori Launchpad

Finally, you need to customize your **SAP Fiori Launchpad** to include your generated app.

For more information, see SAP Library for Fiori on SAP Help Portal at <u>http://help.sap.com/fiori</u> → Additional Information → SAP Fiori Launchpad.

Having gone through all the required steps and completed everything that is relevant for you, you should now be able to use your generated app.



Appendix 1 Related Documents and SAP Notes

Related Documents

Document Type	Document Name (Link)
SAP Help for SAP EM 9.2	http://help.sap.com/em92
SAP Help for SAP Fiori 1.0 for SAP Event Management	http://help.sap.com/fiori_bs2013/helpdata/ en/74/401954990b8a24e10000000a4450e 5/frameset.htm
Table Analysis (TAANA) - Usage for Filters in SAP Event Management transactional Applications (Fiori)	http://go.sap.com/documents/2016/06/409 2ce1b-767c-0010-82c7-eda71af511fa.html
Freight Order Visibility Scenario (ODT40_TO) for SAP Transportation Management	http://go.sap.com/documents/2016/05/687 91fb4-737c-0010-82c7-eda71af511fa.html

Related SAP Notes

SAP Note	Description
<u>2093429</u>	Create your own transactional Fiori app for SAP Event Management 9.2
<u>2143816</u>	Filter values provided by EM OData service are not sorted by default
<u>2144507</u>	OData Service EM_SRV cannot be generated
<u>2162500</u>	EM OData Service: It is not possible use property 'Identifier' as a filter for the filter entity types
<u>2175612</u>	EM OData service EM_SRV cannot be used for Web IDE template 'Transactional App for SAP Event Management'
<u>2181284</u>	Runtime error in /IWCOR/CL_DS_EP_WRITER_XML - property of type Edm.DateTime or Edm.DateTimeOffset
<u>2337317</u>	Calling a generated Fiori app for SAP Event Management from SAP Smart Business for SAP Event Management



Appendix 2 General Information

Usage of Specific Semantic Settings for Configured Fields

Semantics for Configured Fields:

Semantics for configured fields are used to identify specific configured fields in the customizing. Depending on a certain semantic there are particular checks in the backend customizing for example in F4 helps and if configured fields can be assigned in the user profile customizing. In the following sections the most important semantic setting which can be used for generating a Fiori app are explained.

Note: When coding a Fiori app it is currently not possible to use the semantics or annotations which are generated in the OData metadata to determine automatically the link between them such as the corresponding valuestate field. Therefore it is necessary to know the property which is generated and address it statically in your coding or when selecting the fields in the template wizard.

Semantic valuestate

A configured field with semantic valuestate carries information for example in which color the field value should be displayed. Possible values which can be assigned to a valuestate field are:

- 'None' = black
- 'Error' = red
- 'Warning' = yellow
- 'Success' = green.

For a configured field which refers to an EM status attribute, a new property is generated with the suffix 'VS' for valuestate which is then referenced in this property. You use the valuestate information to display the data in a particular color. As a sample configured field you can check *ODT40_T0_DEL_STAT*.

Configured Field	DT40_TO_DEL_STAT	
General Data WebD	Oynpro OData Service	
EM Attribute ID	STATUS_TYPE:ODT40_T0_DELIVERY	
EM Object	EH Event Handler	
Short Description	Delivery Status	
Long Description	Delivery Status	
Display Length		

Example:

OData Service metadata:

```
<property Name="DeliveryStatusVS" Type="Edm.String" MaxLength="30" sap:filterable="false"/>
<Property Name="DeliveryStatus" Type="Edm.String" MaxLength="80" sap:emMasterField="ObjectStatus1"
sap:emValueStateProperty="DeliveryStatusVS" sap:label="Delivery Status" sap:filterable="false"/>
```

Event Handler Overview - Master List:

KARLSRUHE to WALLDORF	2 h
4420000000	On Time
WORLDWIDE AIRLINES 5 (4420	001409)
Road	



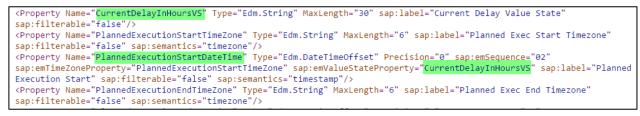
For configured fields which do not reference an EM status attribute, you must explicitly reference a valuestate field so that the valuestate property is generated in the EM OData service. As a sample configured field you can check *ODT40_CURRENT_DELAY*.

Configured Field	DT40_CURRENT_DELAY	
General Data WebD	Opata Service	
EM Attribute ID	INFO_ODT40_CURRENT_DELAY	
EM Object	EH Event Handler	
Short Description	Current Delay	
Long Description	Current Delay	
Display Length		

Configured Field	ODT40_CURRENT	DELAY	
General Data	WebDynpro ODa	ta Service	
Semantics for Confi	gured Field	1	-
External Field Name		CurrentDela	yInHours
✓ Use Value State			
Configured Field for	Value State	ODT40_DEL	AY_VS

Example:

OData Service metadata:



Event Handler Overview - Master List:

KARLSRUHE to	2 h				
4420000000	On Time				
WORLDWIDE AIRLINES 5 (4420001409)					
Road					

Semantic Number

Configured fields with semantics number are intended to be used for the Event Handler Indexed Parameters customizing. You can only assign configured fields with semantics number to the Number field in the user profile customizing. As it is not possible to have multiple values for a single property in an *EntityType* we have to use the indexed parameter concept. Therefore a new *EntityType* is generated which can have repeating lines. Imagine that your transport was based on several sales orders which you want to display. The number of the sales orders is not fixed and is dynamically determined when displaying the object on the



UI. Using the indexed parameter you have the possibility to display repeating information on a separate tab on the UI.

Example:

Event Handler Indexed Parameters Customizing

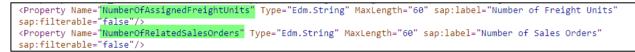
Dialog Structure		play Profile	REIGHTORDER	
• 🗀 User Profile				
 Selection Profile Selection Profile Item 		Event Handler Indexed Pa	rameters	
 Display Profile 		Leading Index Param.	Collection ID	Number
• 🗀 Event Handler Display		ODT40_TO_ASSIGNEDFUS	AssignedFreightUnits	ODT40_TO_NUMBER_FUS
• 🖾 Event Message Displa		ODT40_TO_SO_ID	RelatedSalesOrders	ODT40_TO_NUMBER_SOS
Event Handler Index				

Fiori UI Display:

KARLSRUHE to	WALLDORF					
VORLDWIDE AIRLINES 5 (4420001409) On						
442000000	442000000					
j Details	AssignedSal					
Assigned FUs	Planned Arrival Date/Time	Consignee Address	Shipper			
Assigned FUs 7110915169	Planned Arrival Date/Time Nov 8, 2014 12:00:00 PM CET	Consignee Address LICHTSTR: 69-71 / 40235 DÜSSELDORF				
	Nov 8, 2014	LICHTSTR. 69-71 / 40235	US FOOD COMPANY 2 (X02_SHIP2)			

The number field which has the semantic number is used to be display on the tab for which the indexed parameters should be displayed.

This number field is generated into the Event Handler Overview EntityType.



The reason for this is that the information about how many indexed parameters are available are retrieved from the backend system when retrieving the event handler overview data. The details for the indexed parameter are not pre-loaded, the data is retrieved when selecting the corresponding tab.



Semantic Timestamp and Timezone

- **Timestamp:** Setting the semantic timestamp activates a new input field for Configured Field for Timezone. Specifying a field for the timezone then generates a new property into the corresponding OData service

- **Timezone:** the timezone formats the timestamp field in the timezone which is specified in the timezone field.

Configured Field ODT40_T0_EXEC_END_TZ	
General Data WebDynpro OData Service	
Semantics for Configured Field	timezone Timezone 🔹
External Field Name	PlannedExecutionEndTimeZone
Use Value State	

Example:

<property <="" name="PlannedExecutionEndTimeZone" pre=""></property>	' Type="Edm.String" MaxLength="6" sap:label="Planned Exec End Timezone'
<pre>sap:filterable="false" sap:semantics="timezo</pre>	ine"/>
<property <="" name="PlannedExecutionEndDateTime" td=""><td>' Type="Edm.DateTimeOffset" Precision="0" sap:emSequence="03"</td></property>	' Type="Edm.DateTimeOffset" Precision="0" sap:emSequence="03"
sap:emTimeZoneProperty="PlannedExecutionEndT	<pre>imeZone" sap:label="Planned Execution End" sap:filterable="false"</pre>
<pre>sap:semantics="timestamp"/></pre>	



Naming Conventions and Restrictions

Before you start configuring the EM OData service we would like to give you some input you might need to consider when establishing you naming conventions in the configured fields and user profile customizing.

Configured fields

The customizing for the configured fields has been enhanced; beyond the already existing customizing which was intended to be used for the WebDynpro UI a new tab for specific OData settings is now available.

Configured Fields for Display

Naming Convention:

External Field names must be unique for all existing display and selection fields

External Field Names cannot end with *Filter* and *Flt*

External Field Names must start with NumberOf for semantic number others can't

External Field Names must end with VS for semantic valuestate others can't

External Field Names can only contain A-Z, a-z, 0-9, _

Restrictions:

When setting the semantic to "valuestate" the field is not directly used within any profiles (VS properties are automatically generated) - when the configured field is already used in a profile you cannot change the semantics to "value state"

Changes in external field name may not result in duplicate external field names within one of the profiles - external field names are unique for all configured fields in the system.

You cannot copy an existing configured field and keep the external field name.

Configured fields used in any profile cannot have an empty external field name - when the configured field is already used in a profile you cannot change the external field name to blank

Configured fields for selection

Naming Convention:

External Field names must be unique for all existing display and selection fields

External Field Names must end with *Filter* and *Flt*

External Field Names can only contain A-Z, a-z, 0-9, _

Restrictions:



Changes in external field name may not result in duplicate external field names within one of the profiles - external field names are unique for all configured fields in the system.

You cannot copy an existing configured field and keep the external field name.

Configured fields used in any profile cannot have an empty external field name - when the configured field is already used in a profile you cannot change the external field name to blank

User Profile Customizing

User Profile

Naming Convention:

ODataID can only contain A-Z, a-z, 0-9,

Selection Profile - Selection Profile Item

Naming Convention:

For Usage Type Drill-down/Filter a Collection ID has to specified – Collection ID must be unique for the selection profile

For Usage Type Drill-down/Filter a Collection ID has to specified – Collection ID must end with *Filter* or *Flt*

Restrictions:

It is not possible to include fields with blank external field name

It is not possible to include configured fields with identical configure field ids -> selection, display and index parameter number are generated in the EH Overview collection. Therefore it is also not possible to include fields with an identical ID even it is a display and selection field

It is not possible to include fields with semantic "valuestate"

Display Profile

Restrictions:

It is not possible to include configured fields with identical configure field id -> selection, display and index parameter number are generated in the EH Overview collection therefore it is also not possible to include fields with an identical ID even it's a display and selection field

It is not possible to include fields with semantic "valuestate"

Event Handler Display Details

Restrictions:

It is not possible to include fields with semantic "valuestate"

It is not possible to include fields with blank external field name



Event Message Display Details

Restrictions:

It is not possible to include fields with blank external field name

It is not possible to include fields with semantic "valuestate"

It is not possible to include fields with blank external field name

Event Handler Indexed Parameters

Naming Convention:

Collection ID must be unique within a display profile

Collection ID can only contain A-Z, a-z, 0-9,

Collection ID cannot end with Filter or Flt

Restrictions:

It is not possible to include configured fields with identical configure field id -> selection, display and index parameter number are generated in the EH Overview collection therefore it is also not possible to include fields with identical ID even it's a display and selection field

Number field & assigned external field name must be unique for all index parameter collections within one display profile.

It is not possible to include fields with blank external field name

Number field must be specified and the configured field cannot be used twice within a display profile – only fields with semantics number are allowed

It is not possible to include fields with semantic value state

EH Indexed Parameter Details

Restrictions:

It is not possible to include fields with blank external field name

It is not possible to include configured fields with identical configured field ids.

Leading Index Parameter in EH Index Parameters and configured fields EH Indexed Parameter Details must be unique as these fields are generated into the same OData Collection.

For example, you cannot use ODT40_TO_SO_ID as leading index parameter and use it again in EH Indexed Parameter Details.

It is not possible to include fields with semantic value state



Appendix 3 Frequently Asked Questions

For the list of FAQs online see:

http://go.sap.com/docs/download/2016/06/18abc6ba-757c-0010-82c7-eda71af511fa.pdf

Q1: Why do I not get my filter values in the filter control in my logon language e.g. for business partners or locations?

A:

- Check the trusted RFC connection which is used on the Fiori Launchpad system to the EM OData service → /IWFND/MAINT_SERVICE.
 Search for External Service Name EM_SRV and check in the System Aliases section the RFC destination. If you use current user make sure the language is not set.
- 2. Check if the corresponding master data system has been maintained for the EH Type used.

Q2: How do I retrieve further information such as filter IDs, descriptions, sorting and searching? A: See the documentation for BAdI /SAPTRX/BADI_ODATA_FO.



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