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Uladzislau Pralat

March 8, 2017 | 3 minute read

Get Your Fiori Trial Landscape in Cloud Ready in Minutes

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If you need Fiori Trial Landscape then the simplest and fastest would be to create one in a Cloud, especially if you do have skills, time and resources to install NetWeaver on Linux VM described in Open SAP course [Extending SAP S/4HANA with SAP HANA Cloud Platform](#). In my blog I will explain how to create NetWeaver CAL system and connect all systems together.

Assigned Tags

SAP Fiori

SAP Integration Suite

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At the end you will have fully functional Fiori Trail Landscape:

- NetWeaver CAL system deployed in Cloud (Gateway and Fiori front-end)
- HCP Web IDE connected to NetWeaver CAL system back-end using HANA Cloud Connector

Using Fiori Trial landscape you can complete [UI Extension scenario](#) (optional). In my example I deploy enhanced Fiori application back to NetWeaver CAL system side by side to original one to be demonstrate complete development cycle.

Here is what you need to do:

1. Deploy [SAP NetWeaver 7.50](#) CAL system to AWS with fixed IP.

Once the system is created and ready you will need to make some changes to it.

- Request the license key for NLP at [SAP Sneak Preview License Key Request](#) and install it using trx. SLICENCE

[How to use SAP HCP, mobile service for SAP Fiori - part 1](#)

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[Setup SAP Business Application Studio \(BAS\) for developing SAPUI5/Fiori like app using on-premise SAP ABAP System.](#)

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By Guru Balan Nov 29, 2022

https://go.support.sap.com/minisap/#/minisap

SAP License Keys for Preview, Evaluation and Developer Versions

<input type="radio"/>	HDB - SAP HANA, remote data sync	SAP HANA, remote data sync
<input type="radio"/>	HDB - SAP HANA, dynamic tiering	SAP HANA, dynamic tiering
<input type="radio"/>	HXE - SAP HANA, express edition (32GB)	SAP HANA, express edition (32GB)
<input type="radio"/>	IQ1 - SAP IQ Evaluation Edition	SAP IQ Evaluation Edition
<input type="radio"/>	J2E - J2EE-Engine 6.40-7.10 (Windows / MaxDB)	SAP NetWeaver Sneak Preview Java Edition from SDN
<input type="radio"/>	NPL - SAP NetWeaver 7.x (MaxDB)	Technology Preview SAP NetWeaver Gateway 2.0
<input checked="" type="radio"/>	NPL - SAP NetWeaver 7.x (Sybase ASE)	
<input type="radio"/>	NSP - SAP NetWeaver 7.x (Windows / MaxDB)	SAP NetWeaver Sneak Preview ABAP Edition from SDN
<input type="radio"/>	NSP - SAP NetWeaver 7.x (MSSQL)	
<input type="radio"/>	RE1 - SAP Replication Server Evaluation Edition	SAP Replication Server Evaluation Edition

Personal Data & System Info

Salutation*: ☒ Mr ☐ Ms

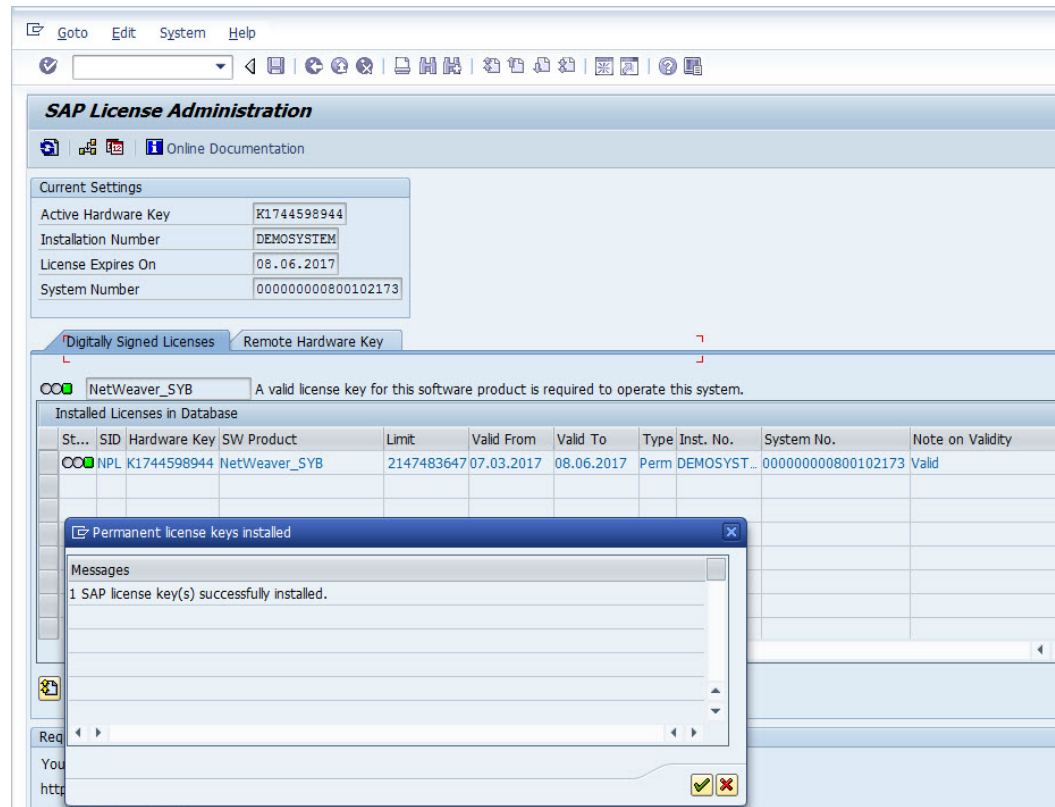
First Name*:

Last Name*:

Email Address*:

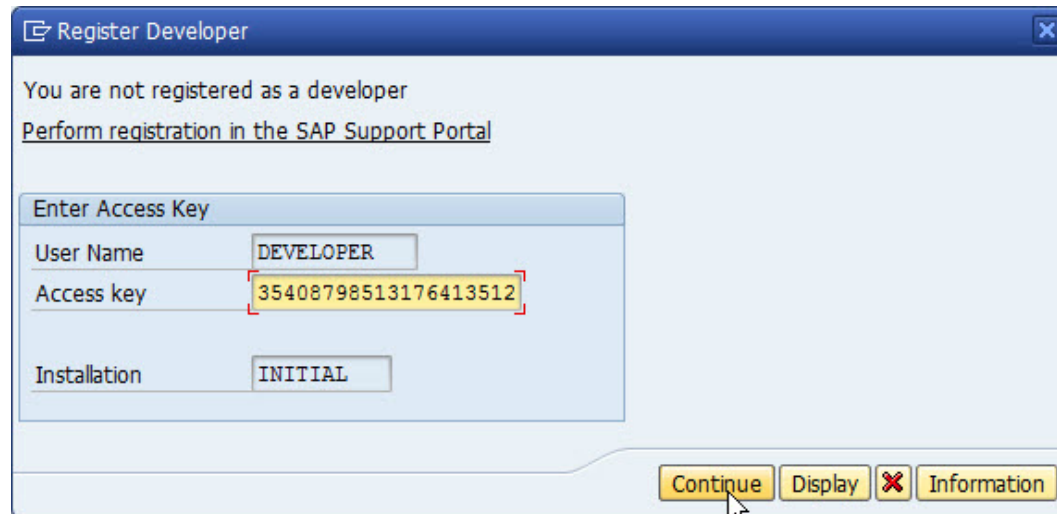
Hardware Key*:

[Generate](#) [Reset](#)



- Register DEVELOPER user as a developer

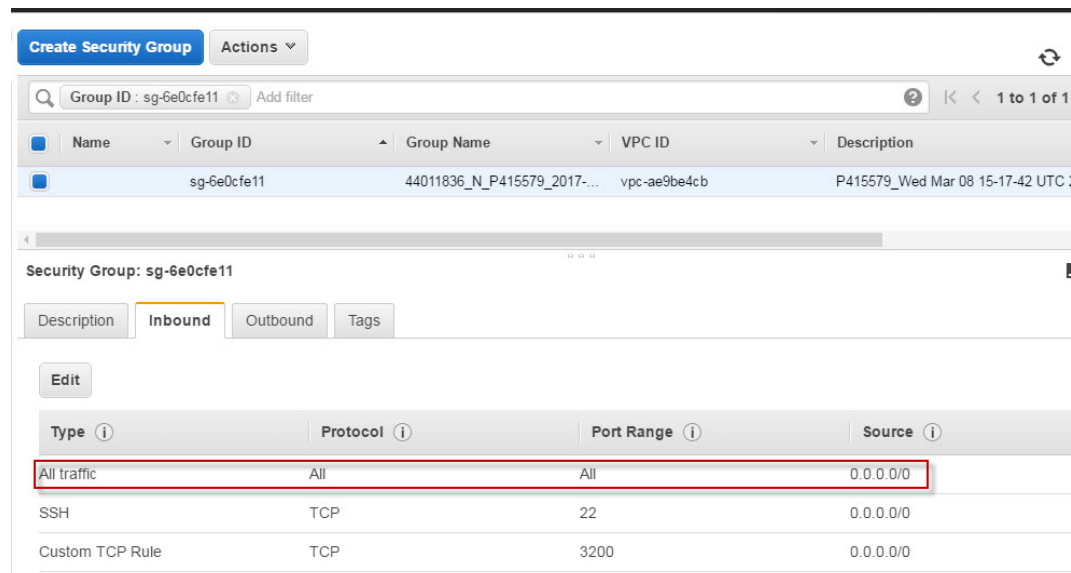
System will request the access key once you try to make development changes



The image shows a 'Register Developer' dialog box. It contains a message 'You are not registered as a developer' and a link 'Perform registration in the SAP Support Portal'. Below this is a form with three fields: 'User Name' with the value 'DEVELOPER', 'Access key' with the value '35408798513176413512', and 'Installation' with the value 'INITIAL'. At the bottom right, there are four buttons: 'Continue', 'Display', a red 'X' icon, and 'Information'. A mouse cursor is pointing at the 'Continue' button.

Developer Access Key for NPL system is 35408798513176413512

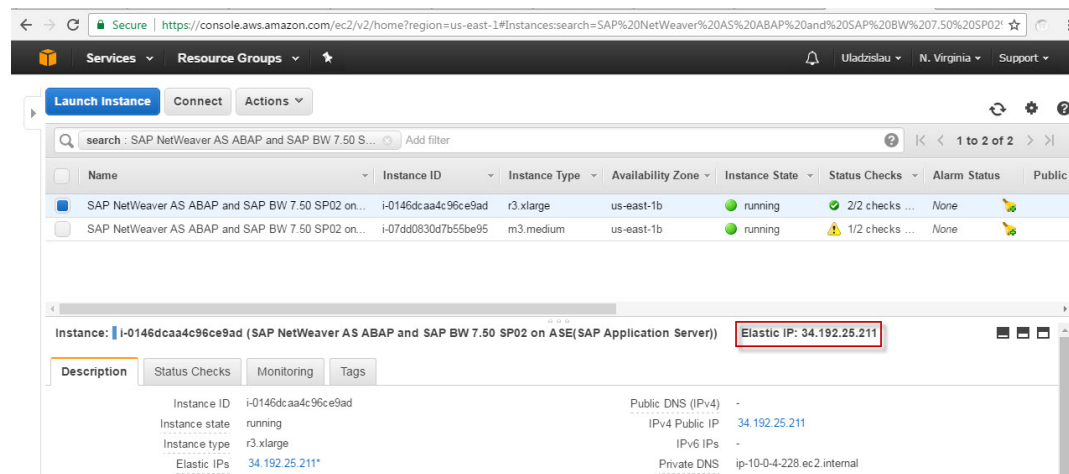
2. Change Security Group for AWS NetWeaver CAL system back-end to open inbound ports

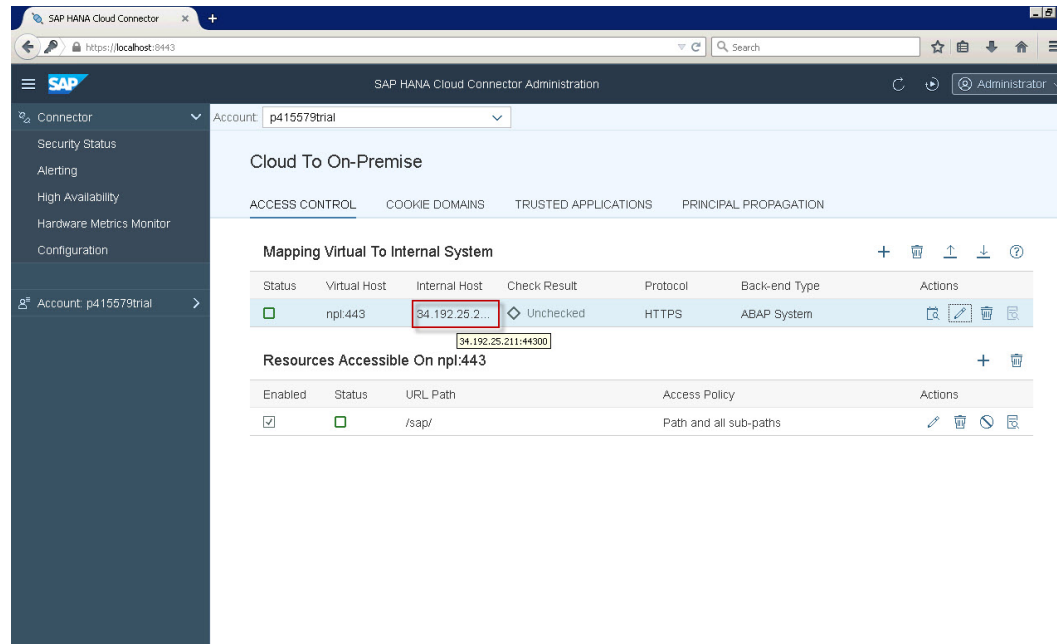


The image shows the AWS Management Console for Security Groups. At the top, there's a 'Create Security Group' button and an 'Actions' dropdown. Below is a search bar with 'Group ID : sg-6e0cfe11' and an 'Add filter' button. A table lists the security groups, with the selected group 'sg-6e0cfe11' highlighted. Below the table, the 'Security Group: sg-6e0cfe11' section is shown. It has tabs for 'Description', 'Inbound', 'Outbound', and 'Tags'. The 'Inbound' tab is active. There is an 'Edit' button. Below the 'Edit' button is a table with the following columns: 'Type', 'Protocol', 'Port Range', and 'Source'. The table contains three rows: 'All traffic' with 'All' protocol and 'All' port range, 'SSH' with 'TCP' protocol and port '22', and 'Custom TCP Rule' with 'TCP' protocol and port '3200'. The 'All traffic' row is highlighted with a red border.

Type	Protocol	Port Range	Source
All traffic	All	All	0.0.0.0/0
SSH	TCP	22	0.0.0.0/0
Custom TCP Rule	TCP	3200	0.0.0.0/0

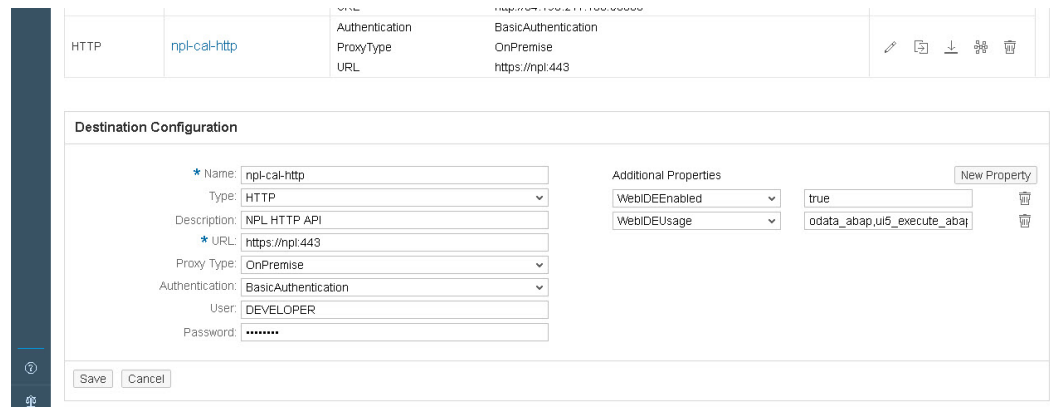
3. [Prepare HANA Cloud Platform Account](#)
4. [Download and install](#) HANA Cloud Connector on SAP NetWeaver 7.50 CAL system Front End
5. [Connect HANA Cloud Connector to HANA Cloud Platform](#)
6. [Add HCP Access to NetWeaver CAL system](#)





As you can see, Internal Host of On-Premise system is an IP address of NetWeaver 7.50 CAL system. Here is a system mapping file used [npl-http-access-control.zip](#)

7. Create Destination in HCP to SAP NetWeaver 7.50 CAL Backend System

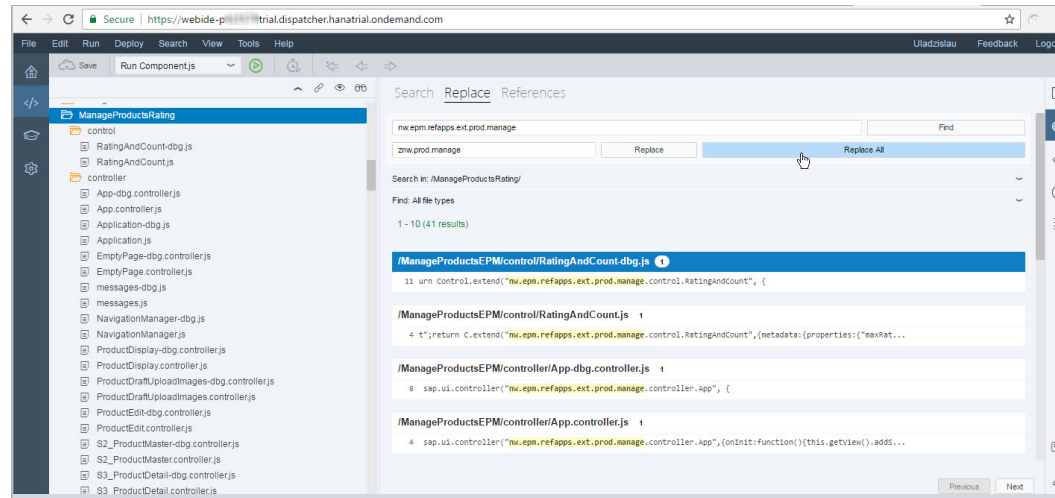


Here is a file used to define destination [npl-cal-http.properties](#)

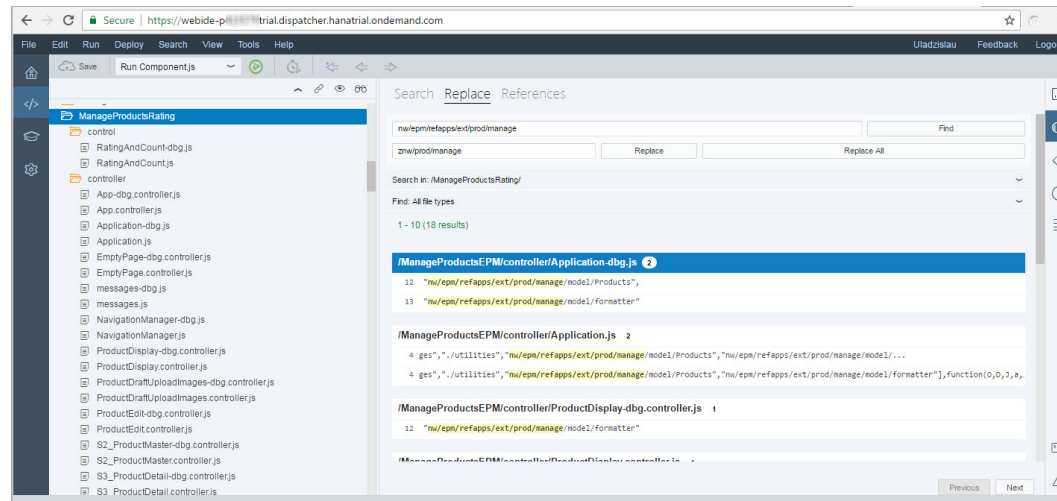
8. Import Manage Products SAP Reference Fiori App from ABAP Repository into Web IDE (optional)

9. Enhance Manage Product Fiori App (optional)

10. Change Naming Space of Enhanced Manage Products Fiori App in Web IDE (optional)



Replace nw.epm.refapps.ext.prod.manage with znw.prod.manage



Replace nw/epm/refapps/ext/prod/manage with znw/prod/manage

11. Deploy Enhance Manage Products Fiori App back to ABAP Repository side by side to original one (optional)

Deployment Options

Deploy a New Application

Select a Transport Request

Confirmation

×

Deploy to SAPUI5 ABAP Repository


Deployment Options

System *

NPL HTTP API

☒ Deploy a new application

☐ Update an existing application

 The SAPUI5 versions of your application and the selected SAP system are incompatible. This may generate problems at runtime.

Application:1.44.8

SAP system:1.34.1

Previous

Next

Deployment Options

Deploy a New Application

Confirmation

×

Deploy to SAPUI5 ABAP Repository

Deploy a New Application

Name * ⓘ

Description *

Package * ⓘ

Deployment Options

Deploy a New Application

Confirmation

×

Deploy to SAPUI5 ABAP Repository
Confirmation

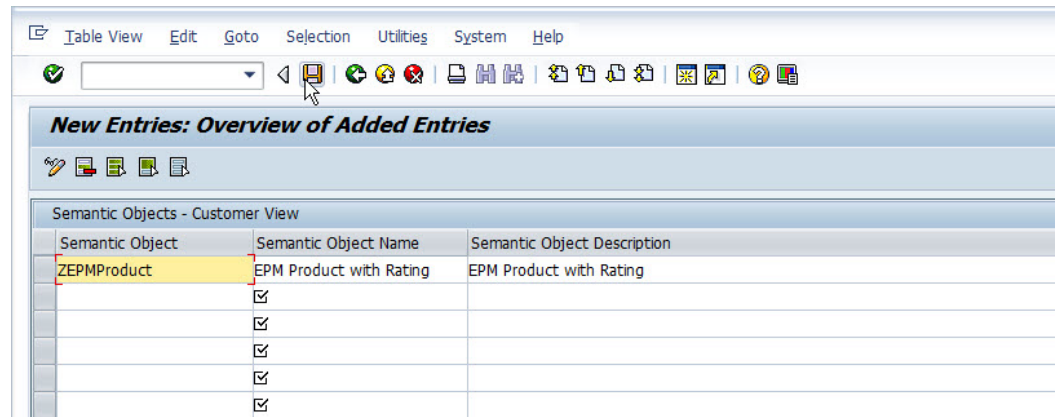
Click Finish to deploy your application to the SAPUI5 ABAP Repository.

Previous

Finish

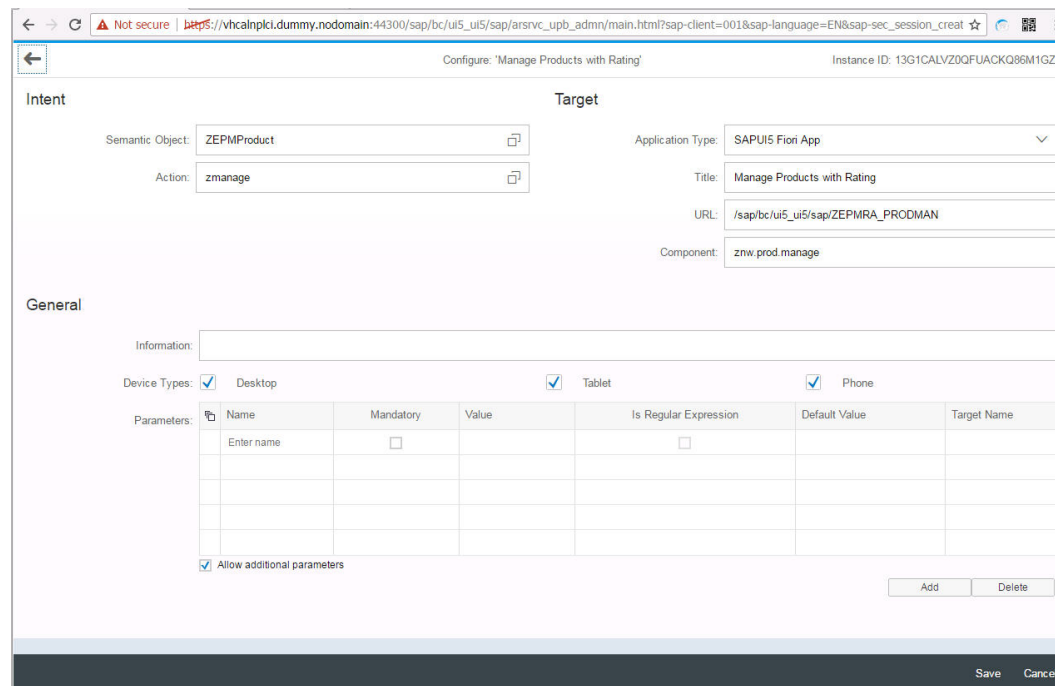
Finish

12. Define ZEPMPProduct Semantic Object in /UI2/SEMOBJ Transaction (optional)



13. In Fiori Launchpad Designer define a Tile for Enhanced Manage Product App (optional);

- Create Target Mapping in Purchaser (EPM) – Content Catalog



Semantic Object: ZEPMPProduct

Action: zmanage

Title: Manage Products with Rating

URL: /sap/bc/ui5_ui5/sap/ZEPMRA_PRODMAN

Component: znw.prod.manage

The screenshot shows the SAP Fiori Catalog Editor interface. The left sidebar displays a 'Catalog Collection' with a 'Drag to add' button and a search bar. The main area shows the configuration for the 'Purchaser (EPM) - Content' catalog. The ID is 'X-SAP-UI2-CATALOGPAGE:SAP_EPM_BC_PURCHASER_T'. The table below lists the semantic objects and their actions, navigation types, and device support.

Semantic Object	Action	Navigation type	Information	Desktop	Tablet	Phone	Outdated	Refere...
EPMPurchaseOrder	approve_ext	SAPUI5 Fiori App		✓	✓	✓		✓
EPMPProduct	manage_ext	SAPUI5 Fiori App		✓	✓	✓		✓
ZEPMPProduct	zmanage	SAPUI5 Fiori App		✓	✓	✓		

The bottom toolbar includes buttons for 'Show similar target mappings', 'Create Target Mapping', 'Configure', 'Create Reference', 'Delete', 'Where Used', and 'Original'.

- Create Tile in Purchaser (EPM) – Content Catalog

The screenshot shows the SAP Fiori configuration interface for the 'Manage Products with Rating' app. The interface is divided into four main sections: General, Dynamic Data, Navigation, and Tile Actions.

General:

- Title: Manage Products with Rating
- Subtitle: SAP Fiori Reference App
- Keywords: epm, reference, sample, fiori
- Icon: sap-icon://Fiori6/F0865
- Information: Products
- Number Unit: (empty)

Dynamic Data:

- Service URL: /sap/opu/odata/SAP/EPM_REF_APPS_PROD_MAN_SRV/Products/\$count
- Refresh Interval in Seconds: 450

Navigation:

- Use semantic object navigation: ☒
- Semantic Object: ZEPMPProduct
- Action: zmanage
- Parameters: (empty)
- Target URL: #ZEPMPProduct-zmanage

Tile Actions:

Menu Item	Target Type	Navigation Target
	URL	

Buttons: Add, Remove

At the bottom right, there are 'Save' and 'Cancel' buttons.

Title: Manage Products with Rating

Subtitle: SAP Fiori Reference App

Service

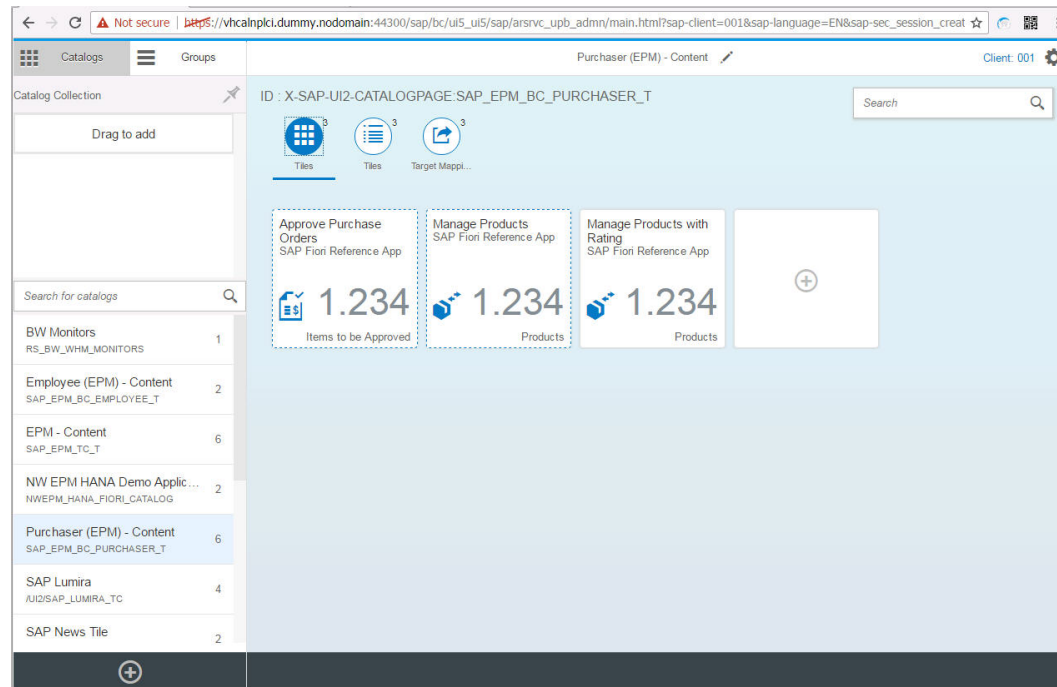
URL: /sap/opu/odata/SAP/EPM_REF_APPS_PROD_MAN_SRV/Products/\$count

Icon: sap-icon://Fiori6/F0865

Information: Products

Semantic Object: ZEPMPProduct

Action: zmanage



- Add created Tile to Purchaser (EPM) Catalog

The screenshot displays the SAP Fiori Catalogs interface. The top navigation bar shows 'Catalogs' and 'Groups'. The main area is titled 'Purchaser (EPM)' and shows the configuration for the 'Purchaser (EPM)' group. The left sidebar lists various groups, including 'BW Monitors', 'Employee (EPM)', 'KPI Modeler', 'NW EPM HANA Demo Applicati...', 'Purchaser (EPM)', and 'SAP Lumira'. The main content area shows the configuration for the 'Purchaser (EPM)' group, which is currently set to 'Show as Tiles'. The tiles displayed are 'Approve Purchase Orders' (SAP Fiori Reference App), 'Manage Products' (SAP Fiori Reference App), and a third tile with a plus icon and 'sys-add' label. The bottom section shows the 'Add Tile to Group "Purchaser (EPM)"' dialog, which lists the available tiles: 'Approve Purchase Orders', 'Manage Products', and 'Manage Products with Rating'. The 'Approve Purchase Orders' and 'Manage Products' tiles have green checkmarks, while the 'Manage Products with Rating' tile has a green plus icon.

Search for groups

ID : SAP_EPM_BCG_PURCHASER_T

Groups

- BW Monitors
RS_BW_WHM_MONITORS_GROUP 1
- Employee (EPM)
SAP_EPM_BCG_EMPLOYEE_T 1
- KPI Modeler
UI2/SAP_KPIMOD_TCG_S 8
- NW EPM HANA Demo Applicati...
NWEPM_HANA_FIORI_GROUP 1
- Purchaser (EPM)
SAP_EPM_BCG_PURCHASER_T 2
- SAP Lumira
UI2/SAP_LUMIRA_GROUP 2

Show as Tiles

Approve Purchase Orders
SAP Fiori Reference App

Manage Products
SAP Fiori Reference App

1.234 Items to be Approved

1.234 Products

sys-add

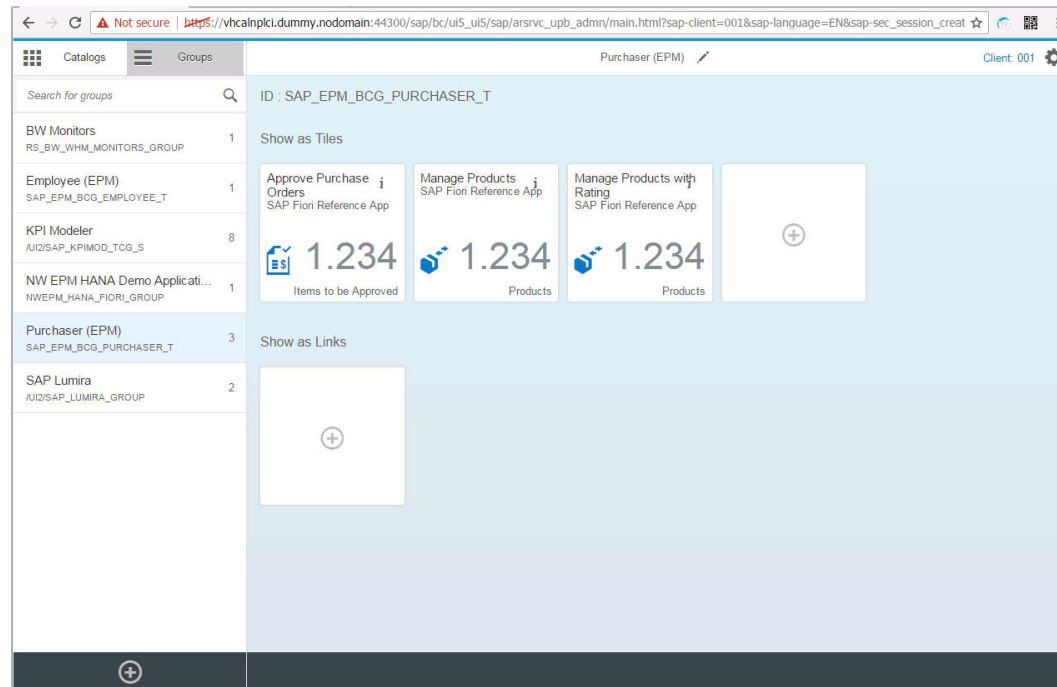
Show as Links

Add Tile to Group "Purchaser (EPM)"

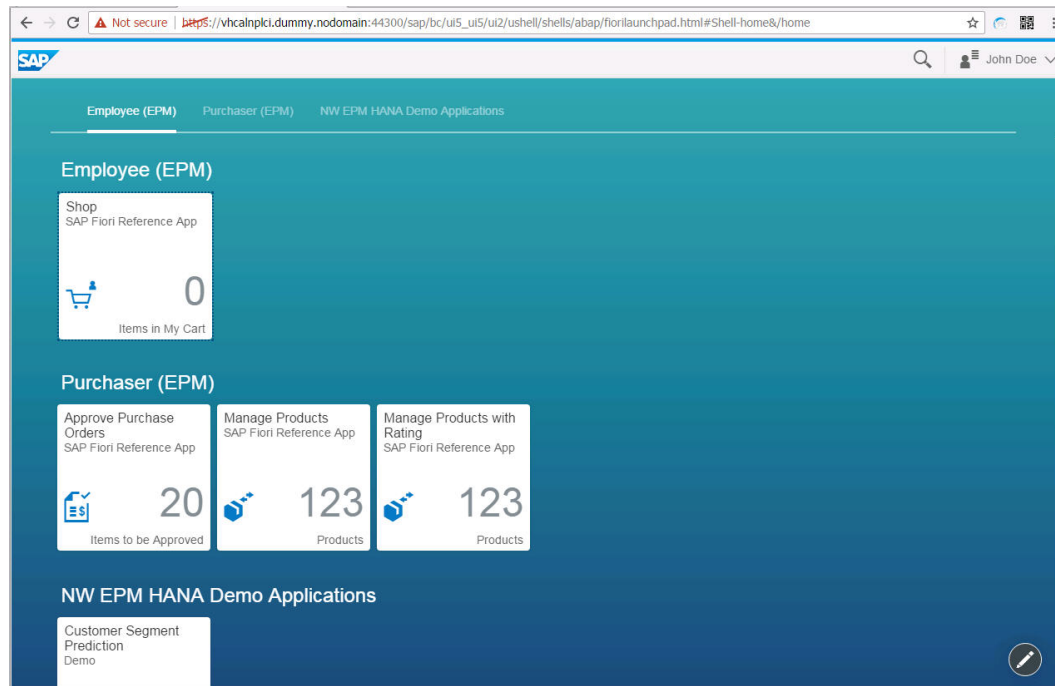
Purchaser (EPM) - Content

Purchaser (EPM) - Content

- Approve Purchase Orders
- Manage Products
- Manage Products with Rating



14. Make sure that Enhanced Manage Products App Tile is display in Fiori Launchpad next to original one (optional). Test Enhanced application to make sure that changes are there

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1 Comment

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Moya Watson 

March 9, 2017 at 12:02 am

Great! thanks for another detailed and useful blog!

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