

Step-by-step guide to enable Transactions in Fiori Launchpad using Application Descriptors in S/4HANA 1610 On-Premise



Document History

The following table provides an overview of the most important document changes

Table 1

Version	Date	Description
1.0	February 14, 2017	Initial Version – J. Javier Baltazar

Typographic Conventions

Type Style	Description
Example	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER .

Table of Contents

1	Introduction.....	5
2	Important Considerations	6
3	Define App Descriptors in S/4HANA Backend.....	8
4	Define Technical Catalog in S/4HANA Frontend	14
4	Create Custom PFCG Role in S/4HANA Frontend	19
5	Adding new Tiles to Fiori Launchpad	22

1 Introduction

Description

This document is created as a step-by-step guide to demonstrate how to enable Transactions in Fiori Launchpad using Application Descriptors and Technical Business Catalogs in S/4HANA 1610 On-Premise. While defining your UX strategy in an S/4HANA implementation you will find cases where no standard Fiori app is available.

One way to expose backend transactions to Fiori Launchpad is by implementing App Descriptors.

System prerequisites

SAP S/4HANA 1610 On-Premise with Gateway Hub Installation
Technical Activation of Fiori Launchpad has been concluded
Fiori Administrator Roles have been assigned to your user

Target group	Target group requirements
System Administrators Security Administrators	

2 Important Considerations

Background

SAP Fiori Launchpad for S/4HANA 1610 can integrate various UX application technologies. Amongst these technologies, we can find:

- SAP UI5
- SAP Web Dynpro/FPM ABAP
- SAP GUI for HTML

In the current S/4HANA releases not all SAP GUI standard transactions are available as a standard SAP Fiori Apps using any of the technologies listed above, this means you will find some cases where you will need to define an alternate approach to expose standard or custom backend functionality in Fiori Launchpad.

This approach needs to be based on User Role definitions and Fiori Launchpad design provided by your UX Implementation Team.

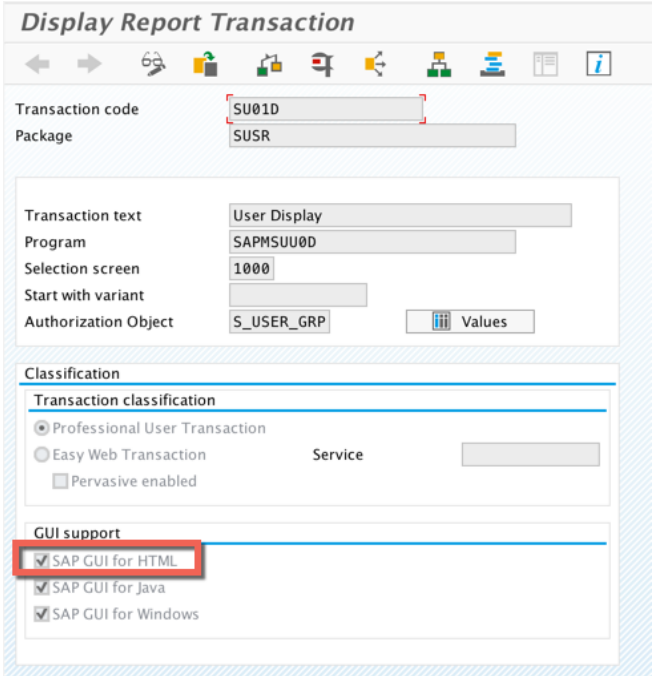
Prerequisites

- Required transaction exists as Web Dynpro/FPM or SAP GUI for HTML
- As a Technical Catalog Designer, you have been assigned role SAP_UI2_ADMIN in backend and frontend servers
- You have analyzed and identified the required subset of transactions required for a specific user role so the amount of applications exposed through this method is minimal.

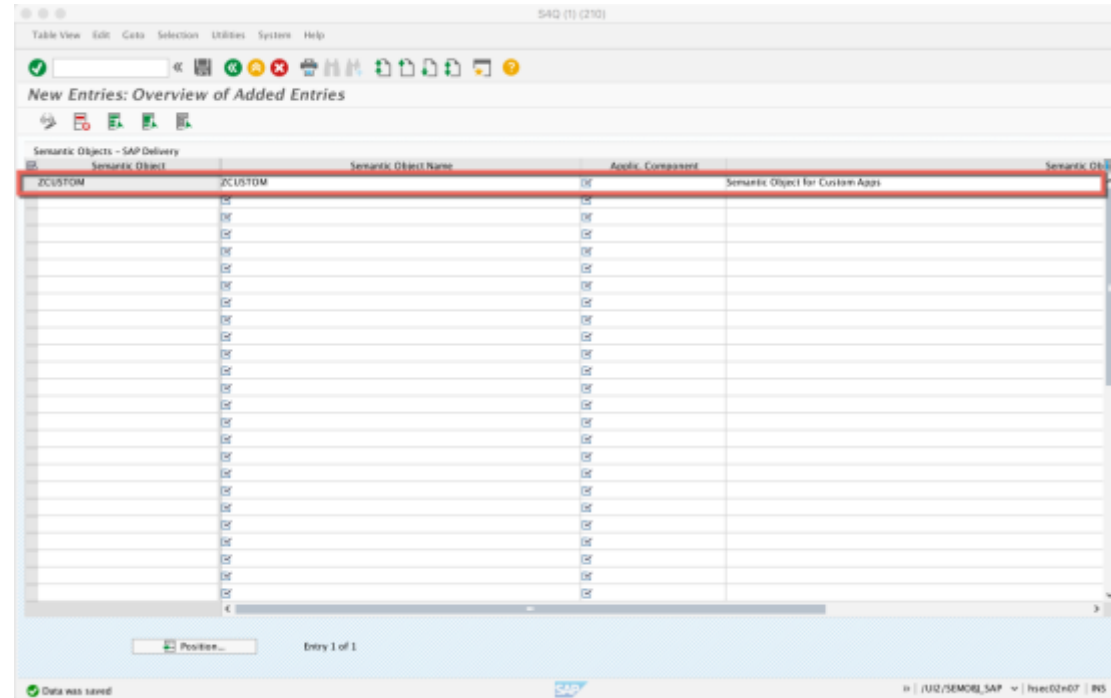
General Recommendations

- Technical Business Catalogs must not contain more than 200 Application Descriptors
- You are aware of the Restrictions in SAP Fiori visual theme for classic applications in [SAP Note 2348661](#)
- You are aware of the [Restrictions for using SAP GUI for HTML](#) and [SAP Note 314568](#)
- You are aware of the display adjustments that may be needed to render an application using Belize Theme described in the [Configuration Guidelines](#)

3 Define App Descriptors in S/4HANA Backend

Step/Description	Screenshot
<p>1. Select the transaction to be exposed through Fiori Launchpad, in this scenario we will be using transaction SU01D</p>	 <p>The screenshot shows the 'Display Report Transaction' configuration interface. The transaction code is SU01D and the package is SUSR. The transaction text is 'User Display', the program is SAPMSUU0D, and the selection screen is 1000. The authorization object is S_USER_GRP. Under the 'Classification' section, 'Professional User Transaction' is selected. In the 'GUI support' section, 'SAP GUI for HTML' is checked and highlighted with a red box, along with 'SAP GUI for Java' and 'SAP GUI for Windows'.</p> <p>**NOTE: Make sure the transaction you wish to use is available as SAP GUI for HTML, you can verify this in transaction SE93.</p>

2. In our example, we will be using a custom semantic object, this way Fiori Launchpad navigation will be determined using a custom object and we can quickly identify this was not a standard delivered object in case of future issues.



****NOTE:** Create new entries as displayed in the image using transaction `/UI2/SEMOBJ_SAP`.

You can skip this step if you prefer using standard semantic objects

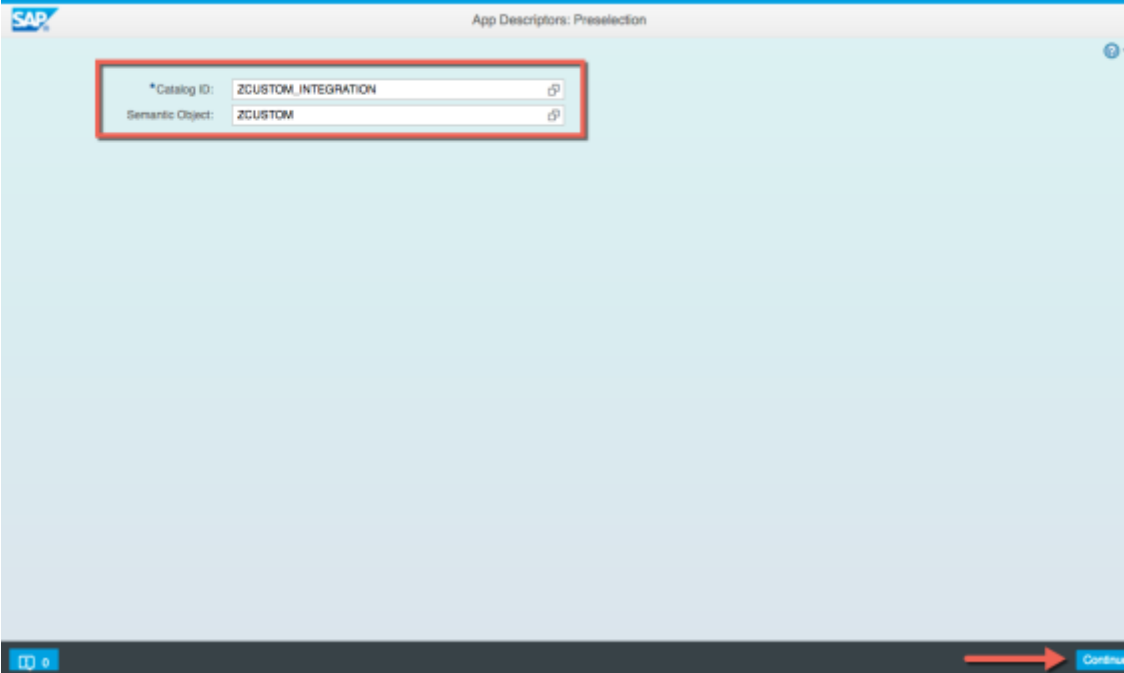
3. Open Mass Maintenance Tool for App Descriptors and define a catalog name and semantic object. We will use the following values:

- **Catalog ID:**
ZCUSTOM_INTEGRATION
- **Semantic Object:**
ZCUSTOM

By defining a semantic object, we will ensure that all applications in this catalog will use the same semantic object for Launchpad navigation resolution

Enter the required information and select

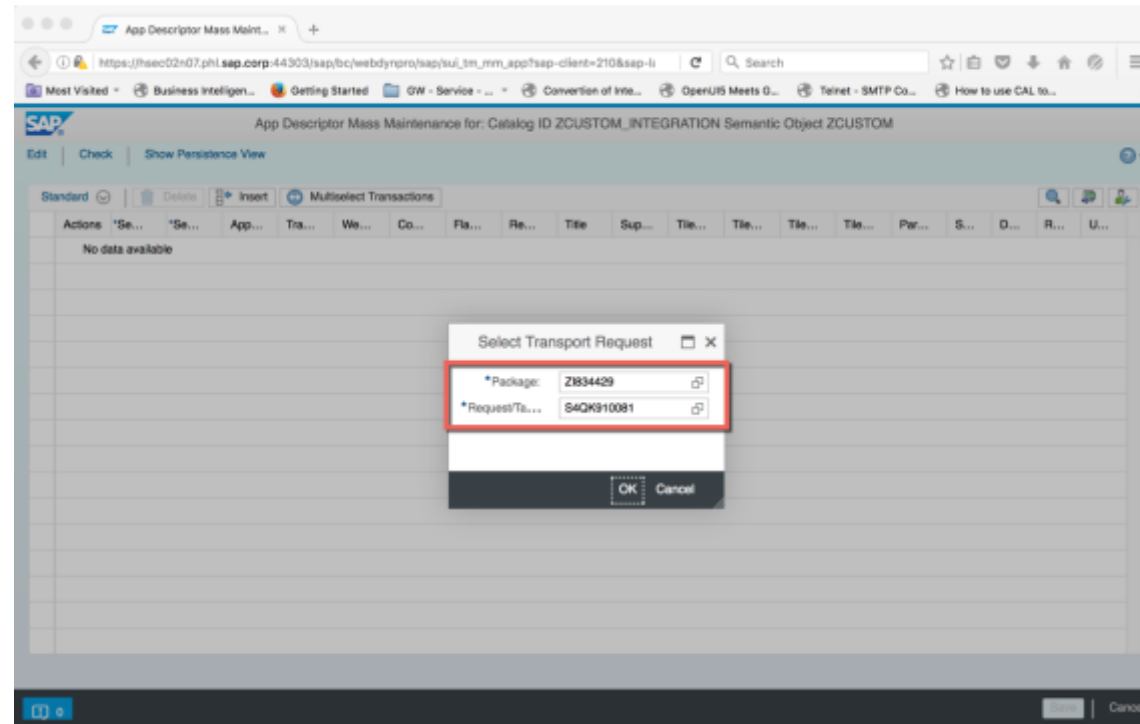
Continue



****NOTE – You can open Mass Maintenance Tool using Customizing (transaction SPRO), choose SAP NetWeaver → UI Technologies → SAP Fiori → Configuring Launchpad Content → Adding Apps to SAP Fiori Launchpad → Prepare Backend Catalogs for Reuse and launch the IMG activity Mass Maintenance Tool for App Descriptors. Alternatively, you can start FPM application SUI_TM_MM_APP from the ABAP Workbench (transaction SE80, package SUI_TM_MM).**

The catalog ID must not have more than 20 characters.

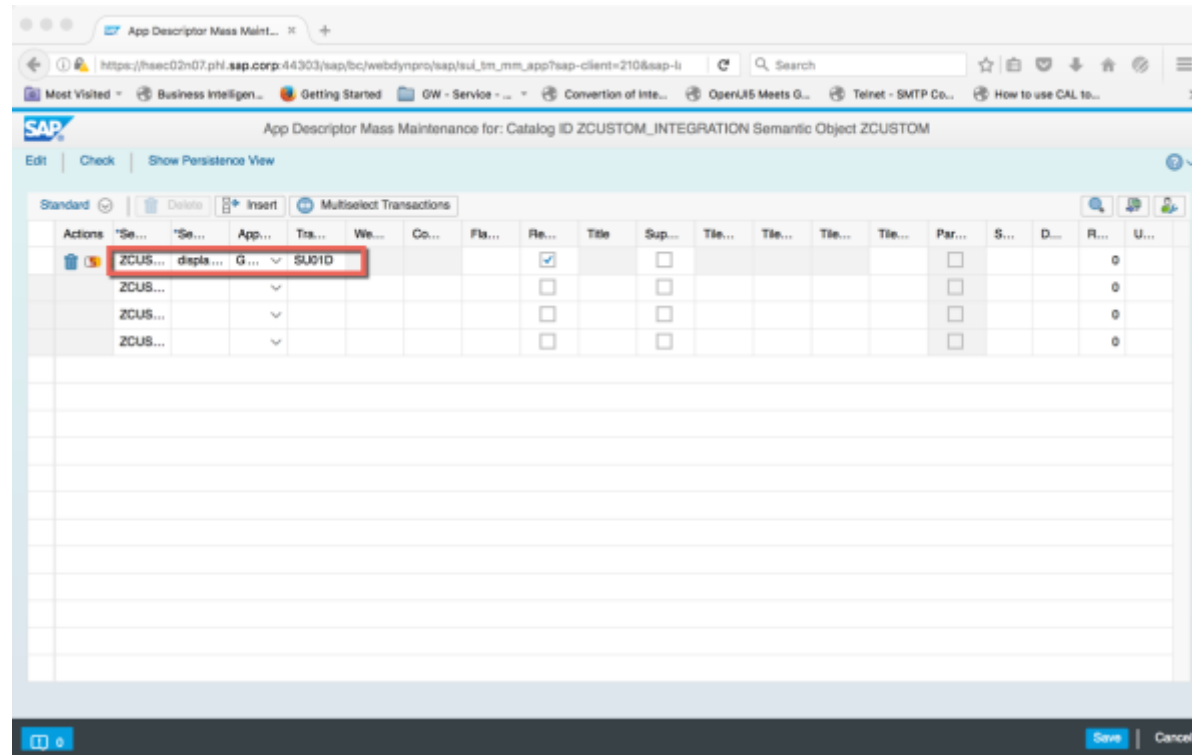
4. You will be prompted to enter a Package and Transport Request, this is required as these objects are transportable.



****NOTE – In this example we defined a custom package which will only contain application descriptors.**

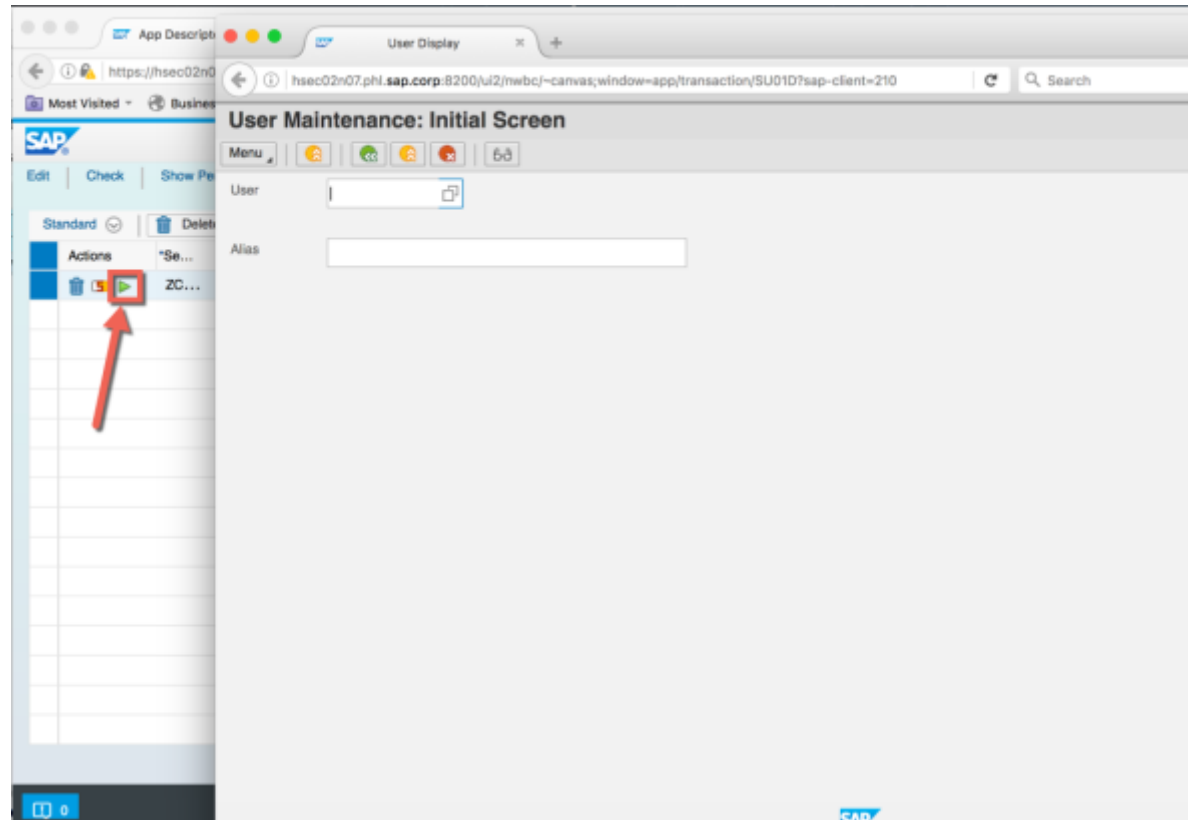
5. Fill the required fields:

- **Semantic Object:** Default value as defined in previous screen
- **Semantic Action:** Custom value to solve target navigation, this value must be unique per application
- **Application Type:** Choose between SAP GUI for HTML or SAP Web Dynpro ABAP
- **Transaction:** Enter the transaction code you wish to consume in Fiori Launchpad
- **Web Dynpro:** Enter the Web Dynpro ABAP technical name you wish to consume in Fiori Launchpad
- **Reuse Text:** Mark this checkbox if you wish to avoid translation efforts by retrieving texts from the referenced Web Dynpro or SAP GUI applications. Unmark the checkbox if you want to change texts (e.g. tile title).

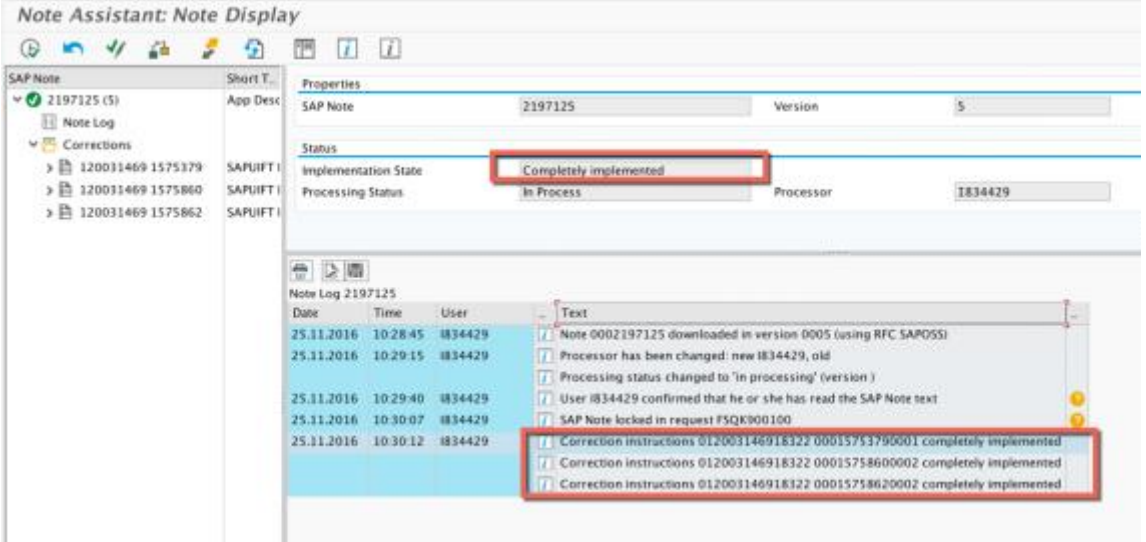


****NOTE – The fields to be filled will vary depending on the Application Type you choose (SAP GUI for HTML of SAP Web Dynpro).**

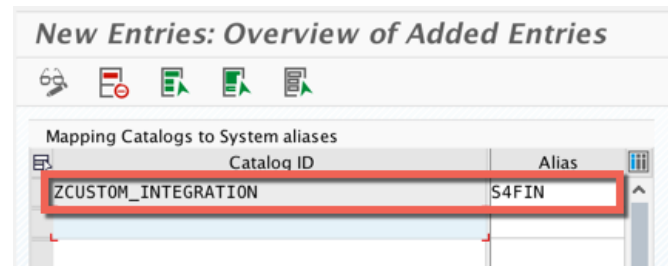
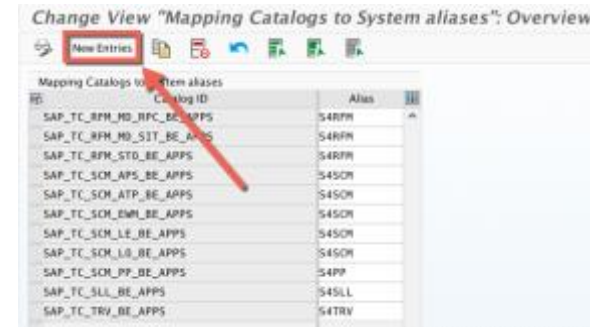
6. Once you defined all the parameters correctly you can use the **Test** button to preview your application.



4 Define Technical Catalog in S/4HANA Frontend

Step/Description	Screenshot																																				
1. In your Frontend Server, make sure you apply SAP Note 2197125	 <p>The screenshot shows the SAP Note Assistant interface for SAP Note 2197125. The 'Properties' section indicates the SAP Note is 2197125 and the version is 5. The 'Status' section shows the Implementation State as 'Completely implemented' (highlighted with a red box), and the Processing Status as 'In Process' with Processor ID 1834429. The 'Note Log' section displays a table of events:</p> <table border="1"><thead><tr><th>Date</th><th>Time</th><th>User</th><th>Text</th></tr></thead><tbody><tr><td>25.11.2016</td><td>10:28:45</td><td>1834429</td><td>Note 0002197125 downloaded in version 0005 (using RFC SAPOSS)</td></tr><tr><td>25.11.2016</td><td>10:29:15</td><td>1834429</td><td>Processor has been changed: new 1834429, old</td></tr><tr><td>25.11.2016</td><td>10:29:40</td><td>1834429</td><td>Processing status changed to 'In processing' (version)</td></tr><tr><td>25.11.2016</td><td>10:30:07</td><td>1834429</td><td>User 1834429 confirmed that he or she has read the SAP Note text</td></tr><tr><td>25.11.2016</td><td>10:30:12</td><td>1834429</td><td>SAP Note locked in request FSQK00100</td></tr><tr><td></td><td></td><td></td><td>Correction instructions 012003146918322 00015753790001 completely implemented</td></tr><tr><td></td><td></td><td></td><td>Correction instructions 012003146918322 00015758600002 completely implemented</td></tr><tr><td></td><td></td><td></td><td>Correction instructions 012003146918322 00015758620002 completely implemented</td></tr></tbody></table>	Date	Time	User	Text	25.11.2016	10:28:45	1834429	Note 0002197125 downloaded in version 0005 (using RFC SAPOSS)	25.11.2016	10:29:15	1834429	Processor has been changed: new 1834429, old	25.11.2016	10:29:40	1834429	Processing status changed to 'In processing' (version)	25.11.2016	10:30:07	1834429	User 1834429 confirmed that he or she has read the SAP Note text	25.11.2016	10:30:12	1834429	SAP Note locked in request FSQK00100				Correction instructions 012003146918322 00015753790001 completely implemented				Correction instructions 012003146918322 00015758600002 completely implemented				Correction instructions 012003146918322 00015758620002 completely implemented
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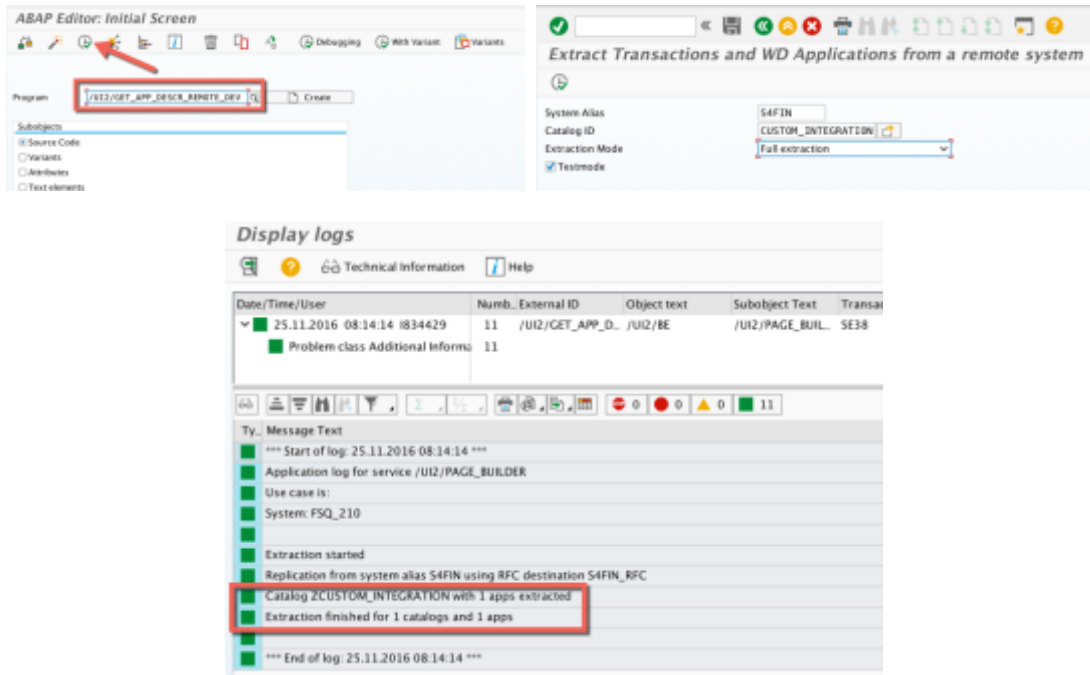
2. Map custom backend catalog to frontend system alias modifying the entries in table `/UI2/V_ALIASCAT` using transaction `SM30`



****NOTE – Make sure you enter the catalog name defined in the backend Mass Maintenance Tool for App Descriptors.**

In our scenario, we are reusing the standard provided system alias `S4FIN`, you can define your own system alias and assign it to your custom technical catalog.

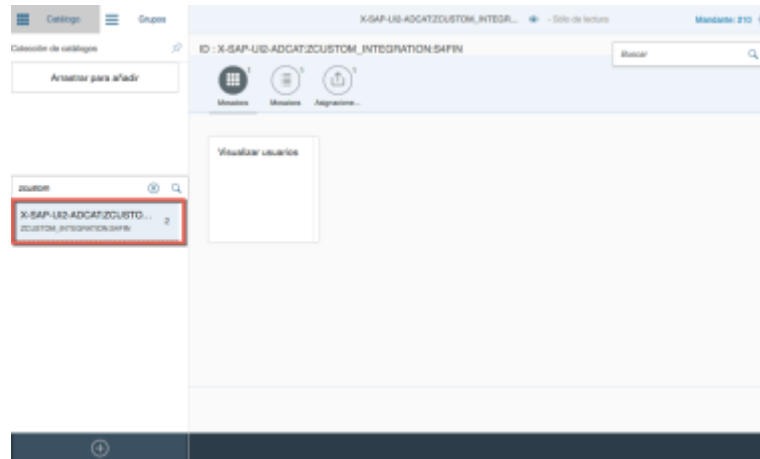
3. Run extraction report `/UI2/GET_APP_DESCRIPTOR_REMOTE_DEV` to extract the Backend Application Descriptors and replicate them to the Frontend Technical Catalog:
 - Select the **System Alias** and **Catalog ID** you defined in the previous step.
 - When running the report to extract data from a recently build App Descriptor make sure you set **Extraction Mode** parameter to **Full Extraction**.



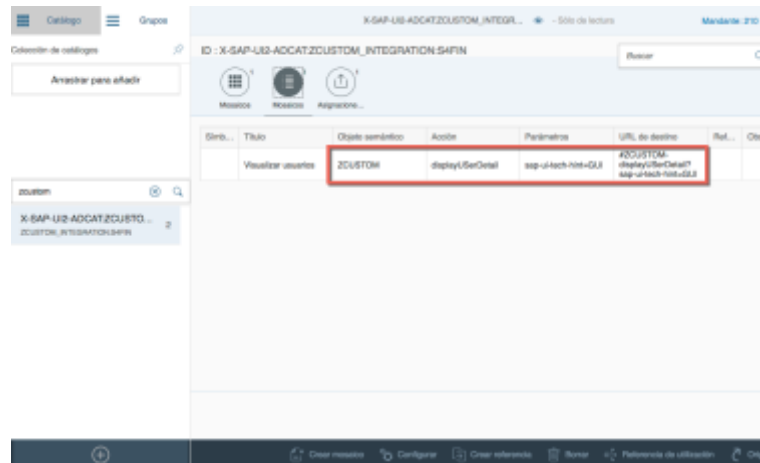
****NOTE – We recommend to always run this report in test mode until the results are satisfactory**

- Open Fiori Launchpad Designer and identify the new catalog, tiles and target mappings

Technical Catalog:



Tile Configuration:



Tile Configuration:

Configuración: "Visualizar usuarios" ID de instancia: AC182D8C08B1E0A6C0238C20780D048_AL

General

Título: Visualizar usuarios
 Subtítulo:
 Palabras clave: SUD10
 Símbolo:
 Información:

Navegación

Utilizar navegación de objeto es...
 Objeto semántico: ZCUSTOM
 Acción: displayUserDetail
 Parámetro: sap-ui-tech-frontend
 URL de destino: #ZCUSTOM-displayUserDetail?sap-ui-tech-frontend

Acciones de menús

Objeto de menú	Tipo de destino	Destino de navegación	Acción	Símbolo
	SUD10			

Crear Cancelar

Target Mapping:

Configuración: "Visualizar usuarios" ID de instancia: AC182D8C08B1E0A6C0238C20780D048_AL

Intención

Objeto semántico: ZCUSTOM
 Acción: displayUserDetail

Destino

Tipo de aplicación: Transacción
 Título: Visualizar usuarios
 Transacción: SUD10
 Alta de sistema: SAPN

General

Información:

Tipos de acceso: Externo Interno No

Parámetros:

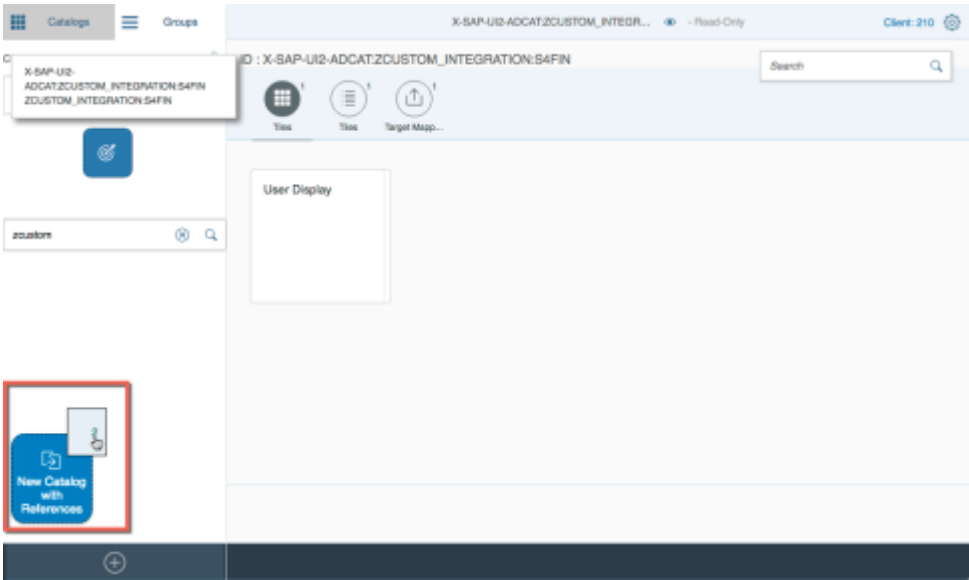
Nombre	Obligatorio	Valor	Es una expresión regular	Valor estándar	Nombre de destino
Sin datos					

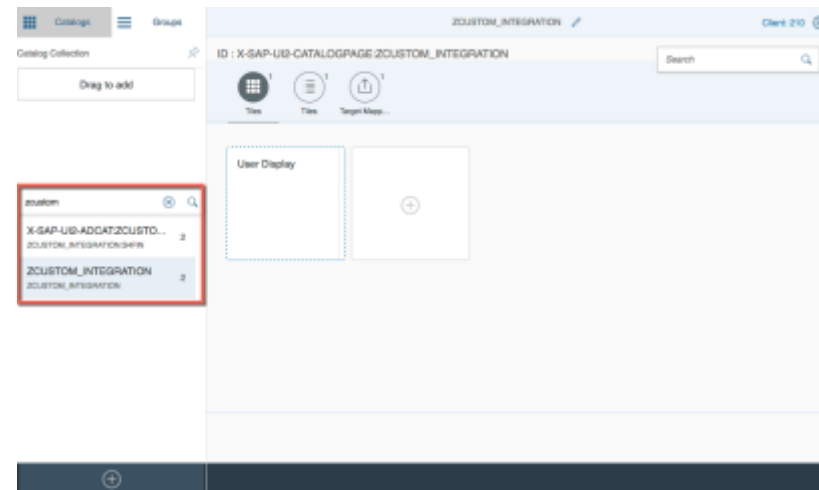
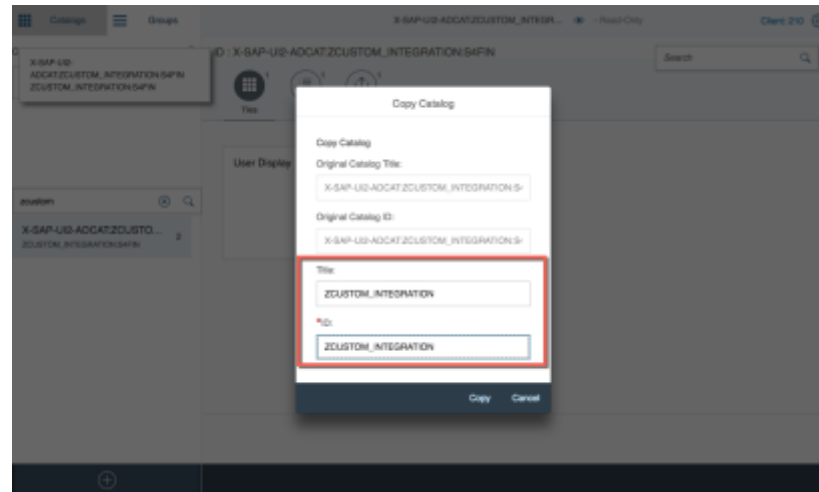
Permitir parámetros adicionales

Crear Cancelar

****NOTE – Notice that the technical catalog object type is “X-SAP-UI2-ADCAT”, to be able to assign this object to a PFCG role you will need to create a “Reference Catalog”**

4 Create Custom PFCG Role in S/4HANA Frontend

Step/Description	Screenshot
<p>1. Open Fiori Launchpad Designer and create a Reference Catalog.</p> <p><i>This step is a prerequisite to create a PFCG Role using App Descriptors</i></p>	 <p>The screenshot displays the Fiori Launchpad Designer interface. The top navigation bar includes 'Catalogs' and 'Groups' menus. The main workspace shows a search bar with 'zcustom' entered and a 'User Display' area. A blue button labeled 'New Catalog with References' is highlighted with a red rectangular box. The interface also shows a search bar for 'X-SAP-UI2-ADCAT.ZCUSTOM_INTEGRATION:S4FIN' and a 'Client: 210' indicator.</p> <p>**NOTE – You can find instructions on how to copy Fiori catalog in the next link</p>

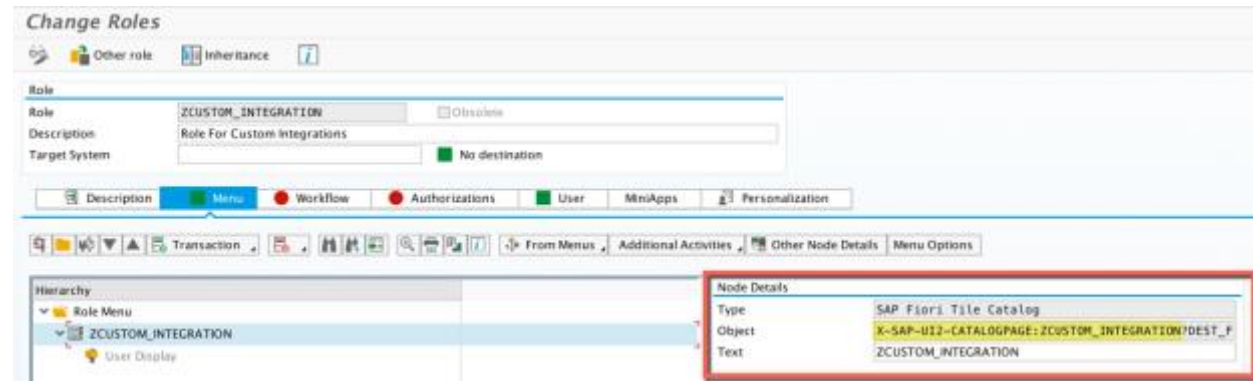


****NOTE – In this scenario we defined the same Catalog ID for the Technical and Reference Catalogs to easily identify each of them, remember that the Technical Catalog will have the prefix “X-SAP-UI2-ADCAT”**

2. In transaction PFCG create a new Role containing the Catalog ID

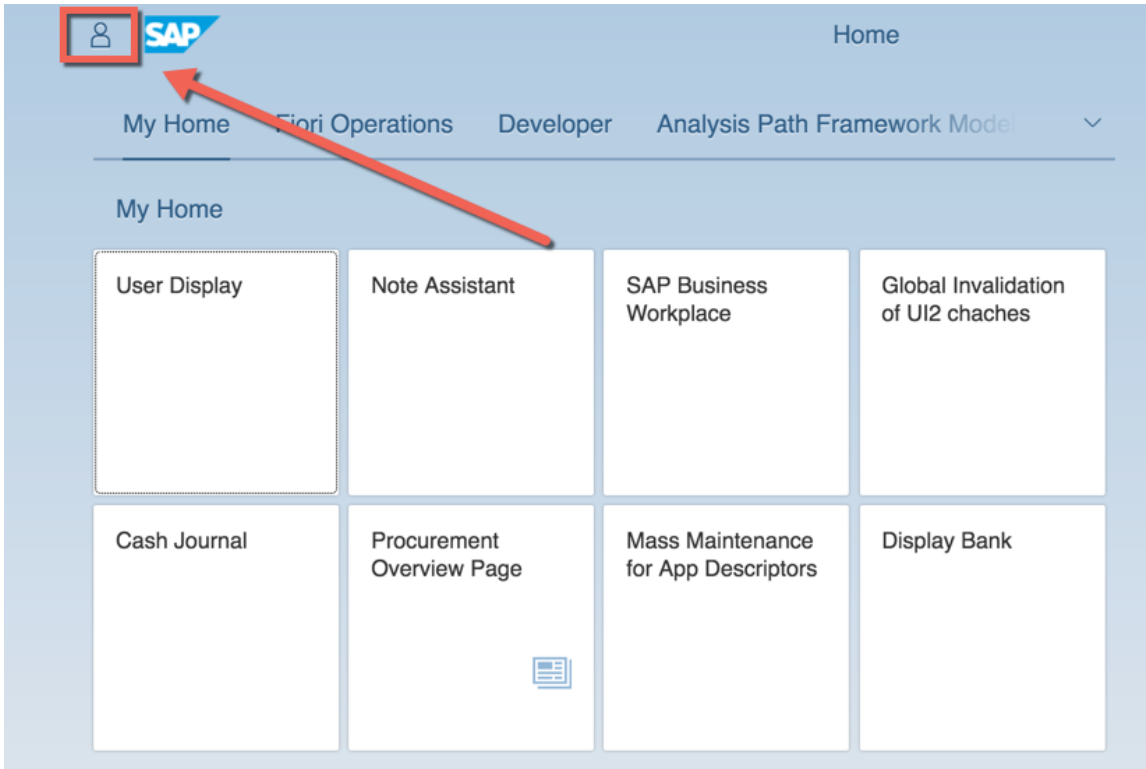
- **PFCG Menu Object: SAP Fiori Tile Catalog**
- **Catalog ID: ZCUSTOM_INTEGRATION**

Once the Role has been created assign it to your user(s).

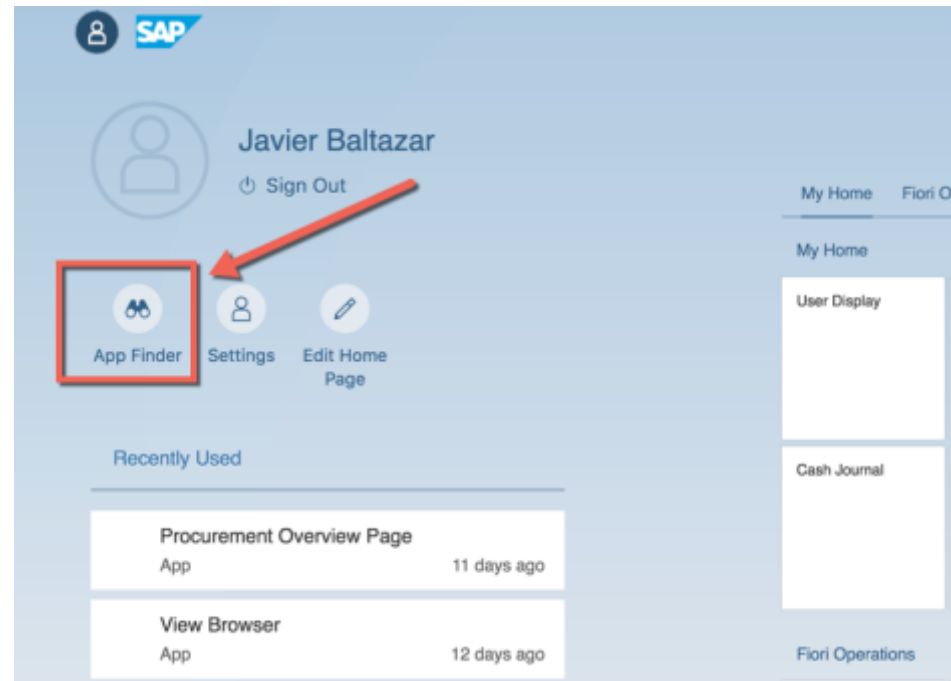


****Note – In this scenario the Catalog ID and Role Name are the same: “ZCUSTOM_INTEGRATION”**

5 Adding new Tiles to Fiori Launchpad

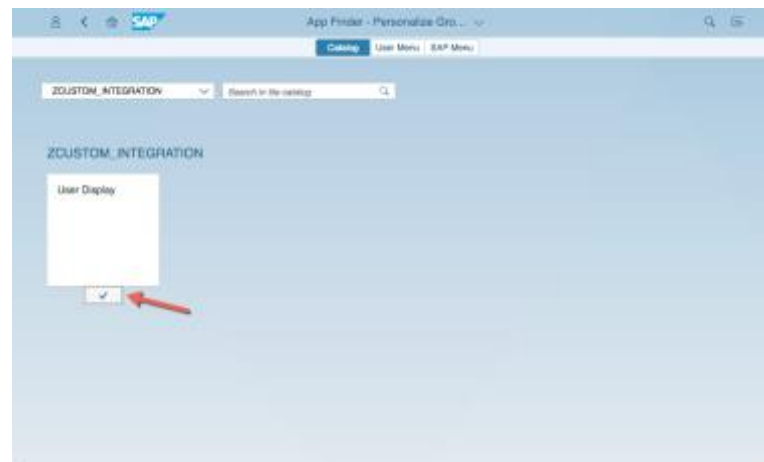
Step/Description	Screenshot
<p>1. Once the PFCG Role has been assigned you can access the user personalization settings from your Fiori Launchpad by clicking on the User Icon located on the upper left corner</p>	

2. In the User Personalization options, you will find the App Finder icon.

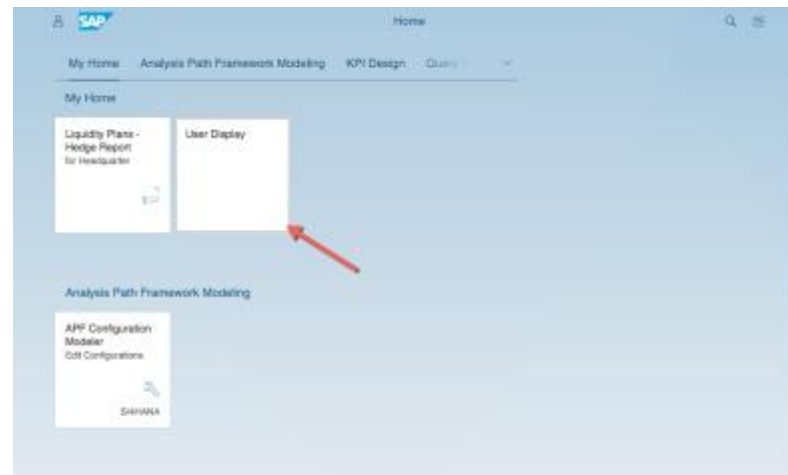


3. Once you open App Finder search for the catalog name you defined earlier

Add the new tile by selecting the “+” symbol and selecting the group where you wish to add the tile.

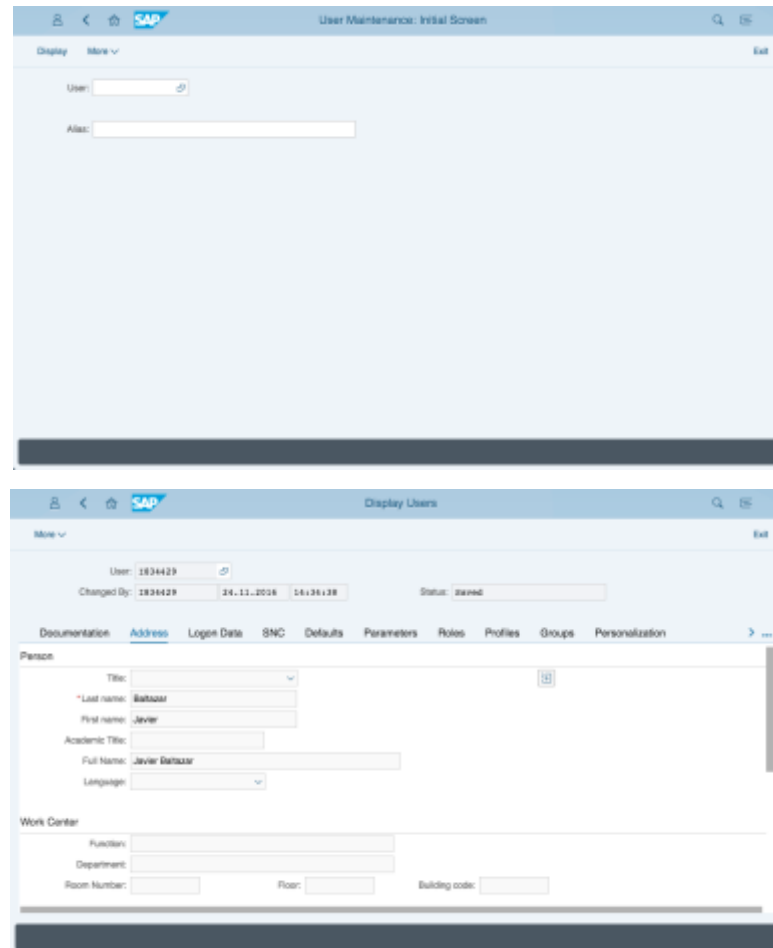


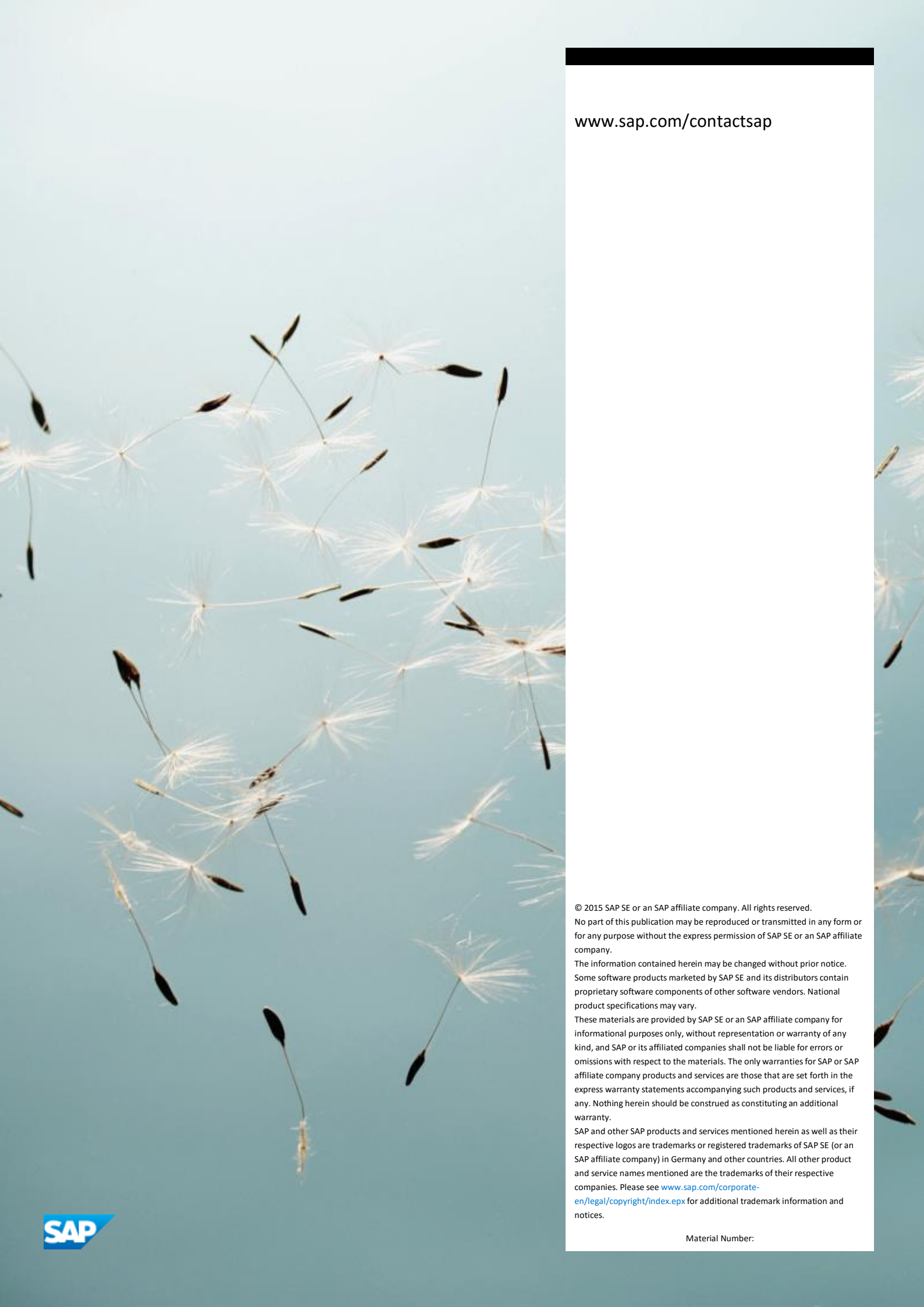
4. Once the tile has been added go back to the Fiori Launchpad main screen and navigate to the group where you added the tile.



5. Click on the tile. The transaction will be displayed using Belize Theme

ENJOY!





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