

# **ADAPT AND EXTEND MY INBOX FOR YOUR OWN WORKFLOWS**

## **INT260**

### **Exercises / Solutions**

**Las Vegas, Sept 19 – 23:**

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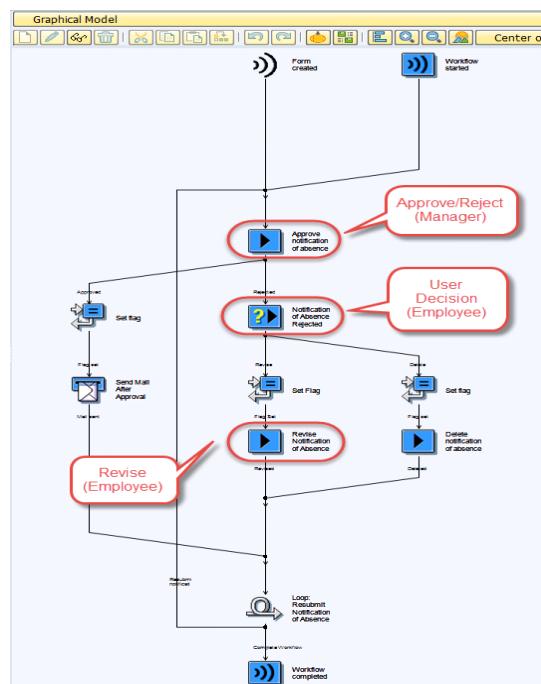
## INT260 Adapt and Extend My Inbox for Your Own Workflows.

In this hands-on exercise, you are going to learn how to configure and extend the My Inbox app for your custom workflows. Configuring custom attributes and decision options will be covered. You will also implement a navigation link from the My Inbox app to another app.

Section	Title	Estimate time 1H40min
1	Admin role – Check system setup	10 min
2	User role – Run My Inbox	10 min
3	Consultant role – Configure My Inbox scenario	35 min
4	Developer role – Develop a custom Fiori app	10 min
5	Consultant role – Configure visualization	25 min
6	User role – Test the workflow	5 min
7	Consultant role - Other extensibility options	5 min

Note:

- Deployment option is embedded. (Frontend server and Backend server are in 1 system)  
Each section has [Frontend server] or [Backend server] tag for configuration location.
- Opening a transaction:  
There are transaction codes in the favorites menu.  
You can go back to the easy access menu by “/n” or directly jump to the transaction like “/nSU01”.
- If there is the Copy&Paste icon, you can copy the input text from the INT260\_HandsOn\_CutPaste.txt file. The file is available in the INT260 session folder.
- Sample Workflow: WS30000015 Notification of Absence is a sample workflow in SAP BASIS.



## 1 ADMIN ROLE - CHECK SYSTEM SETUP

### 1.1 SAP Fiori apps reference library

In this section, you are going to learn how to find the required components, roles, and OData service name for My Inbox.

#### Assignment:

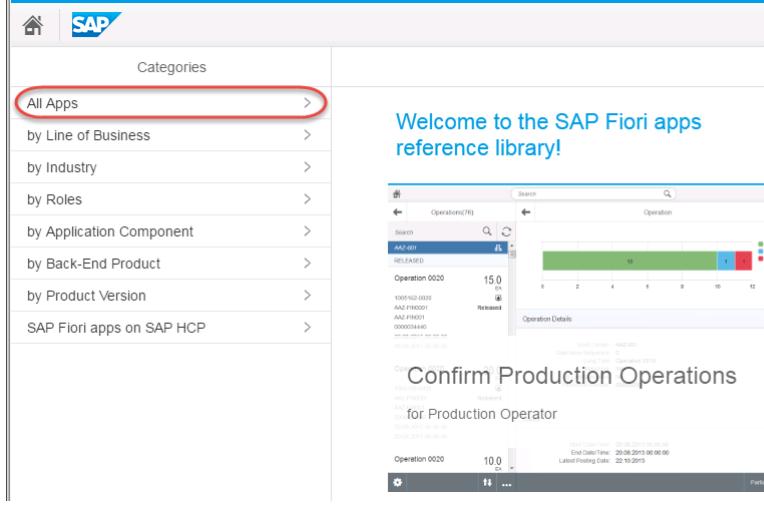
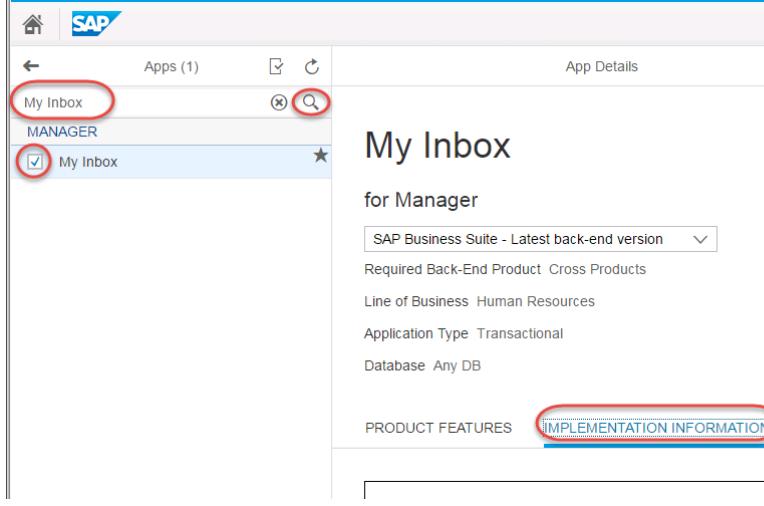
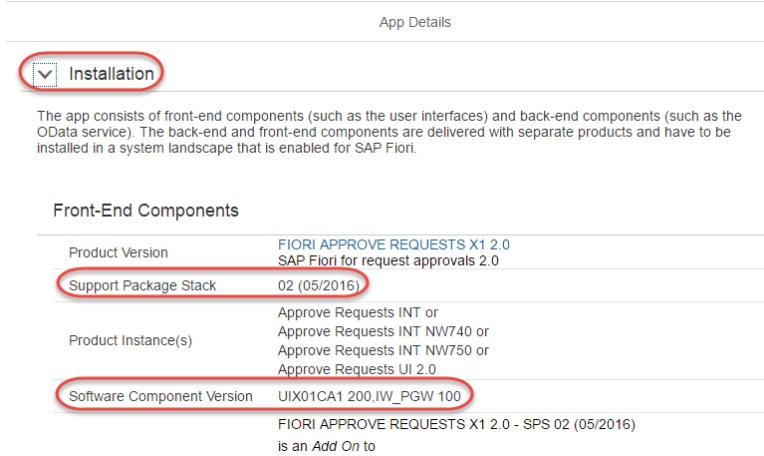
- Find the following information in the SAP Fiori Apps reference Library. Write it down in the separate capture sheet document.

<https://fioriappslibrary.hana.ondemand.com/sap/fi/externalViewer/>

Item	Answer	Hints
<b>Application name</b>		My Inbox
<b>Software Component Version in Front-end</b>		Impl -> Installation
<b>Support Package Stack</b>		Impl -> Installation
<b>OData Service</b>		Impl -> Configuration
<b>PFCG Role for Business Catalog</b>		Impl -> Configuration
<b>Semantic Object</b>		Impl -> Configuration
<b>Action</b>		Impl -> Configuration

- Note: Semantic Object-Action is called an “Intent”. Fiori Apps are called by #intent.  
Example: <http://XXXXXXXXXX#WorkflowTask-displayInbox>

Explanation	Screenshot
<p>1. Open the Google Chrome browser.</p> <p>Search ‘fiori apps reference library’.</p> <p><a href="#">Copy</a> <a href="#">Paste</a></p> <p>Choose the first link.</p>	

Explanation	Screenshot								
2. Choose the <i>All Apps</i> category.	 <p>Welcome to the SAP Fiori apps reference library!</p> <p>Operation Details</p> <p>Confirm Production Operations</p> <p>for Production Operator</p> <p>Operation 0020 10.0</p>								
<p>3. Type “My Inbox” in the filter field.</p> <p>Select the check box for My Inbox.</p> <p>Go to the <i>IMPLEMENTATION INFORMATION</i> tab.</p>	 <p>My Inbox</p> <p>for Manager</p> <p>SAP Business Suite - Latest back-end version</p> <p>Required Back-End Product Cross Products</p> <p>Line of Business Human Resources</p> <p>Application Type Transactional</p> <p>Database Any DB</p> <p>PRODUCT FEATURES <a href="#">IMPLEMENTATION INFORMATION</a></p>								
4. Expand the <i>Installation</i> section.	 <p>The app consists of front-end components (such as the user interfaces) and back-end components (such as the OData service). The back-end and front-end components are delivered with separate products and have to be installed in a system landscape that is enabled for SAP Fiori.</p> <p>Front-End Components</p> <table border="1"> <tbody> <tr> <td>Product Version</td> <td>FIORI APPROVE REQUESTS X1 2.0 SAP Fiori for request approvals 2.0</td> </tr> <tr> <td>Support Package Stack</td> <td>02 (05/2016)</td> </tr> <tr> <td>Product Instance(s)</td> <td>Approve Requests INT or Approve Requests INT NW740 or Approve Requests INT NW750 or Approve Requests UI 2.0</td> </tr> <tr> <td>Software Component Version</td> <td>UIX01CA1 200.IW_PGW 100</td> </tr> </tbody> </table> <p>FIORI APPROVE REQUESTS X1 2.0 - SPS 02 (05/2016) is an Add On to</p>	Product Version	FIORI APPROVE REQUESTS X1 2.0 SAP Fiori for request approvals 2.0	Support Package Stack	02 (05/2016)	Product Instance(s)	Approve Requests INT or Approve Requests INT NW740 or Approve Requests INT NW750 or Approve Requests UI 2.0	Software Component Version	UIX01CA1 200.IW_PGW 100
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Explanation	Screenshot																							
5. Expand the <i>Configuration</i> section.	<p>App Details</p> <table border="1"> <tr> <td>TECHNICAL_PFCG_ROLE</td> <td>SAP_FND_TCR_T</td> </tr> <tr> <td>Semantic Object</td> <td>WorkflowTask</td> </tr> <tr> <td>Action</td> <td>displayInbox</td> </tr> <tr> <td>SAPUI5 Application</td> <td>CA_FIORI_INBOX</td> </tr> </table> <table border="1"> <tr> <td>Business Catalog (Launchpad)</td> <td>SAP_FND_BC_MANAGER_T</td> <td>Manager Approval (Cross) - Content</td> </tr> <tr> <td>Business Group (Launchpad)</td> <td></td> <td></td> </tr> <tr> <td>PFCG role for Business Catalog</td> <td>SAP_FND_BCR_MANAGER_T</td> <td></td> </tr> </table> <p>OData Services</p> <p>The following OData services must be activated on the front-end server. Users require PFCG authorization for the front-end and back-end systems.</p> <table border="1"> <thead> <tr> <th>oData Service</th> <th>Version</th> <th>Back-End Authorization Role (PFCG)</th> </tr> </thead> <tbody> <tr> <td>/IWPGW/TASKPROCESSING</td> <td>002</td> <td>/IWPGW/RT_WF_USR</td> </tr> </tbody> </table>	TECHNICAL_PFCG_ROLE	SAP_FND_TCR_T	Semantic Object	WorkflowTask	Action	displayInbox	SAPUI5 Application	CA_FIORI_INBOX	Business Catalog (Launchpad)	SAP_FND_BC_MANAGER_T	Manager Approval (Cross) - Content	Business Group (Launchpad)			PFCG role for Business Catalog	SAP_FND_BCR_MANAGER_T		oData Service	Version	Back-End Authorization Role (PFCG)	/IWPGW/TASKPROCESSING	002	/IWPGW/RT_WF_USR
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/IWPGW/TASKPROCESSING	002	/IWPGW/RT_WF_USR																						

**Recap:**

- You have learned how to find required information in the SAP Fiori apps reference library:

Item	Answer	Hints
<b>Application name</b>	My Inbox	My Inbox
<b>Software Component Version in Front-end</b>	UIX01CA1 200,IW_PGW 100	Impl -> Installation
<b>Support Package Stack</b>	02 (05/2016)	Impl -> Installation
<b>OData Service</b>	/IWPGW/TASKPROCESSING V2	Impl -> Configuration
<b>PFCG Role for Business Catalog</b>	SAP_FND_BCR_MANAGER_T	Impl -> Configuration
<b>Semantic Object</b>	WorkflowTask	Impl -> Configuration
<b>Action</b>	displayInbox	Impl -> Configuration

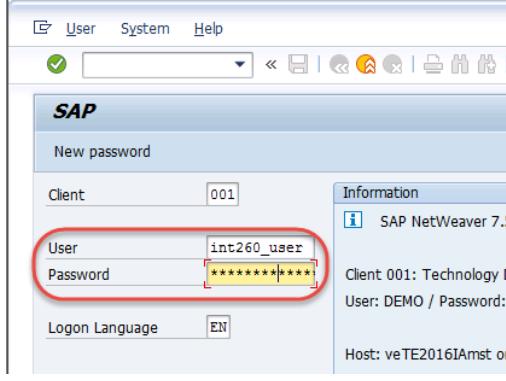
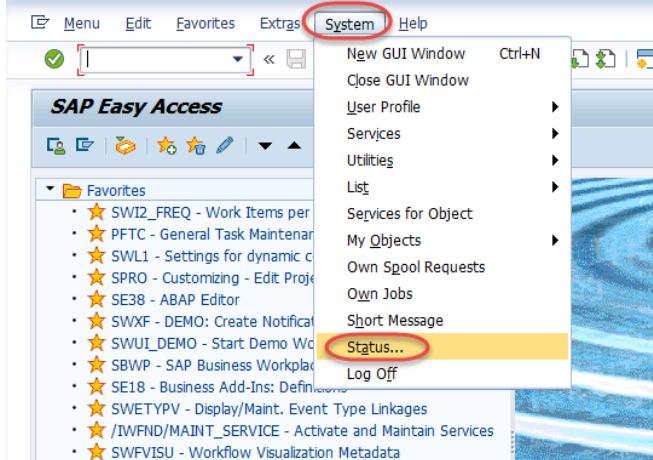
**1.2 Check the installed components [Frontend server]**

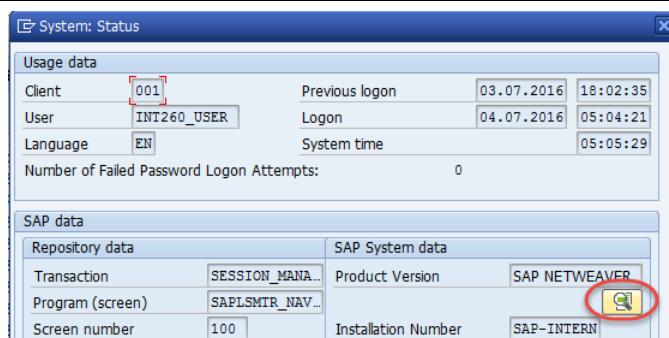
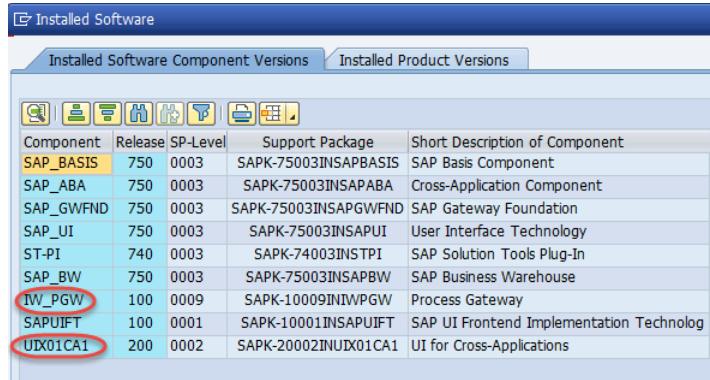
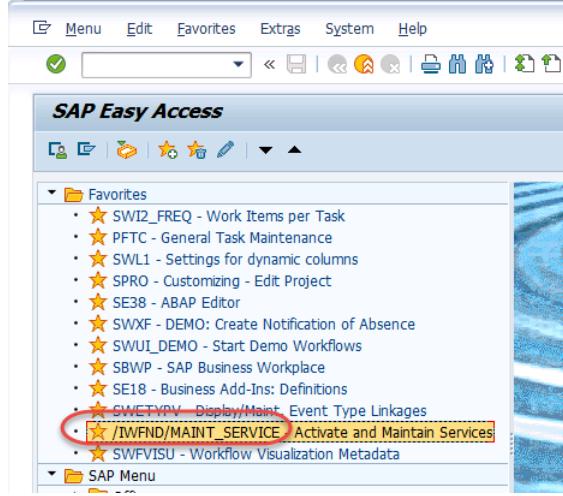
You will take on a system admin role in this section. Let's check to see if the required components are installed in the TechEd hands-on system. In the previous section, you have obtained the required information in your capture sheet.

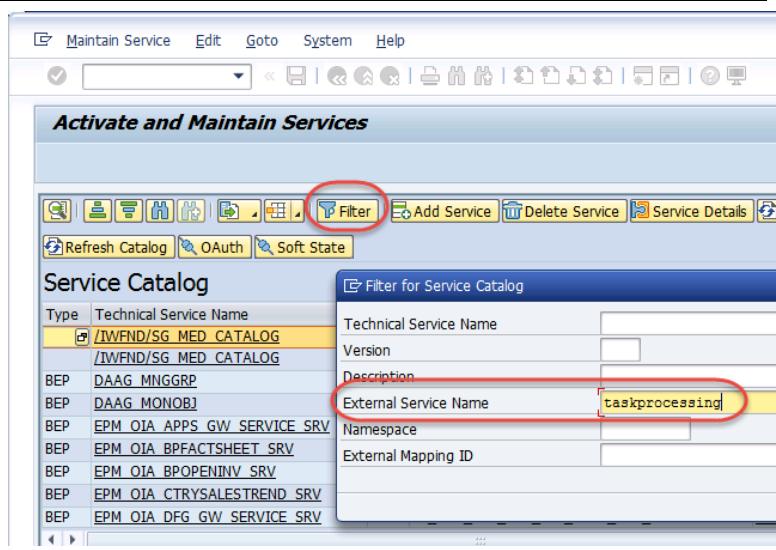
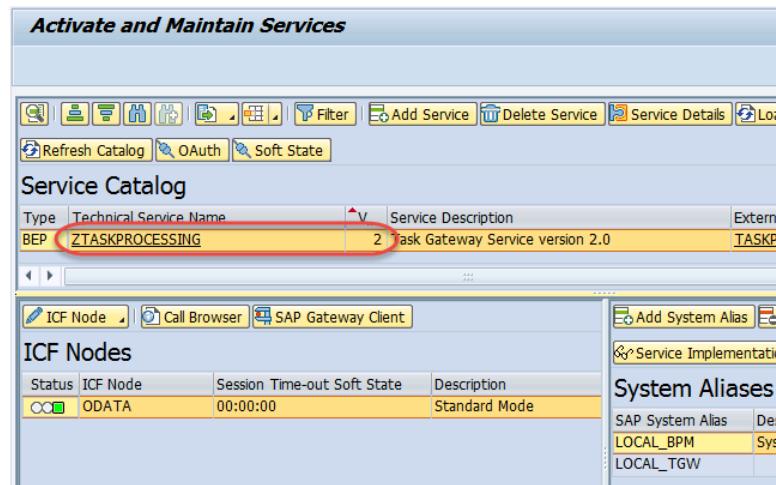
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<b>Software Component Version in Front-end</b>	UIX01CA1 200,IW_PGW 100	Impl -> Installation
<b>Support Package Stack</b>	02 (05/2016)	Impl -> Installation
<b>OData Service</b>	/IWPGW/TASKPROCESSING V2	Impl -> Configuration

**Assignment:**

- Confirm the required components have been installed and the OData service has been registered.

Explanation	Screenshot
<p>1. Start SAP Logon.</p> <p>Choose the icon from the desktop.</p>	 <p>SAP Logon</p>
<p>2. Choose the system <i>TDI</i> or <i>_LOCAL_</i> system.</p>	 <p>SAP Logon 740</p> <p>Log On Variable Logon... <input type="button" value="New"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/> <input type="button" value="List"/> <input type="button" value="Print"/></p> <ul style="list-style-type: none"> <li>Favorites <input type="button" value="Name"/> <input type="button" value="System Description"/></li> <li>Shows <input checked="" type="button" value="TDI [localhost]"/> <input type="button" value="Training target"/></li> <li>Config File ODS [ServiceMarketplace] CSC Customer Set</li> </ul>
<p>3. Logon to the system.</p> <p>Client: 001 User: int260_user Password: welcome1 (lower case)</p> <p><input type="button" value="Copy"/> <input type="button" value="Paste"/></p>	 <p>SAP</p> <p>New password</p> <p>Client <input type="text" value="001"/></p> <p>User <input type="text" value="int260_user"/></p> <p>Password <input type="password" value="*****"/></p> <p>Logon Language <input type="text" value="EN"/></p> <p>Information</p> <p>SAP NetWeaver 7.0</p> <p>Client 001: Technology ID: User: DEMO / Password: Host: veTE2016IAmst o</p>
<p>4. Go to System → Status.</p>	 <p>SAP Easy Access</p> <p>System <input checked="" type="button"/> Help</p> <ul style="list-style-type: none"> <li>New GUI Window Ctrl+N</li> <li>Close GUI Window</li> <li>User Profile</li> <li>Services</li> <li>Utilities</li> <li>List</li> <li>Services for Object</li> <li>My Objects</li> <li>Own Spool Requests</li> <li>Own Jobs</li> <li>Short Message</li> <li>Status... <input type="button"/></li> <li>Log Off</li> </ul>

Explanation	Screenshot
5. Choose the component icon.	
6. Confirm the component name and the support package level.	
7. Close all popup windows and go back to the initial screen.  Go to the transaction /n/IWFND/MAINT_SERVICE.	

Explanation	Screenshot
<p>8. There are many OData services listed. Choose the <i>Filter</i> button and enter <i>taskprocessing</i> in the <i>External Service Name</i>.</p> <div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> <a href="#">Copy</a>  <a href="#">Paste</a> </div>	
<p>9. Confirm the TASKPROCESSING Version 2 service is registered in the OData service catalog of Gateway.</p> <p>Note: System aliases are assigned. + LOCAL_BPM + LOCAL_TGW</p>	

### Recap:

- The TechEd hands-on system has been setup by the trainers.

When you implement My Inbox in your customer projects, the TASKPROCESSING service is not registered. To register the service you need to take 3 actions:

- Confirm the IW\_PGW component has been installed.
- Define system alias [SAP Fiori LL18 - System Aliases definition for Fiori](#).
- Register the OData service in the /IWFND/MAINTSERVICE transaction.

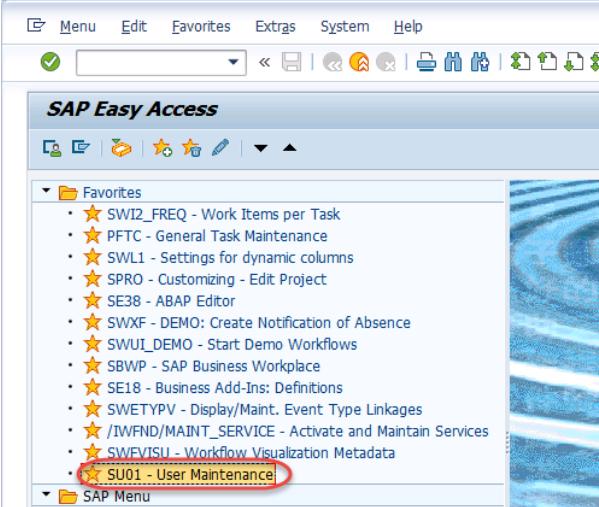
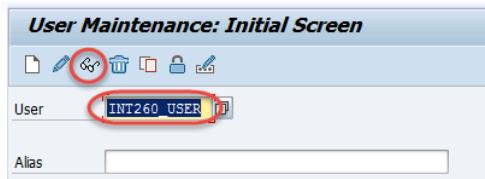
### 1.3 Check user settings [Frontend server]

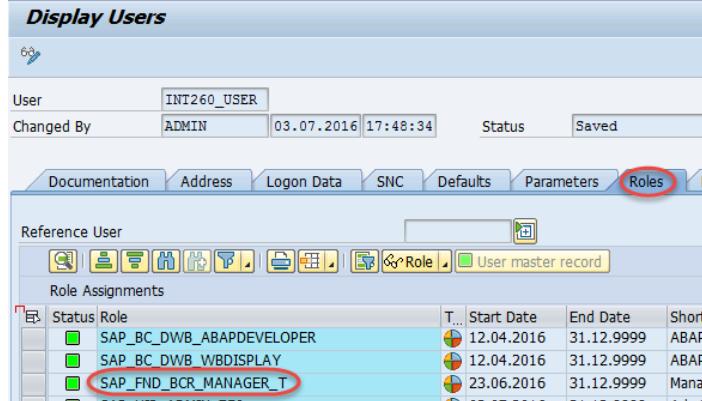
Required roles have been assigned to your user INT260\_USER. Let's check to see if the catalog role for My Inbox is assigned to your user.

#### Assignment:

- Check the INT260\_USER has the catalog role for My Inbox. You have captured the catalog role name in the section 1.1.

Item	Answer	Hints
PFCG Role for Business Catalog	SAP_FND_BCR_MANAGER_T	Impl -> Configuration

Explanation	Screenshot
1. Go to the transaction /nSU01.	
2. Enter your user ID INT260_USER and display.	

Explanation	Screenshot																										
<p>3. Go to the <i>Roles</i> tab.</p> <p>You see SAP_FND_BCR_MANAGER_T has been assigned to your user ID.</p>	 <p>The screenshot shows the SAP Fiori Launchpad interface for displaying users. The user 'INT260_USER' is selected. The 'Roles' tab is highlighted with a red circle. In the 'Role Assignments' section, the role 'SAP_FND_BCR_MANAGER_T' is listed and circled in red.</p> <table border="1"> <thead> <tr> <th>Status</th> <th>Role</th> <th>T...</th> <th>Start Date</th> <th>End Date</th> <th>Short</th> </tr> </thead> <tbody> <tr> <td>■</td> <td>SAP_BC_DWB_ABAPDEVELOPER</td> <td>12.04.2016</td> <td>31.12.9999</td> <td>ABAP</td> </tr> <tr> <td>■</td> <td>SAP_BC_DWB_WBDISPLAY</td> <td>12.04.2016</td> <td>31.12.9999</td> <td>ABAP</td> </tr> <tr> <td>■</td> <td><b>SAP_FND_BCR_MANAGER_T</b></td> <td>23.06.2016</td> <td>31.12.9999</td> <td>Manager</td> </tr> <tr> <td>■</td> <td>SAP_UI2_ADMIN_750</td> <td>03.07.2016</td> <td>31.12.9999</td> <td>Admir</td> </tr> </tbody> </table>	Status	Role	T...	Start Date	End Date	Short	■	SAP_BC_DWB_ABAPDEVELOPER	12.04.2016	31.12.9999	ABAP	■	SAP_BC_DWB_WBDISPLAY	12.04.2016	31.12.9999	ABAP	■	<b>SAP_FND_BCR_MANAGER_T</b>	23.06.2016	31.12.9999	Manager	■	SAP_UI2_ADMIN_750	03.07.2016	31.12.9999	Admir
Status	Role	T...	Start Date	End Date	Short																						
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■	<b>SAP_FND_BCR_MANAGER_T</b>	23.06.2016	31.12.9999	Manager																							
■	SAP_UI2_ADMIN_750	03.07.2016	31.12.9999	Admir																							

**Recap:**

- To access Fiori app tiles in the SAP Fiori Launchpad, users need to have the required catalog role assigned to them.
- You can find the catalog role name in the SAP Fiori apps reference library.

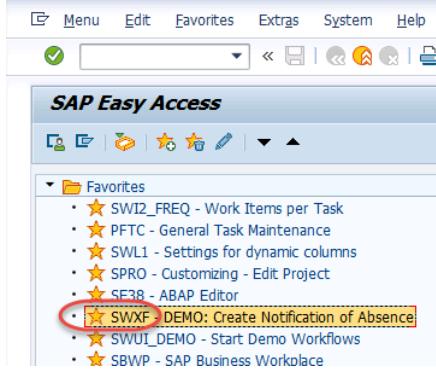
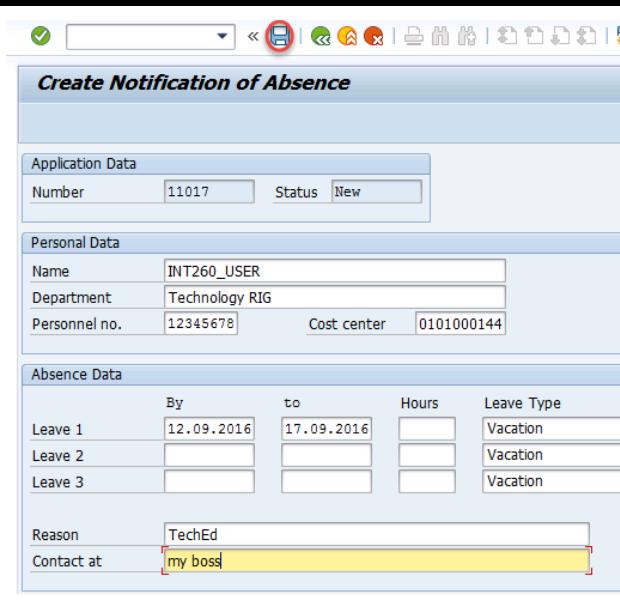
## 2 USER ROLE – RUN MY INBOX

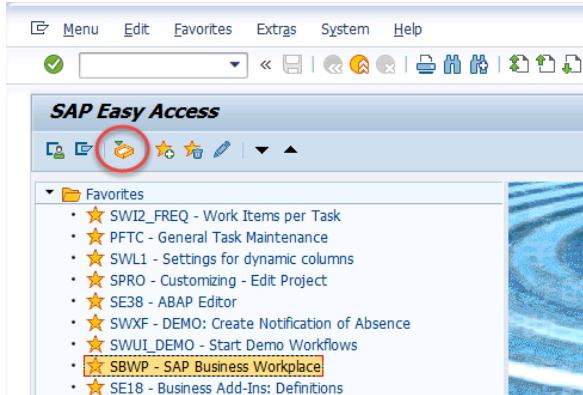
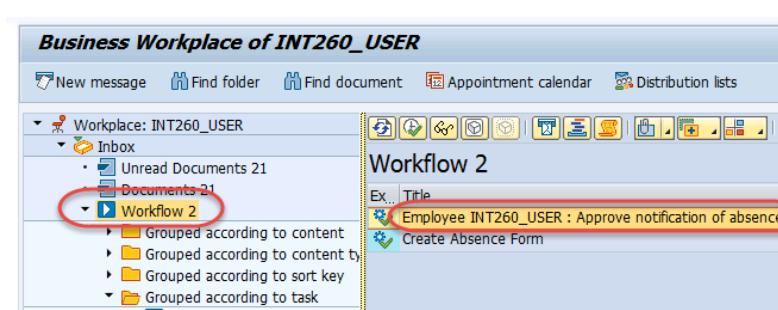
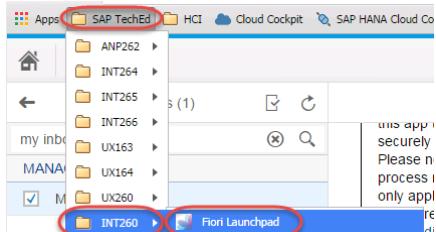
### 2.1 Approve a Notification of Absence [Backend server]

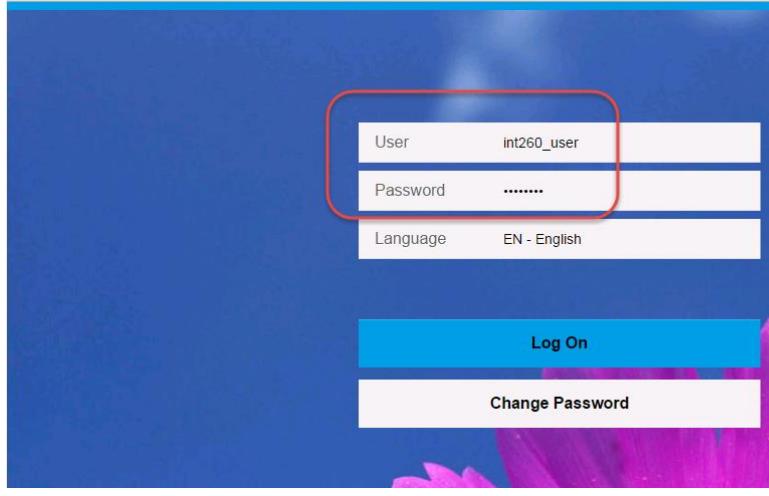
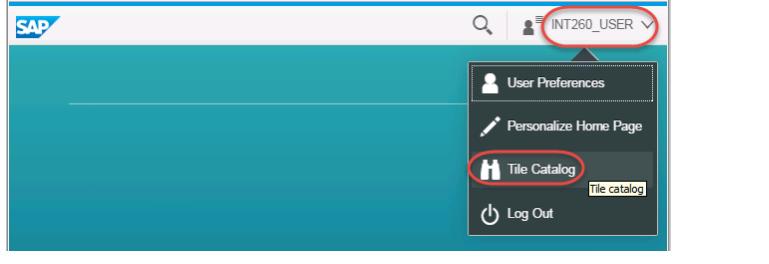
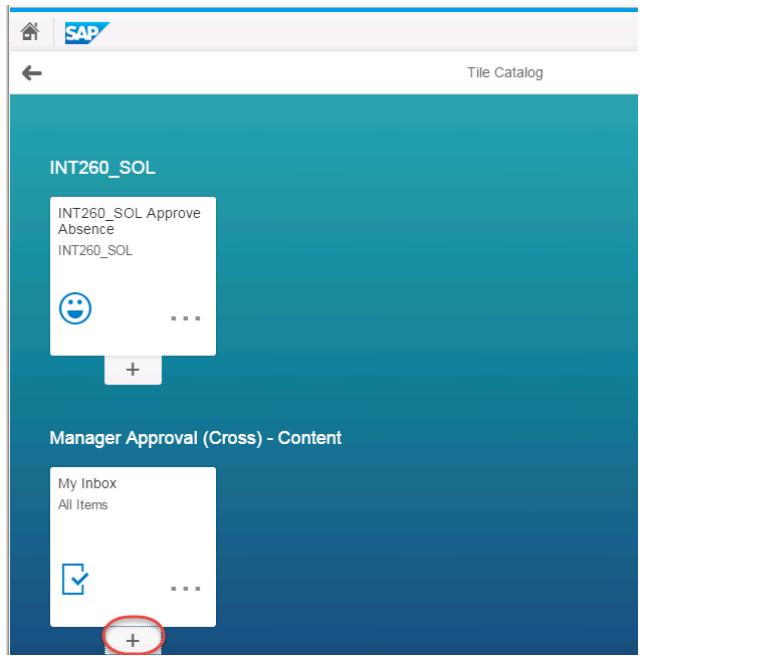
You will take on a user role in this section. Let's run the My Inbox app and approve a Notification of Absence out of the box.

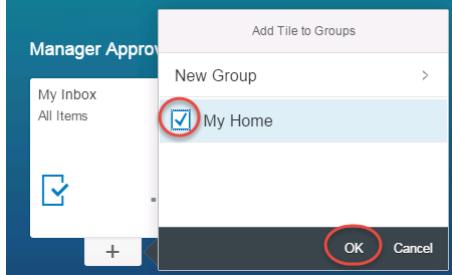
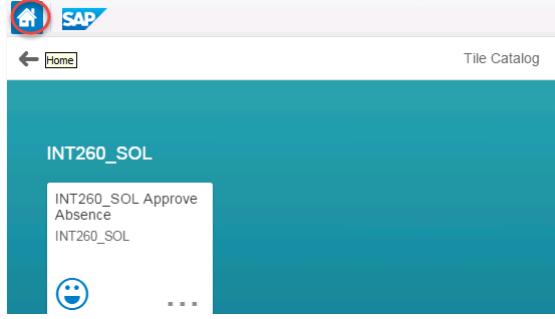
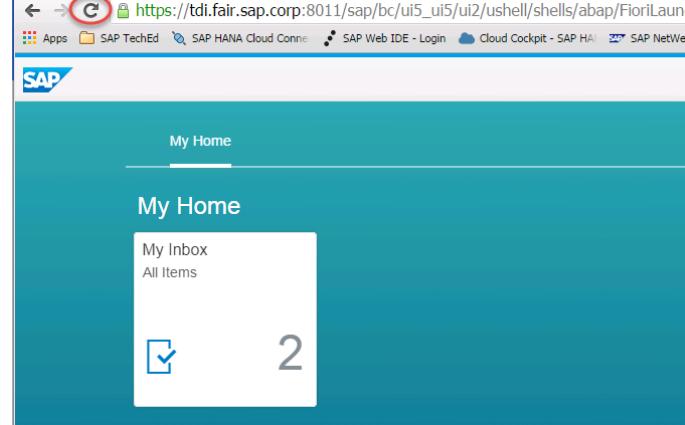
#### Assignment:

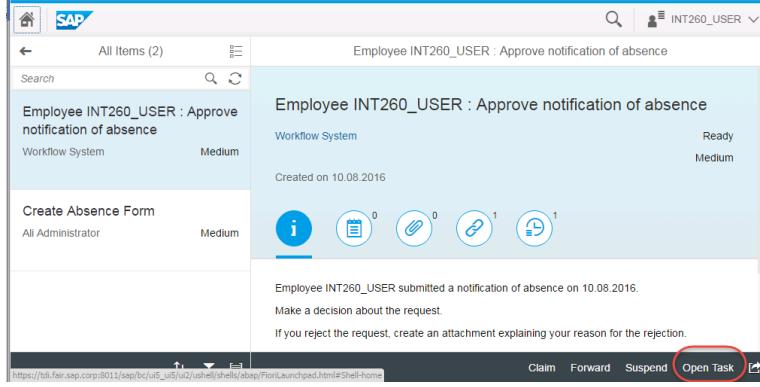
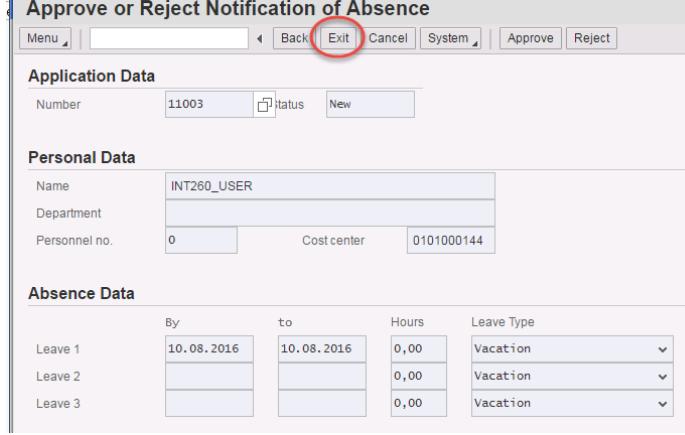
- Approve a Notification of Absence in My Inbox app out of the box. Try to think about a better visualization to display a Notification of absence and a simple and easy way for making a decision.

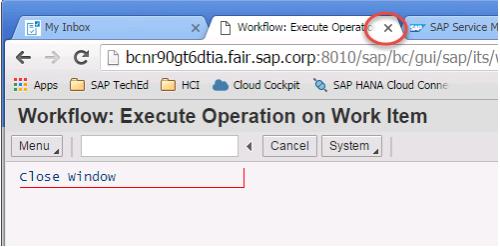
Explanation	Screenshot
<p>1. Go to the transaction <code>/nSWXF</code> which creates a Notification of Absence.</p> <p>Note: It is a demo transaction in SAP_BASIS.</p>	 <p>The screenshot shows the SAP Easy Access interface. In the Favorites menu, the transaction <code>/nSWXF DEMO: Create Notification of Absence</code> is highlighted with a red oval.</p>
<p>2. Save the Notification of Absence.</p> <p>Enter any text in the Department and Personnel no. fields.</p> <p>A workflow will be started and you will get a workitem in your inbox.</p>	 <p>The screenshot shows the <code>Create Notification of Absence</code> dialog box. The application data section includes a number (11017) and a status (New). The personal data section includes a name (INT260_USER), department (Technology RIG), and personnel number (12345678). The cost center field is 0101000144. The absence data section shows three leave entries: Leave 1 (12.09.2016 to 17.09.2016, Hours: 0, Leave Type: Vacation), Leave 2 (empty), and Leave 3 (empty). The reason is listed as TechEd, and the contact at field contains the value "my boss".</p>

Explanation	Screenshot
<p>3. Check workitems in your Inbox via SAPGUI.</p> <p>Select the <i>Inbox</i> icon or go to the transaction <i>/nSBWP</i>.</p>	 <p>The screenshot shows the SAP Easy Access interface. In the top navigation bar, there are icons for Menu, Edit, Favorites, Extras, System, and Help. Below the menu bar is a toolbar with various icons. Under the toolbar, there is a section titled "SAP Easy Access" with a "Favorites" folder expanded. A red circle highlights the "Inbox" icon, which is the fourth icon from the left in the toolbar. The "Favorites" list contains several items, including "SWI2_FREQ - Work Items per Task", "PFTC - General Task Maintenance", "SWL1 - Settings for dynamic columns", "SPRO - Customizing - Edit Project", "SE38 - ABAP Editor", "SWXF - DEMO: Create Notification of Absence", "SWUI_DEMO - Start Demo Workflows", "SBWP - SAP Business Workplace" (which is also highlighted with a red box), and "SE18 - Business Add-Ins: Definitions".</p>
<p>4. Expand the inbox and open the Workflow folder.</p> <p>The same workitems should be in the My Inbox app.</p> <p>Note: Number of workitems can be different with the screenshot.</p>	 <p>The screenshot shows the "Business Workplace of INT260_USER" interface. At the top, there are navigation links for New message, Find folder, Find document, Appointment calendar, and Distribution lists. Below the navigation is a toolbar with various icons. On the left, there is a sidebar with a tree view showing "Workplace: INT260_USER" expanded, with "Inbox" selected. Inside "Inbox", there are three main categories: "Unread Documents 21", "Documents 21", and "Workflow 2". "Workflow 2" is highlighted with a red circle. To the right of the sidebar, there is a list of workitems under "Workflow 2", with "Employee INT260_USER : Approve notification of absence" highlighted with a red box. Below the sidebar, there is a search bar and a message about using apps securely.</p>
<p>5. Open the Chrome browser.</p> <p>Open SAP Fiori Launchpad.</p> <p>Select <i>SAP TechEd -&gt; Session -&gt; INT260 -&gt; Fiori Launchpad</i> in the bookmark bar.</p>	 <p>The screenshot shows a screenshot of a Chrome browser window. The address bar shows the URL "http://fiori.launchpad.int260.com". The bookmarks bar at the top has several entries, including "SAP TechEd", "INT264", "INT265", "INT266", "UX163", "UX164", "UX260", "INT260" (which is highlighted with a red circle), and "Fiori Launchpad" (which is also highlighted with a red circle). Below the bookmarks bar, there is a search bar and a message about using apps securely.</p>

Explanation	Screenshot
<p>6. Logon with your user ID.</p> <p>User: int260_user Password: welcome1 (lower case)</p> <p><a href="#">Copy</a> <a href="#">Paste</a></p>	 <p>The screenshot shows the SAP Fiori Log On screen. A red box highlights the 'User' field containing 'int260_user'. Below it is the 'Password' field with '.....'. At the bottom are 'Log On' and 'Change Password' buttons.</p>
<p>7. Notice there are no tiles in the SAP Fiori Launchpad.</p> <p>Go to the <i>User Option</i> menu on the right top.</p> <p>Open the <i>Tile Catalog</i>.</p>	 <p>The screenshot shows the SAP Fiori Launchpad. The 'User Option' menu is open, with 'Tile Catalog' highlighted by a red circle. Other options include 'User Preferences', 'Personalize Home Page', and 'Log Out'.</p>
<p>8. Add the standard My Inbox tile to your My Home Group.</p> <p>Choose the + sign under the My Inbox tile.</p> <p>Note: INT260_SOL was created by the trainers. It has solution settings for later exercises.</p>	 <p>The screenshot shows the SAP Fiori Tile Catalog. The 'INT260_SOL' tile is selected. Below it, the 'Manager Approval (Cross) - Content' section shows the 'My Inbox' tile with a red circle around its '+' sign.</p>

Explanation	Screenshot
9. Select the <i>My Home</i> group.	
10. Go back to the SAP Fiori Launchpad home page.	
<p>11. You can now see the <i>My Inbox</i> tile in the <i>My Home</i> group.  <i>Reload</i> the browser.</p> <p>You will see some number on the tile. (It should be same number of workitems in your SAPGUI inbox.)</p> <p>Note: Number can be different from the screenshot.</p>	

Explanation	Screenshot
<p>12. You intend to approve it but notice there is no approve button out of the box.</p> <p>Choose the <i>Open Task</i> button.</p>	
<p>13. A new browser session is opened.</p> <p>Logon with your user.</p> <p>User: int260_user Password: welcome1 (lower case)</p>	
<p>14. You see the transaction is opened in the SAPGUI for HTML out of the box.</p> <p>Choose <i>Exit</i> at this stage.</p> <p>You are going to use this workitem in a later exercise.</p>	
<p>15. Yes for exit.</p>	

Explanation	Screenshot
16. Close the browser tab.	

**Recap:**

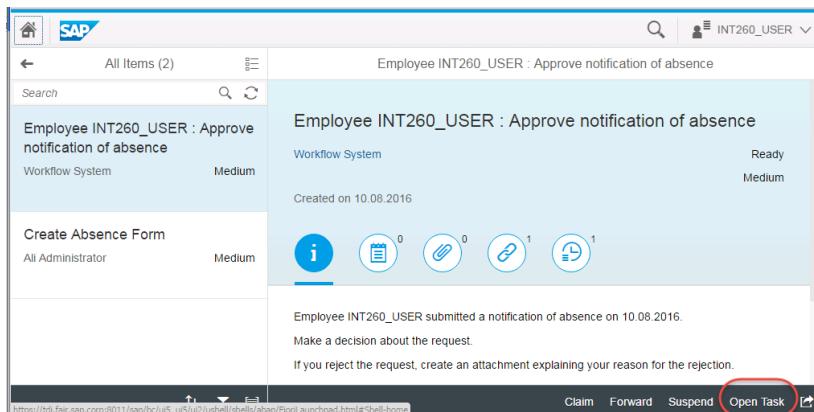
- You tested the My Inbox app with a custom workflow out of the box. My Inbox handles many different application data based on workflow scenarios. You have found out extensions are required to visualize business data and provide an easy way for making a decision without opening a separate window.

### 3 CONSULTANT ROLE – CONFIGURE MY INBOX SCENARIO

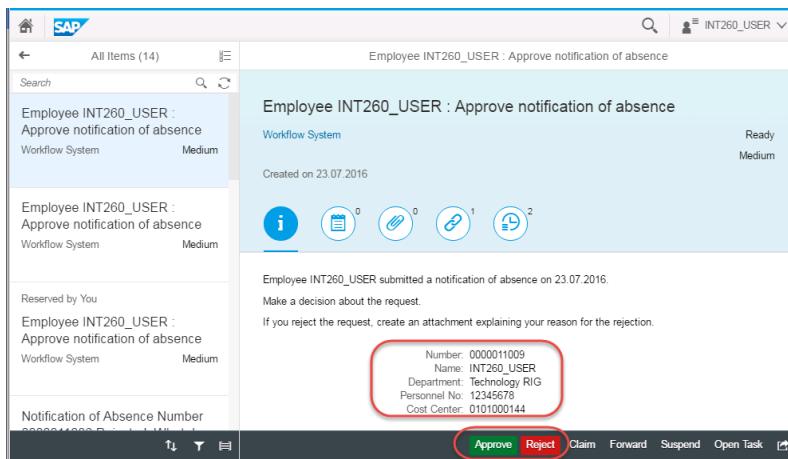
In the previous section, you discovered some extensions are required for the My Inbox app. You will take on a consultant role in this section and configure My Inbox.

- Show the Notification of Absence data in table format.
- Add Approve and Reject action buttons.

Before:



After:



#### 3.1 Capture workflow template information [Backend server]

Before configuring the My Inbox app, you need to capture the workflow information.

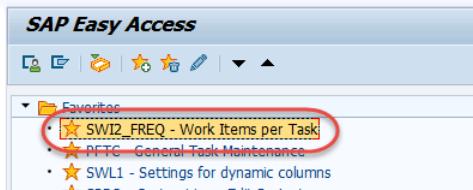
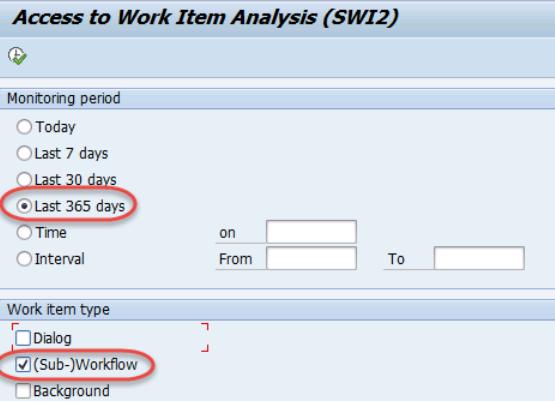
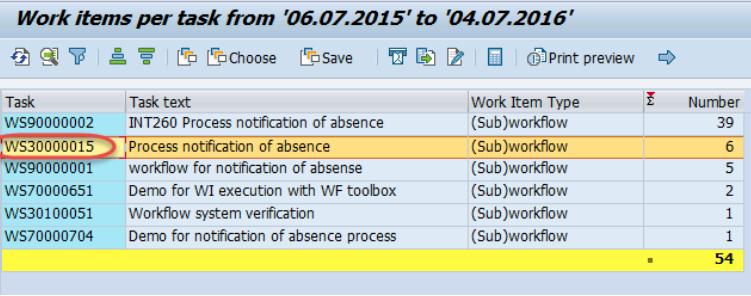
##### Assignment:

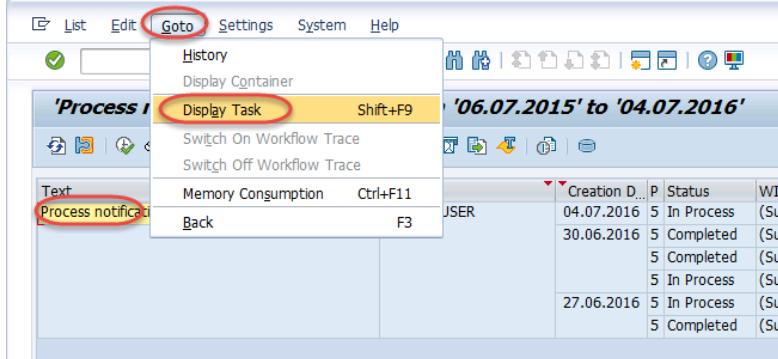
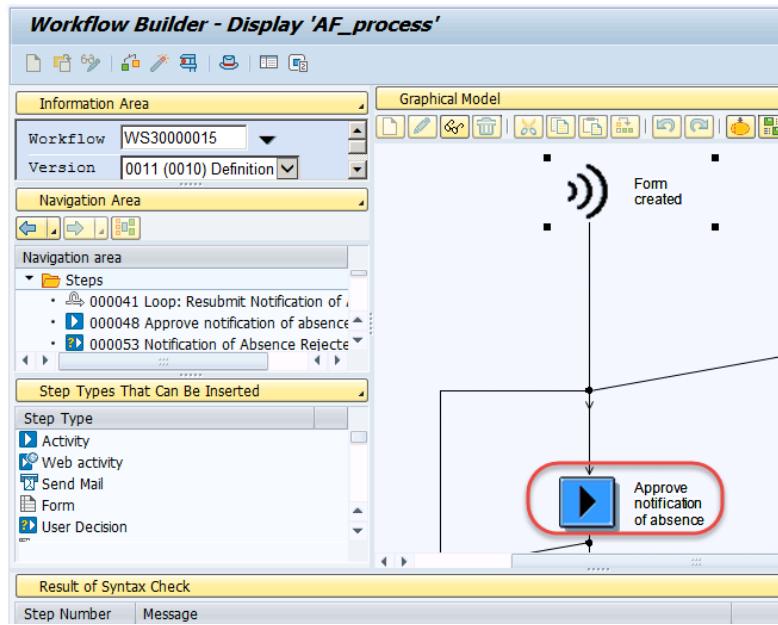
- Find the “Process notification of absence” workflow template and capture details of 3 dialog steps. Write down the information in the separate capture sheet document.

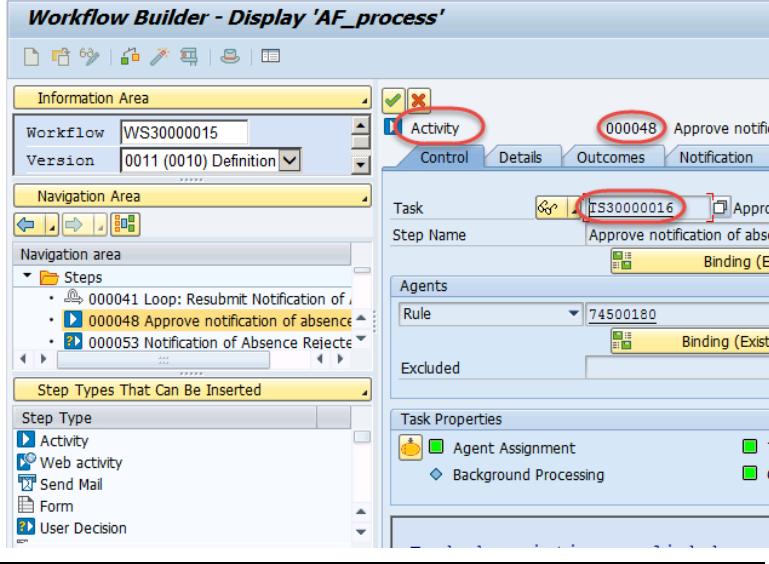
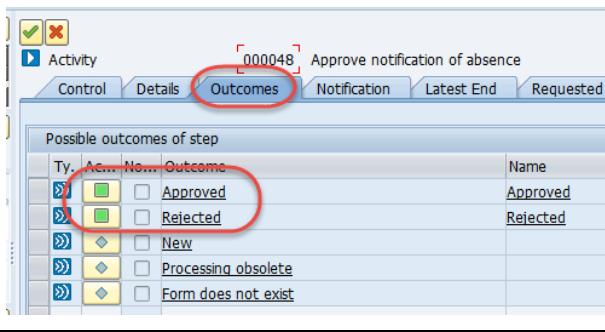
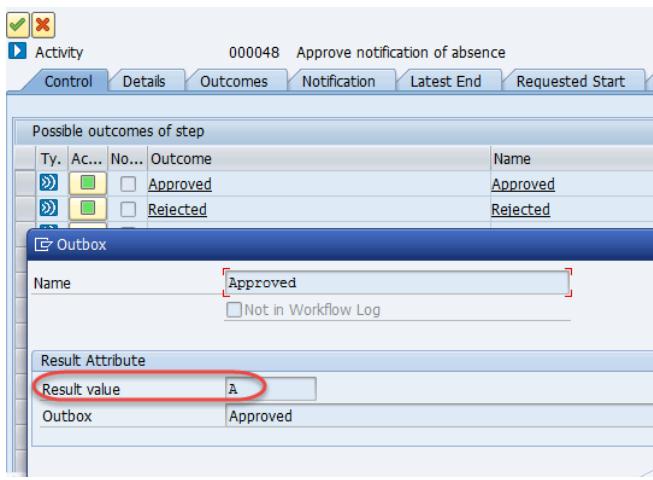
**Reference document and help:**

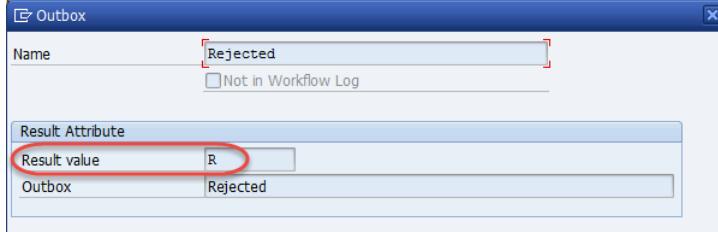
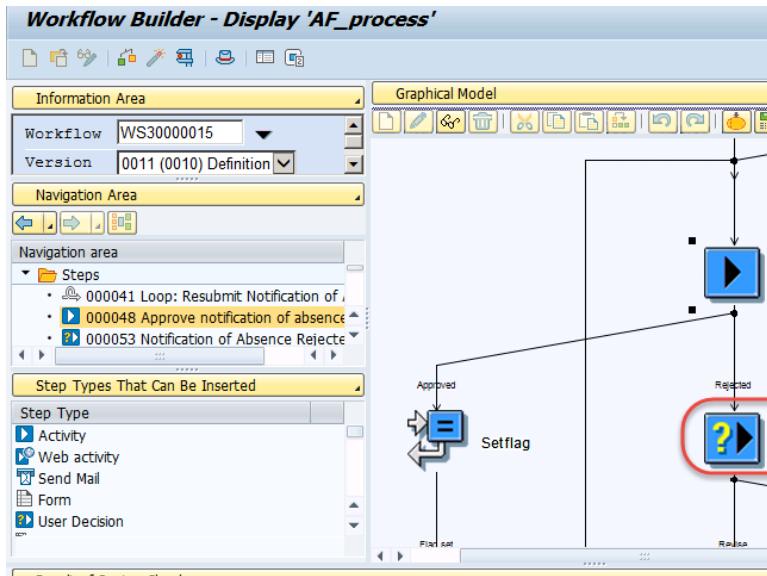
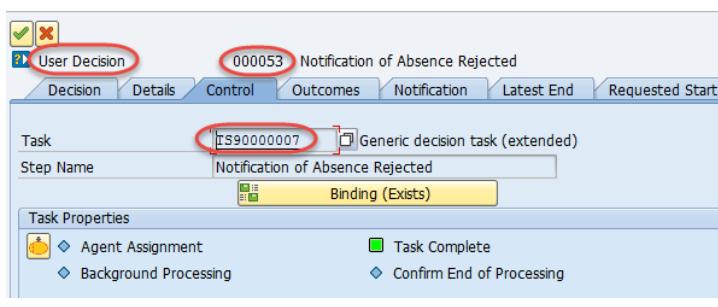
- [Fiori My Inbox - Step 1. Capturing the custom workflow template info](#)

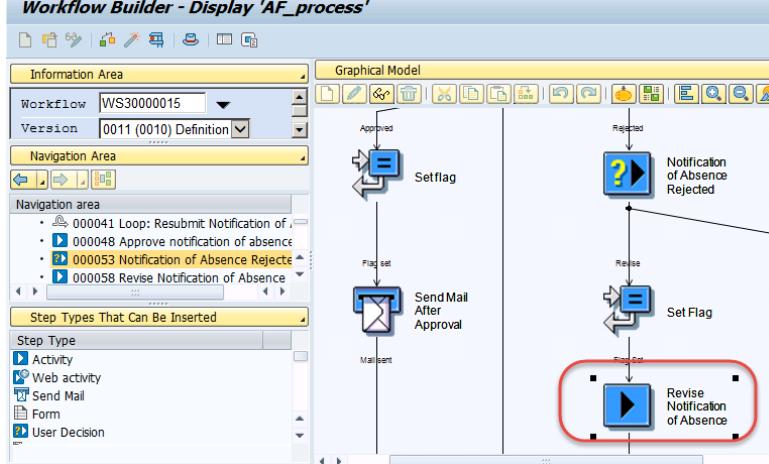
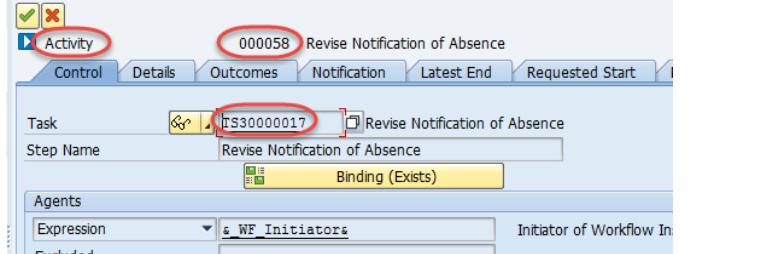
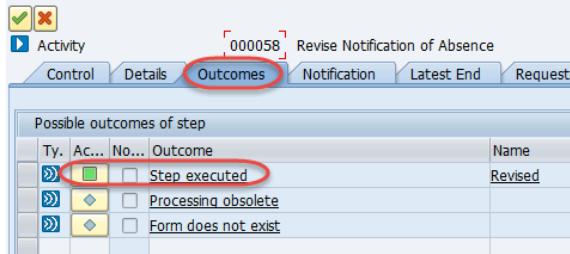
Item	Step No	Task ID	Outcome
Workflow Template ID	N/A		N/A
Approve			
User Decision			
Revise			

Explanation	Screenshot
1. Go to transaction /nSWI2_FREQ.	
2. Let's find out how many workflow instances were created in the last 1 year.  Choose <i>Last 365 days</i> .  Uncheck the Dialog box and check the <i>(Sub-)Workflow</i> box.  Choose <i>Execute</i> .	
3. You see WS30000015 task.  Double click the WS30000015 task.	

Explanation	Screenshot
4. Choose Goto → Display Task.	 <p>The screenshot shows the SAP Process Monitor interface. The top menu bar has 'Goto' highlighted with a red circle. A dropdown menu is open under 'Goto' with the option 'Display Task' also highlighted with a red circle. The main area shows a table of process notifications with columns for Creation Date, Status, and User. One row is selected, showing 'Process notification' in the Text column.</p>
<p>5. This is the workflow template definition for Notification of Absence, which is a sample workflow template in the SAP BASIS.</p> <p>Double click the step 'Approve notification of absence'.</p>	 <p>The screenshot shows the SAP Workflow Builder interface. The left pane displays the workflow steps: '000041 Loop: Resubmit Notification of Absence', '000048 Approve notification of absence', and '000053 Notification of Absence Rejected'. The right pane is the Graphical Model view, showing a workflow diagram. A step labeled 'Approve notification of absence' is highlighted with a red circle. A callout bubble points to this step with the text 'Form created'.</p>

Explanation	Screenshot																														
<p>6. Capture the step definition.</p> <p>Type: Activity Step No: 48 Task ID: TS30000016</p>	 <p>The screenshot shows the SAP Workflow Builder interface for the process 'AF_process'. In the center, there's a panel titled 'Step Types That Can Be Inserted' which lists 'Activity', 'Web activity', 'Send Mail', 'Form', and 'User Decision'. To the right, under the 'Control' tab, the step details are shown: Task ID is 'TS30000016', Step Name is 'Approve notification of absence', and the Rule is '74500180'. The 'Outcomes' tab is also visible.</p>																														
<p>7. Go to the <i>Outcomes</i> tab. Capture active outcomes. 1 – Approved 2 - Rejected Double click each, Approved and Rejected.</p>	 <p>The screenshot shows the 'Outcomes' tab in the Workflow Builder. It displays a table of possible outcomes for the step, with 'Approved' and 'Rejected' being the active ones. Both rows have their checkboxes checked.</p> <table border="1"> <thead> <tr> <th>Ty.</th> <th>Ac...</th> <th>No...</th> <th>Outcome</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Activity</td> <td>000048</td> <td>Approved</td> <td>Approved</td> </tr> <tr> <td>2</td> <td>Activity</td> <td>000048</td> <td>Rejected</td> <td>Rejected</td> </tr> <tr> <td>3</td> <td>Activity</td> <td>000048</td> <td>New</td> <td></td> </tr> <tr> <td>4</td> <td>Activity</td> <td>000048</td> <td>Processing obsolete</td> <td></td> </tr> <tr> <td>5</td> <td>Activity</td> <td>000048</td> <td>Form does not exist</td> <td></td> </tr> </tbody> </table>	Ty.	Ac...	No...	Outcome	Name	1	Activity	000048	Approved	Approved	2	Activity	000048	Rejected	Rejected	3	Activity	000048	New		4	Activity	000048	Processing obsolete		5	Activity	000048	Form does not exist	
Ty.	Ac...	No...	Outcome	Name																											
1	Activity	000048	Approved	Approved																											
2	Activity	000048	Rejected	Rejected																											
3	Activity	000048	New																												
4	Activity	000048	Processing obsolete																												
5	Activity	000048	Form does not exist																												
<p>8. Capture the Outcome details. 1 – Approved. Result Value: A 2 – Rejected. Result Value: R</p>	 <p>The screenshot shows the 'Outbox' tab in the Workflow Builder. It contains a table with one row for 'Approved'. Under the 'Result Attribute' section, the 'Result value' is set to 'A'. The 'Outbox' value is also 'Approved'.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Approved</td> <td></td> </tr> </tbody> </table> <p><b>Result Attribute</b></p> <table border="1"> <tr> <td>Result value</td> <td>A</td> </tr> </table> <p>Outbox: Approved</p>	Name	Value	Approved		Result value	A																								
Name	Value																														
Approved																															
Result value	A																														

Explanation	Screenshot
	
<p>9. Double click the Steps folder in the Navigation area to return to the graphical model.</p> <p>Look at the next step after the Approve/Reject activity.</p> <p>Double click the step <i>Notification of Absence Rejected</i>.</p>	
<p>10. Capture the step definition.</p> <p>Type: User Decision Step No: 53 Task ID: TS90000007</p> <p>Note: Original task was TS00008267. The trainer has copied TS00008267 to TS90000007.</p>	

Explanation	Screenshot
<p>11. Double click the steps folder in the navigation area to return to the graphical model.</p> <p>Look at the next step if requester selected for revise the request.</p> <p>Double click the step <i>Revise Notification of Absence</i>.</p>	
<p>12. Capture the step definition.</p> <p>Type: Activity Step No: 58 Task ID: TS30000017</p>	
<p>13. Go to the <i>Outcomes</i> tab.</p> <p>1 – Step executed.</p>	

**Recap:**

- You have learned how to find workflow information from a customer system.  
The captured information will be used in the next section.

Item	Step No	Task ID	Outcome
<b>Workflow Template ID</b>	N/A	WS 30000015	N/A
<b>Activity (Approve)</b>	48	TS30000016	1-Approved = A, 2-Rejected = R
<b>User Decision</b>	53	TS90000007	Revise, Delete
<b>Activity (Revise)</b>	58	TS30000017	Revised

Note: Starting 9 like WS90000002, TS90000007 implies a custom task.

### 3.2 Display business data by configuring dynamic column [Backend server]

Approver gets long text out of the box. It is the workitem description defined in the workflow template.

*"Employee INT260\_USER submitted a notification of absence on 21.07.2016.*

*Make a decision about the request."*

It is not enough information to make a decision and reading the long text is not a quick way.

#### Assignment:

- Display business data in the detail view without any programming.
- Users prefer a table style display to find required information quickly.

Before:

Employee INT260\_USER : Approve notification of absence

Workflow System Ready Medium

Created on 10.08.2016

Employee INT260\_USER submitted a notification of absence on 21.07.2016.  
Make a decision about the request.  
If you reject the request, create an attachment explaining your reason for the rejection.

Claim Forward Suspend **Open Task**

After:

Employee INT260\_USER : Approve notification of absence

Workflow System

Created on 20.07.2016

Employee INT260\_USER submitted a notification of absence on 21.07.2016.  
Make a decision about the request.  
If you reject the request, create an attachment explaining your reason for the rejection.

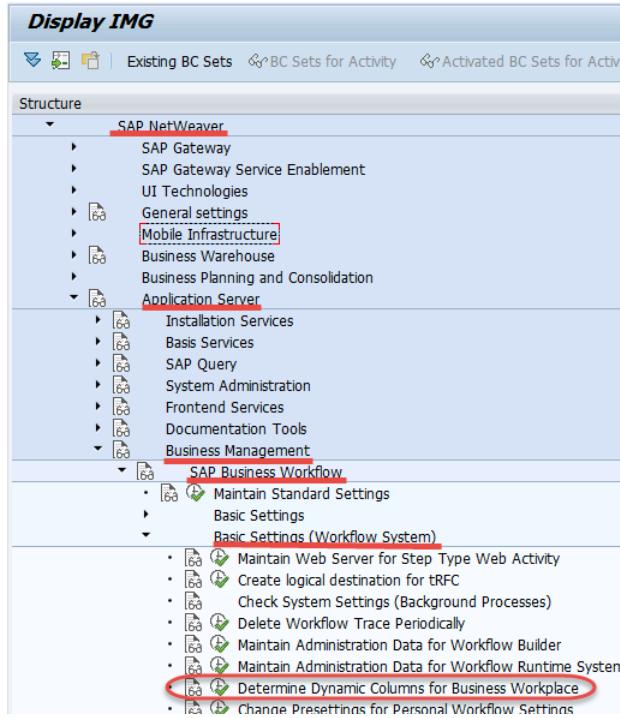
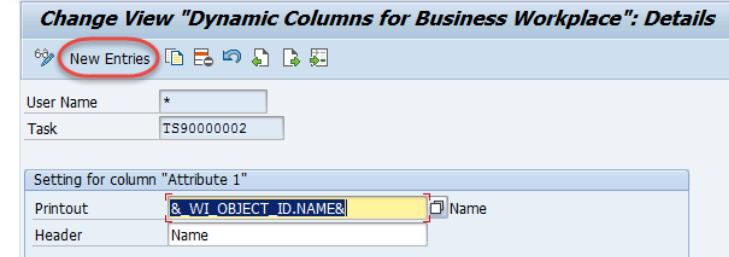
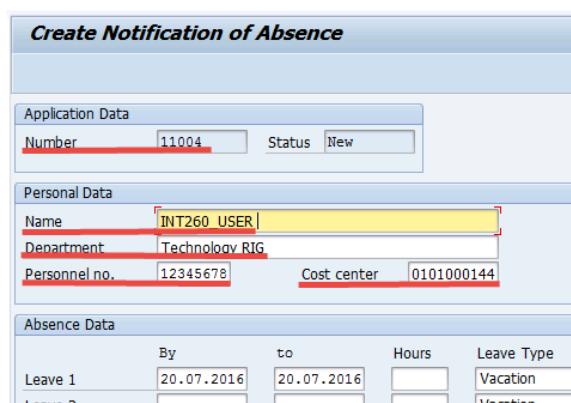
Number: 0000011006  
Name: INT260\_USER  
Department: Technology R&G  
Personnel No: 12345678  
Cost Center: 0101000144

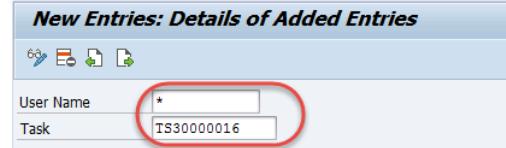
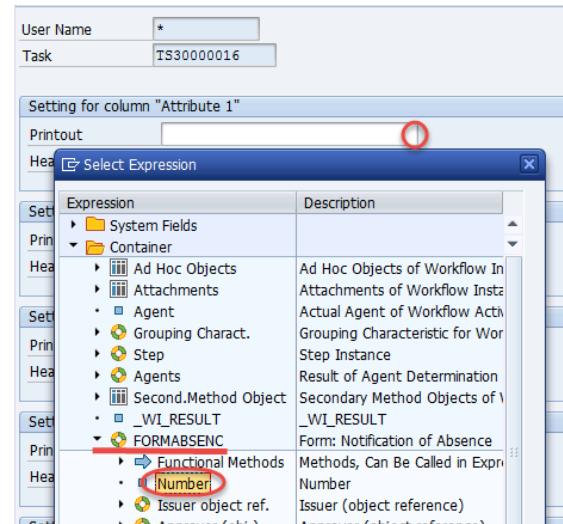
Reference document and help:

[2323669](#) - Task Gateway - SAP Business Workflow: Create dynamic custom attributes with pre-defined names

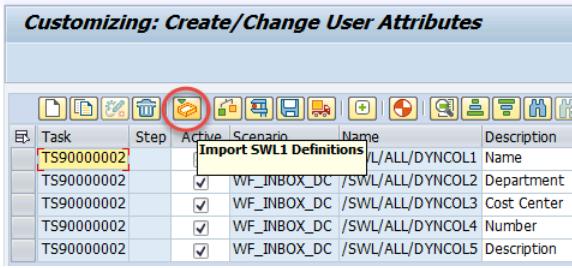
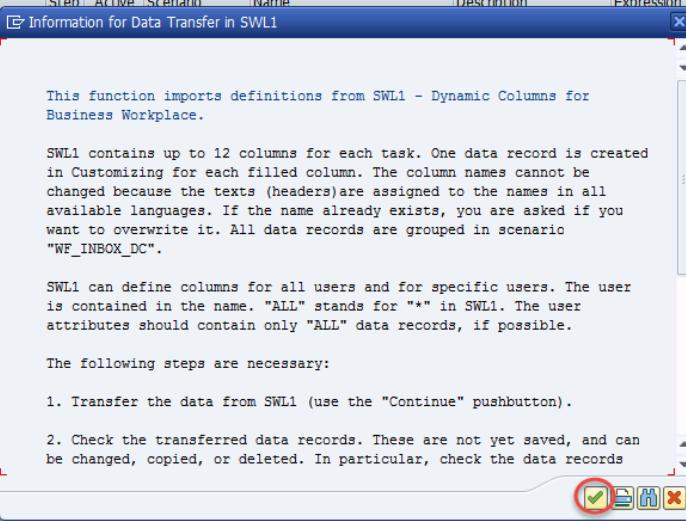
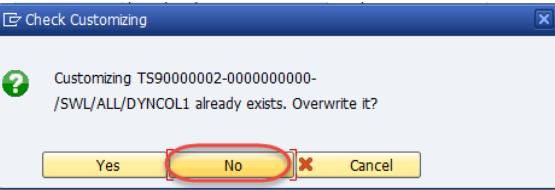
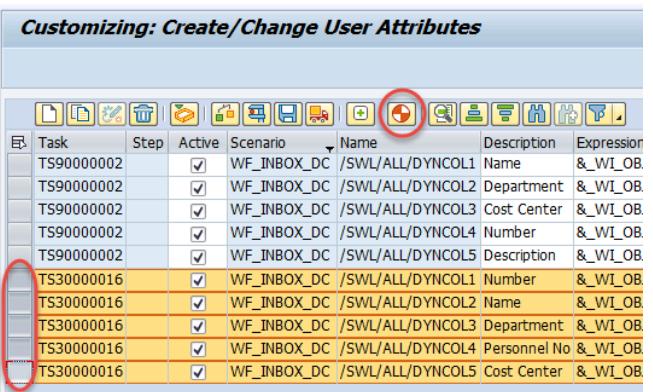
**Explanation**

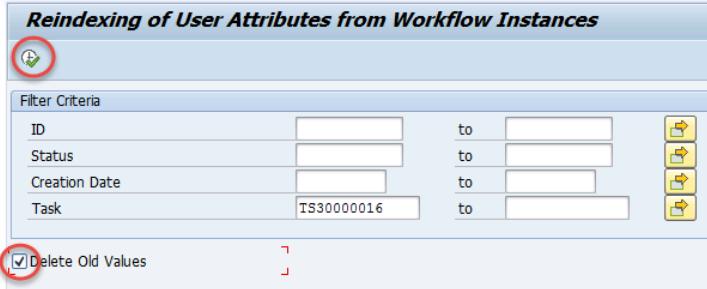
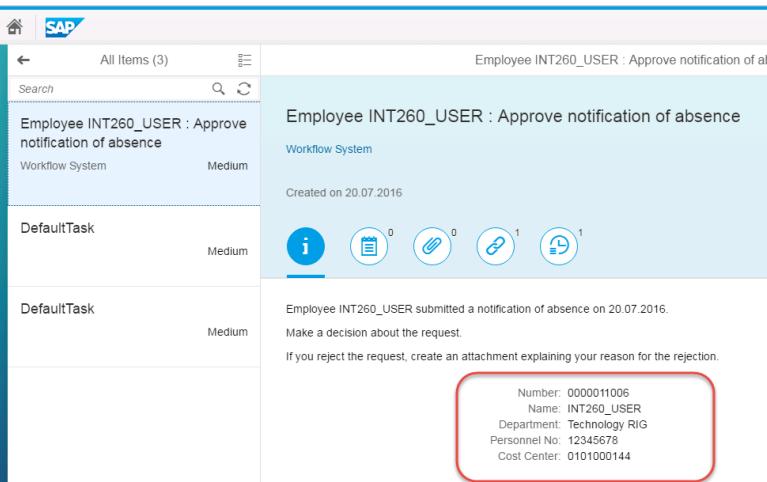
**Screenshot**

Explanation	Screenshot
<p>1. Go to the transaction <code>/nSPRO -&gt; SAP Reference IMG</code> and find the <i>Determine Dynamic Columns for Business Workplace</i>.</p> <p><i>SAP NetWeaver -&gt; Application Server -&gt; Business Management -&gt; SAP Business Workflow -&gt; Basic Settings (Workflow System).</i></p> <p>For a short cut: The transaction is <code>SWL1</code>. Enter <code>/nSWL1</code> if not on the easy access home page.</p>	 <p>The screenshot shows the SAP Reference IMG structure. The path taken is:</p> <ul style="list-style-type: none"> <li>SAP NetWeaver</li> <li>SAP Gateway</li> <li>SAP Gateway Service Enablement</li> <li>UI Technologies</li> <li>Mobile Infrastructure (highlighted with a red box)</li> <li>Business Warehouse</li> <li>Business Planning and Consolidation</li> <li>Application Server (highlighted with a red box)</li> <li>Installation Services</li> <li>Basic Services</li> <li>SAP Query</li> <li>System Administration</li> <li>Frontend Services</li> <li>Documentation Tools</li> <li>Business Management (highlighted with a red box)</li> <li>SAP Business Workflow</li> <li>Maintain Standard Settings</li> <li>Basic Settings</li> <li>Basic Settings (Workflow System) (highlighted with a red box) <ul style="list-style-type: none"> <li>Maintain Web Server for Step Type Web Activity</li> <li>Create logical destination for tRFC</li> <li>Check System Settings (Background Processes)</li> <li>Delete Workflow Trace Periodically</li> <li>Maintain Administration Data for Workflow Builder</li> <li>Maintain Administration Data for Workflow Runtime System</li> <li>Determine Dynamic Columns for Business Workplace (highlighted with a red circle)</li> <li>Change Presettings for Personal Workflow Settings</li> </ul> </li> </ul>
<p>2. You are going to add the required business data from the workflow container to the Dynamic Columns.</p> <p>Choose <i>New Entries</i>.</p>	 <p>The screenshot shows the 'Change View "Dynamic Columns for Business Workplace": Details' screen. The 'New Entries' button is highlighted with a red circle. The 'Printout' field contains the formula <code>&amp; WI OBJECT_ID.NAME&amp;</code>.</p>
<p>3. This screenshot shows the transaction when a user creates a Notification of Absence. Let's add these 5 fields to the dynamic columns.</p>	 <p>The screenshot shows the 'Create Notification of Absence' screen. The 'Personal Data' section includes fields for Name (highlighted with a red box), Department (Technology RIG), Personnel no. (12345678), and Cost center (0101000144). The 'Absence Data' section includes fields for Leave 1 (By: 20.07.2016, to: 20.07.2016, Hours: blank, Leave Type: Vacation) and Leave 2 (By: blank, to: blank, Hours: blank, Leave Type: Vacation).</p>

Explanation	Screenshot																																
<p>Enter User Name and Task.</p> <p>User: * (means all users). Task: TS30000016.</p> <p><b>Copy</b> <b>Paste</b></p> <p>Hit the enter key after you entered the Task ID. F4 help will be available for the printout field.</p> <p>Note: You have captured the TS30000016 in section 3.1. It is the approval task.</p>																																	
<p>4. Add 5 fields to the dynamic columns.</p> <p>Expand the <i>FORMABSENCE</i> and find 5 container elements.</p> <p>Note: This element list is a workflow container. The object <i>FORMABSENCE</i> holds business data.</p>	 <table border="1"> <thead> <tr> <th data-bbox="703 889 817 910">Expression</th> <th data-bbox="703 889 997 910">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 910 817 931">System Fields</td> <td data-bbox="703 910 997 931">Ad Hoc Objects of Workflow Instances</td> </tr> <tr> <td data-bbox="703 931 817 952">Container</td> <td data-bbox="703 931 997 952">Attachments of Workflow Instances</td> </tr> <tr> <td data-bbox="703 952 817 973">Ad Hoc Objects</td> <td data-bbox="703 952 997 973">Actual Agent of Workflow Activity</td> </tr> <tr> <td data-bbox="703 973 817 994">Attachments</td> <td data-bbox="703 973 997 994">Grouping Characteristic for Workflow Instances</td> </tr> <tr> <td data-bbox="703 994 817 1015">Agent</td> <td data-bbox="703 994 997 1015">Step Instance</td> </tr> <tr> <td data-bbox="703 1015 817 1036">Grouping Charact.</td> <td data-bbox="703 1015 997 1036">Result of Agent Determination</td> </tr> <tr> <td data-bbox="703 1036 817 1058">Step</td> <td data-bbox="703 1036 997 1058">Secondary Method Objects of Workflow</td> </tr> <tr> <td data-bbox="703 1058 817 1079">Agents</td> <td data-bbox="703 1058 997 1079">_WL_RESULT</td> </tr> <tr> <td data-bbox="703 1079 817 1100">Second.Method Object</td> <td data-bbox="703 1079 997 1100">Form: Notification of Absence</td> </tr> <tr> <td data-bbox="703 1100 817 1121">_WL_RESULT</td> <td data-bbox="703 1100 997 1121">Methods, Can Be Called in Expressions</td> </tr> <tr> <td data-bbox="703 1121 817 1142">FORMABSENCE</td> <td data-bbox="703 1121 997 1142">Number</td> </tr> <tr> <td data-bbox="703 1142 817 1163">Functional Methods</td> <td data-bbox="703 1142 997 1163">Issuer (object reference)</td> </tr> <tr> <td data-bbox="703 1163 817 1184">Number</td> <td data-bbox="703 1163 997 1184">-----</td> </tr> <tr> <td data-bbox="703 1184 817 1205">Issuer object ref.</td> <td data-bbox="703 1184 997 1205">-----</td> </tr> <tr> <td data-bbox="703 1205 817 1227">-----</td> <td data-bbox="703 1205 997 1227">-----</td> </tr> </tbody> </table>	Expression	Description	System Fields	Ad Hoc Objects of Workflow Instances	Container	Attachments of Workflow Instances	Ad Hoc Objects	Actual Agent of Workflow Activity	Attachments	Grouping Characteristic for Workflow Instances	Agent	Step Instance	Grouping Charact.	Result of Agent Determination	Step	Secondary Method Objects of Workflow	Agents	_WL_RESULT	Second.Method Object	Form: Notification of Absence	_WL_RESULT	Methods, Can Be Called in Expressions	FORMABSENCE	Number	Functional Methods	Issuer (object reference)	Number	-----	Issuer object ref.	-----	-----	-----
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Functional Methods	Issuer (object reference)																																
Number	-----																																
Issuer object ref.	-----																																
-----	-----																																

Explanation	Screenshot
<p>5. This screenshot shows the full configuration.</p> <p>Number Name Department Personnel No Cost Center</p>	
<p>6. Save and <i>confirm</i> the customizing request.</p>	
<p>7. Go to transaction /nSE38.  Run the program <i>RSDW_MAINTAIN_USER_ATR</i> which generates attributes for runtime usage.</p> <p><b>Copy</b> <b>Paste</b></p>	
<p>8. Enter the Scenario Filter <i>WF_INBOX_DC</i>.  <b>Copy</b> <b>Paste</b> Execute.</p>	

Explanation	Screenshot
9. Choose the tray icon to import the dynamic column definition.	 <p>The screenshot shows the 'Customizing: Create/Change User Attributes' dialog. The toolbar at the top has several icons, with the 10th icon from the left (a tray icon) highlighted with a red circle. Below the toolbar is a table with columns: Task, Step, Active, Scenario, Name, Description, and Expression. There are five rows of data, each corresponding to a task named 'TS90000002'. The 'Name' column contains entries like 'WF_INBOX_DC /SWL/ALL/DYNCOL1' and 'WF_INBOX_DC /SWL/ALL/DYNCOL2'.</p>
10. Confirm the information dialog.	 <p>This screenshot shows the 'Information for Data Transfer in SWL' dialog box. It contains instructions about importing definitions from SWL1, mentioning up to 12 columns per task, and how to handle existing records. At the bottom, there are four buttons: 'Yes' (highlighted with a red circle), 'No', 'Cancel', and a close button.</p>
11. Select No for all popups.	 <p>This screenshot shows a 'Check Customizing' dialog box. It asks if you want to overwrite an existing record ('Customizing TS90000002-0000000000- /SWL/ALL/DYNCOL1 already exists. Overwrite it?'). At the bottom, the 'No' button is highlighted with a red circle.</p>
12. 5 attributes are imported.  TS30000016 is for approval task.  Select the 5 attributes and choose the generate button (ReIndex Runtime Data).	 <p>The screenshot shows the 'Customizing: Create/Change User Attributes' dialog again. The toolbar has an 11th icon (a generate button) highlighted with a red circle. The table below shows ten rows of tasks, with the last five rows (TS30000016) highlighted with red circles around their entire rows. The 'Name' column for these rows includes entries like 'WF_INBOX_DC /SWL/ALL/DYNCOL1 Number' and 'WF_INBOX_DC /SWL/ALL/DYNCOL2 Name'.</p>

Explanation	Screenshot
<p>13. Execute (ReIndex).</p> <p>Select the <i>Delete Old Values</i> check box.</p>	
<p>14. Re-indexing is completed.</p>	
<p>15. Go back to the SAP Fiori Launchpad and reopen the My Inbox app.</p> <p>You can now see the additional attributes in the detail window.</p> <p>Note: If you have not enter any department name and Personnel number in the Notification of Absence, you see blank data in those fields.</p>	

**Recap:**

- You can display business data as a table format in the detail view of the My Inbox app without any programming.

**3.3 Define action buttons [Backend server]**

Approver needs to open the task to make a decision in the previous test.

**Assignment:**

- Add decision buttons in My Inbox without any programming. It enables the approver to make a quick action.

## Before:

Employee INT260\_USER : Approve notification of absence

Created on 20.07.2016

Workflow System Medium

DefaultTask Medium

DefaultTask Medium

Employee INT260\_USER submitted a notification of absence on 20.07.2016.  
Make a decision about the request.  
If you reject the request, create an attachment explaining your reason for the rejection.

Number: 0000011006  
Name: INT260\_USER  
Department: Technology RIG  
Personnel No: 12345678  
Cost Center: 0101000144

Claim Forward Suspend Open Task

## After:

Employee INT260\_USER : Approve notification of absence

Workflow System In Progress Medium

Created on 21.07.2016

Employee INT260\_USER submitted a notification of absence on 21.07.2016.  
Make a decision about the request.  
If you reject the request, create an attachment explaining your reason for the rejection.

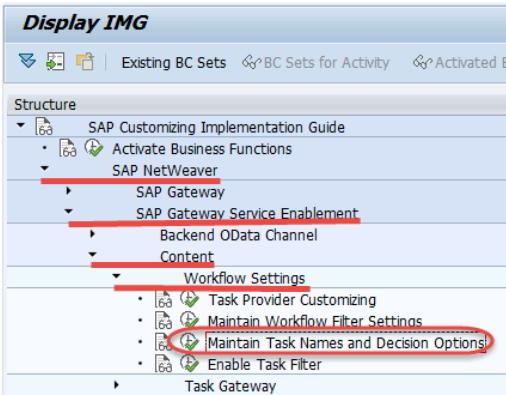
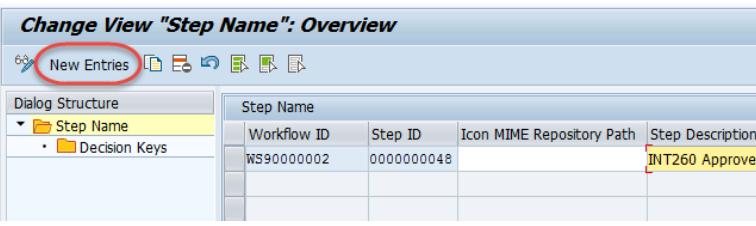
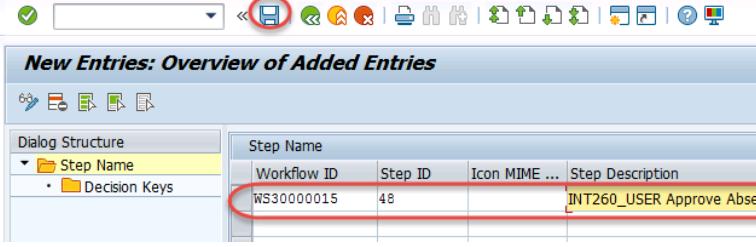
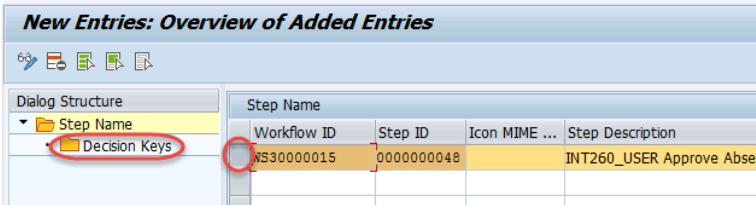
Approve Reject Release Forward Suspend Open Task

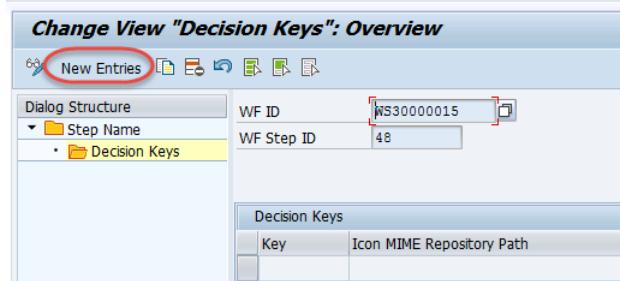
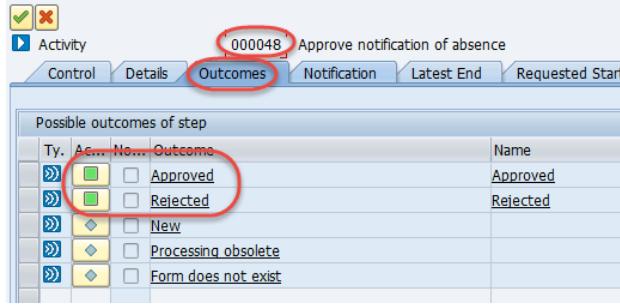
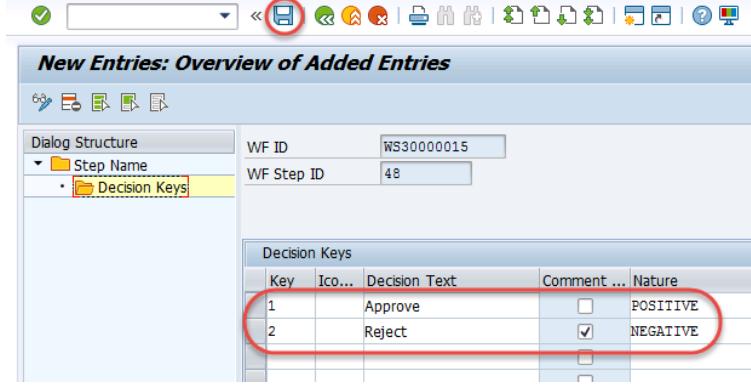
## Reference document and help:

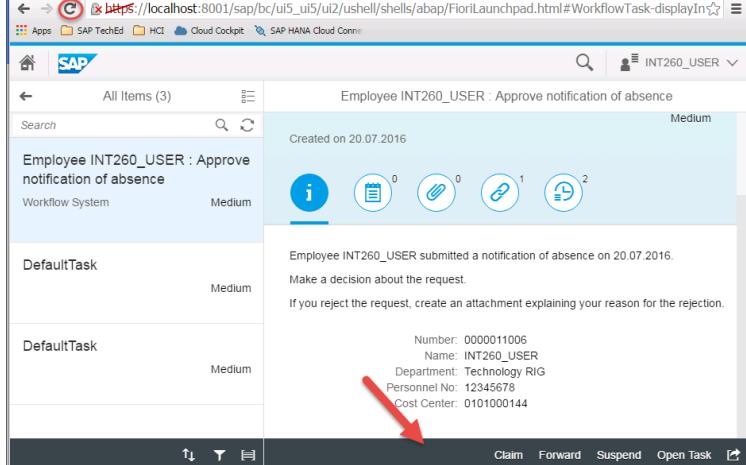
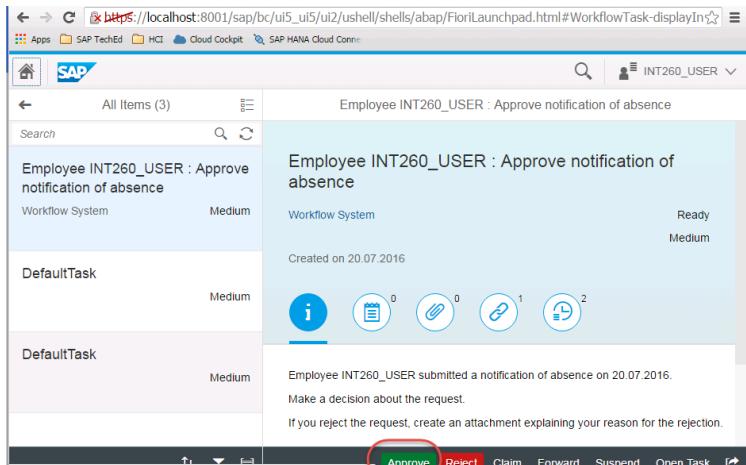
[Configuring a Task and Decisions](#)

**Explanation**

**Screenshot**

Explanation	Screenshot										
<p>1. Go to the transaction <code>/nSPRO -&gt; SAP Reference IMG</code> and navigate to <i>Maintain Task Names and Decision Options</i>.</p> <p><i>SAP NetWeaver -&gt; SAP Gateway Service Enablement -&gt; Content -&gt; Workflow Settings -&gt; Maintain Task Names and Decision Options</i></p>	 <p>The screenshot shows the SAP Reference IMG structure. The path highlighted in red is: SAP Customizing Implementation Guide &gt; SAP NetWeaver &gt; SAP Gateway &gt; SAP Gateway Service Enablement &gt; Content &gt; Workflow Settings &gt; Maintain Task Names and Decision Options.</p>										
<p>2. Choose <i>New Entries</i>.</p>	 <p>The screenshot shows the 'Change View "Step Name": Overview' screen. The 'New Entries' button at the top left is highlighted with a red circle.</p>										
<p>3. Add an entry.</p> <p>Workflow ID: WS30000015 Step ID: 48 Step Description: Any text</p> <p><b>Copy</b> <b>Paste</b></p>	 <p>The screenshot shows the 'New Entries: Overview of Added Entries' screen. A new entry has been added with the following details:</p> <table border="1"> <thead> <tr> <th>Step Name</th> <th>Workflow ID</th> <th>Step ID</th> <th>Icon MIME ...</th> <th>Step Description</th> </tr> </thead> <tbody> <tr> <td>WS30000015</td> <td>WS30000015</td> <td>48</td> <td></td> <td>INT260_USER Approve Absen</td> </tr> </tbody> </table>	Step Name	Workflow ID	Step ID	Icon MIME ...	Step Description	WS30000015	WS30000015	48		INT260_USER Approve Absen
Step Name	Workflow ID	Step ID	Icon MIME ...	Step Description							
WS30000015	WS30000015	48		INT260_USER Approve Absen							
<p>4. Save and confirm the Customizing request.</p>	 <p>The screenshot shows the 'Prompt for Customizing request' dialog box. The 'Request' field contains 'IDIK900048'. The 'Customizing request' checkbox is checked. The 'Short Description' field contains 'INT260 TechEd hands-on'.</p>										
<p>5. Select the entry <code>WS30000015</code> and double click the <i>Decision Keys</i>.</p>	 <p>The screenshot shows the 'New Entries: Overview of Added Entries' screen. The 'Decision Keys' row for entry WS30000015 is selected, indicated by a red circle around the row.</p>										

Explanation	Screenshot
6. Choose <i>New Entries</i> .	
7. Note: This screenshot is from the previous section. You have already captured outcomes for the approval step.	
8. Add 2 entries.  Key 1 means the first entry in the above screenshot.  Key: 1 Decision Text: Approve Comment: Off Nature: <i>POSITIVE</i>  Key: 2 Decision Text: Reject Comment: On Nature: <i>NEGATIVE</i>  Save entries.  Note: We set comment is mandatory for rejection case.	

Explanation	Screenshot
<p>9. Go back to the My Inbox app. <i>Reload the browser.</i></p>	
<p>10. As the result, Approve and Reject buttons are available. <i>Choose Approve.</i></p>	
<p>11. Note: Comment box is optional because you have not set the flag in the customizing. <i>Choose Submit.</i></p>	

Explanation	Screenshot
<p>12. After submitting, ideally the workitem should be removed from the list and the item count should be reduced.</p> <p>But the result is that the workitem is still in the Inbox.</p> <p>This is the expected behavior because you have not implemented update function in the backend by implementing a BAdl.</p> <p>Implementing a BAdl is the next step.</p>	

### Recap:

- You can add action buttons without programming.

Note: If the task is User Decision type, buttons are displayed out of the box.

Note: You can control the other buttons (Claim, Forward, Suspend, OpenTask, ...) by implementing a BAdl. [2321144](#) - Disabling actions in My Inbox via BADI.

### 3.4 Update business data by implementing a Business Add In (BAdl) [Backend server]

My Inbox handles different types of workflows. You need some logic updating business data in the backend. For this, there is the BAdl /IWWRK/BADI\_WF\_BEFORE\_UPD\_IB.

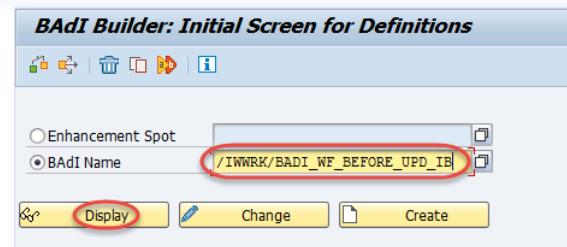
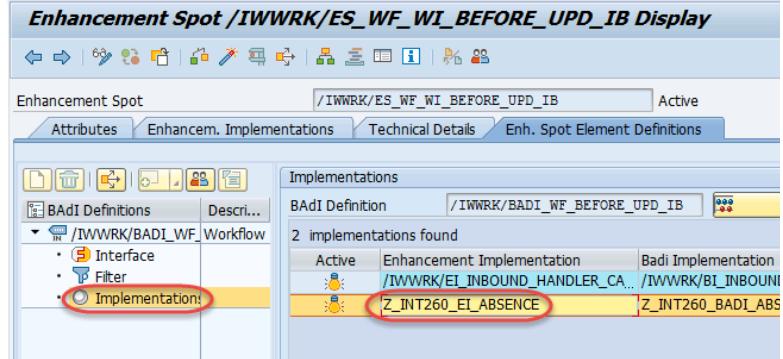
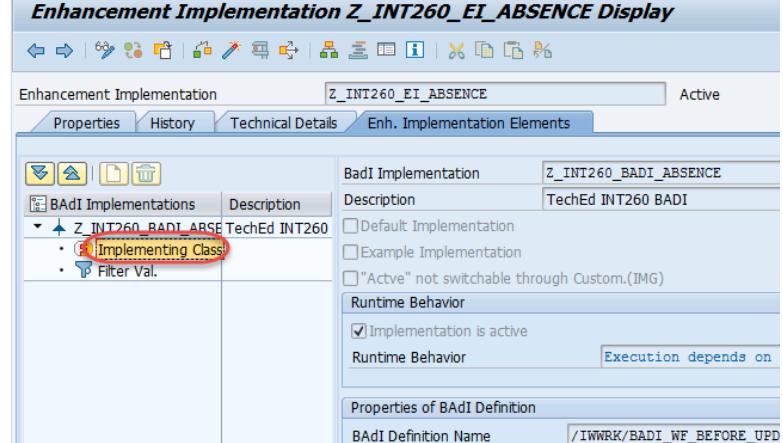
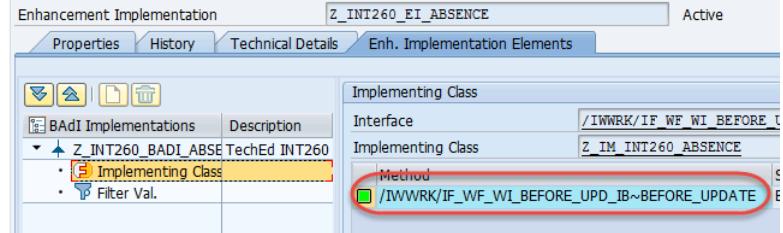
#### Assignment:

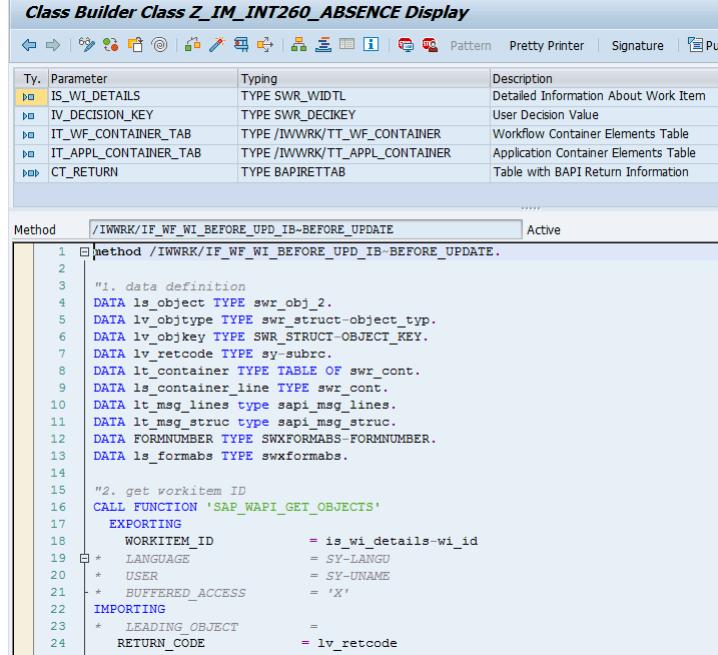
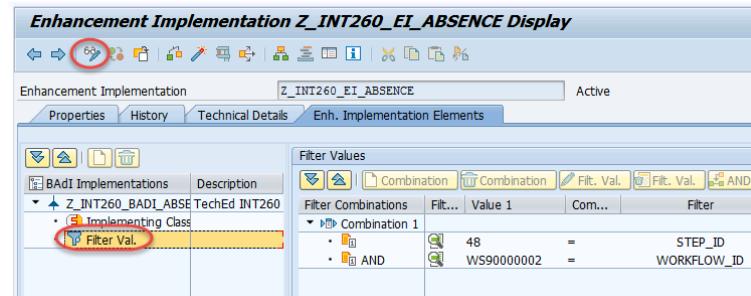
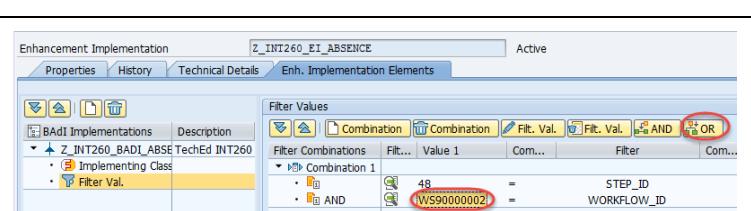
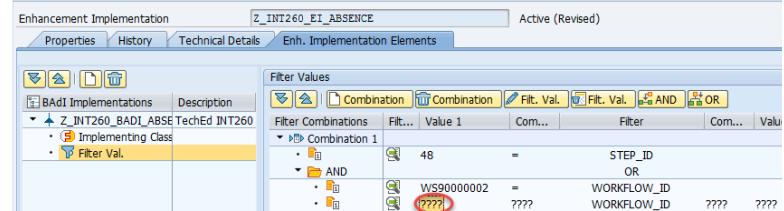
- Implement the BAdl which updates the Approve/Reject decision in the backend.
- The BAdl has been implemented by the trainers to save exercise time. Your task is looking at the solution and making necessary adjustments for the filter setting.

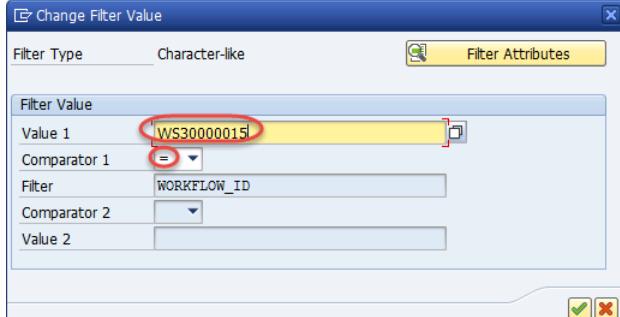
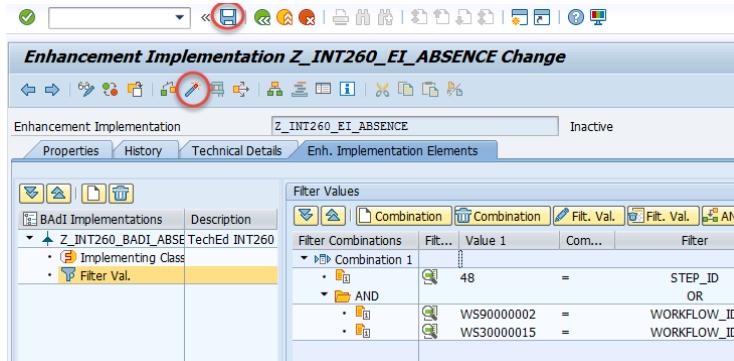
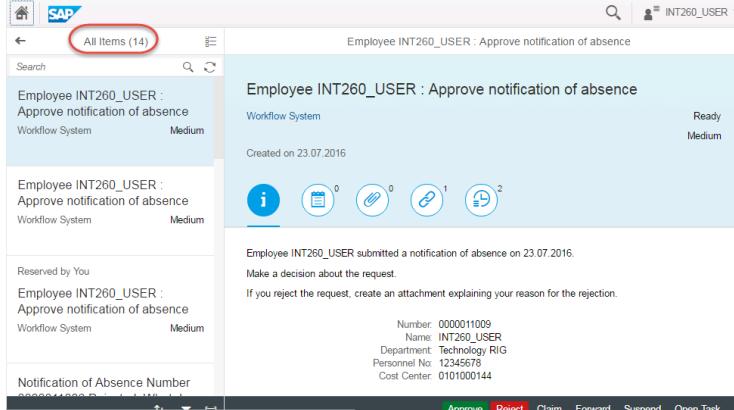
#### Reference document and help:

[Fiori My Inbox - Step 6. Implement the BADI for updating the decision](#)

Explanation	Screenshot
-------------	------------

Explanation	Screenshot
<p>1. Go to transaction /nSE18.</p> <p>Display the BAdI /IWWRK/BADI_WF_BEFORE_UPD_IB.</p> <p><a href="#">Copy</a> <a href="#">Paste</a></p>	
<p>2. Double click the Implementation node.</p> <p>Double click the Z_INT260_EI_ABSENCE.</p>	
<p>3. Double click the <i>Implementing Class</i> node.</p>	
<p>4. Double click the <i>Method</i>.</p>	

Explanation	Screenshot
5. Go through the code.	
6. The BAdl implementation is available for the solution workflow template.  Enable the BAdl implementation to your workflow by adjusting the filter value.  Choose the <i>Change</i> mode button.	
7. Select the WS90000002 and choose the <i>OR</i> button.	
8. Double click the value '????'.	

Explanation	Screenshot
<p>9. Enter WS30000015 = WORKFLOW_ID.</p> <p><b>Copy</b> <b>Paste</b></p>	
<p>10. Choose the green check mark then <i>activate</i> the changes.  Save the changes.</p>	
<p>11. Go back to the My Inbox app and approve a Notification of Absence.  When a workitem is approved, the workitem is removed from the list.</p>	

**Recap:**

- If the task is activity type, BAdl implementation is required.
- If the task is User Decision type, BAdl implementation is not required

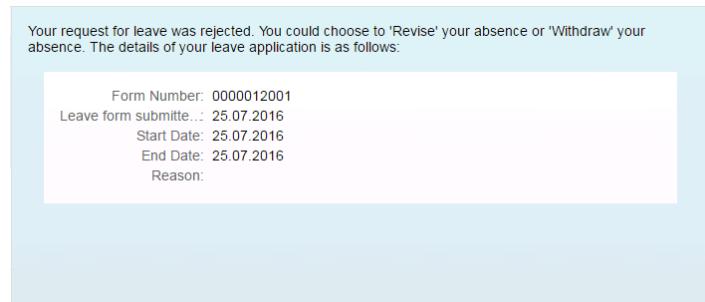
## 4 DEVELOPER ROLE – DEVELOP A CUSTOM FIORI APP

You will take on a developer role in this section.

### 4.1 Look at developed a custom app [Frontend server]

You can call an extended SAP Fiori standard app or a custom app from the My Inbox app. Standard SAP Fiori app is not available for the Notification of Absence workflow. The trainers have developed a custom app and deployed it on the frontend server.

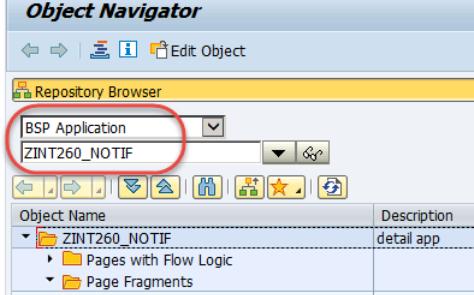
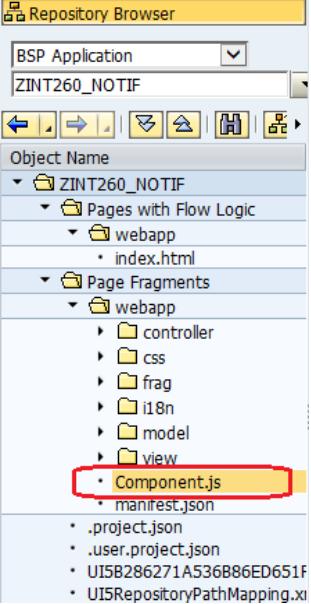
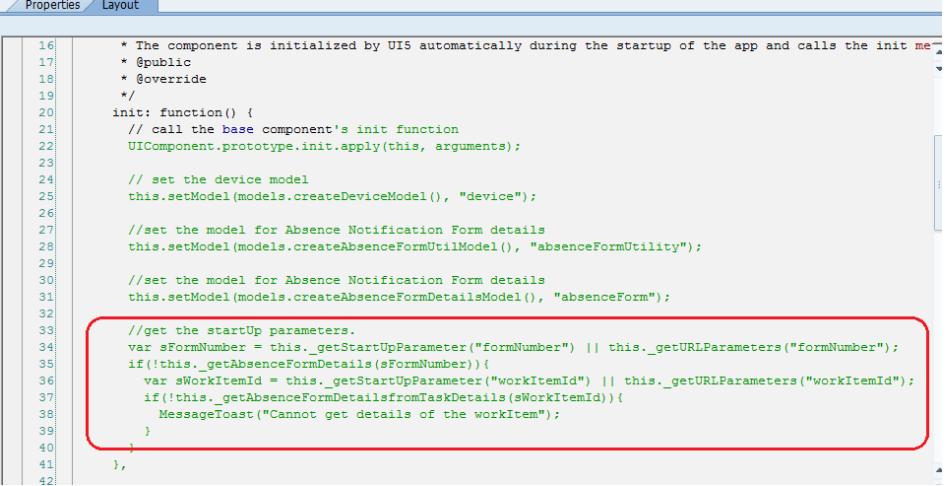
It is a custom app to display the Notification of Absence data.

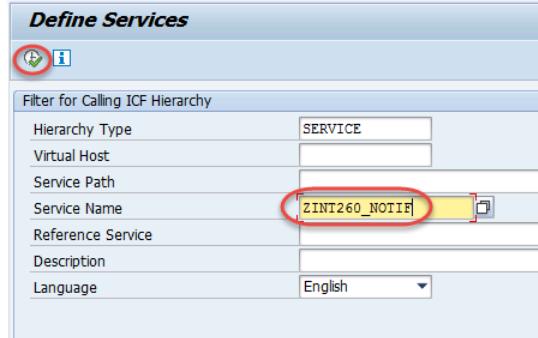
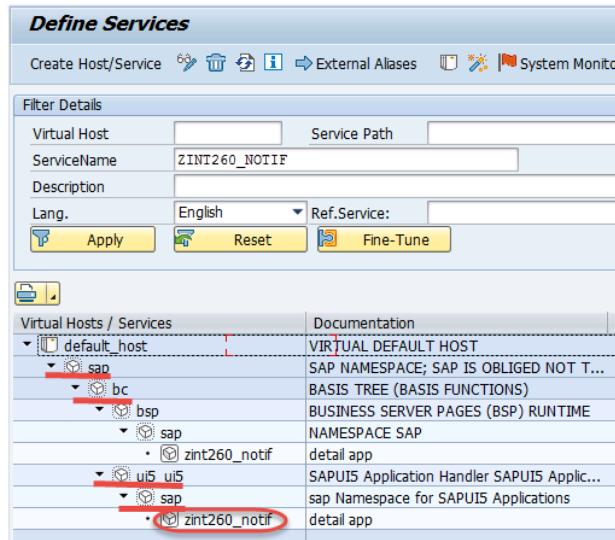


#### Assignment:

- Look at the developed custom app and find required parameters. Write it down in the capture sheet document.

Explanation	Screenshot
1. Go to the transaction /nSE80.	<p>The screenshot shows the SAP Easy Access interface. In the 'Favorites' list, the entry 'SE80 - Object Navigator!' is circled in red.</p>

Explanation	Screenshot
<p>2. Open the SAPUI5 app.</p> <p>Object: <i>BSP Application</i> App: <i>ZINT260_NOTIF</i></p> <p><b>Copy</b> <b>Paste</b></p> <p>Copy the <i>ZINT260_NOTIF</i> to the clipboard.</p>	
<p>3. Open the component definition for the app.</p> <p><i>ZINT260_NOTIF</i> -&gt; <i>Page Fragments</i> -&gt; <i>webapp</i> -&gt; <i>Component.js</i>.</p>	
<p>4. Check the app parameters.</p> <p>Find the application parameters used to fetch the Notification of Absence data.</p> <pre>#inboxdetailApp- display?formNumber=0000012 001&amp;workItemId=00000001500 3</pre> <p>The parameters will be defined in section 5.3 which defines parameters in the SWFVISU transaction.</p>	 <pre> 16 * The component is initialized by UI5 automatically during the startup of the app and calls the init me... 17 * @public 18 * @override 19 */ 20 init: function() { 21     // call the base component's init function 22     UIComponent.prototype.init.apply(this, arguments); 23 24     // set the device model 25     this.setModel(models.createDeviceModel(), "device"); 26 27     //set the model for Absence Notification Form details 28     this.setModel(models.createAbsenceFormUtilModel(), "absenceFormUtility"); 29 30     //set the model for Absence Notification Form details 31     this.setModel(models.createAbsenceFormDetailsModel(), "absenceForm"); 32 33     //get the startUp parameters. 34     var sFormNumber = this._getStartUpParameter("formNumber")    this._getURLParameters("formNumber"); 35     if(!this._getAbsenceFormDetails(sFormNumber)){ 36         var sWorkItemId = this._getStartUpParameter("workItemId")    this._getURLParameters("workItemId"); 37         if(!this._getAbsenceFormDetailsFromTaskDetails(sWorkItemId)){ 38             MessageToast("Cannot get details of the workitem"); 39         } 40     }, 41 }, 42 </pre>

Explanation	Screenshot
<p>5. Go to the transaction <code>/nSICF</code>.      Paste the app name in the Service Name field.      Choose execute.</p>	
<p>6. The path is  <code>/sap/bc/ui5_ui5/sap/zint260_notif/webapp</code>.      Note: This path is used in the section 5.4.</p>	

### Recap:

- A consultant who is going to configure My Inbox needs to get the application path and required parameters. The developer should provide those information.
- `?formNumber=0000012001&workItemId=000000015003` is the expected parameters.

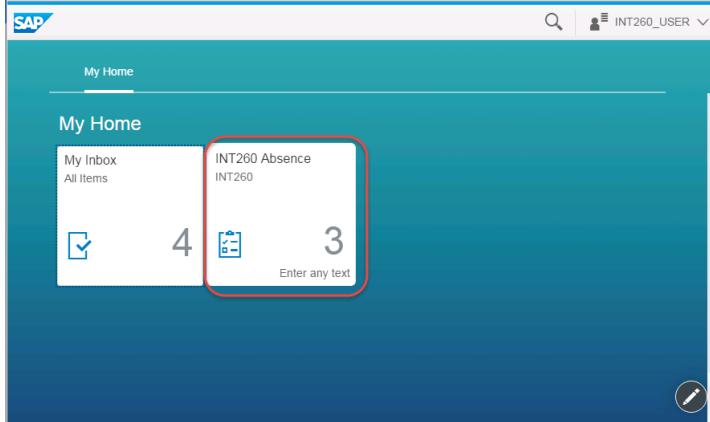
Parameter	Value example
<code>formNumber</code>	0000012001
<code>workItemId</code>	000000015003

## 5 CONSULTANT ROLE – CONFIGURE VISUALIZATION

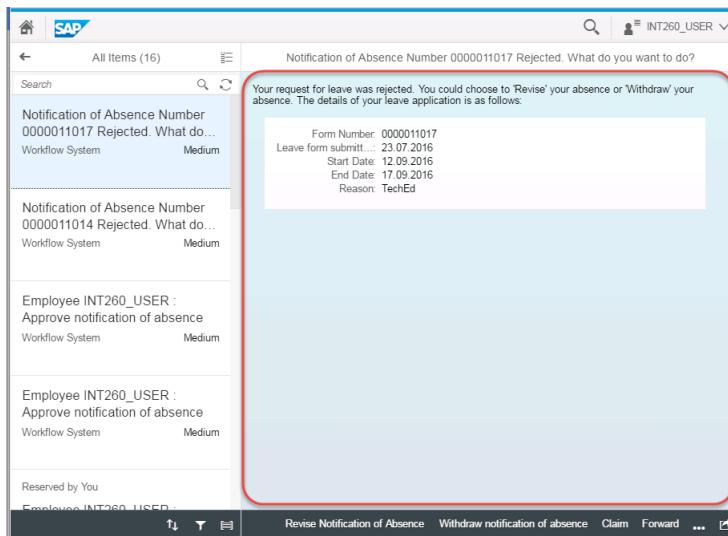
You will take on a consultant role in this section. Let's provide a more simple and easy way for handling a custom workflow.

**Assignment:**

- Create a dedicated tile for only Approve notification of absence



- Display developed custom app in the detail view of My Inbox when a user selects revise the request in the user decision step.



### 5.1 Create a task specific tile. Part 1 - Define Scenarios. [Frontend server]

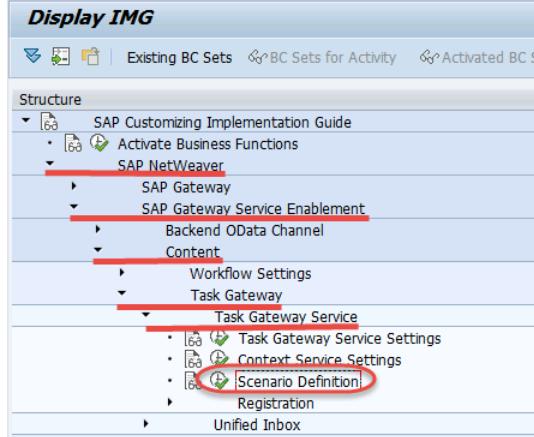
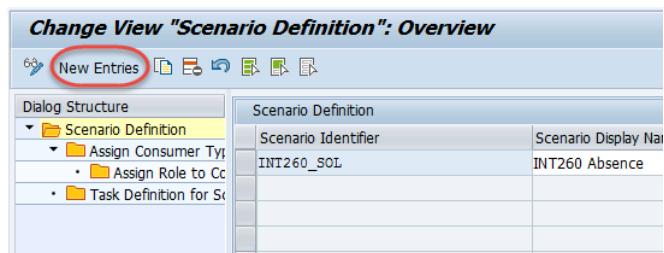
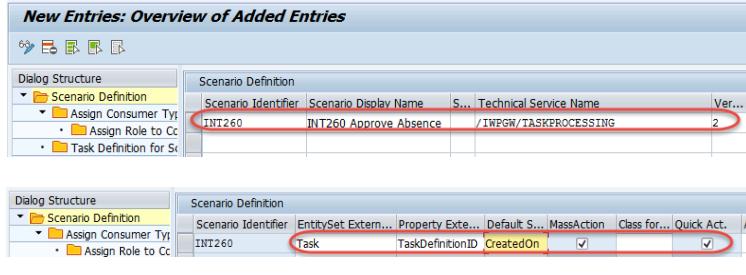
To create a dedicated tile for Approve Notification of absence, scenario ID is required.

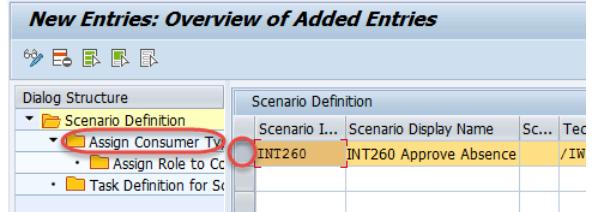
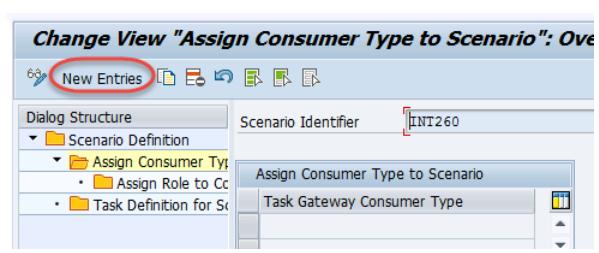
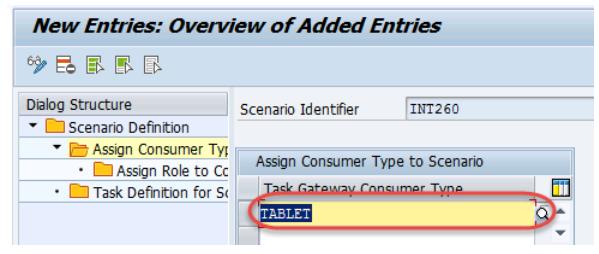
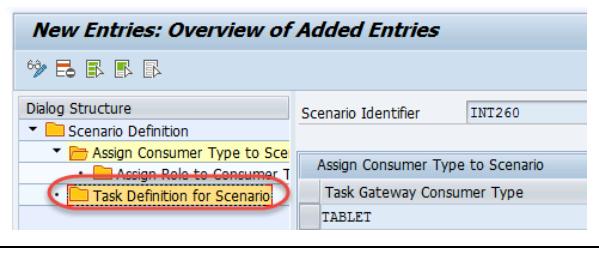
**Assignment:**

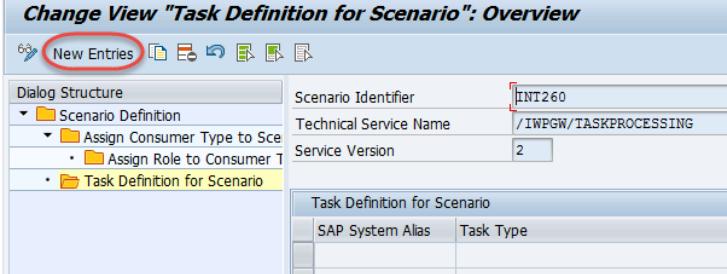
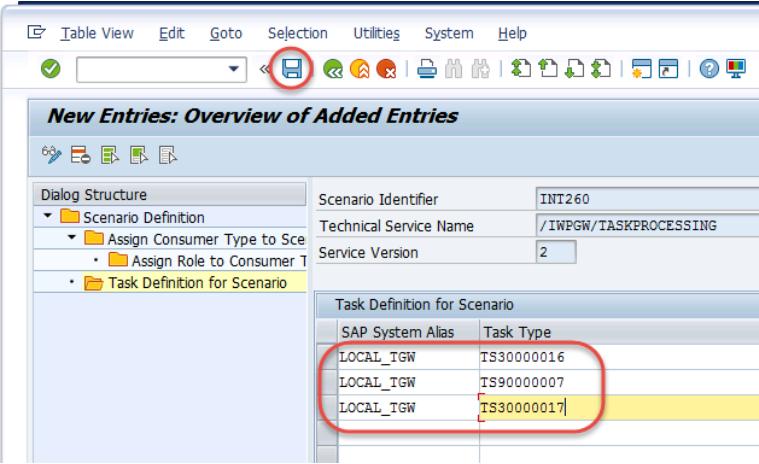
- Define a scenario ID for Approve notification of absence.

**Reference document and help:**

[Defining the Workflow Scenario](#)

Explanation	Screenshot
<p>1. Go to the transaction <code>/nSPRO -&gt; SAP Reference IMG</code>.</p> <p>Navigate to the <i>Scenario Definition</i>.  <i>SAP NetWeaver -&gt; SAP Gateway Service Enablement -&gt; Content -&gt; Task Gateway -&gt; Task Gateway service -&gt; Scenario Definition</i></p>	
<p>2. Choose New Entries.</p>	
<p>3. Add an entry:          (All case sensitive)          Scenario ID: <code>INT260</code>          Display name: any          Technical Service name:  <code>/IWPGW/TASKPROCESSING</code>          Version: 2          EntitySet External Name: <code>Task</code>          Property External Name:  <code>TaskDefinitionID</code>          Default Sort by Property:  <code>CreatedOn</code>          MassAction: X          Quick Act.: X</p> <p style="text-align: right;"> <a href="#">Copy</a>  <a href="#">Paste</a> </p> <p>Note: The Quick Action is used in touch devices.</p>	

Explanation	Screenshot
4. Save and <i>confirm</i> the customizing request.	
5. Select the entry <i>INT260</i> .  Then, double click the <i>Assign Consumer Type</i> node.	
6. Choose <i>New Entries</i> .	
7. Add an entry ' <i>TABLET</i> '.  Note: Tile visibility for device type is controlled in the tile definition. <i>TABLET</i> entry is required for a scenario definition.	
8. Double click the <i>Task Definition for Scenario</i> node.	

Explanation	Screenshot
9. Choose <i>New Entries</i> .	
10. Add 3 entries.  System Alias: LOCAL_TGW Task Type: TS30000016 Task Type: TS90000007 Task Type: TS30000017  Save the entries.  Note: TS30000016 is enough for approvers. Other tasks are for requesters. We added those tasks for testing the scenario without switching the user ID for an approver and a requester.	

**Recap:**

- Having multiple tiles for the My Inbox app based on tasks group helps approvers to get quick task volume.
- You can assign several tasks to a scenario ID.

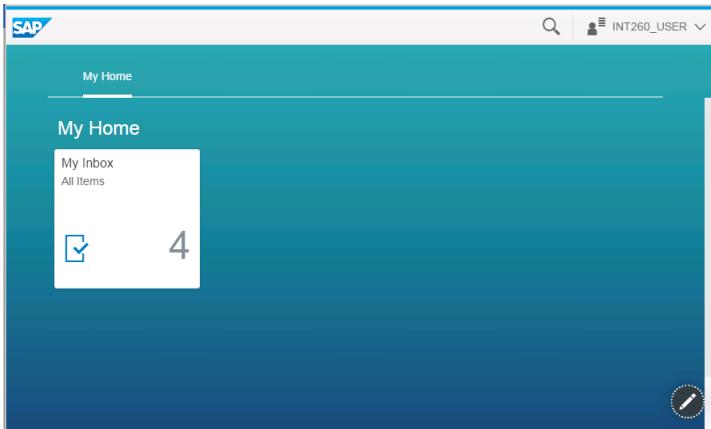
**5.2 Create a task specific tile. Part 2 – Create a catalog and a tile**

The previous section was preparation for creating a dedicated tile. You are going to create a custom catalog and a tile in the SAP Fiori Launchpad Designer in this section.

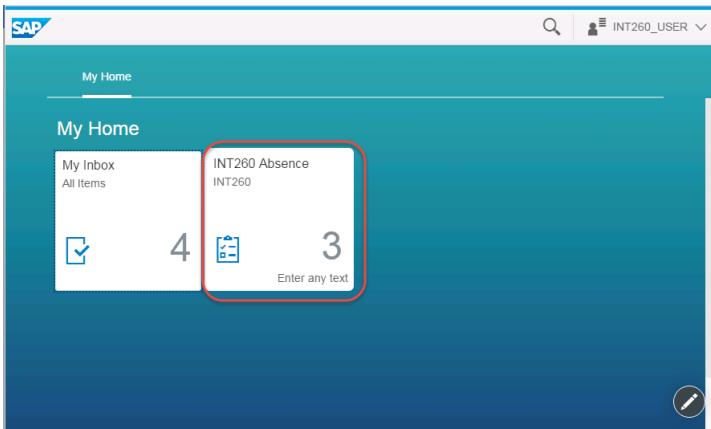
**Assignment:**

- Create a dedicated tile for only Approve notification of absence.

Before:



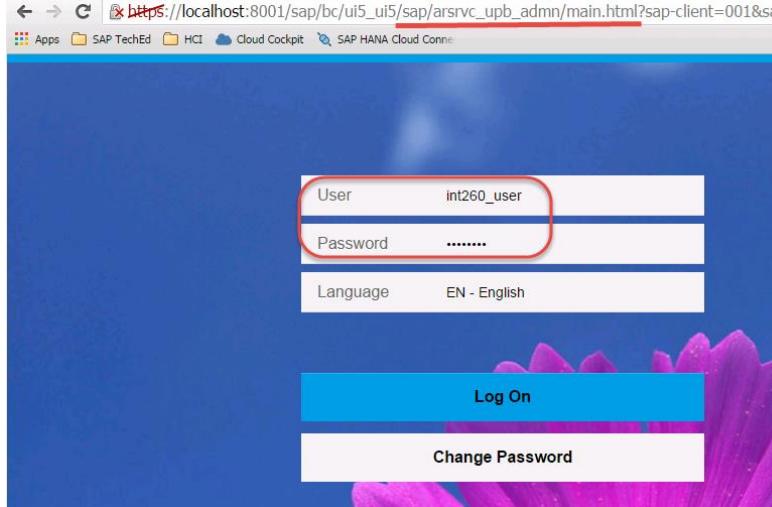
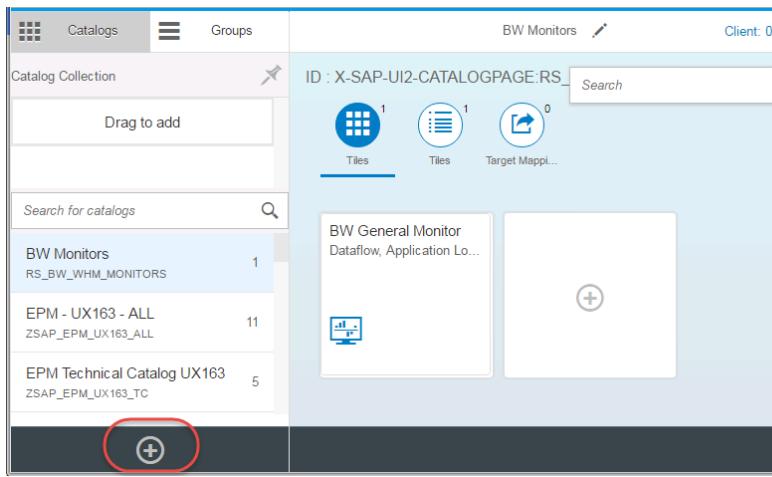
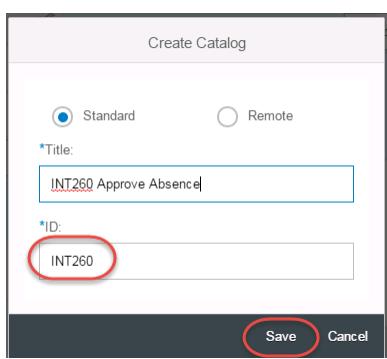
After:

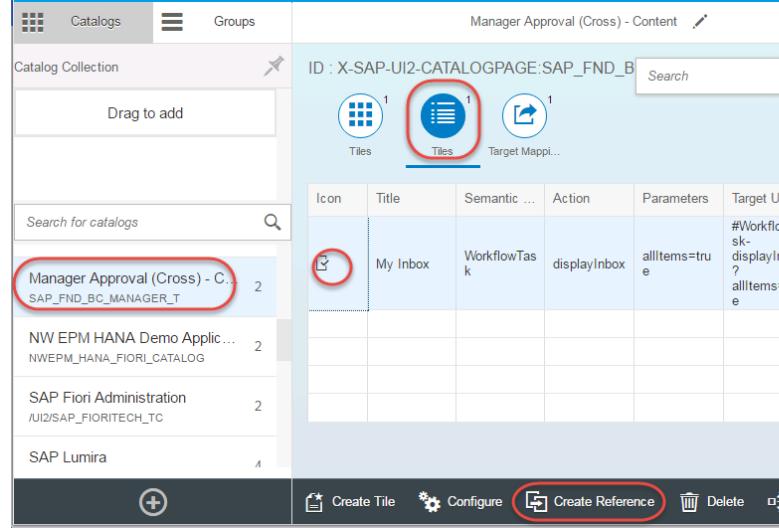
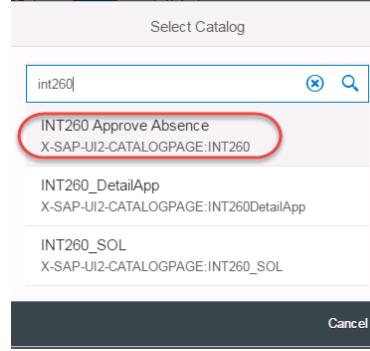
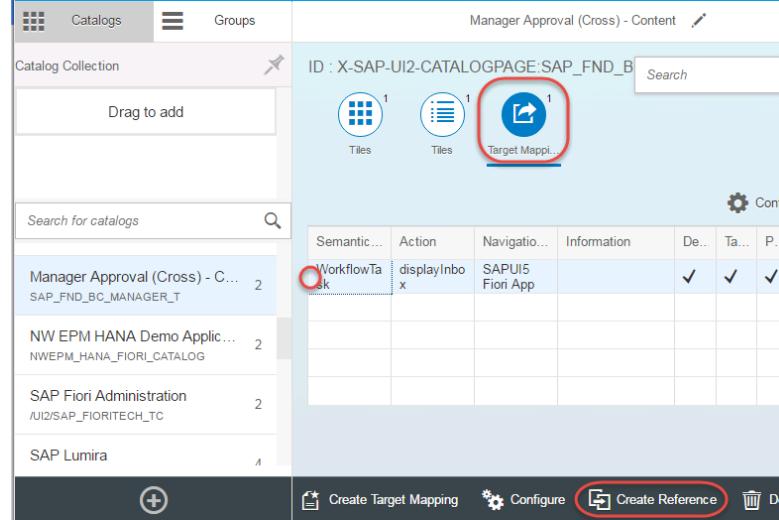


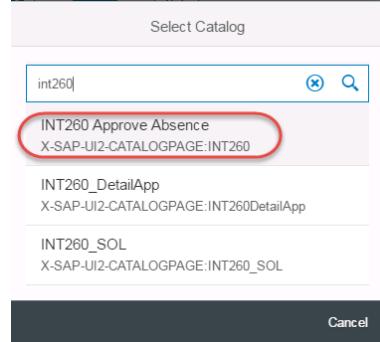
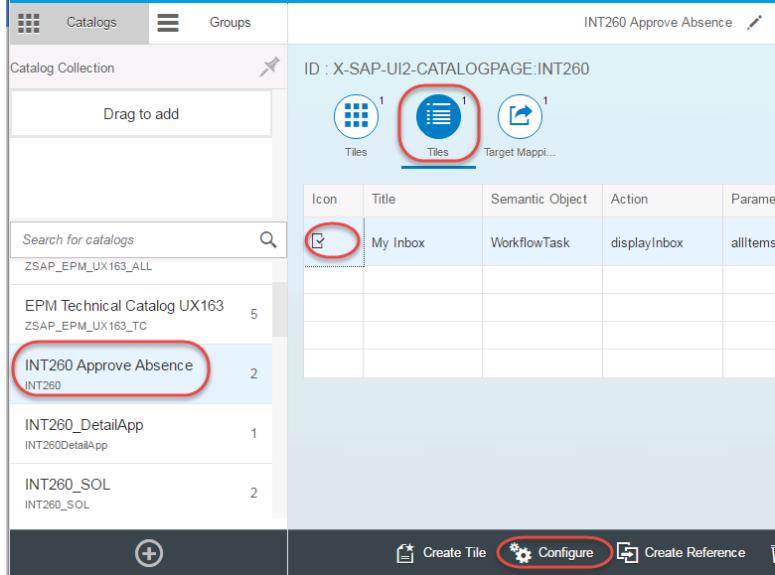
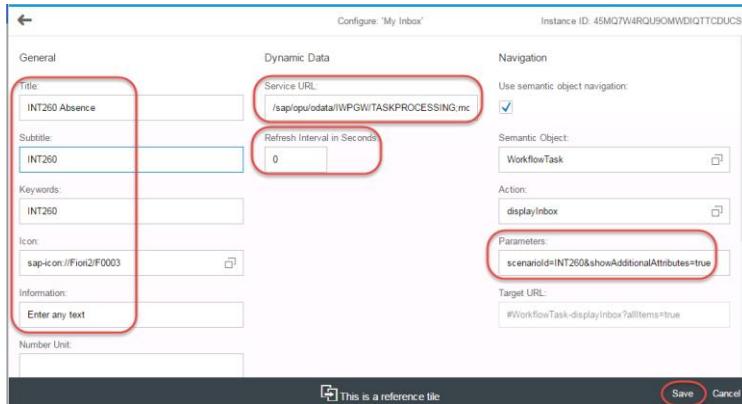
Reference document and help:

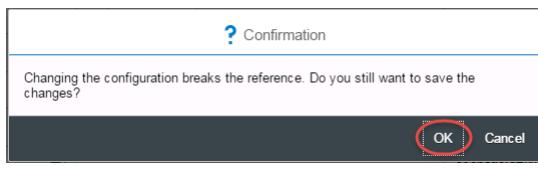
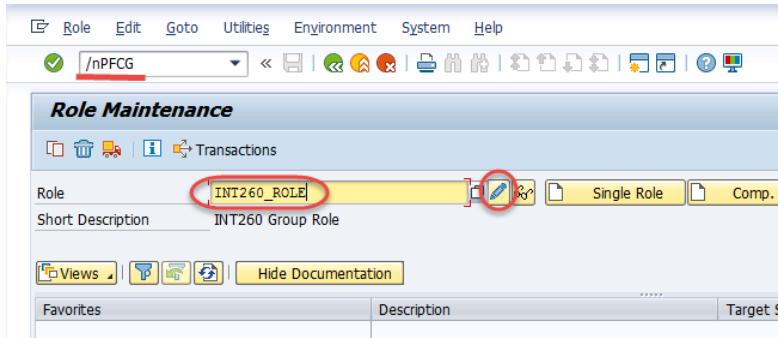
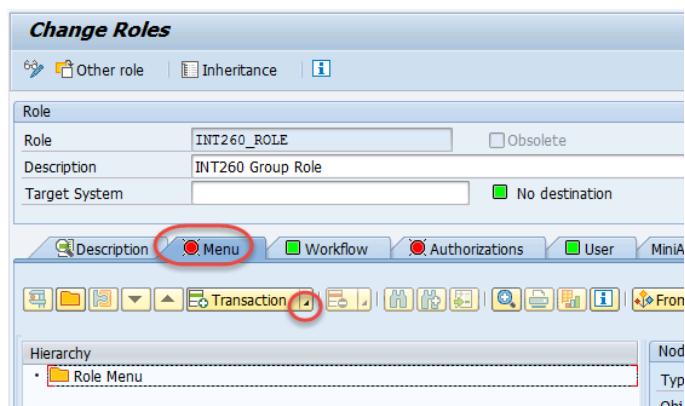
[Configuring the SAP Fiori Launchpad for Your Scenario-Specific Tiles](#)

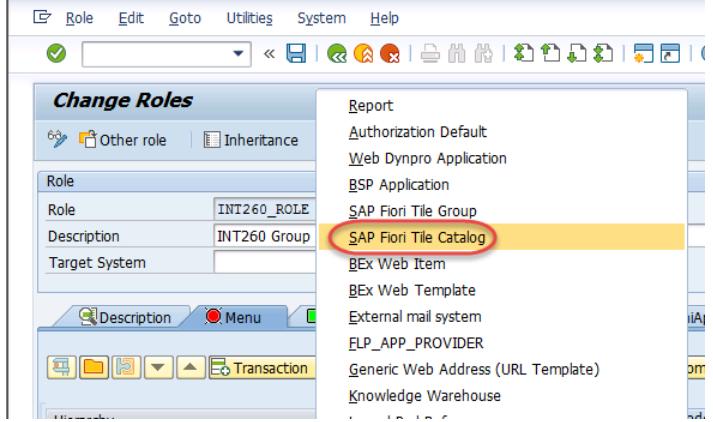
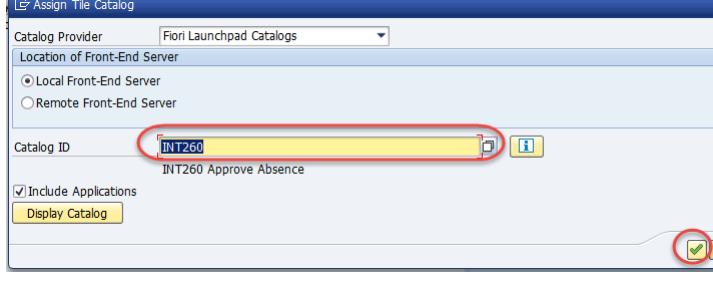
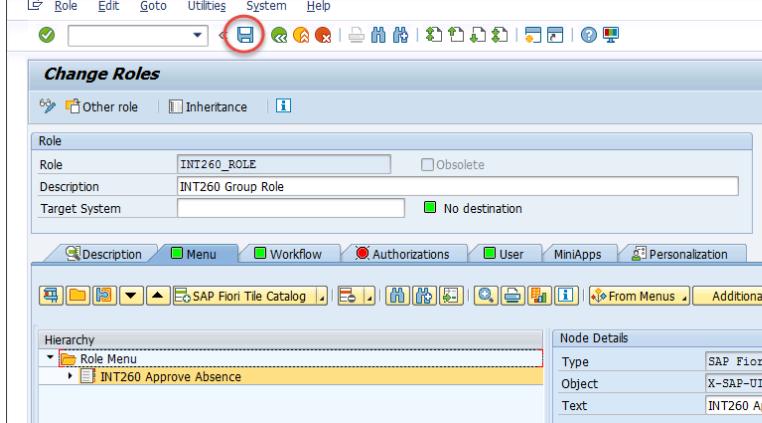
Explanation	Screenshot
<p>1. Open the <i>Launchpad Designer</i>.</p> <p><i>SAP TechEd -&gt; Session -&gt; INT260 -&gt; Launchpad Designer</i> in the bookmark bar.</p>	

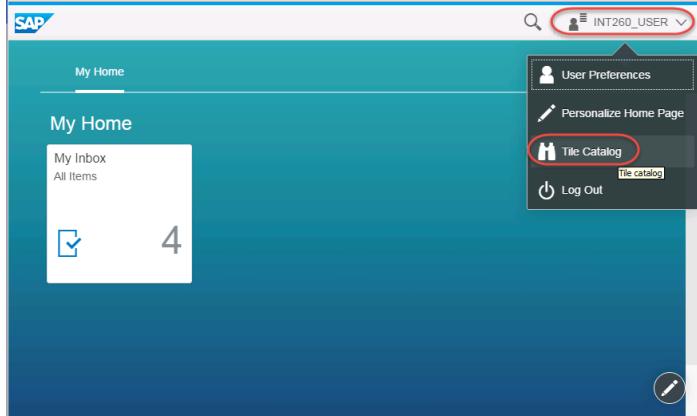
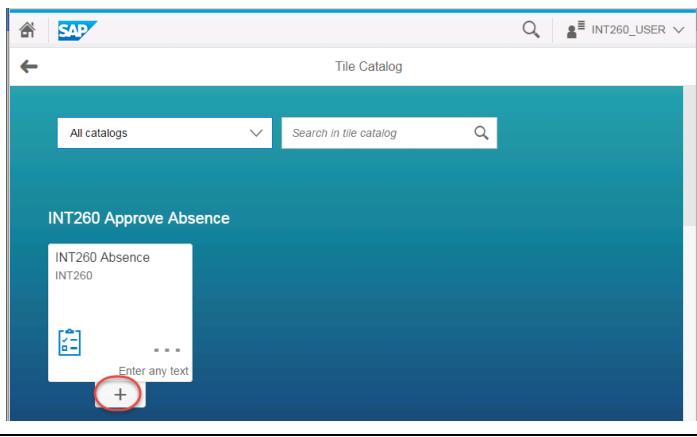
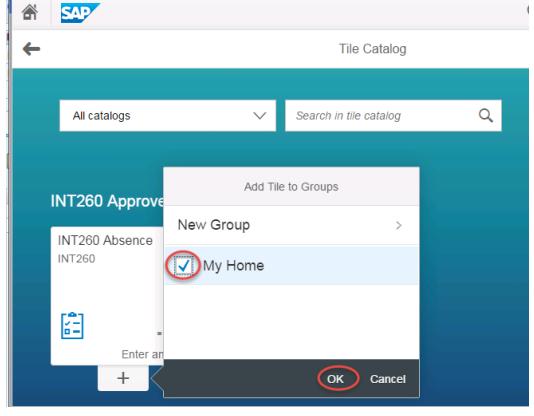
Explanation	Screenshot
<p>2. Logon with your user.</p> <p>User: <i>int260_user</i>    Password: <i>welcome1</i>    (lower case)</p> <p>Note: If you already have a browser session to the Launchpad, you will directly get to the Launchpad Designer page without logon screen.</p>	 <p>The screenshot shows the SAP HANA Cloud Conn logon screen. The URL in the address bar is https://localhost:8001/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html?sap-client=001&amp;sap-client=001. The logon form has 'User' set to 'int260_user' and 'Password' set to 'welcome1'. Both fields are highlighted with a red oval. Below the form are buttons for 'Log On' and 'Change Password'.</p>
<p>3. Create a catalog.</p> <p>Choose the + icon from the bottom left.</p>	 <p>The screenshot shows the Catalog Collection screen. It displays a list of catalogs like 'BW Monitors' and 'EPM - UX163 - ALL'. At the bottom left, there is a large blue '+' button, which is highlighted with a red oval.</p>
<p>4. Enter the Tile name and catalog ID.</p> <p>Title: any text    ID: <i>INT260</i> (case sensitive)  <input type="button" value="Copy"/> <input type="button" value="Paste"/></p> <p>Save the catalog.</p>	 <p>The screenshot shows the 'Create Catalog' dialog box. It has two radio buttons: 'Standard' (selected) and 'Remote'. The 'Title' field contains 'INT260 Approve Absence' and the 'ID' field contains 'INT260'. Both fields are highlighted with a red oval. At the bottom are 'Save' and 'Cancel' buttons, with 'Save' highlighted with a red oval.</p>

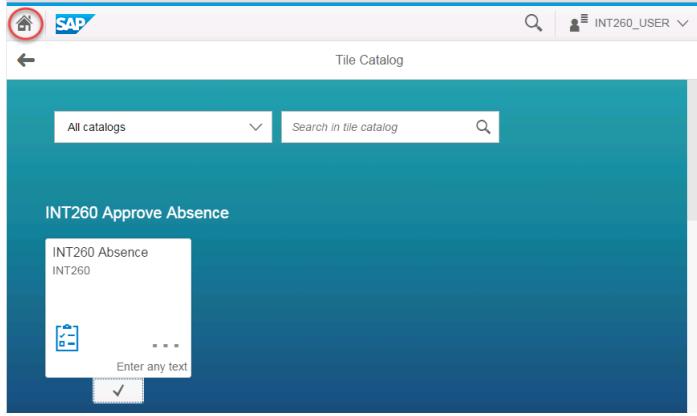
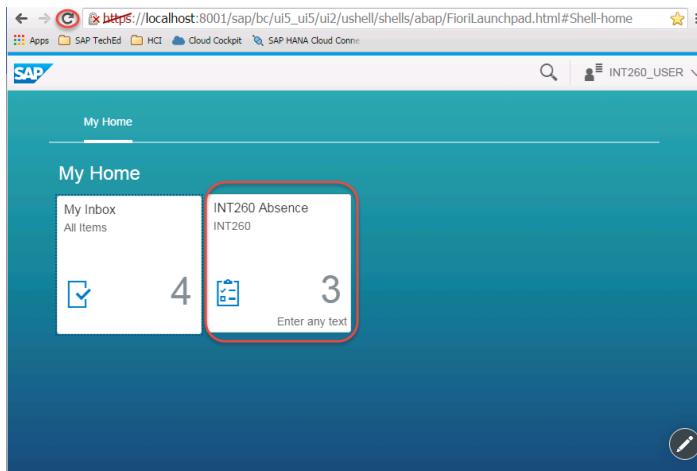
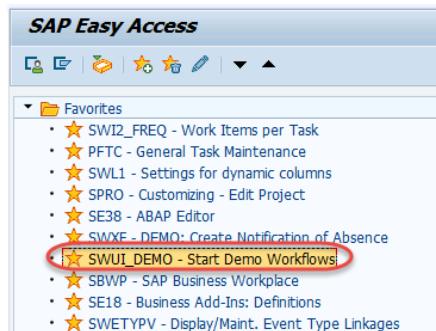
Explanation	Screenshot
<p>5. Copy the tile and target mapping from SAP standard delivery.</p> <p>Go to the catalog <b>SAP_FND_BC_NAMAGER_T</b>.</p> <p>Choose the <i>Tiles</i> tab.</p> <p>Choose the first entry.</p> <p>Choose <i>Create Reference</i> button.</p>	
<p>6. Select the catalog <i>INT260 Approve Absence</i>.</p>	
<p>7. Go to the <i>Target mapping</i> tab.</p> <p>Choose the first entry.</p> <p>Choose the <i>Create Reference</i> button.</p>	

Explanation	Screenshot
<p>8. Select the catalog <i>INT260 Approve Absence</i>.</p>	
<p>9. Go to the catalog <i>INT260 Approve Absence</i>. Tile and Target Mapping are copied. It is a reference copy. It means definition is in the SAP standard. Choose the <i>Tiles</i> tab. Choose the first entry. Choose the <i>Configure</i> button.</p>	
<p>10. Change the tile definition to show scenario specific only. Enter text in the general section. Choose any Icon you like. Service URL is, <code>/sap/opu/odata/IWPGW/TASKPROCESSING;mo;v=2/ScenarioCollection?\$filter=key eq 'INT260'</code> (case sensitive) <code>Copy</code> <code>Paste</code> Refresh Interval: any seconds.</p>	

Explanation	Screenshot
<p>Navigation parameters is,  <code>scenarioid=INT260&amp;showAdditionalAttributes=true</code>          (case sensitive. Lower case scenario+ upper case I + lowercase d)</p> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> <a href="#">Copy</a>  <a href="#">Paste</a> </div>	
<p>11. Confirm the changes.</p> <p>Note: You have changed the definition and it is no longer a reference copy.</p>	
<p>12. Go to the transaction <code>/nPFCG</code>.</p> <p>Change the role <code>INT260_ROLE</code>.</p> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> <a href="#">Copy</a>  <a href="#">Paste</a> </div> <p>Note: INT260_ROLE was created by the trainer.</p>	
<p>13. Go to the <i>Menu</i> tab.</p> <p>Choose the corner of the Transaction button.</p>	

Explanation	Screenshot
14. Choose the SAP Fiori Tile Catalog.	 <p>The screenshot shows the SAP Fiori Change Roles dialog. In the catalog list on the right, the "SAP Fiori Tile Catalog" option is highlighted with a yellow background and has a red circle around it.</p>
15. Choose the catalog ID /INT260.	 <p>The screenshot shows the Assign Tile Catalog dialog. The Catalog ID field contains "INT260", which is highlighted with a yellow background and has a red circle around it. A green checkmark icon is located at the bottom right of the dialog.</p>
16. Save the role.  Note: INT260* users have this role. It means those users have access to the catalog INT260.	 <p>The screenshot shows the SAP Fiori Change Roles dialog again. The "Catalog" tab is selected, showing the "SAP Fiori Tile Catalog" assigned to the role. A red circle highlights the save icon (floppy disk) in the toolbar at the top left of the dialog.</p>

Explanation	Screenshot
<p>17. Go back to the SAP Fiori Launchpad and access the Tile Catalog from the User option.</p> <p><i>INT260_USER -&gt; Tile Catalog.</i></p>	
<p>18. The INT260 Approve Absence catalog is available.</p> <p>Choose the + icon at the bottom the tile.</p> <p>Note: If INT260 catalog is not visible, reload the browser page.</p>	
<p>19. Add INT260 Absence tile to your <i>My Home</i> group.</p> <p>Choose <i>My Home</i>.</p> <p>Choose <i>OK</i>.</p>	

Explanation	Screenshot
<p>20. Go back to home.</p> <p>Choose the <i>home</i> icon from the top left.</p>	
<p>21. Refresh the browser.</p> <p>The dedicated tile for Approve absence tile is available.</p> <p>The app shows the count for Notification of absence only. Now the approver can easily know how many items have to be processed for the specific task.</p> <p>You can create a new Notification of Absence in the transaction /nSWXF.</p>	
<p>22. (Optional) If you get the same count on both tiles, you can create some other workflow scenarios.</p> <p>Go to transaction /nSWUI_DEMO.</p>	

Explanation	Screenshot														
<p>23. (Optional) Choose <i>demotoolbox</i> and start demo workflow.</p> <p>5 count will be added on the standard My Inbox tile.</p>	<p><b>Start Demo Workflows</b></p> <p>Workflow outbox Business Workplace Set up workflows</p> <p>Select Workflow</p> <table border="1"> <thead> <tr> <th>Object abbr.</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>demoformabs</td> <td>Demo for notification of absence process</td> </tr> <tr> <td>demoforms</td> <td>Demo for workflow forms</td> </tr> <tr> <td>demoprevexec</td> <td>Demo for WI execution in preview</td> </tr> <tr> <td>demoprevexit</td> <td>Demo for user exit on WI preview</td> </tr> <tr> <td>demoterm</td> <td>Demo for explicit end confirmation</td> </tr> <tr> <td><b>demotoolbox</b></td> <td><b>Demo for WI execution with WF toolbox</b></td> </tr> </tbody> </table> <p>Demo for WI execution with WF toolbox</p> <p>Start Start with details</p> <p>Demo Guide</p> <p>This workflow demonstrates the WI transaction.</p> <p>The Workflow Toolbox can be integrated under the control of workflows in</p>	Object abbr.	Name	demoformabs	Demo for notification of absence process	demoforms	Demo for workflow forms	demoprevexec	Demo for WI execution in preview	demoprevexit	Demo for user exit on WI preview	demoterm	Demo for explicit end confirmation	<b>demotoolbox</b>	<b>Demo for WI execution with WF toolbox</b>
Object abbr.	Name														
demoformabs	Demo for notification of absence process														
demoforms	Demo for workflow forms														
demoprevexec	Demo for WI execution in preview														
demoprevexit	Demo for user exit on WI preview														
demoterm	Demo for explicit end confirmation														
<b>demotoolbox</b>	<b>Demo for WI execution with WF toolbox</b>														

**Recap:**

- A dedicated tile for specific tasks gives quick info without opening the My Inbox app.

### 5.3 Call the custom app from My Inbox. Part 1 - SWFVISU configuration [Backend server]

When a Notification of Absence is rejected by an approver, the workitem goes back to the requester. It is a user decision step and it asks the requester to revise or withdraw the absence.

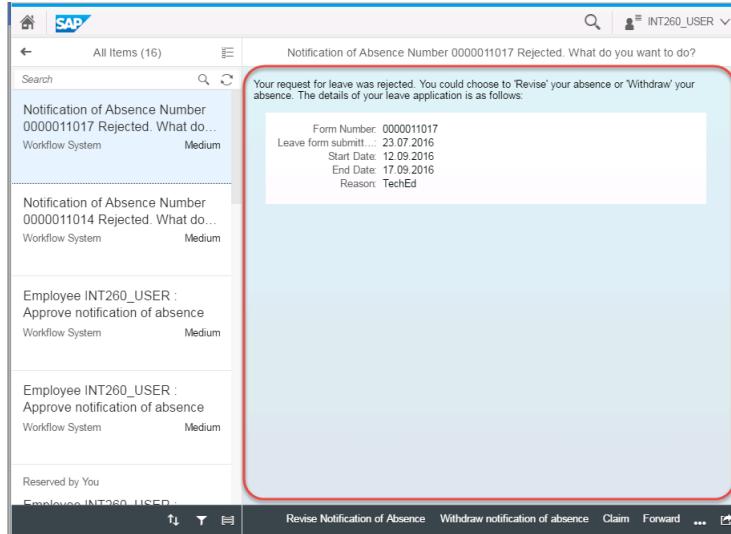
You are going to use Intent Based navigation for displaying Notification of Absence data.

**Assignment:**

- Embed the custom app view in the detail view of My Inbox.

Before:

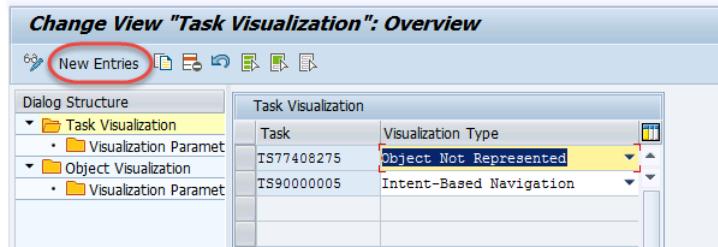
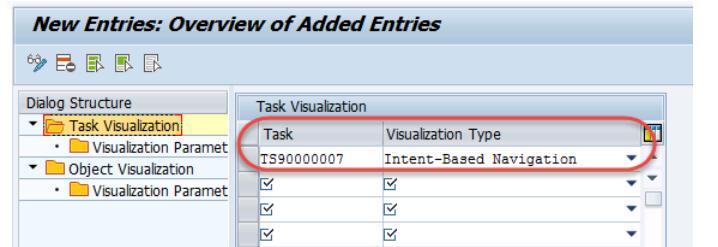
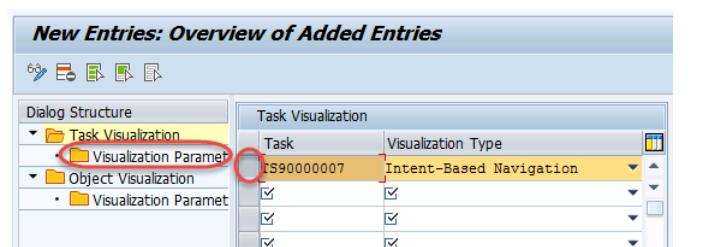
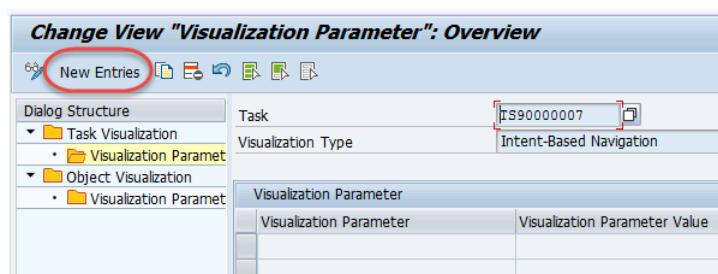
After:



### Reference document and help:

[2305401](#) - Integration of SAPUI5 Fiori Applications into My Inbox 2.0

Explanation	Screenshot
1. Go to the transaction /nSWFVISU.	The screenshot shows the SAP Easy Access interface. Under the Favorites section, the entry "/nSWFVISU - Workflow Visualization Metadata" is highlighted with a red circle.
2. Confirm the cross-client caution.	A dialog box titled "Information" displays the message "Caution: The table is cross-client". At the bottom right, there are two buttons: a green checkmark button and a yellow question mark button, both circled in red.

Explanation	Screenshot						
3. Choose <i>New Entries</i> .	 <p>Task Visualization</p> <table border="1"> <thead> <tr> <th>Task</th> <th>Visualization Type</th> </tr> </thead> <tbody> <tr> <td>TS77408275</td> <td>Object Not Represented</td> </tr> <tr> <td>TS90000005</td> <td>Intent-Based Navigation</td> </tr> </tbody> </table>	Task	Visualization Type	TS77408275	Object Not Represented	TS90000005	Intent-Based Navigation
Task	Visualization Type						
TS77408275	Object Not Represented						
TS90000005	Intent-Based Navigation						
4. Add an entry.  Task: TS90000007 Visualization Type: Intent-Based Navigation.  Copy Paste	 <p>Task Visualization</p> <table border="1"> <thead> <tr> <th>Task</th> <th>Visualization Type</th> </tr> </thead> <tbody> <tr> <td>TS90000007</td> <td>Intent-Based Navigation</td> </tr> </tbody> </table>	Task	Visualization Type	TS90000007	Intent-Based Navigation		
Task	Visualization Type						
TS90000007	Intent-Based Navigation						
5. Choose the TS90000007 entry.  Double click the <i>Visualization Parameter</i> node.	 <p>Task Visualization</p> <table border="1"> <thead> <tr> <th>Task</th> <th>Visualization Type</th> </tr> </thead> <tbody> <tr> <td>TS90000007</td> <td>Intent-Based Navigation</td> </tr> </tbody> </table>	Task	Visualization Type	TS90000007	Intent-Based Navigation		
Task	Visualization Type						
TS90000007	Intent-Based Navigation						
6. Choose <i>New Entries</i> .	 <p>Task</p> <table border="1"> <thead> <tr> <th>Visualization Parameter</th> <th>Visualization Parameter Value</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Visualization Parameter	Visualization Parameter Value				
Visualization Parameter	Visualization Parameter Value						

Explanation	Screenshot
<p>7. Add 4 entries.</p> <p>Note: It is case sensitive.</p> <p>SEMANTIC_OBJECT: inboxdetailApp</p> <p>ACTION: <i>display</i></p> <p>QUERY_PARAM00: formNumber={&amp;FORMNUMBER&amp;R&amp;}</p> <p>QUERY_PARAM01: workItemId={WORKITEM}</p> <p><a href="#">Copy</a> <a href="#">Paste</a></p>	
<p>8. Save and <i>confirm</i> the workbench request.</p>	

**Recap:**

SWFVISU is the configuration transaction for task visualization. Intent-Based navigation is one of the types.

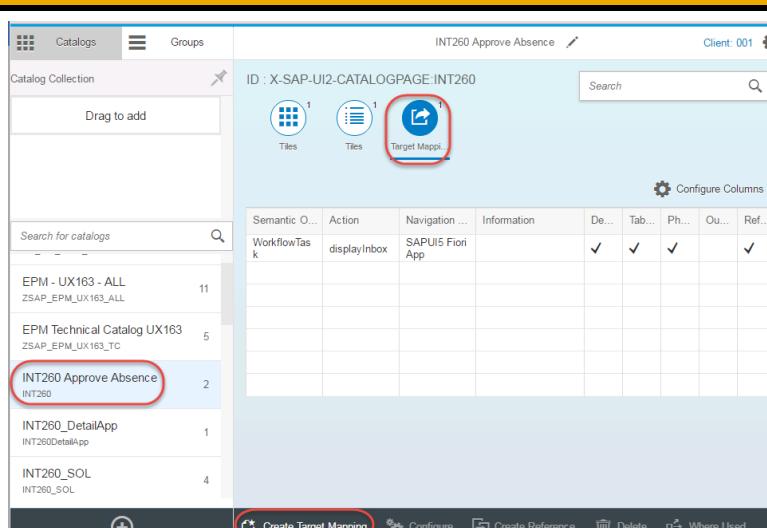
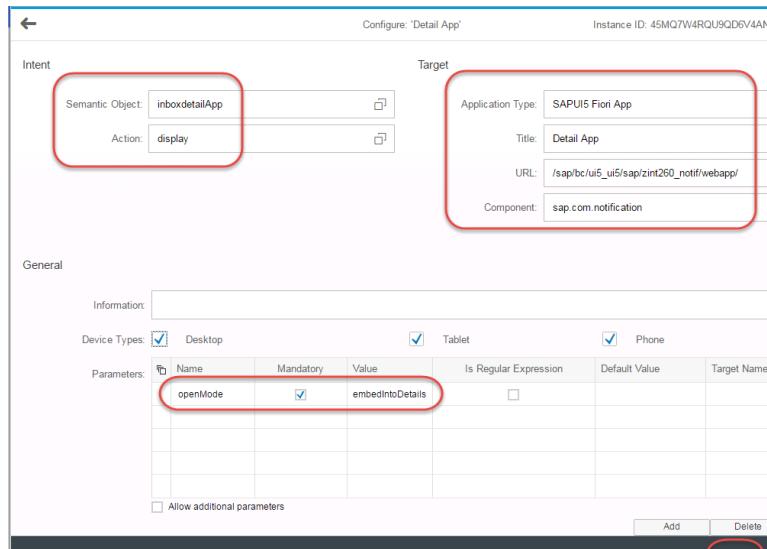
#### 5.4 Call the custom app from My Inbox. Part 2 - Define target mapping

You are going to use Intent Based navigation for displaying Notification of Absence data.  
A target mapping is required.

**Assignment:**

- Define a target mapping for the custom app.

Explanation	Screenshot
-------------	------------

Explanation	Screenshot						
<p>1. Go back to the Launchpad Designer.</p> <p>Open the <i>INT260 Approve Absence</i> catalog.</p> <p>Go to the <i>Target Mapping</i> tab.</p> <p>Choose <i>Create Target Mapping</i>.</p>							
<p>2. Enter the following.</p> <p><b>Intent</b></p> <ul style="list-style-type: none"> <li>Semantic Object: <i>inboxdetailApp</i></li> <li>Action: <i>display</i></li> </ul> <p><b>Target</b></p> <ul style="list-style-type: none"> <li>Application Type: <i>SAPUI5 Fiori App</i></li> <li>Title: <i>Detail App</i></li> <li>URL: <i>/sap/bc/ui5_ui5/sap/zint260_notif/webapp/</i></li> <li>Component: <i>sap.com.notification</i></li> </ul> <p><b>General</b></p> <p>Parameters:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Mandatory</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td><i>openMode</i></td> <td><input checked="" type="checkbox"/></td> <td><i>embedIntoDetails</i></td> </tr> </tbody> </table> <p>Save the entry.</p>	Name	Mandatory	Value	<i>openMode</i>	<input checked="" type="checkbox"/>	<i>embedIntoDetails</i>	
Name	Mandatory	Value					
<i>openMode</i>	<input checked="" type="checkbox"/>	<i>embedIntoDetails</i>					

### Recap:

You can configure a target mapping for a custom application developed for your custom workflow scenario.

A mandatory parameter *openMode* with a valid value needs to be configured in the target mapping. The value influences how the application is integrated into My Inbox. The value '*embedIntoDetails*' has to be provided when the application should be embedded into the detail view on selection of a task. See note [2305401](#) - Integration of SAPUI5 Fiori Applications into My Inbox 2.0.

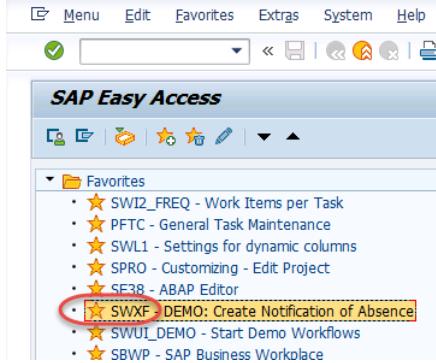
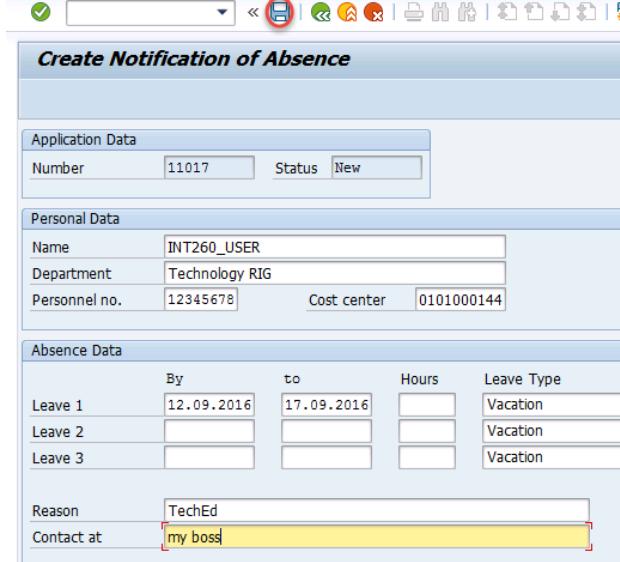


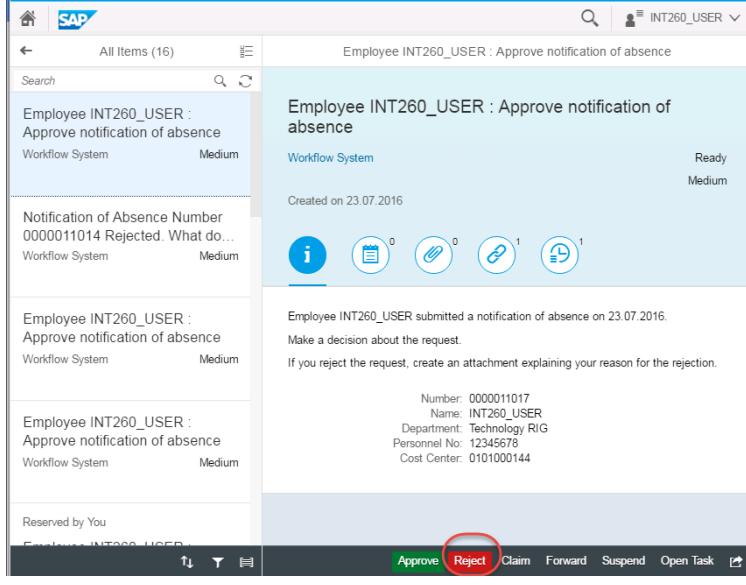
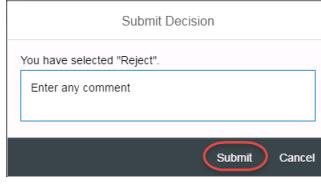
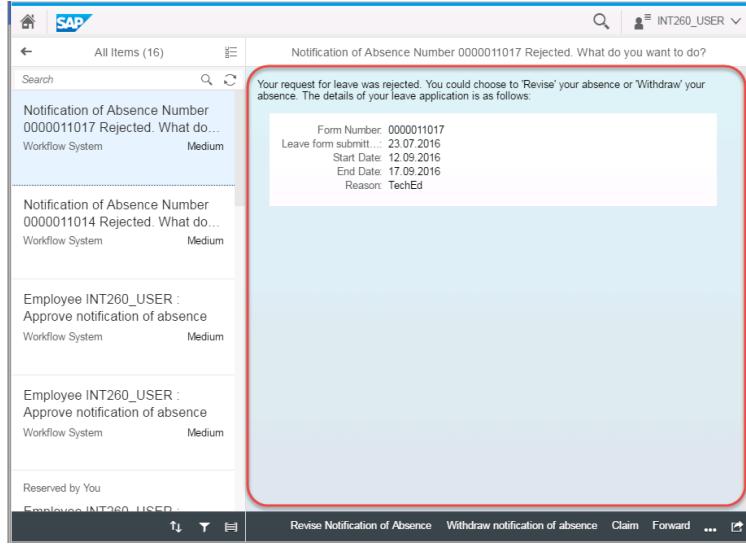
## 6 USER ROLE – TEST THE WORKFLOW

### 6.1 Test End-to-End flow

**Assignment:**

- Test the scenario.

Explanation	Screenshot
<p>1. Go to the transaction <code>/nSWXF</code>.</p>	 <p>The SAP Easy Access screen shows the Favorites menu. The transaction <code>/nSWXF - DEMO: Create Notification of Absence</code> is listed and highlighted with a red oval.</p>
<p>2. Create a Notification of Absence. Fill any text in the <i>Department</i>, <i>Personnel No</i> and <i>Reason</i>.</p>	 <p>The <i>Create Notification of Absence</i> dialog box is displayed. The <i>Application Data</i> section contains Number: 11017 and Status: New. The <i>Personal Data</i> section contains Name: INT260_USER, Department: Technology RIG, Personnel no.: 12345678, and Cost center: 0101000144. The <i>Absence Data</i> section shows three leave entries: Leave 1 (By: 12.09.2016, to: 17.09.2016, Hours: [empty], Leave Type: Vacation), Leave 2 (By: [empty], to: [empty], Hours: [empty], Leave Type: Vacation), and Leave 3 (By: [empty], to: [empty], Hours: [empty], Leave Type: Vacation). The <i>Reason</i> field contains TechEd, and the <i>Contact at</i> field contains my boss, which is highlighted with a red rectangle.</p>

Explanation	Screenshot
<p>3. Confirm that Notification of Absence data in the table format.</p> <p><i>Reject it.</i></p>	
<p>4. Enter any text.</p>	
<p>5. Confirm that the custom app view is embedded and original buttons are available.</p>	

### Recap:

You have learned how to integrate custom workflow scenarios and how to visualize business data in My Inbox.

## 7 CONSULTANT ROLE – OTHER EXTENSIBILITY OPTIONS

### 7.1 Search info in SAP Community Network

Please join SCN: SAP Community Network and find more information.

<http://scn.sap.com/docs/DOC-62602>

Here are some of selected documents and blogs.

Note [2118812 How to Extend SAP Fiori My Inbox](#).

Note [2305401 - Integration of SAPUI5 Fiori Applications into My Inbox 2.0](#)

[My Inbox - UI integration options](#)

[My Inbox - Open Task - SWFVISU configuration](#)

[Real Life Experiences Extending Fiori My Inbox](#)

### 7.2 I Like, I Wish

Please give us your comment. It would be nice if you add your comments in the blog.

Select “Add a comment” link at the end of the blog.

- Blog: <http://scn.sap.com/community/fiori/blog/2016/08/09/int260-my-inbox-extensibility-hands-on-at-theched-2016>

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