



INT260 – Adapt and Extend My Inbox for Your Own Workflows



Speakers

Las Vegas, Sept 19 - 23

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Bangalore, October 5 - 7

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Agenda

Introducing SAP Fiori My Inbox

- Snapshot, benefits and key features
- Architecture view

Scenario description

Demo

Session overview

- SAP Business Workflow customization
- My Inbox UI integration options
- Task Gateway configuration

Exercise

Introducing SAP Fiori My Inbox

My Inbox

User experience, benefits and key features

User Experience

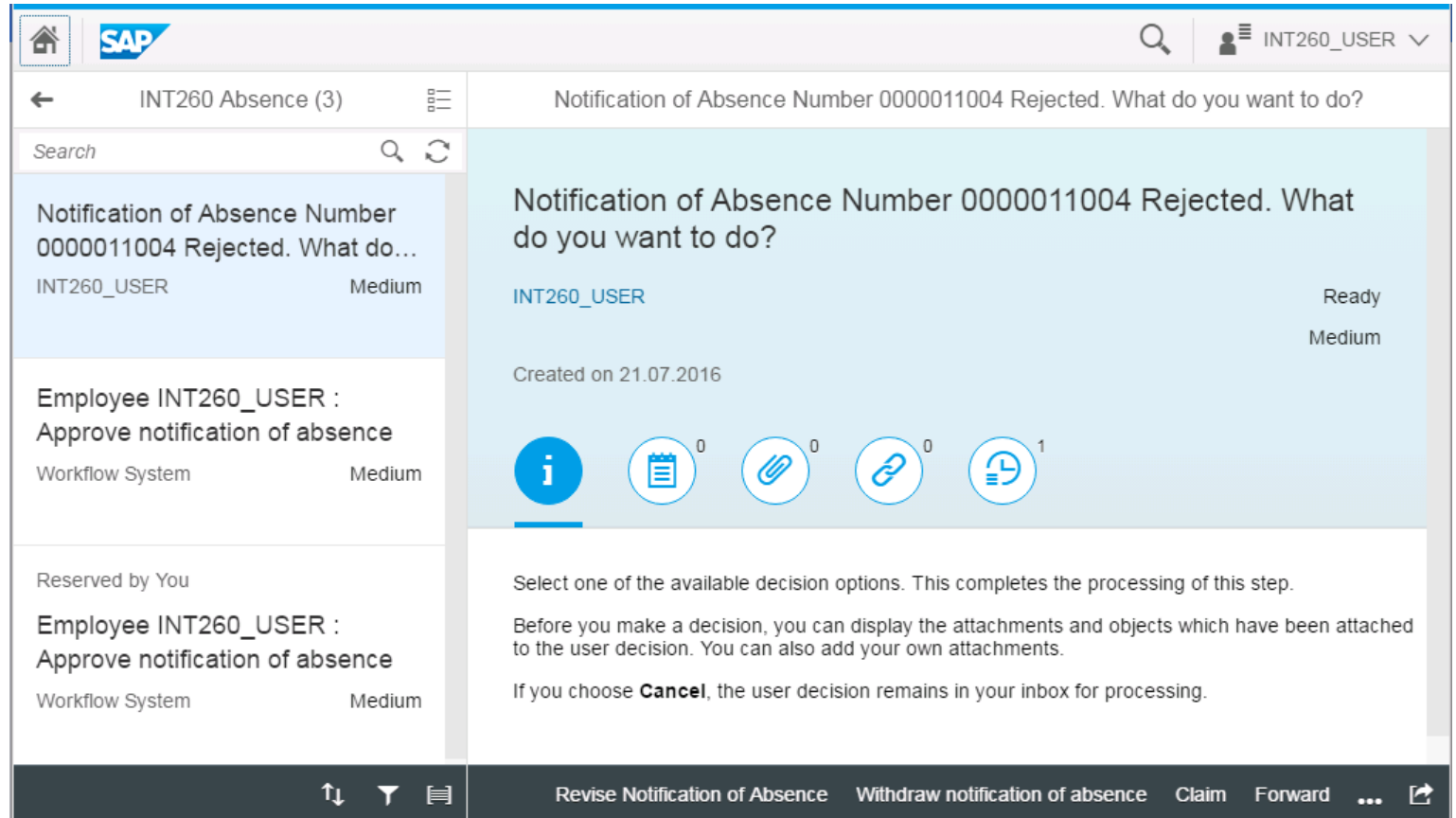
- Fully integrated into SAP Fiori Launchpad
- Responsive across devices

Benefits

- Manage tasks across different systems
- Access both SAP delivered and custom-built workflows

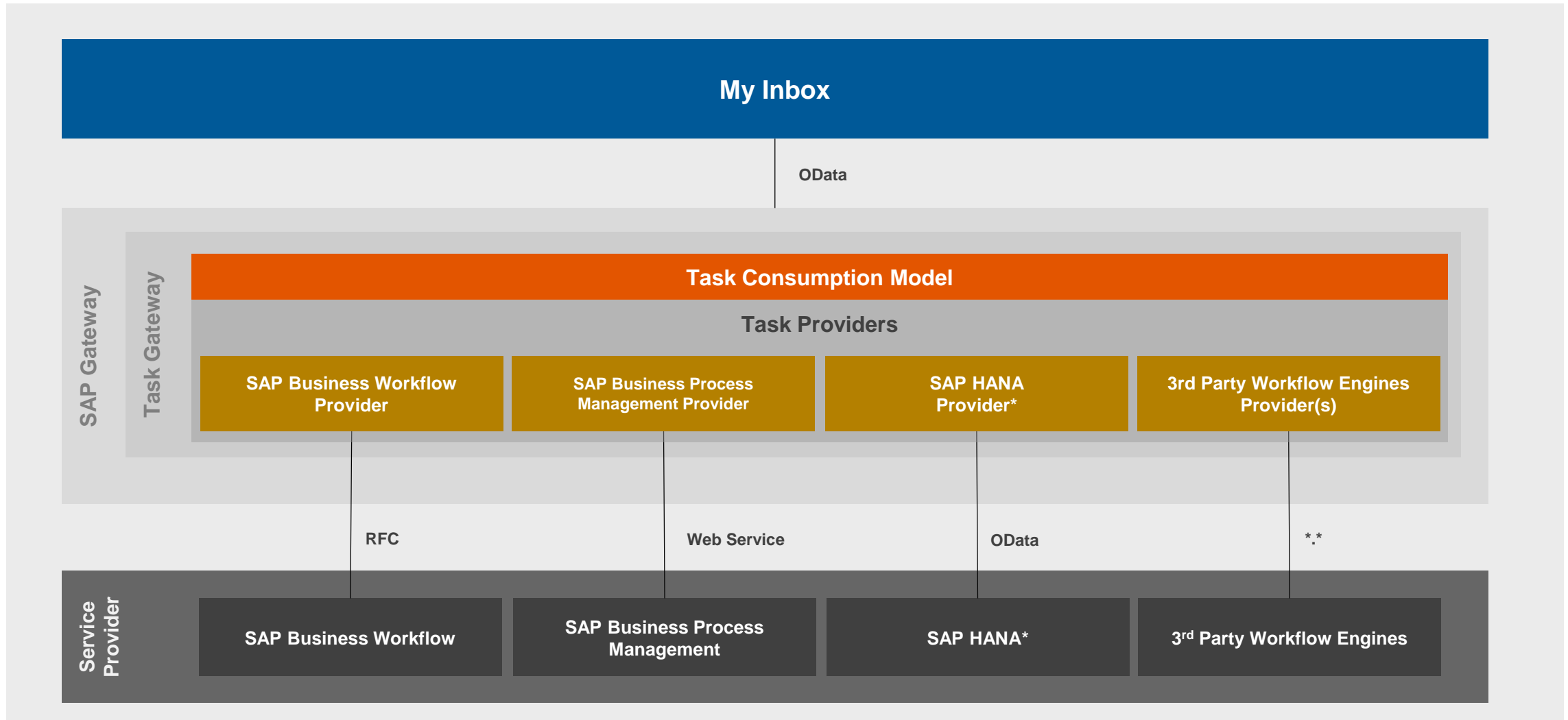
Key Features

- Full-text search, sorting and filtering
- Manage substitutions
- Mass approvals
- Share tasks via email or SAP JAM
- Supports Business Workflow and SAP BPM out of the box
- Provides API to connect to non SAP system



My Inbox, Task Gateway and Task Consumption Model

Architecture View



Scenario description

Notification of Absence Process

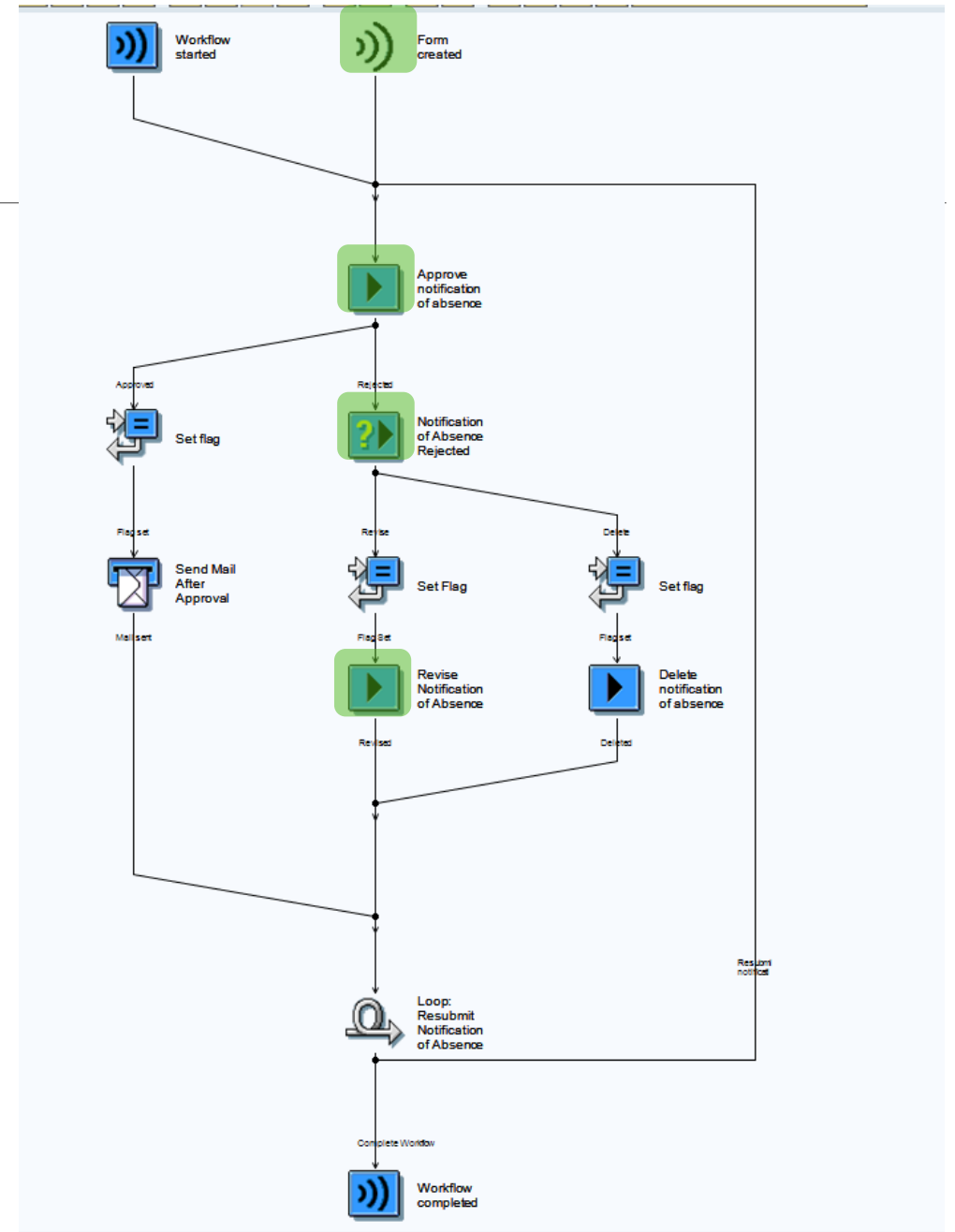
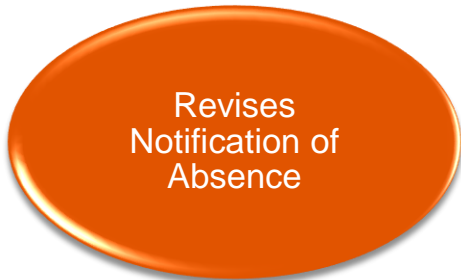
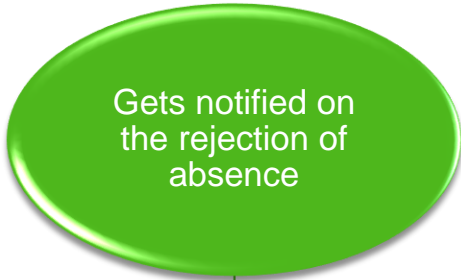
Demo Workflow : Shipped by SAP Business Workflow



Employee



Manager

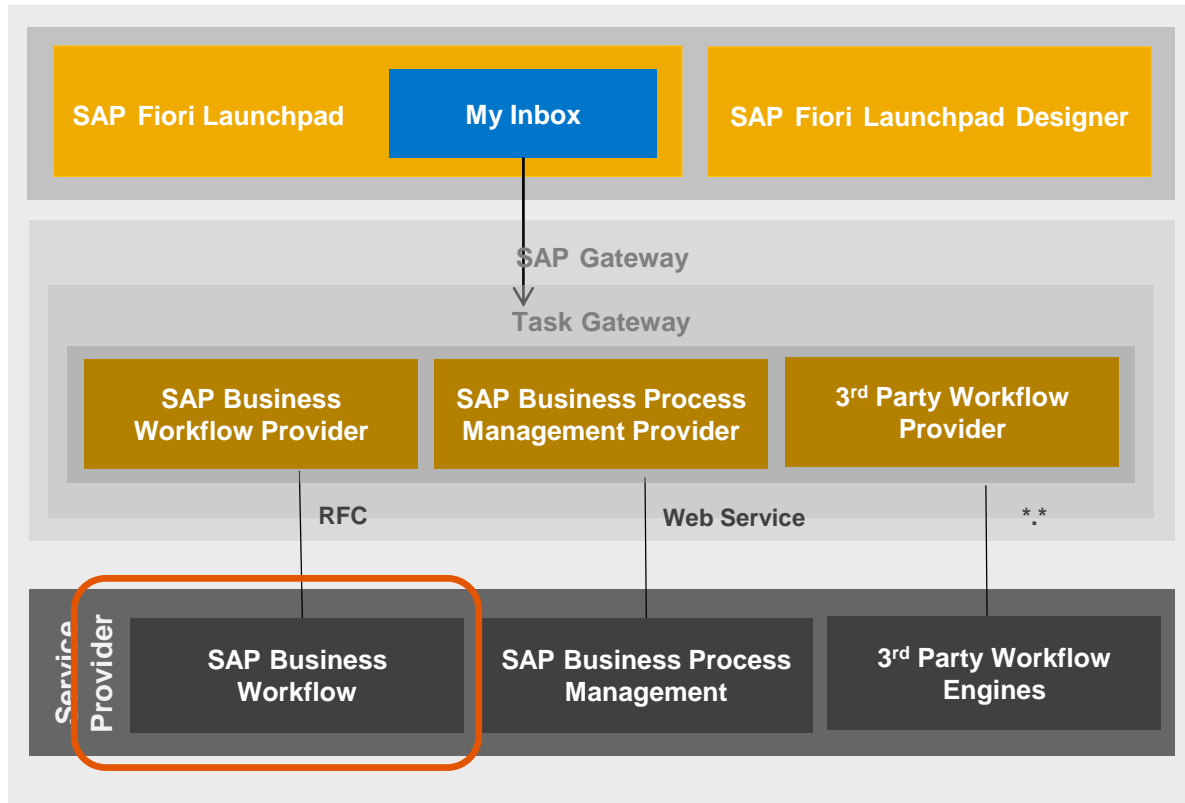




Demo

Session overview

Session overview

SAP Business Workflow customization



-  Extend Workflows to leverage My Inbox
- Configure business data 
 - Configure user decision actions

SAP Business Workflow customization

Configure business data

Configure Dynamic Columns : without BAdI implementation

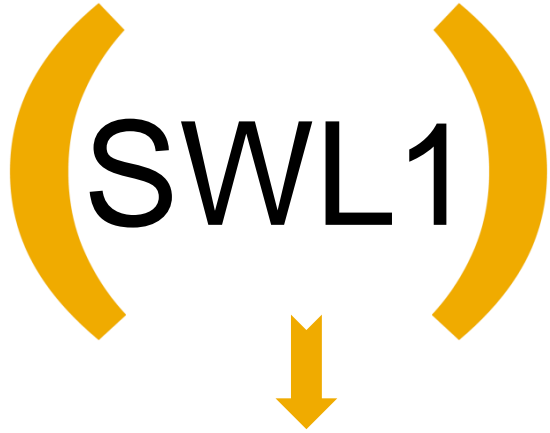
- Default BAdI implementation that would read Dynamic Columns from SAP Business Workflow
- Less maintenance
- Maintain data in transaction SWL1 and report 'RSWD_MAINTAIN_USER_ATTR'.

With BAdI implementation for '/IWWRK/BADI_TGW_CUSTOM_ATTR'

- Current approach followed by most customers
- Effort in maintaining ABAP code

SAP Business Workflow customization

Configure business data



Change View "Dynamic Columns for Business Workplace": Overview

New Entries

User	Task	Expression (first attr.)	Header (first attr.)
*	IS90000002	&WI_OBJECT_ID.NAME&	Name
*	IS90000005	&FORMNUMBER&	Absence Form Number



Employee INT260_USER : Approve notification of absence

Workflow System

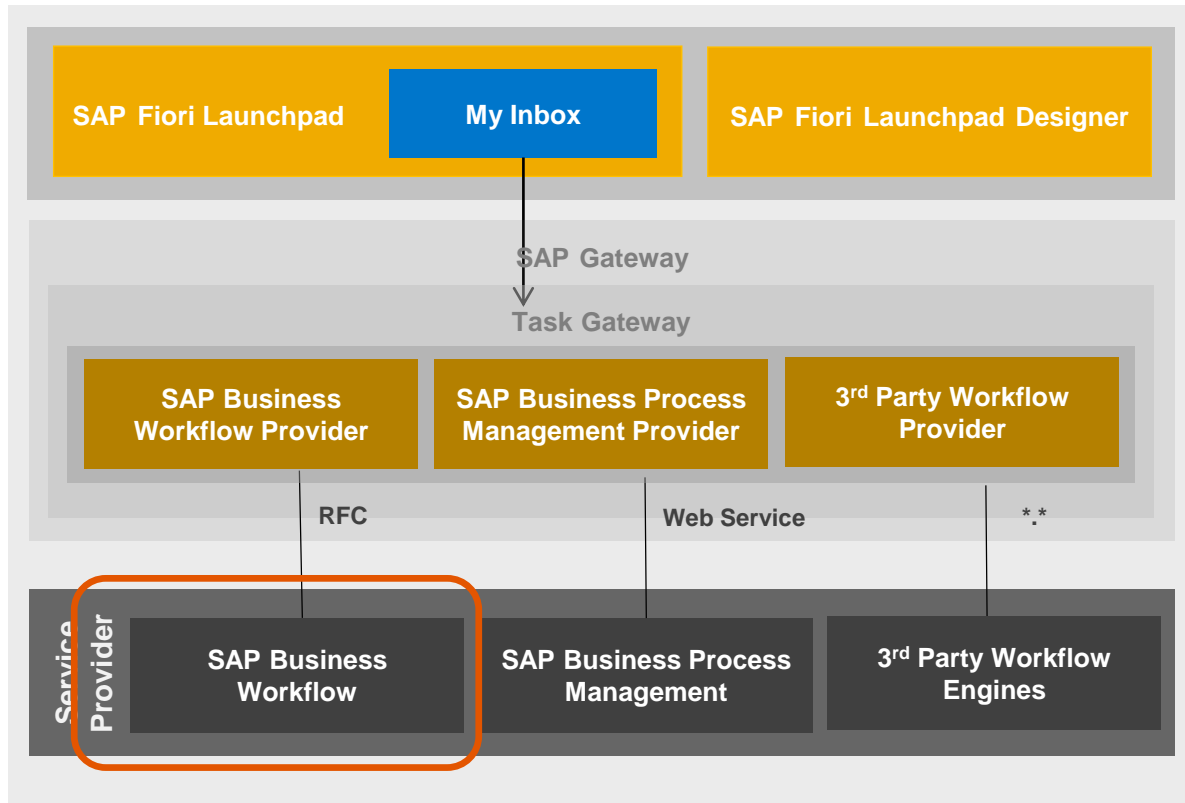
Created on 20.07.2016

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

Session overview

SAP Business Workflow customization

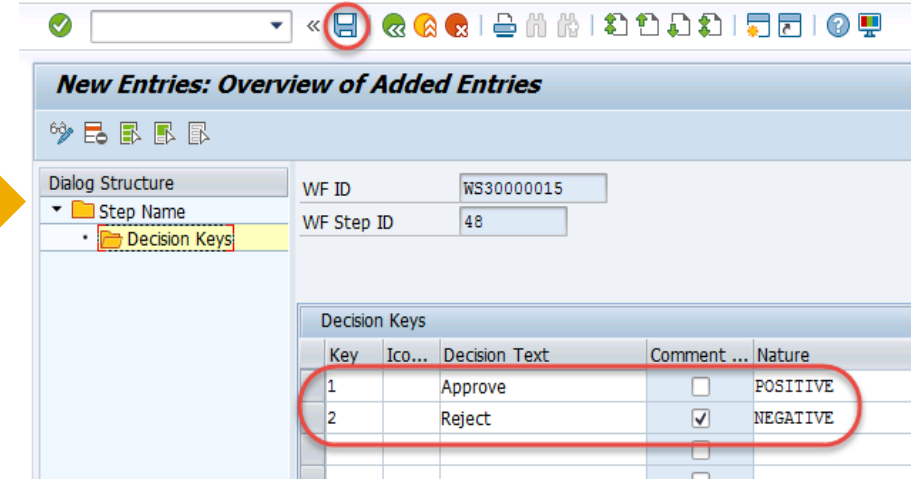
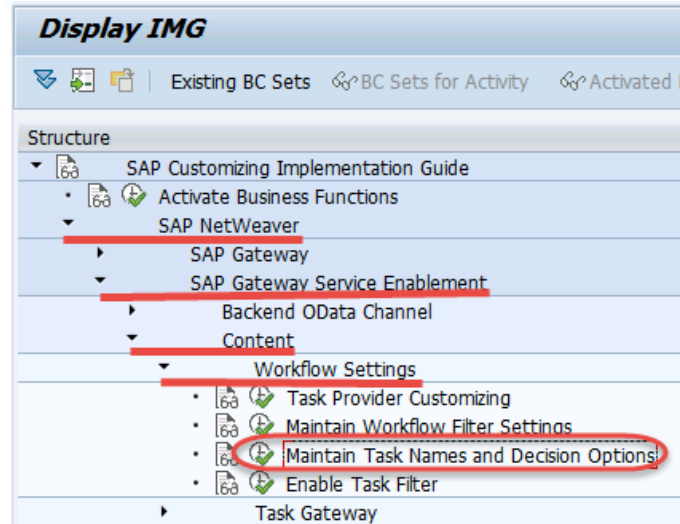


- 📝 Extend Workflows to leverage My Inbox
 - Configure Business data ✓
 - Configure User Decision Actions ▶

SAP Business Workflow customization

Configure user decision actions

(SPRO)



SAP Business Workflow customization

Configure user decision actions

The screenshot displays the SAP Business Workflow interface. At the top, there is a search bar and a user selection dropdown showing 'INT260_USER'. Below this, a list of items is shown, including 'Employee INT260_USER : Approve notification of absence' and 'Create Absence Form'. The main area shows the details of the selected task, including its title, workflow system, and status (In Progress). A red arrow points to the 'Approve' button in the bottom action bar.

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

- Add a user decision action
- Change the label
- Define the nature
- Make comments mandatory

SAP Business Workflow customization

User decision actions : implementation

Workflow System

In Progress

Medium

Created on 21.07.2016

i

0

0

1

3

Employee INT260_USER submitted a notification of absence on 21.07.2016.

Make a decision about the request.

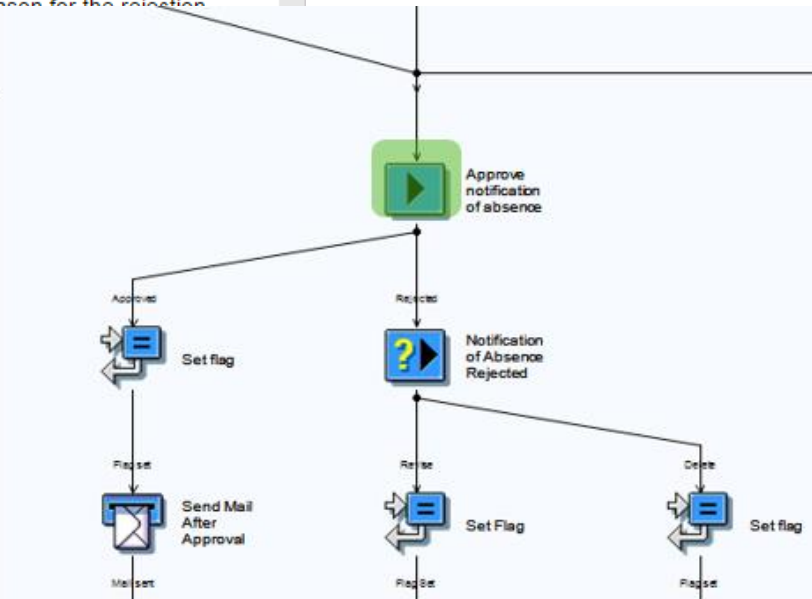
If you reject the request, create an attachment explaining your reason for the rejection.

Approve

Reject

Release

Forward



Implement
`/IWWRK/BADI_WF_BEFORE_UPD_IB`

BAdI Builder: Initial Screen for Definitions

Enhancement Spot

BAdI Name

`/IWWRK/BADI_WF_BEFORE_UPD_IB`

Class Builder Class Z_IM_INT260_ABSENCE Display

Ty.	Parameter	Typing	Description
PO	IS_WI_DETAILS	TYPE SWR_WIDTL	Detailed Information About Work Item
PO	IV_DECISION_KEY	TYPE SWR_DECIKEY	User Decision Value
PO	IT_WF_CONTAINER_TAB	TYPE /IWWRK/TT_WF_CONTAINER	Workflow Container Elements Table
PO	IT_APPL_CONTAINER_TAB	TYPE /IWWRK/TT_APPL_CONTAINER	Application Container Elements Table
PO	CT_RETURN	TYPE BAPIRETTAB	Table with BAPI Return Information

Method

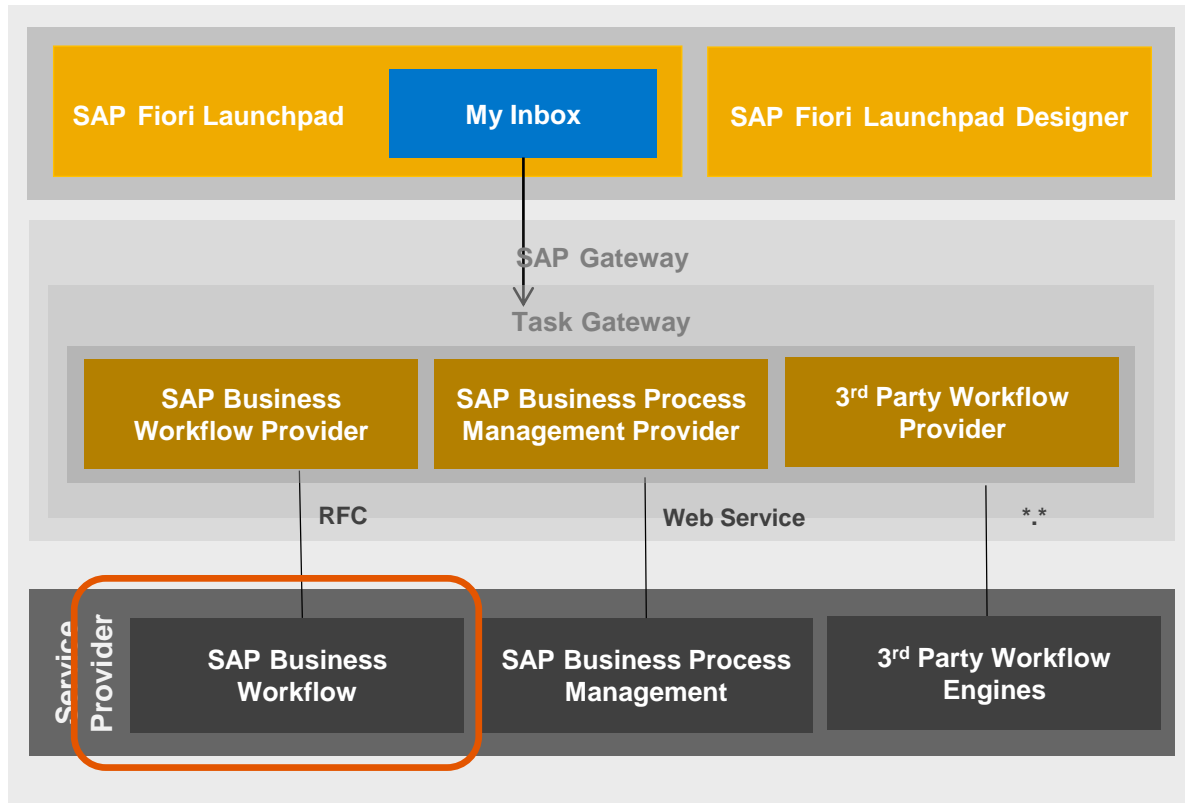
`/IWWRK/IF_WF_WI_BEFORE_UPD_IB-BEFORE_UPDATE`

Active

```
1 method /IWWRK/IF_WF_WI_BEFORE_UPD_IB-BEFORE_UPDATE.
2
3 "1. data definition
4 DATA ls_object TYPE swr_obj_2.
5 DATA lv_objtype TYPE swr_struct-object_typ.
6 DATA lv_objkey TYPE SWR_STRUCT-OBJECT_KEY.
7 DATA lv_retcode TYPE sy-subrc.
8 DATA lt_container TYPE TABLE OF swr_cont.
9 DATA ls_container_line TYPE swr_cont.
10 DATA lt_msg_lines type sapi_msg_lines.
11 DATA lt_msg_struct type sapi_msg_struct.
12 DATA FORMNUMBER TYPE SWXFORMABS-FORMNUMBER.
13 DATA ls_formabs TYPE swxformabs.
14
15 "2. get workitem ID
16 CALL FUNCTION 'SAP_WAPI_GET_OBJECTS'
17   EXPORTING
18     WORKITEM_ID      = is_wi_details-wi_id
19     LANGUAGE         = SY-LANGU
20     USER             = SY-UNAME
```

Session Overview

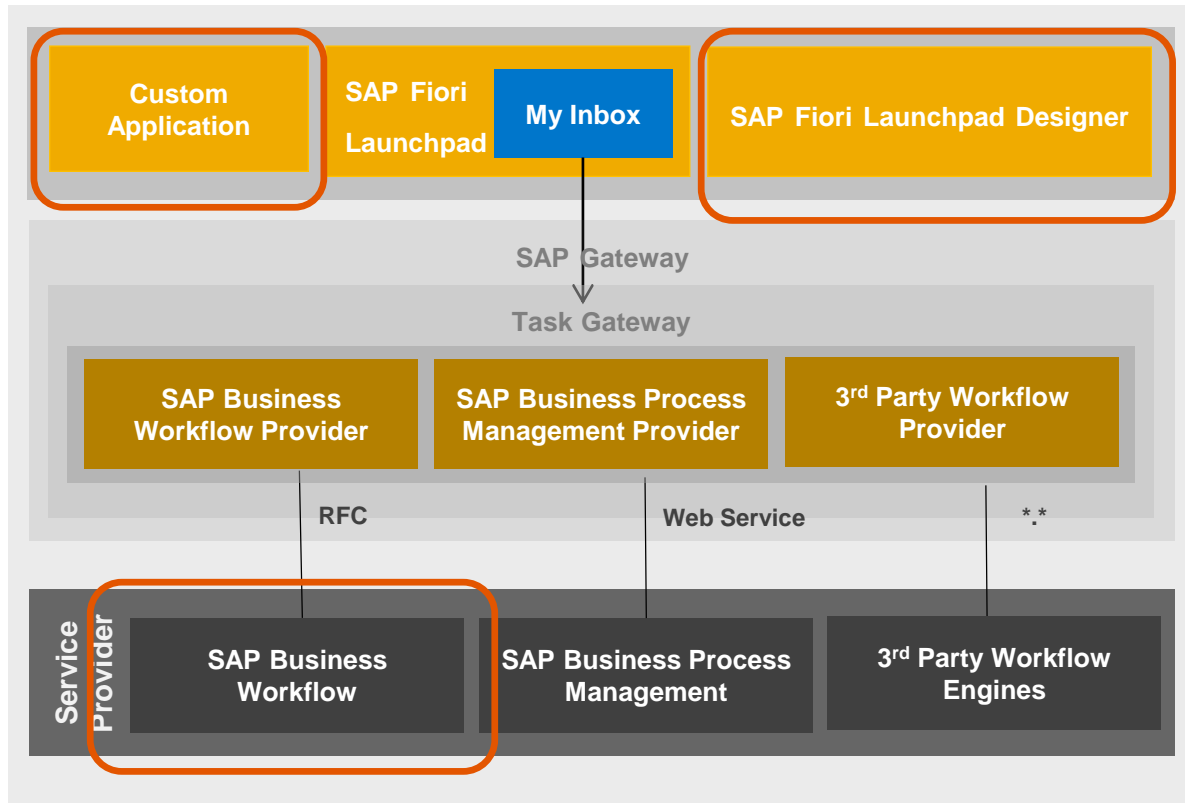
SAP Business Workflow Customization



- 📝 Extend Workflows to leverage My Inbox
- Configure business data ✓
 - Configure user decision actions ✓

Session Overview

My Inbox UI Integration Options



📌 Integrate custom SAP Fiori apps into My Inbox ►

My Inbox UI integration options

Configure task visualization for My Inbox

Integrate External Applications into My Inbox

UI Technologies

- Legacy UI Technologies : SAP Web Dynpro ABAP, BSP Applications
- SAP Fiori UI5 Application

Integration Mode

- Open application in a new browser tab/window. (Legacy UI Technologies)
- Embed application in the detail view : SAP Fiori UI5 Application



Visualization Option

BSP_Standard
ABAP Web Dynpro
Object Not Represented
UI5 based on BSP
Intent-Based Navigation



Parameters

Semantic_Object
Action
Query_Param00
Query_Param01..
..Query_Param09

My Inbox UI integration options

Custom SAP Fiori Application integration into My Inbox detail view

Intent

Semantic Object: **inboxdetailApp**

Action: **display**

Target

Application Type: SAPUI5 Fiori App

Title: Detail App

URL: /sap/bc/ui5_ui5/sap/zint260_notif/webapp/

Component: sap.com.notification

General

Information:

Device Types: ☒ Desktop ☒ Tablet ☒ Phone

Parameters:	Name	Mandatory	Value	Is Regular Expression	Default Value	Target Name
	openMode	<input checked="" type="checkbox"/>	embedIntoDetails	<input type="checkbox"/>		

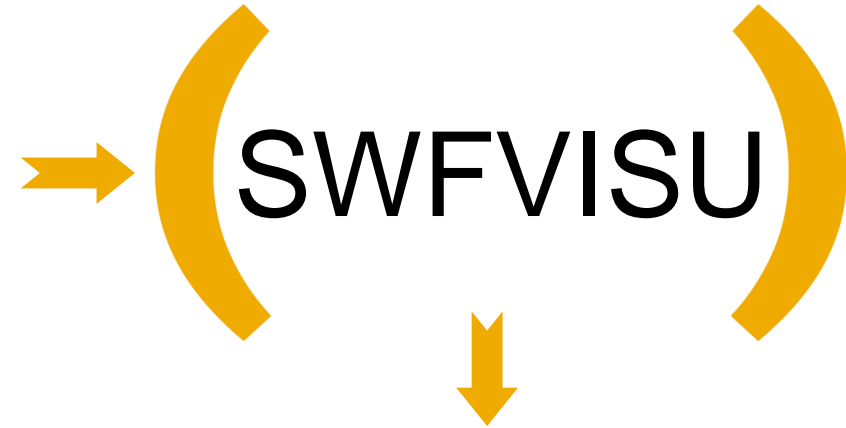


Table View Edit Goto Selection Utilities System Help

New Entries: Overview of Added Entries

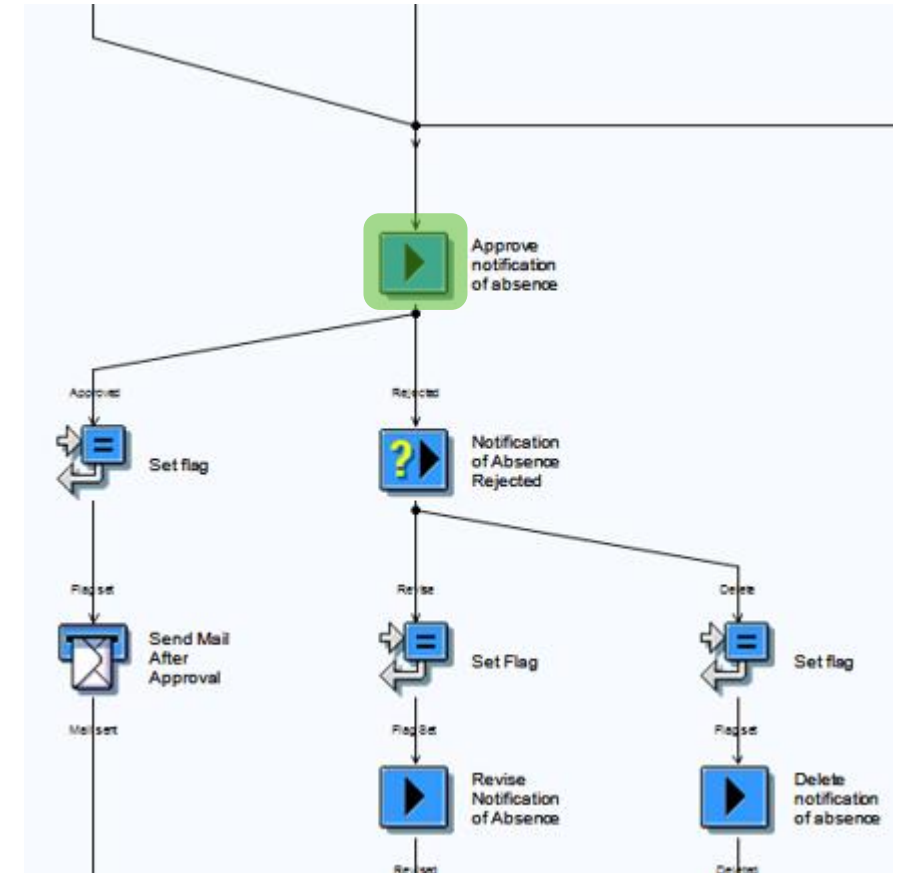
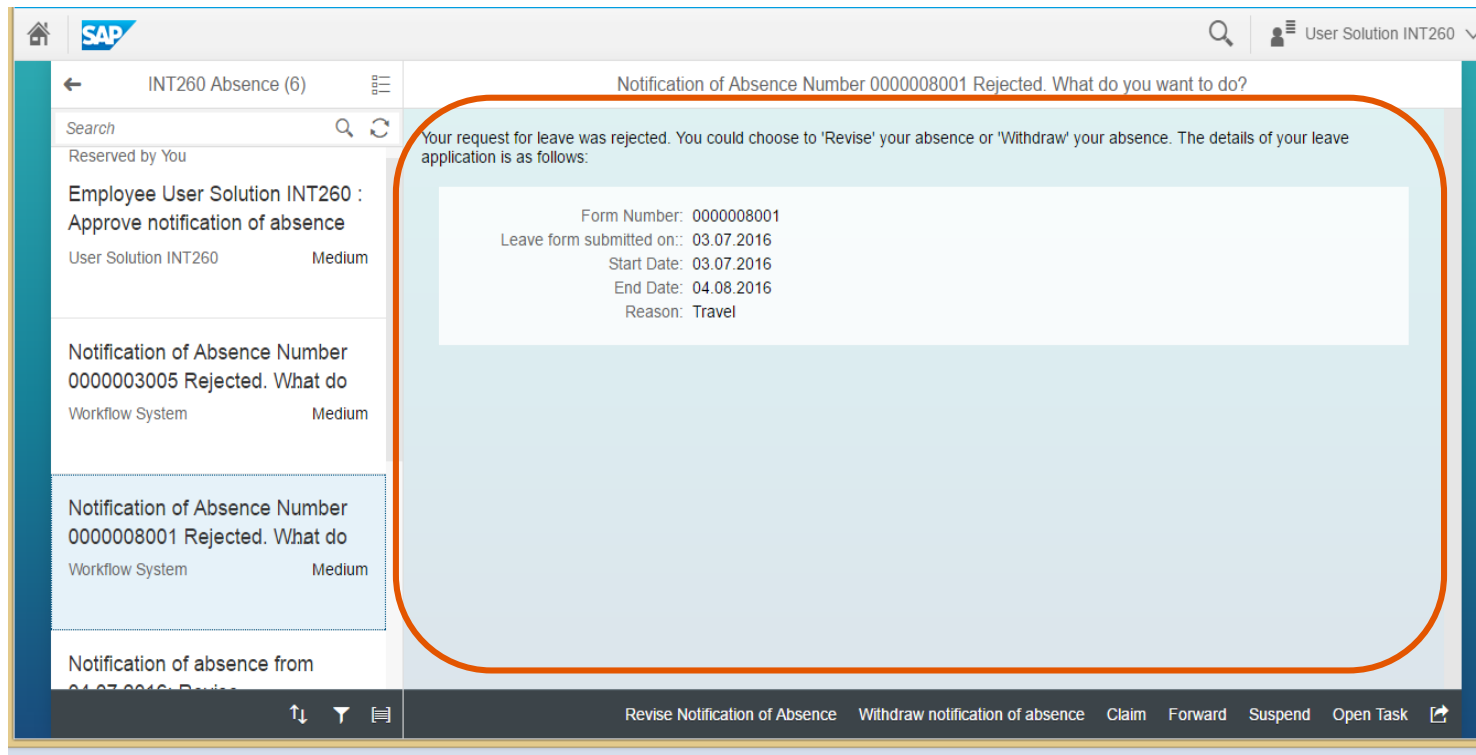
Task: TS90000007

Visualization Type: Intent-Based Navigation

Visualization Parameter	Visualization Parameter Value
SEMANTIC_OBJECT	inboxdetailApp
ACTION	display
QUERY_PARAM00	formNumber={&FORMNUMBER&}
QUERY_PARAM01	workItemId={WORKITEM}

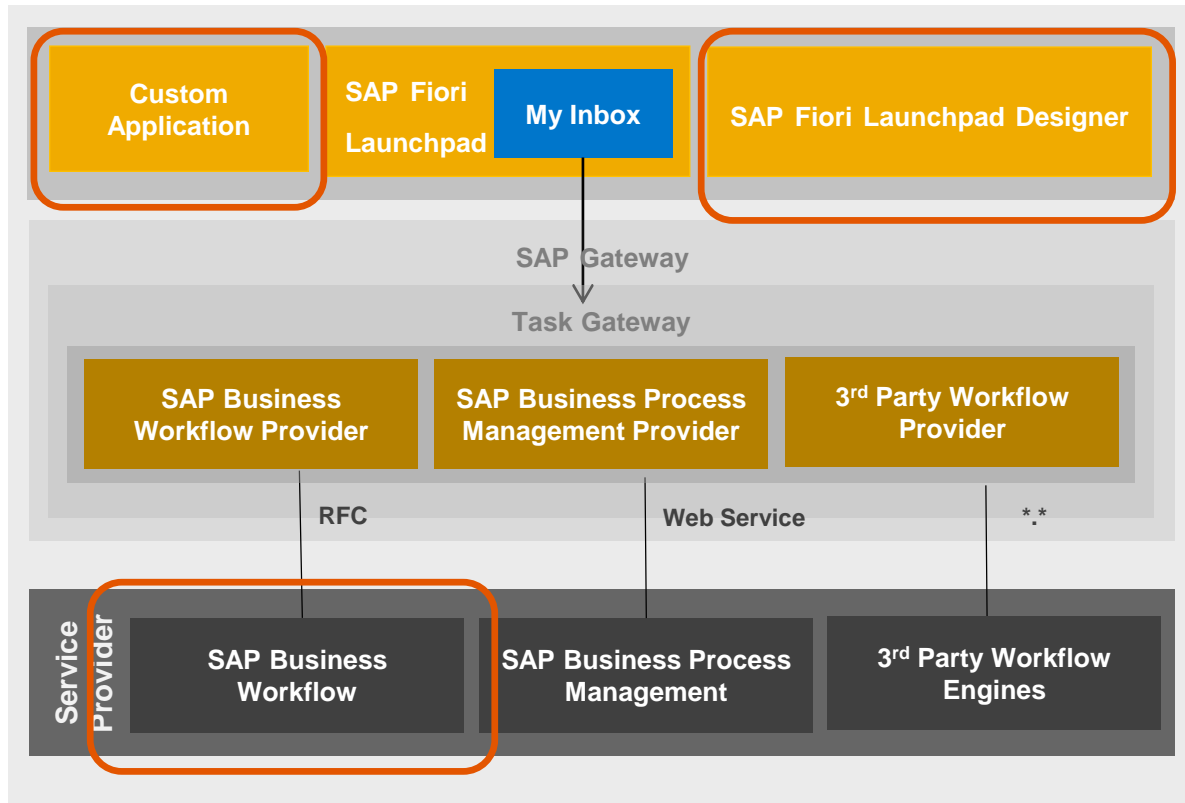
My Inbox UI integration options

Custom SAP Fiori Application integration into My Inbox detail view



Session overview

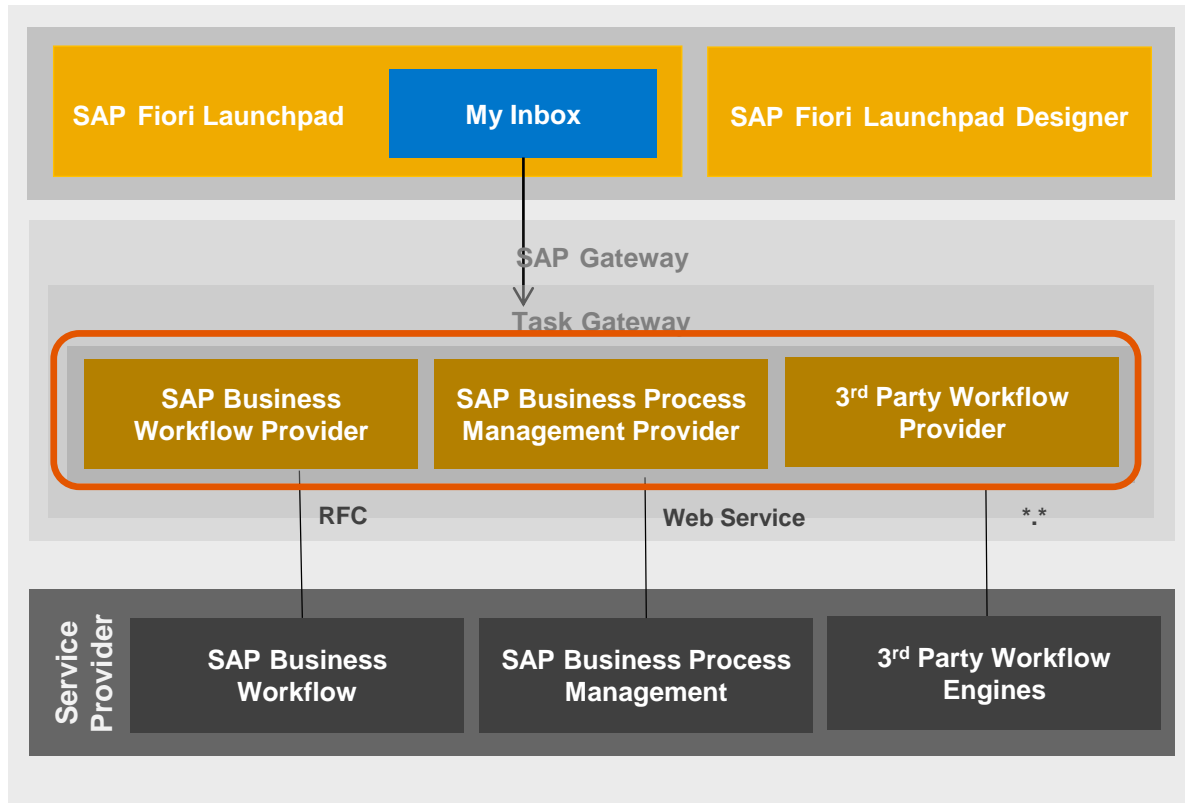
My Inbox UI integration options



Integrate custom SAP Fiori Apps into My Inbox ✓

Session overview

Task Gateway configuration



Define specific scenarios for My Inbox consumption ►

Task Gateway configuration

Define scenario specific tiles for My Inbox

Pre-filter on Tasks based on Task Definitions grouped into a scenario.

My Inbox specific configurations:

- Default sorting
- Enabling/disabling mass action
- Enabling/disabling quick action on tasks

Define consumer types:

- Desktop
- Tablet
- Mobile

Task Gateway configuration

Define scenario specific tiles for My Inbox

(SPRO)

Table View Edit Goto Selection Utilities System Help

New Entries: Overview of Added Entries

Dialog Structure

- Scenario Definition
 - Assign Consumer Type to Scenario
 - Assign Role to Consumer Type
 - Task Definition for Scenario

Scenario Identifier: INT260

Technical Service Name: /IWPGW/TASKPROCESSING

Service Version: 2

SAP System Alias	Task Type
LOCAL_TGW	TS30000016
LOCAL_TGW	TS90000007
LOCAL_TGW	TS30000017

SAP

INT260_USER

My Home

My Home

My Inbox
All Items

4

INT260 Absence
INT260

3

Enter any text

Dynamic Data

Service URL:
/sap/opu/odata/IWPGW/TASKPROCESSING.mc

Refresh Interval in Seconds:
0

Navigation

Use semantic object navigation:
☒

Semantic Object:
WorkflowTask

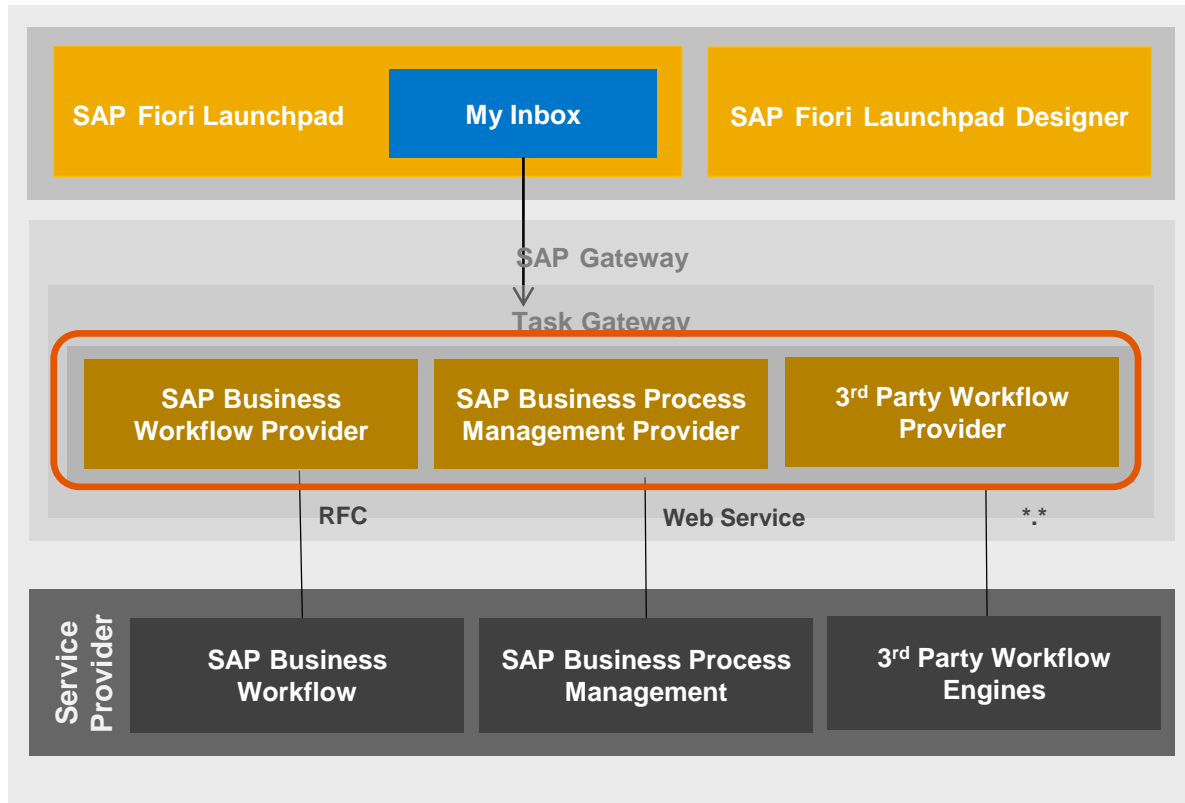
Action:
displayInbox

Parameters:
scenarioId=INT260&showAdditionalAttributes=true

Target URL:
#WorkflowTask-displayInbox?allItems=true

Session overview

Task Gateway Configuration



Define specific scenarios for My Inbox consumption ✓

Session overview

Key learnings : recap

Understand System setup for SAP Fiori My Inbox (My Inbox)

Extend workflows to leverage My Inbox

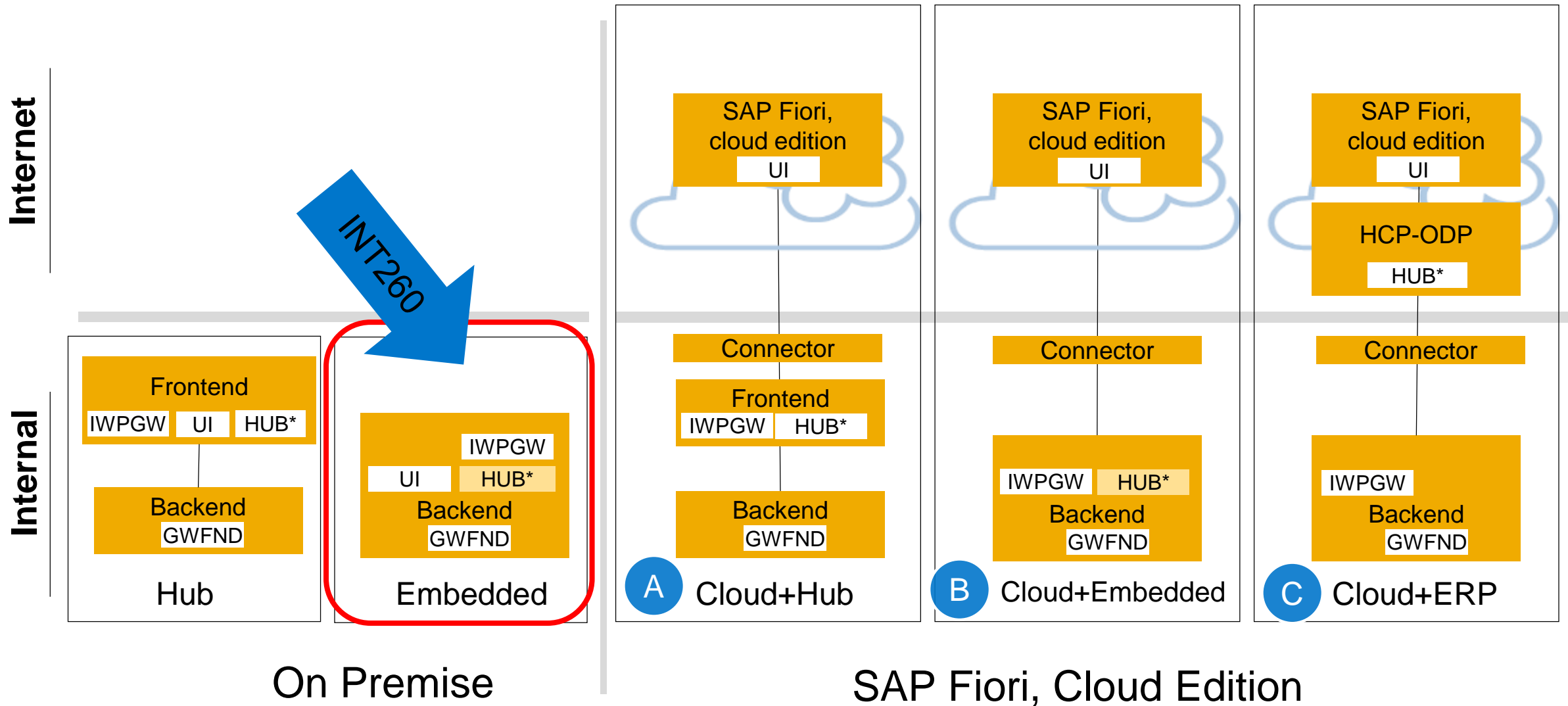
Integrate Custom SAP Fiori Apps into My Inbox

Define specific scenarios for My Inbox consumption

Exercise

Exercise

System landscape used for this session



Exercises

Exercise 1: Check System Setup (Administrator)

Check Installed Components, Check User settings

Exercise 2: Run My Inbox (User)

Run My Inbox with demo workflow out of the box

Exercise 3: Configure My Inbox Scenario (Consultant)

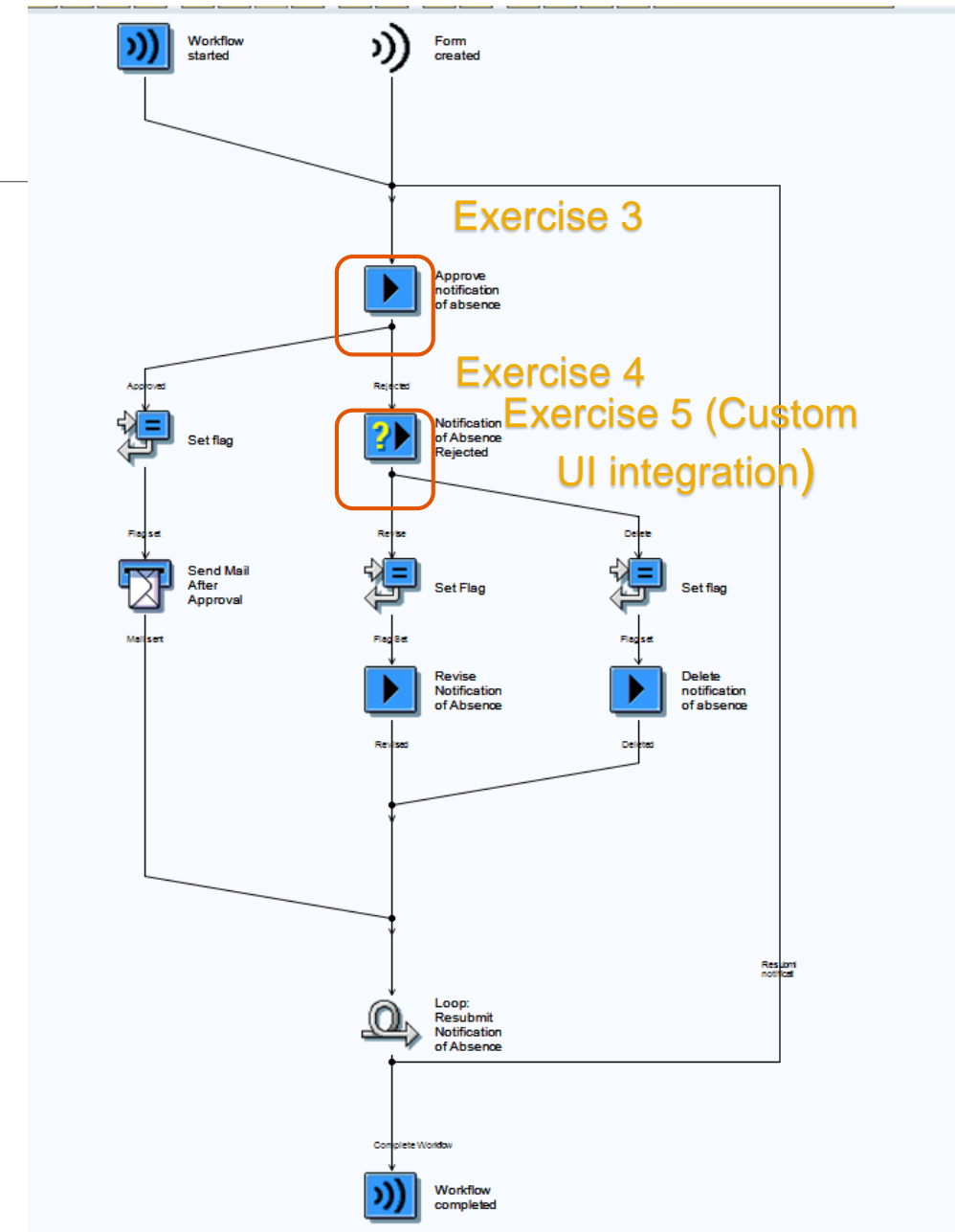
Configure business data to be shown in My Inbox, Define and implement User Decision actions.

Exercise 4: Develop a custom Fiori App (Developer)

Look at a pre-developed custom Fiori app to be integrated into My Inbox

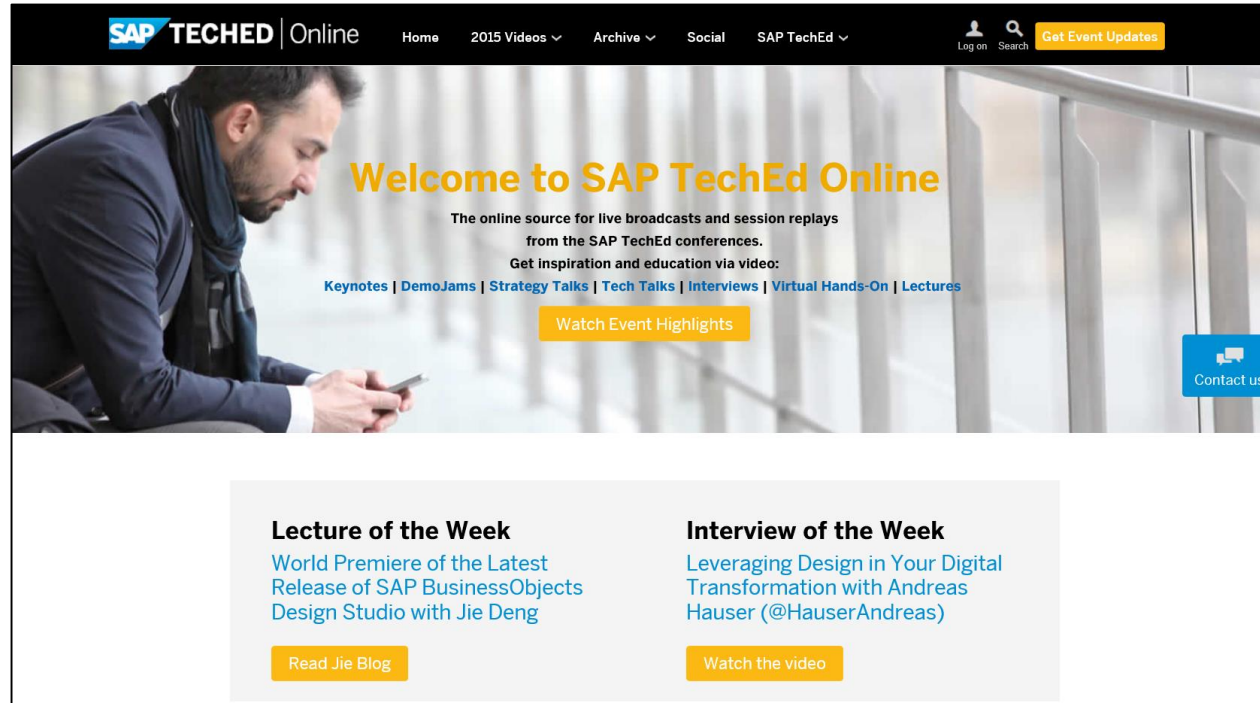
Exercise 5: Configure visualization (Consultant)

Define scenarios, Create Launchpad Content, Configure Task Application Visualization



SAP TechEd Online

<http://sapteched.com/online>



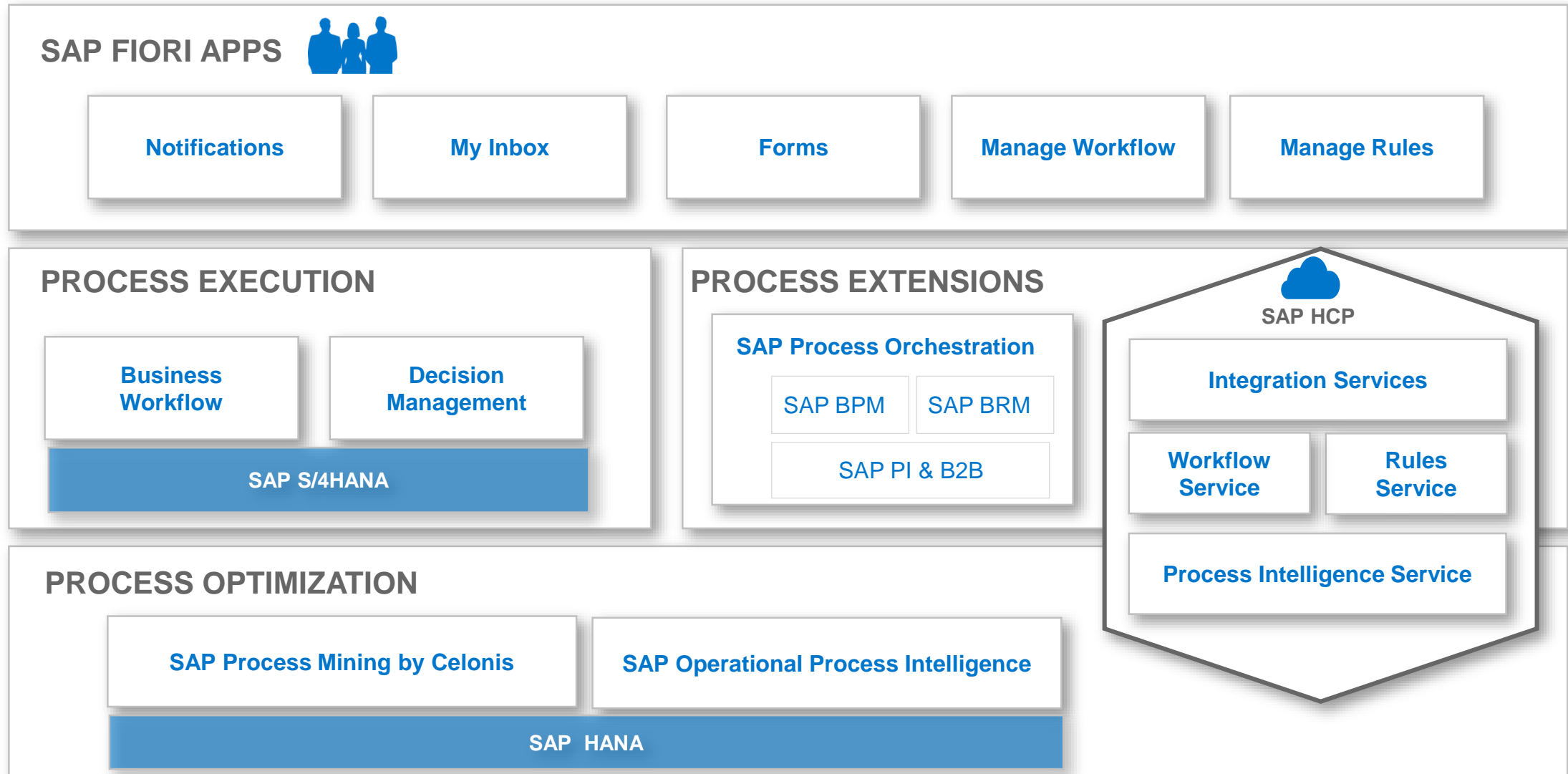
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- Hands-on sessions
- ...

Integration & Orchestration Technology

Enterprise Workflow – new digital user experience – customers, employee, partners



Further information



Related SAP TechEd sessions:

INT200 - Innovations for Business Workflow in SAP S/4HANA
UX128 - What Have You Done for Me Lately? Workflow in SAP solutions and SAP S/4HANA
INT106 - Integration and Orchestration Overview and Outlook
INT815 - Road Map Q&A for SAP Process Orchestration
INT105 - Discover What's New in SAP Process Orchestration
INT210 - Dos and Don'ts from BPMN Development
INT603 - Automated Performance Testing of SAP Process Orchestration
INT260 - Adapt and Extend My Inbox for Your Own Workflows
INT829 - Road Map Q&A for SAP Operational Process Intelligence
INT161 - End-to-End Visibility on SAP Process Integration Scenarios

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- Drawing will be done at **Show Floor in Hall G, Level 1, Demo Pod EZ19 “Integration and Orchestration”** on **Thursday, September 22, 5:30 p.m.** (you need to be present at the drawing to be eligible to win the prize)

*INT100, INT105, INT160, INT161, INT200, INT260, INT264

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Be in the drawing to win a GoPro HERO Session



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Contact information:

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Masayuki Sekihara (masayuki.sekihara@sap.com)



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