



INT200 – Innovations for Business Workflow in SAP S/4HANA



Speakers

Las Vegas, Sept 19 - 23

Christian Loos

Bangalore, October 5 - 7

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Barcelona, Nov 8 - 10

Christian Loos



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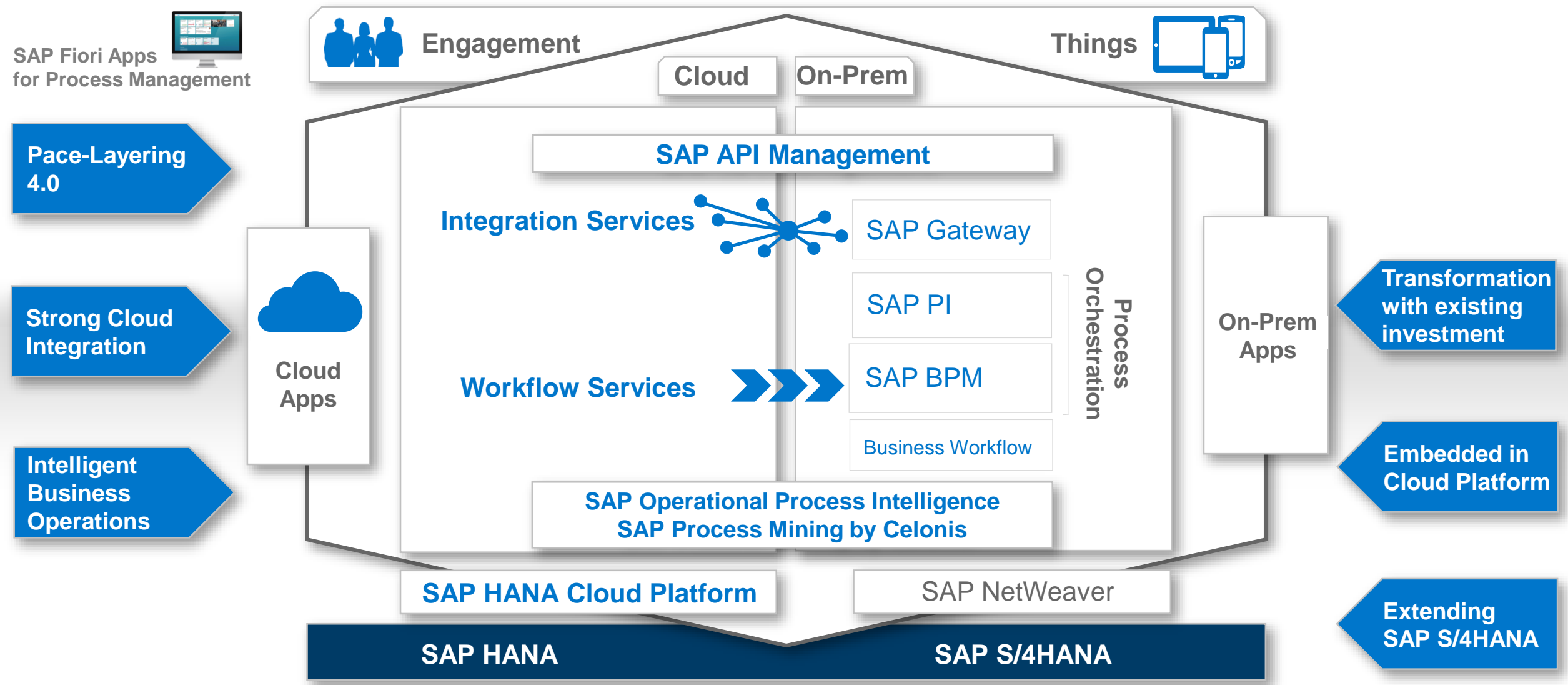
Agenda

- Integration and Orchestration technology overview
- Business Workflow in SAP S/4HANA
- Demo
- Fiori Apps for Workflow
 - My Inbox
 - Manage Workflows
- Planned Innovations
 - Runtime enhancements
 - Workflow analytics
- Summary

Integration and Orchestration technology overview

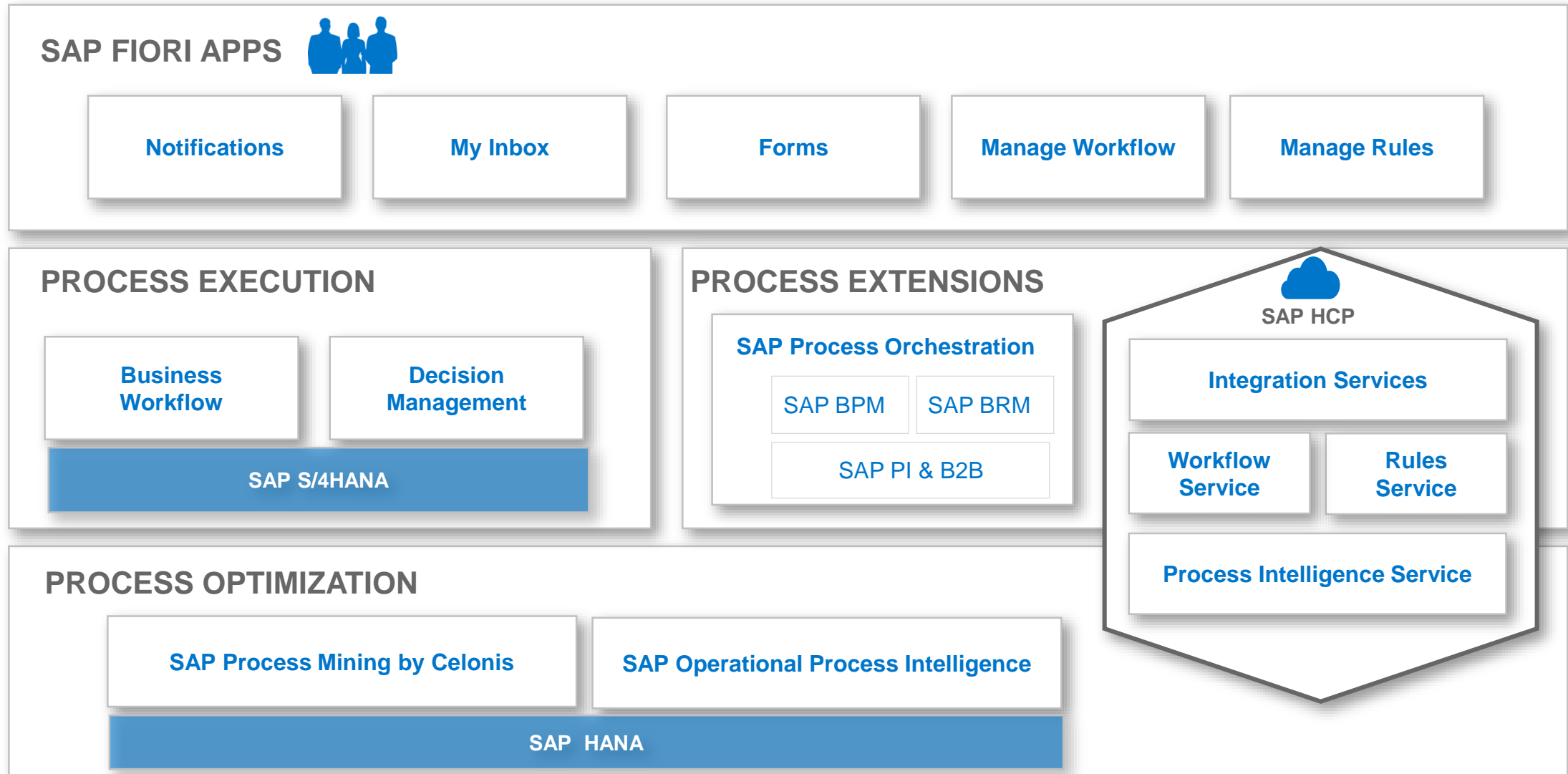
Integration & Orchestration technology

A family of services enabling the digital economy. Six pillars of strategy.



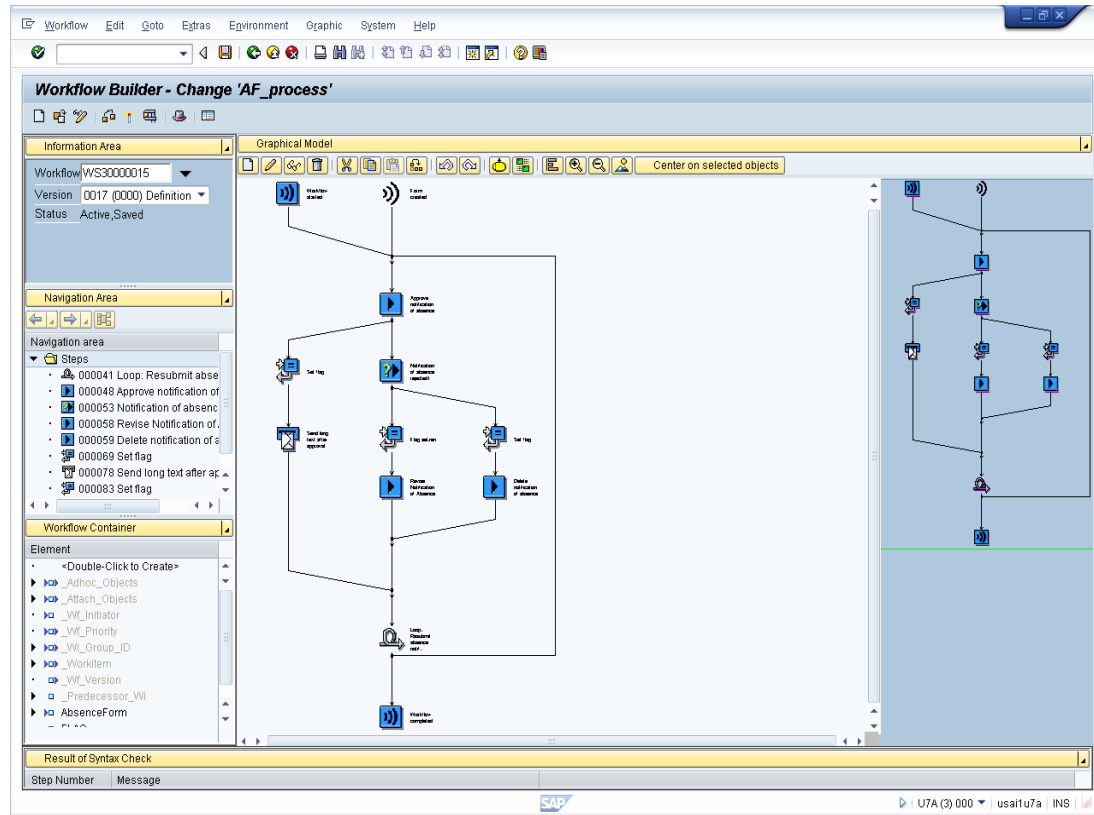
Integration & Orchestration technology

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



Business Workflow in SAP S/4HANA

SAP Business Workflow - embedded in SAP Business Suite



The screenshot displays the SAP Business Workflow runtime interface. The title bar reads "Business Workplace of Bernd Otte". The interface is divided into several panels:

- Workplace Bernd Otte:** A sidebar on the left showing a tree view of workflow items, including "Inbox", "Unread Documents 126", "Documents 130", "Workflow 22", "Overdue entries 0", "Deadline Messages 0", and "Incorrect entries 1".
- Workflow 22:** A table in the center showing a list of workflow items. The table has columns for "Ex.", "ID", "Title", "Status", "Creation Da.", "Creation", "P At.", "Co.", and "W...".
- Workflow Item Details:** A panel on the right showing the details of a selected workflow item. It includes a "Description" section with instructions on how to process the item, and an "Objects and attachments" section.

Ex.	ID	Title	Status	Creation Da.	Creation	P At.	Co.	W...
7050605	Workflow verification: Create notification of absence			03.08.2016	09:03:06	5		
7037666	Approve Purchase Order 308297240 - Indian IT Trading Comp...			29.07.2016	11:59:34	5		
7016995	Approve or Reject PO - Total Gross Amount			28.07.2016	17:30:01	5		
7016988	Approve or Reject PO - Total Gross Amount			28.07.2016	17:01:12	5		
7016982	Approve or Reject PO - Total Gross Amount			28.07.2016	16:54:14	5		
7031515	Approve Purchase Order 300000014 - Japan Insurance Partner...			27.07.2016	17:03:18	5		
7031512	Approve Purchase Order 302113130 - Becker Berlin - Gross Am...			27.07.2016	16:46:36	5		
7007784	Approve Purchase Order 302113130 - Becker Berlin - Gross Am...			21.07.2016	14:48:53	5		
7007779	Approve Purchase Order 302113130 - Gross Amount: 2,972...			21.07.2016	12:26:29	5		
7008626	Approve Purchase Order 302113130 - Gross Amount: 2,972...			20.07.2016	17:45:39	5		
7008622	Approve Purchase Order 302113130 - Gross Amount: 2,972...			20.07.2016	17:23:59	5		
7008623	Approve Purchase Order 302113130 - Gross Amount: 2,972...			20.07.2016	17:23:59	5		
6994606	Generische Entscheidungsaufgabe			15.07.2016	10:31:42	5		
6988107	Approve or Reject PO 306977214 - Total Gross Amount 1,651...			13.07.2016	16:38:26	5		
6988105	Approve or Reject PO 302113152 - Total Gross Amount 2,972...			13.07.2016	16:32:00	5		
6988103	Approve or Reject PO - Total Gross Amount			13.07.2016	16:27:28	5		
6988101	Approve or Reject PO - Total Gross Amount			13.07.2016	16:25:54	5		
6988099	Approve or Reject PO 302113152 - Total Gross Amount 2,972...			13.07.2016	16:25:09	5		
6960612	Approve Marketing Campaign 'My MC'			04.07.2016	16:43:12	5		
6817004	Very very very very very very long work item text with express...			25.05.2016	18:04:18	5		
6817003	Very very very very very very long work item text with express...			25.05.2016	18:04:18	5		

SAP S/4HANA is the next-generation business suite



Instant, real-time insight for better decisions

- in-memory technology
- embedded analytics



Reinvented processes for higher performance

- maximized throughput and speed
- native integration to SAP solutions

THE NEXT GENERATION BUSINESS SUITE FOR A DIGITAL WORLD.



SAP Fiori user experience = higher productivity

- intuitive on all devices, mobile first
- proactive decision-making support



Simplified Architecture for lower TCO

- lean data footprint
- cloud deployment for higher flexibility

Innovating business process support within SAP S/4HANA



Business User
Enablement



Fiori User Experience



Flexibility at runtime



Workflow Analytics

Demo

Purchase Order Approval Workflow

Fiori apps for Workflow

My Inbox and Manage Workflows

My Inbox

Overview

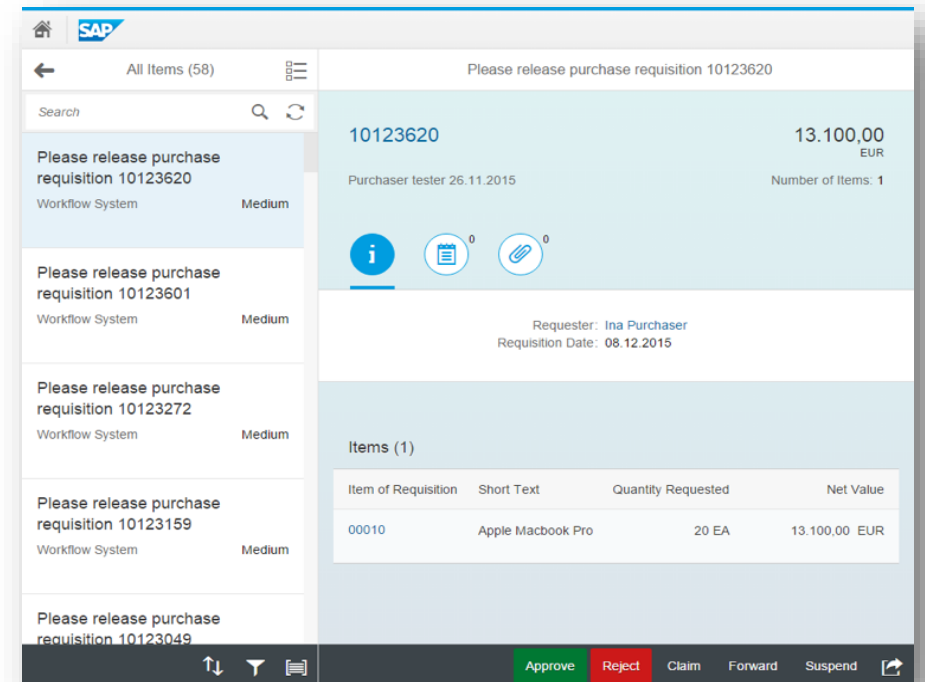
My Inbox is a Fiori application, which allows end users to manage all their workflow tasks from a single inbox. It harmonizes tasks across different systems and applications, SAP and non-SAP.

Key capabilities

- Extensive search, filter and grouping functionality
- Supports standard workflow actions like forward, claim, release, suspend and resume task
- Directly approve tasks from the inbox, including mass approval
- Show comments, attachments and related objects
- Show task log
- Support for multiple UI technologies: Fiori/SAPUI5, WebDynpro, BSP, WebGui
- Expert view for key users / specialists
- Standard connectors for SAP Business Workflow and SAP BPM
- Custom connectors through ABAP or OData API

Benefits

- Unified inbox reduces need for end user training in different applications
- Faster process cycle times due to improved user productivity
- Simple access to approval tasks from mobile devices



For more information on My Inbox, see the overview page in SAP Community Network at: <http://scn.sap.com/docs/DOC-62602>

My Inbox

New table view for expert users

Prashantha H J

My Inbox

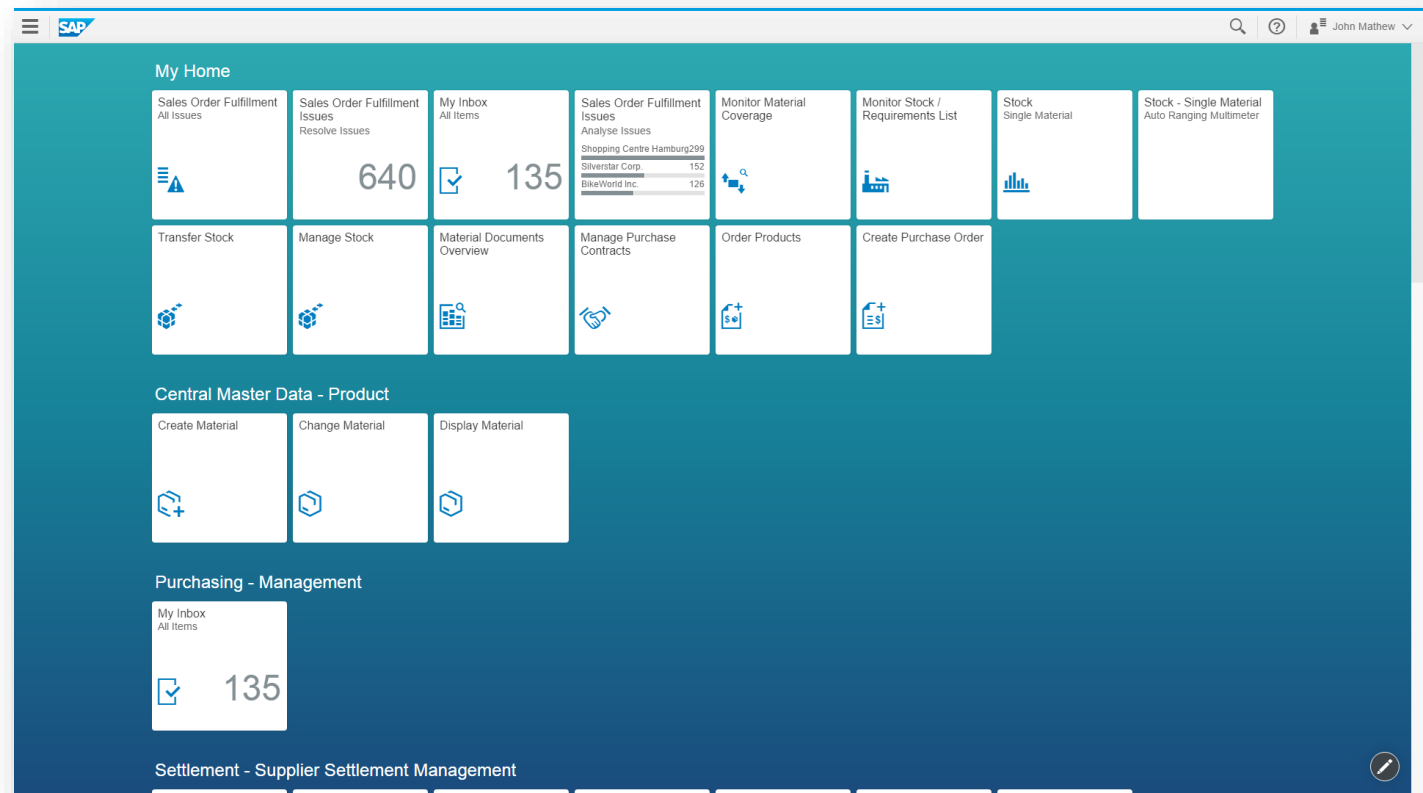
CLR ☐ Search Show Filter Bar Clear Filters (1) Go

Items (129)

<input type="checkbox"/> Task Title	Status	Priority	Created By	Created On	CA1	CA2	CA3	CustAttribute	
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Ready	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>
<input type="checkbox"/> Create leave request for Good old company	Reserved	Medium	HJ	15.02.2016	CA1	4000	USD	CA1	>

My Inbox in SAP S/4HANA

All Items tile



My Inbox in SAP S/4HANA

Procurement – Purchase Orders, Purchasing Contracts

The screenshot displays the 'My Inbox' interface for procurement. On the left, a list of items (100) is shown, including several 'Please release purchase order' requests. The main area shows the details of a selected 'Standard PO' (4500001993) with a value of 2,500.00 EUR. The status is 'In Approval'. The details include supplier information (Sunny Electronics GmbH), creation date (06.07.2016), net order value (2,500.00 EUR), and payment terms (Pay immediately w/o deduction). The 'Items (1)' table shows one item: 'Front cover CF-02 (DE)' with a quantity of 250 EA and a net order value of 2,500.00 EUR.

Short Text	Material Group	Material	Order Quantity	Net Order Value
Front cover CF-02 (DE)	Parts for Production FLOWBPT	Front cover CF-02 FIO-PRD-CF02	250 EA	2,500.00 EUR

The screenshot displays the 'My Inbox' interface for procurement, showing a list of items (8) including 'Release of contract' requests. The main area shows the details of a selected 'Quantity Contract' (4600000015) with a value of 0.00 USD. The status is 'Blocked, changeable with value'. The details include target value (0.00 USD), purchasing organization (Purch. Org. 1710), company code (1710), validity start/end (10.02.2016), payment terms (as of end of month), and supplier information (BetaTRONIC Corp. US). The 'Items (1)' table shows one item: '00010 Locks' with a target quantity of 100000 PC and a net order price of 50.00 USD.

Item	Description	Material Group	Target Quantity	Net Order Price
00010	Locks	Trading Materials L001	100000 PC	50.00 USD

My Inbox in SAP S/4HANA

Public Sector – Earmarked Funds Approval

Approve Earmarked Funds Doc...

Search

Mittelbindung 5500002163 : Genehmigen
Workflow System
Medium

Mittelbindung 5500002162 : Genehmigen
Workflow System
Medium

Funds commitment 400000013 : Approve
Workflow System
Medium

Funds reservation 200152676 : Approve
Workflow System
Medium

Mittelbindung 5500002160 : Genehmigen
Workflow System
Medium

Mittelbindung 5500002157 : Genehmigen
Workflow System
Medium

Funds transfer 5900000002 : Approve
Workflow System
Medium

Funds transfer 5900000001 : Approve
Workflow System
Medium

Funds transfer 5900000002 : Approve

200,00 EUR

5900000002

Information

Calendar

Attachments

Company Code: ISPS 101 600 201504 (PS10)
Document type: Funds Transfer with Workflow (AA)
Posting Date: 26.05.2016
Document Date: 26.05.2016
Document Header Text:
Amount changed: 200,00 EUR
LC amt for release: 200,00 EUR

Document items (to be approved) (1)

Document item	Text	Costs due on	Release amount	Amount changed
1		24.05.2016	-200,00 EUR	-200,00 EUR >

Other Document items (1)

Document item	Text	Costs due on	Release amount	Amount changed
2		24.05.2016	200,00 EUR	200,00 EUR >

Approve Reject Claim Forward Suspend

Approve Earmarked Funds Doc...

Search

Mittelbindung 5500002163 : Genehmigen
Workflow System
Medium

Mittelbindung 5500002162 : Genehmigen
Workflow System
Medium

Funds commitment 400000013 : Approve
Workflow System
Medium

Funds reservation 200152676 : Approve
Workflow System
Medium

Mittelbindung 5500002160 : Genehmigen
Workflow System
Medium

Mittelbindung 5500002157 : Genehmigen
Workflow System
Medium

Funds transfer 5900000002 : Approve
Workflow System
Medium

Funds transfer 5900000001 : Approve
Workflow System
Medium

Document items (to be approved) (1 of 1)

Funds transfer 5900000002

Information

Document item: 1
Text:
Costs due on: 24.05.2016
Release amount: -200,00 EUR
Amount changed: -200,00 EUR
Open amount: 0,00 EUR
Reduced amount: 0,00 EUR
Ref. document catg.: 0
Reference doc:
Reference item: 0
LC amt for release: -200,00 EUR
Available Amount AVC: -12.856,91 EUR

Account Assignment

Commitment Item: Cus. row Material (400:000)
Funds Center: Management Serv. (10101)
Fund: GENERAL (GENERAL)
Budget Period:
Funded Program: GENERAL (GENERAL)
Functional Area: Functional Area for WH (GENERAL)
Grant: NOT_RELEVANT_FOR_GM (NOT_RELEVANT_FOR_GM)
G/L Account:
Cost Center:
Order:
WBS Element:

Approve Reject Claim Forward Suspend

My Inbox in SAP S/4HANA

Hybris Marketing – Campaign Approval

The screenshot displays the 'My Inbox' interface in SAP S/4HANA. The top bar includes a user profile, a back arrow, the SAP logo, the text 'My Inbox' with a dropdown arrow, and a search icon. Below the top bar, the left sidebar shows 'Marketing Approvals (1)' with a list icon, a search bar, and a list item: 'Approval Request for Campaign Phone sale Campaign' with ID 'CB9980000149' and priority 'Medium'. The main content area is titled 'Approval Request for Campaign Phone sale Campaign' and shows a table with one entry: 'Phone sale Campaign' with ID '1378', a value of '0.00', and status 'In Approval' with priority 'Medium'. Below the table is an information icon 'i' and a section with details: 'Start Date: 06/30/2016', 'End Date: 07/07/2016', 'Category: Automated Campaign (Once)', 'Media Type: Radio', 'Program:', 'Marketing Area: Global', and 'Description:'. The bottom bar contains navigation icons (up/down, filter, list) and action buttons 'Forward', 'Suspend', and a share icon.

Approval Request for Campaign Phone sale Campaign		
Phone sale Campaign	0.00	In Approval
1378		Medium

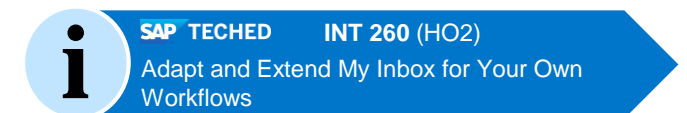
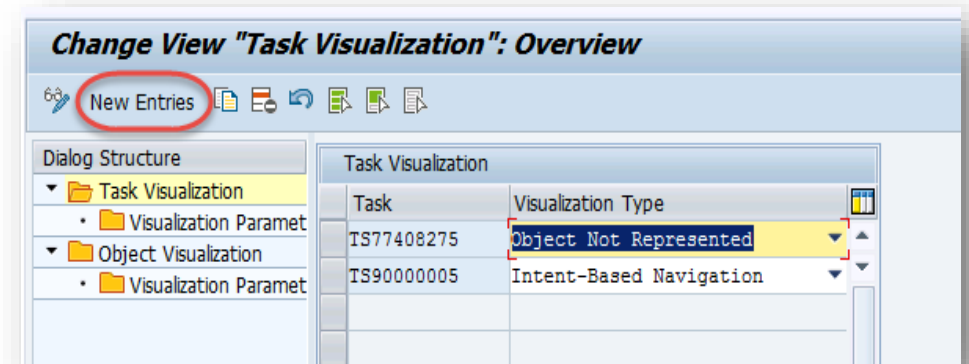
Start Date: 06/30/2016
End Date: 07/07/2016
Category: Automated Campaign (Once)
Media Type: Radio
Program:
Marketing Area: Global
Description:

Configuring My Inbox for your own workflows

1. Check software pre-requisites (SAP S/4HANA contains everything out-of-the-box)
2. Done

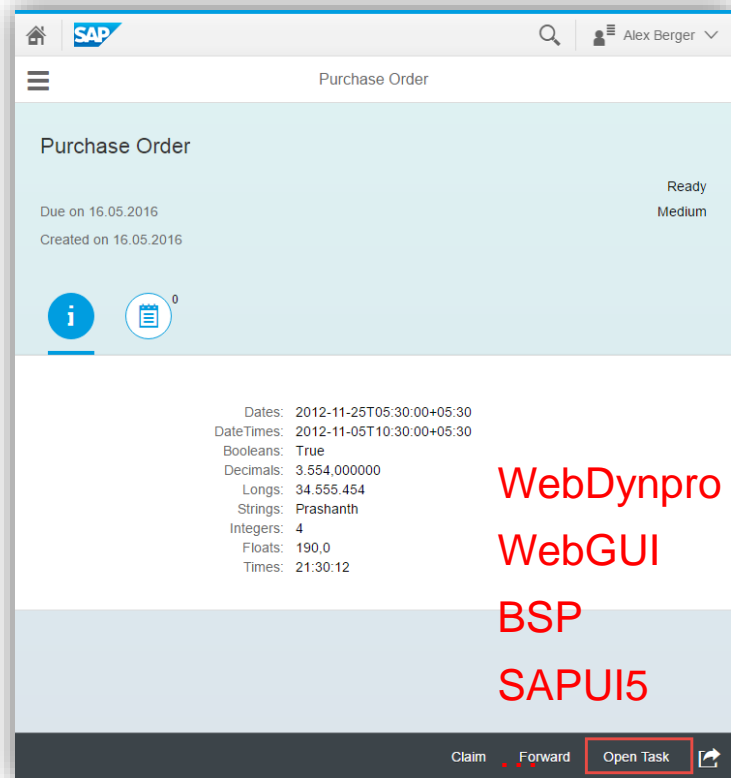
Optional tasks

1. Configure **task visualization** (transaction SWFVISU)
 - a) Fiori UI (in-place navigation via intents)
 - b) Other UI (open task in new window)
2. Configure **dynamic columns** for context information
3. Configure **task outcomes** for direct actions
4. Provide **object links**
5. Configure **scenario-specific tiles**
6. Customize **task type names**
7. **Extend** My Inbox app (see SAP Note 2118812)

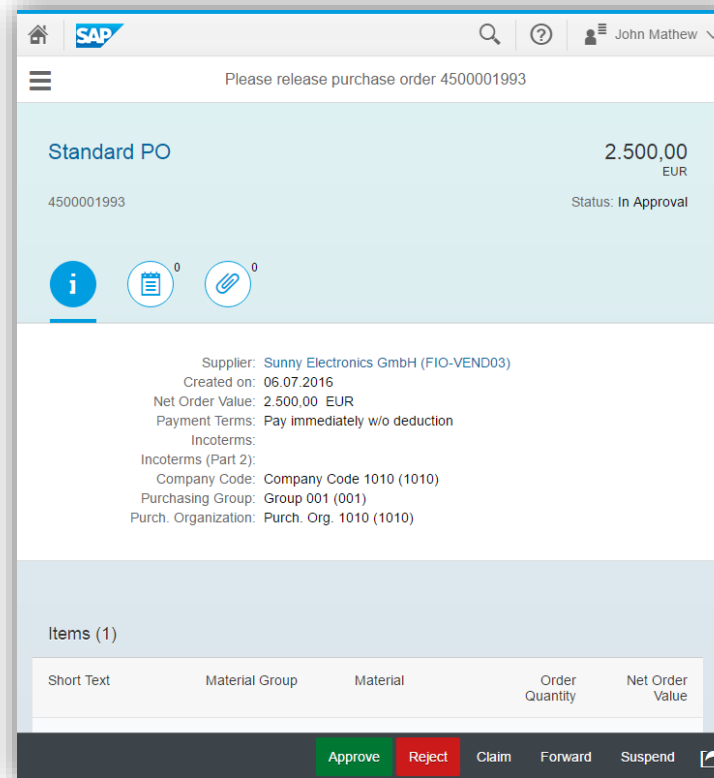


UI Integration Options

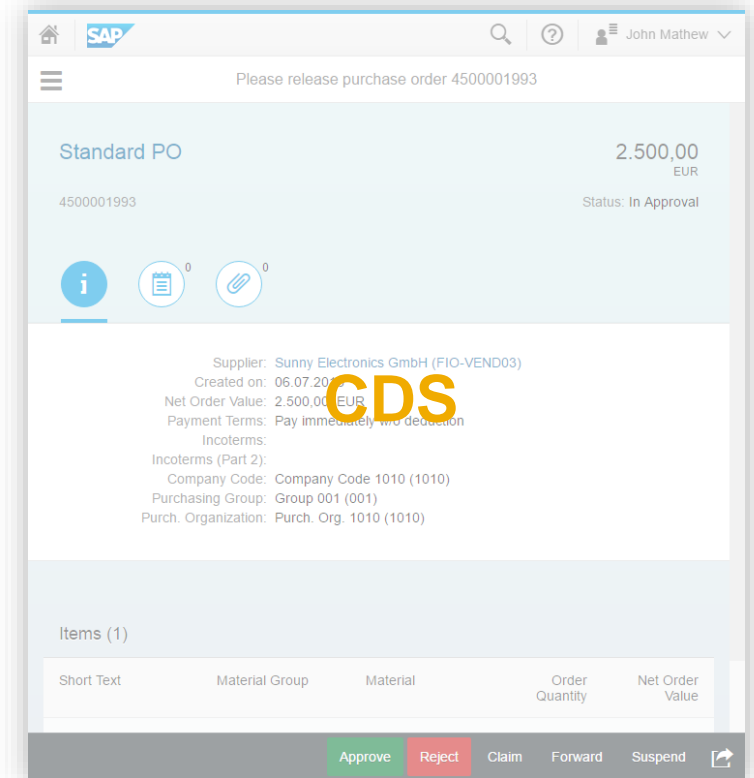
Default UI + Open in new window



Embedded SAPUI5 component

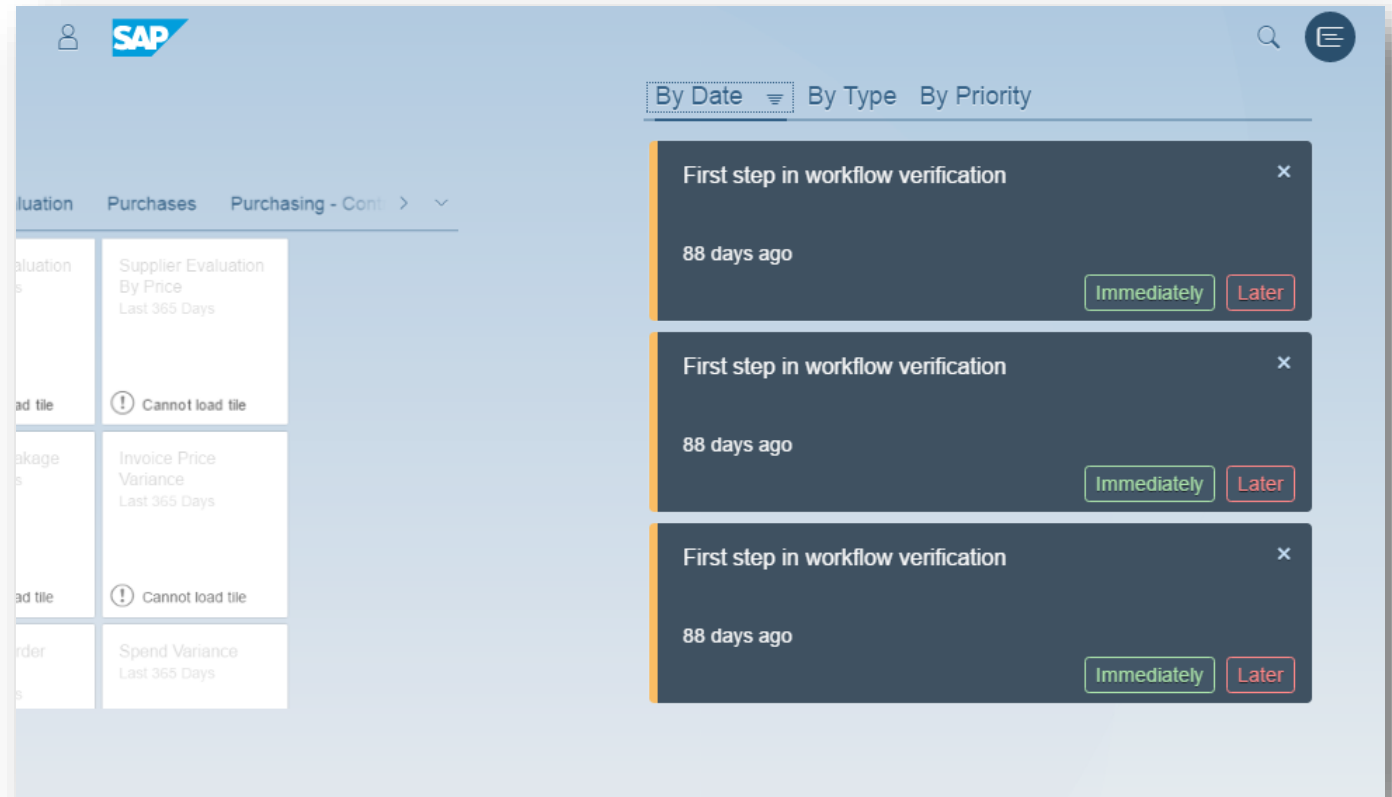


Planned: Default UI based on CDS View



Workflow Push Notifications

- Notifications for new tasks are displayed in Fiori 2.0 notification center
- Take direct action on notifications
- On click, navigate to task in My Inbox
- Configurable per workflow
- Configure texts and actions
- Transaction: [SWF_PUSH_NOTIF1](#)



Manage Workflows

Overview

Planned
Innovation

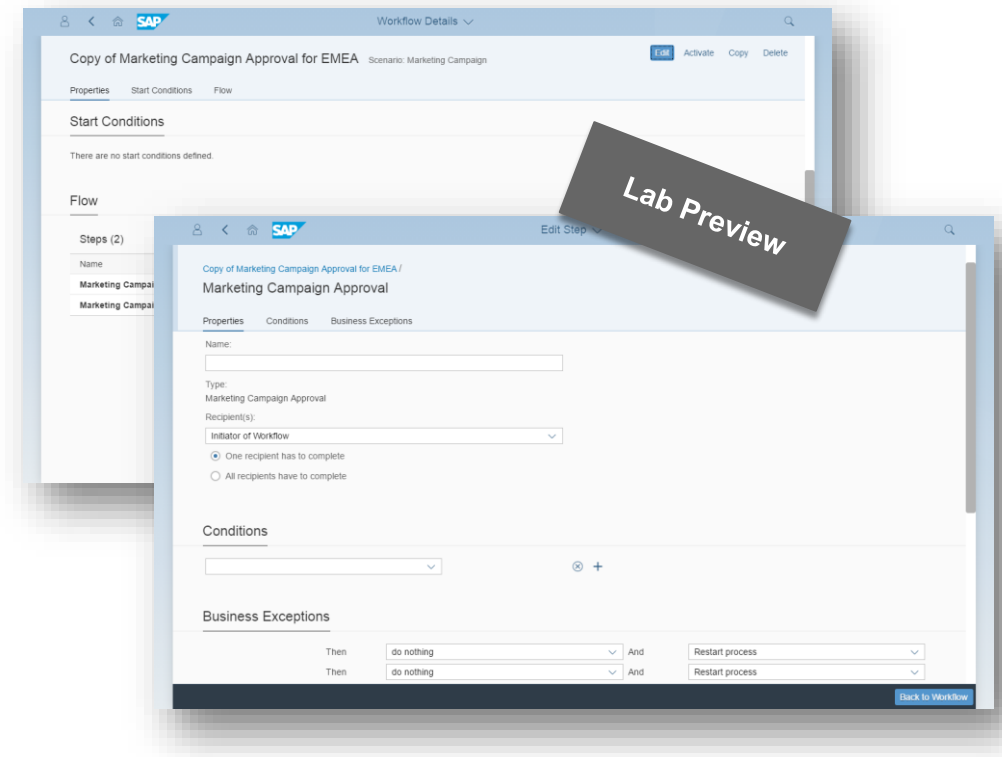
Manage Workflows is a Fiori application, which allows key users to create, change and configure workflows for a specific business scenario.

Key capabilities

- View available workflows
- Activate and deactivate workflows
- Change workflow start conditions and validity
- Create copy of existing workflow or create new workflow
- Add or delete workflow steps
- Change details of a workflow step, including task recipients and conditions
- Define behavior in case of business exceptions / negative outcomes

Benefits

- Workflow configuration as self service for business users
- Transparency on active workflow definitions
- Reduced workflow modeling errors through simplified user interface and pre-defined scenario artifacts



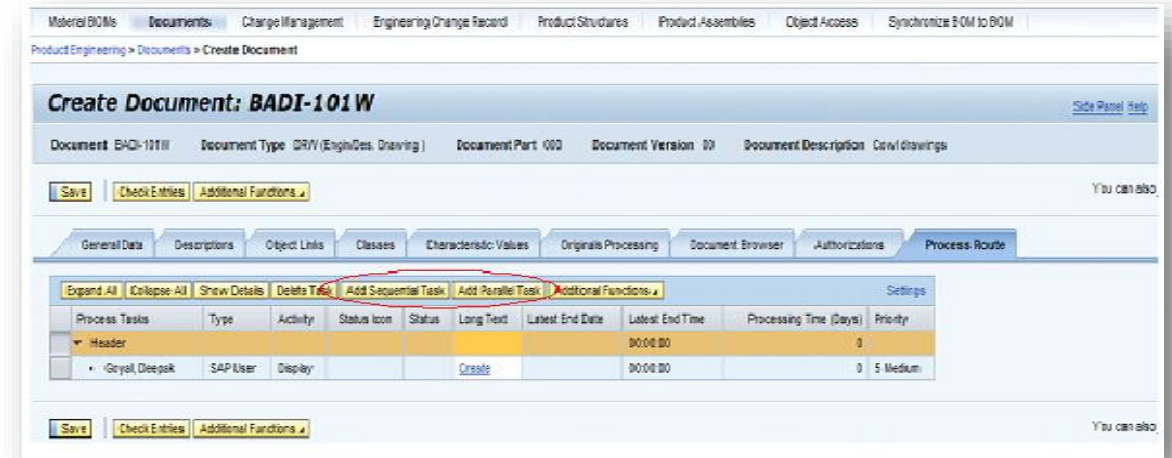
Planned Innovations

Workflow Runtime Enhancements

Planned
Innovation

Use cases for flexible workflows and ad-hoc tasks

- PLM process routes e.g. for Engineering Change Record
- Dynamic processes which depends on object status and action of involved users
- Change running workflow e.g. add new steps, delete steps, add new recipients, add comment for future step
- End user can create new workflow for an approval and start this newly created workflow
- Use flexible workflows via sub-flow within classic workflow



Workflow runtime can use workflow models which related to one running instance

- Support life cycle of runtime instance
- Minor additional footprint for workflow model
- Instance specific workflow model only created on request e.g. exception handling

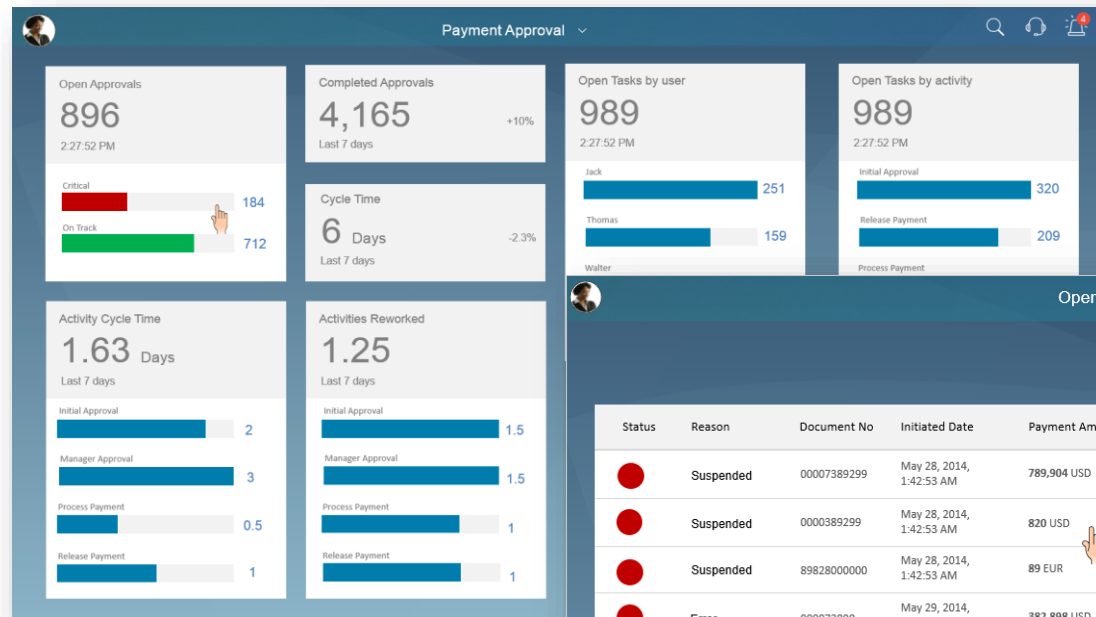
Allow the change of these instance-specific workflow at any time

- Ensure consistency e.g. you can only add and delete steps which are not instantiated
- Provide end-user user interface to change the workflow
- Provide API which allow changes based on the workflow status and object status

Definition of must-have steps via rules

Instance specific definition will be archived together with instance data

Workflow analytics



Open Approvals

Status	Reason	Document No	Initiated Date	Payment Amount	Company Co
Suspended		00007389299	May 28, 2014, 1:42:53 AM	789,904 USD	MHUS
Suspended		0000389299	May 28, 2014, 1:42:53 AM	820 USD	MHUS
Suspended		89828000000	May 28, 2014, 1:42:53 AM	89 EUR	MHUS
Error		000073899	May 29, 2014, 1:42:53 AM	382,898 USD	MHIN
Error		007389299	May 29, 2014, 1:42:53 AM	2,323.4 USD	MHIN
Error		892978829	May 29, 2014, 1:42:53 AM	920,89 EUR	MHIN
Error		3928398398	May 30, 2014, 1:42:53 AM	23 EUR	MHIN
Suspended		0008989989	May 30, 2014, 1:42:53 AM	23,909 USD	MHUS
Suspended		0000898282	May 30, 2014, 1:42:53 AM	534,90 USD	MHUS
Suspended		00007389299	May 31, 2014, 1:42:53 AM	33 USD	MHUS

Approval

Approval Suspended
Since 30th May 2016 and has not yet been resolved

Start Date
28th May 2016 13:42:00 CET

Information

Document No: 00007389299
Payment Amount: 789,904 USD
Company Code: MHUS
Approver: Rajesh
Pay by: Jun 3rd 2016 01:42:00 CET
Payment Date: -

Journal

Status	Activity Name	Start Date	End Date	Cycle Time	Reworked	Processor
Completed	Initial Approval	28th May 2016 13:42:00	29th May 2016 13:42:00	24 hours	2	Rajesh
Completed	Manager Approval	28th May 2016 13:42:00	29th May 2016 13:42:00	24 hours	2	Mahesh
Completed	Process Payment	30th May 2016 13:42:00	30th May 2016 16:42:00	3 hours	1	Mike
In Process	Release Payment	28th May 2016 13:42:00	-	-	-	Maggie

Lab Preview

Thomas	Jun 04, 2014, 1:42:53 AM	-	4 Days 02 h	>
Sandy	Jun 05, 2014, 1:42:53 AM	-	3 Days 22 h	>
Holger	Jun 05, 2014, 1:42:53 AM	-	3 Days 07 h	>
Roshan	Jun 05, 2014, 1:42:53 AM	-	3 Days 09 h	>
Rohan	Jun 06, 2014, 1:42:53 AM	-	2 Days 06 h	>

Resume

Summary

Summary

Benefit from innovations in Business Workflow

What you can use today

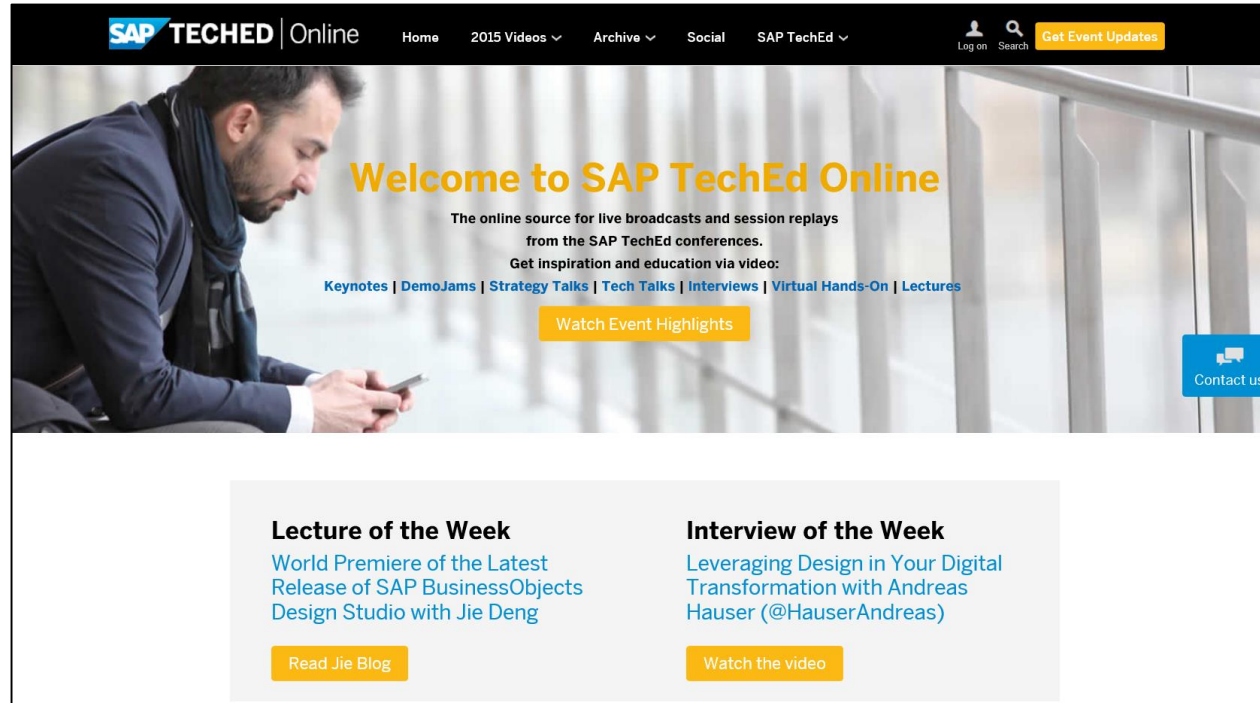
- Business Workflow
- My Inbox
- Custom Fiori UIs
(default UI for user decision)

Planned Innovations (SAP S/4HANA)

- Workflow Push Notifications
- Smart Template for Task UI based on CDS
- Manage Workflows Fiori application and Scenario editor
- Sample implementation in EPM scenario
- Ad-hoc changes to workflows
- Workflow Analytics

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- ...

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Related SAP TechEd sessions:

INT260 - Adapt and Extend My Inbox for Your Own Workflows

UX128 - What Have You Done for Me Lately? Workflow in SAP solutions and SAP S/4HANA

INT600 - Process Insights on Business Workflows in SAP S/4HANA

INT106 - Integration and Orchestration Overview and Outlook

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