Workflow Solutions from SAP
When to Use What – ASUG84544

Venugopal Chembrakalathil, Stephan Schluchter / SAP
May 7, 2019

NOTE: Delete the yellow stickers when finished.

See the SAP Image Library for other available images.
Disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.

This presentation, or any related document and SAP’s strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP’s intentional or gross negligence.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.
Agenda

SAP ERP and traditional modifications

Extensibility concept in SAP S/4HANA

Workflow extensions

- In-app extensibility (manage workflows)
- Development of custom workflow scenarios
- Side-by-side extension using SAP Cloud Platform Workflow

Summary
SAP ERP and traditional modifications
SAP ERP – Once Upon a Time

- **SAP R/1, R/2**
- **SAP R/3, Business Suite 7.0, ECC 4.3 – 6.0 on AnyDB**
  - Business Workflow
- **SAP Suite on HANA**
- **SAP® S/4HANA**
- **SAP® S/4HANA Cloud**

SAP guarantees maintenance & fixed rate until 2025

*Not to scale*
Agility is key – Traditional in-app extensibility has created gridlock

28% Drive business innovation

72% Keep the lights on

Consumption of new technologies to differentiate
User Experience the ability to engage customers and users
Technology Stack of multiple layers of hardware & software

Forrester IT Survey, 2013
Extensibility concept in SAP S/4HANA
Traditional and New Extensibility Concept in SAP S/4HANA

“Classical” Extensibility

Custom Code Development and Extensions today
- Modifications of SAP code
- Extensions calling SAP code (no APIs available)
- Software updates require major adoption effort in customer / partner code.

SAP S/4HANA Extensibility Concept

Side-by-Side Extensibility based on SAP Cloud Platform
- Full-fledged development platform to build extension applications (Java, JavaScript, SAP HANA native development)
- Based on stable external (web service) APIs SAP Cloud Platform

In-app Extensibility with Key User Tools
- Custom fields and tables, custom analytics and forms, business logic (cloud ABAP Web editor), …
- Web-based key user tools
- Based on stable extension points and APIs

Custom Code Development and Extensions (on premise only)
- Full access to ABAP development objects and tools
- Reduce TCO and speed up cycles of innovations by using loosely-coupled extensions and stable APIs where possible
Workflow Extensions
Extensibility concept for Workflows

### Workflow Extensibility

#### ③ Side-by-Side Extensibility with SAP Cloud Platform Workflow

#### ① In-app Extensibility with Manage Workflows

#### ② Development of custom workflow scenarios (on-premise only)
Business Use Cases for Workflow in SAP S/4HANA

Approval Processes (Main Use Case)
- Approval in background based on conditions
- One-Step Approvals (Content delivered by SAP)
- Multi-Step Approvals (Configured by Business User)

Available Scenarios in SAP S/4HANA Cloud (1808)
- Procurement: Purchase Request, Purchase Order, Supplier Invoice, Quotation, Purchase Contract, Scheduling Agreement, Service Entry Sheet
- Finance: Bank Account Management, GL Journal Entry Verification
- Sales: Credit Memo Request
- HR: Time Sheet Approval

Dynamic Process Routing
- Change Management with Status Control
- Review Process based on Functions

Available Scenarios in SAP S/4HANA Cloud (1808)
- Engineering: Change Request for materials or documents
- EIM: Legal Content Management
Workflow management in SAP S/4HANA – Driving Principles

• Business Owner Takes Control
• Fiori Design
• No development skills needed
• Simple
Demo

Manage Workflows
Migrating to new Workflow scenario

Workflow Template ➔ Workflow Scenario
Agent Rules ➔ Teams / Roles (Responsibility Management)
Dynpro ➔ SAPUI5 / Fiori
  (WEBGUI + Visual Harmonization)
Business Workplace / UWL ➔ My Inbox
Creating a Workflow Scenario
Side-by-side extensibility

Side-by-side extensibility with SAP Cloud Platform

- Integration with SAP Cloud apps and third-party solutions
- Extending core processes by before-and-after steps (for example, customer service or triggers from sensor data)
- New stand-alone cloud apps (Internet of Things)

SAP Cloud Platform

- Develop dependent extension
- Develop your own custom application
- Consume existing apps

Side-by-side extensibility

Integration

On-Premise

Cloud

User interface layer
Application layer
Database layer
SAP® Cloud Platform

- Commerce
- Globalization
- Master Data
- Rates & Measures
- LOBs & Industries
- Analytics
- Machine Learning
- Blockchain
- IoT
- Data Intelligence
- Integration & Orchestration
- Data Privacy & Security
- UX & Mobile
- Dev XP & DevOps
- Collaboration
- Data Management

Master data objects

APIs & Events

UI5 / Fiori
Mobile
Co-Pilot
WebIDE/ Cockpit
App Center/ Marketplace

→ User Experience
→ Channels/ Commercialisation

→ Higher-grade smart business services
→ Leonardo technologies
→ Platform services
→ Multiple, complementing and interoperable environments

Infrastructure:
Multi-cloud, private cloud

© 2019 SAP SE or an SAP affiliate company. All rights reserved.
SAP Cloud Platform Workflow

Enhance productivity with coordinated and accountable tasks
- Automate and track tasks such as approvals, order fulfillment, or time-sensitive partner collaboration
- Manage tasks using My Inbox
- Impress users with simple, consumer-grade user interfaces using SAP Fiori
- Improve processes and track running workflows

Rapidly build and modify workflow applications with web-based tooling
- Model workflows in SAP WebIDE using industry-standard Business Process Model and Notation (BPMN 2.0)
- Embed workflows into your custom-built applications using RESTful APIs
- Connect to other applications via service tasks
- Integrate business rules for flexible and agile decision management

Tailor your business processes by extending cloud applications and workflows
- Create process extensions for SAP S/4HANA (Cloud)
- Model customized extension workflows for SAP line-of-business applications such as SAP Hybris Cloud for Customer, SAP SuccessFactors, SAP Concur, or SAP Ariba
- Extend non-SAP cloud applications
SAP Cloud Platform Workflow – the bigger picture

On-premise IT Landscape
SAP Back-End Systems + 3rd Party

SAP® S/4HANA

Secure Network Channel

Cloud Connector

REST / OData

REST / OData

REST / OData

REST / OData

REST

REST

HTTP / RFC / SOAP

HTTP / IDOC / SOAP / OData

OData Provisioning

Other Services / Applications

SAP Jam

Workflow

Cloud Integration

Business Rules

SAP API Business Hub

SAP Cloud Applications

SAP Ariba

SAP Concur

SAP® C/4HANA

SAP Fieldglass

SAP SuccessFactors

SAP® S/4HANA Cloud
Demo

SAP Cloud Platform Workflow
Migration Options

Custom Workflow (ECC/Suite)

Yes

Covered by standard scenario?

No

Manage Workflows

SAP S/4HANA on-premise

Cloud or on-prem?

SAP S/4HANA Cloud

Cross-system or local?

Cross-system

CP Workflow

Yes

local

No

business need?

Custom Workflow scenario

Yes

No

Leave as is
Thank you.
Agility is key – Traditional in-app extensibility has created gridlock

Massive in-app SAP ERP modifications inside the stable core force the majority of the IT budget being allocated to keep the lights on instead of delivering innovations to the Business.

Traditional on-premise system architecture have complex release processes which limit innovations deployments to 1x or 2x a year.