SAP Process Orchestration – News and Roadmap

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Customer

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Agenda

Where are we today?

Latest features

Roadmap topics

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Where are we today?

SAP Process Orchestration

Where are we today?

Data from March 2016

9,100+

licensed customers

7,400+

productive customers

~400

productive customers with B2B add-on

~190

new **licensed** customers per quarter

~150

new **productive** customers per quarter

~40%

running on **latest releases** 7.31, 7.4 or 7.5

How is SAP Process Orchestration used at customers?

- Integration scenarios: A2A, B2B, EDI, ESB, SOA
- SAP and to a large extent non-SAP integration
- On-premises to on-premises as well as on-premises to cloud
- Human-centric as well as integration-centric business processes across applications
- Replacement of 3rd party middleware and B2B solutions
- Processing of millions of messages per day

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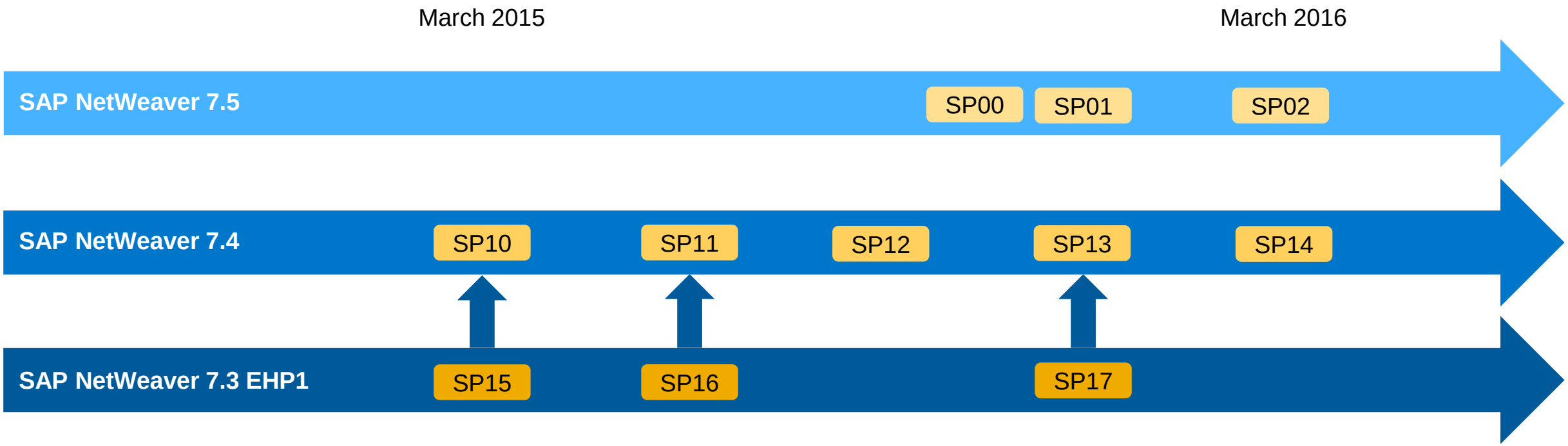
SAP Process Orchestration

Continuous innovation



Further enhancements via additional Add-ons

- Business-to-Business Add-on
- Secure Connectivity Add-on
- Connectivity Add-on

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Latest features

Developer productivity

Unified Eclipse-based development environment

Today

Unified tooling in Eclipse

- PI, ESR, BPM and BRM development all in SAP NetWeaver Developer Studio
- Based on Eclipse Mars (4.5)
- **Closing major gaps in ESR in Eclipse compared to Java WebStart UI**
  See blog series
- **Improved operation and maintenance of Integration Flows**

Leverage the full power of BPMN

- Model both processes and integration flows in BPMN
- Develop based on standard enterprise integration patterns
- Exchange process models via BPMN 2.0 XML serialization standard
- Seamless integration of SAP PowerDesigner with Process Composer

Transport & Lifecycle Management	**Mapping**
• File transport* • CTS+ transport • Release of Change List via CTS+ • Transport log • Transfer of design objects • Version history	• Display queue* • Error markers in message mapping • Support for recursive structures • View Enhanced fields in Data Type & Mapping editor • Copy part of expressions • Compare mapping versions • Show value of constant function
Change List & Content Organization	**Usability**
• Copy of ESR objects** • Import of external definitions** • Transfer / Transfer & Activate other's change list • Close change list without transport • CRUD of Software Component Versions • CRUD of folder / move objects across folders	• Search* • Where-used list** • Expand all, Collapse all options on source/target tree • Easier connectivity of function bricks in mapping • Drag & drop types to Data Type editor • Group nodes without content is not shown in ES browser

* Supported from 7.31 SP 16 / 7.4 SP11 onwards
** Supported from 7.50 SP00 onwards
Rest all supported from 7.50 SP02 onwards

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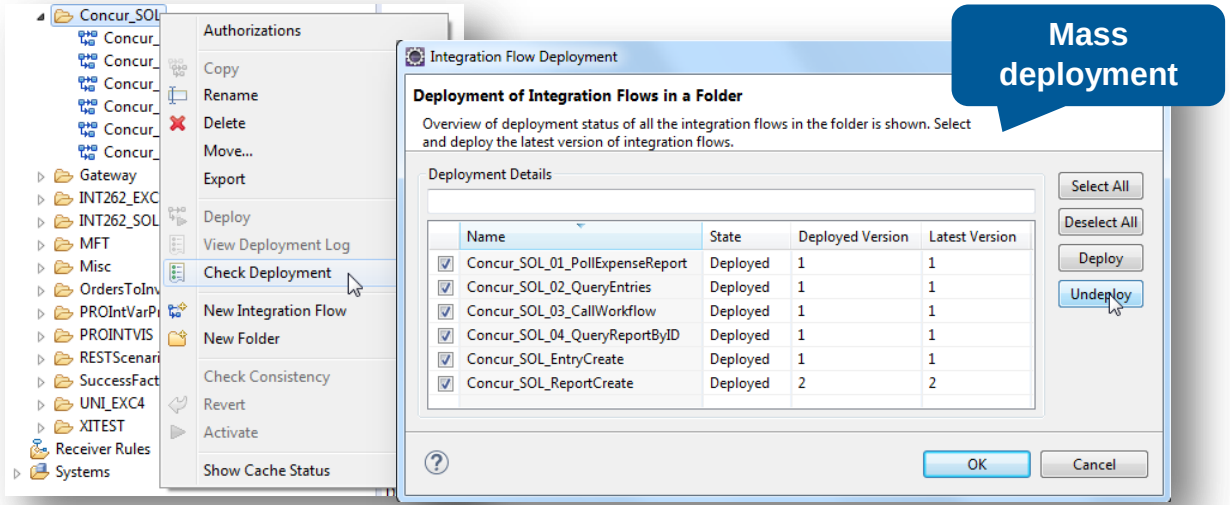
Developer productivity

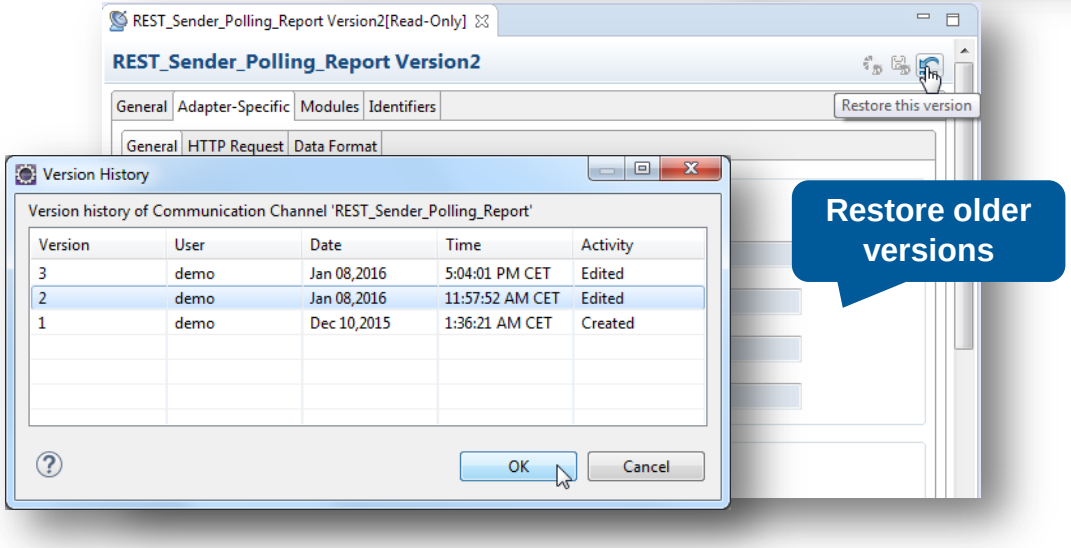
Configuration enhancements

Today

Integration Flow enhancements

- Enhanced transport capabilities of Integration Flows
  - Exports can be started from context menu
  - Hide deleted objects
  - Automatically deploy after import
- Reload/refresh the assigned referenced channels
- Show deployment status of all integration flows
- Mass deploy or undeploy
- View history and restore older versions





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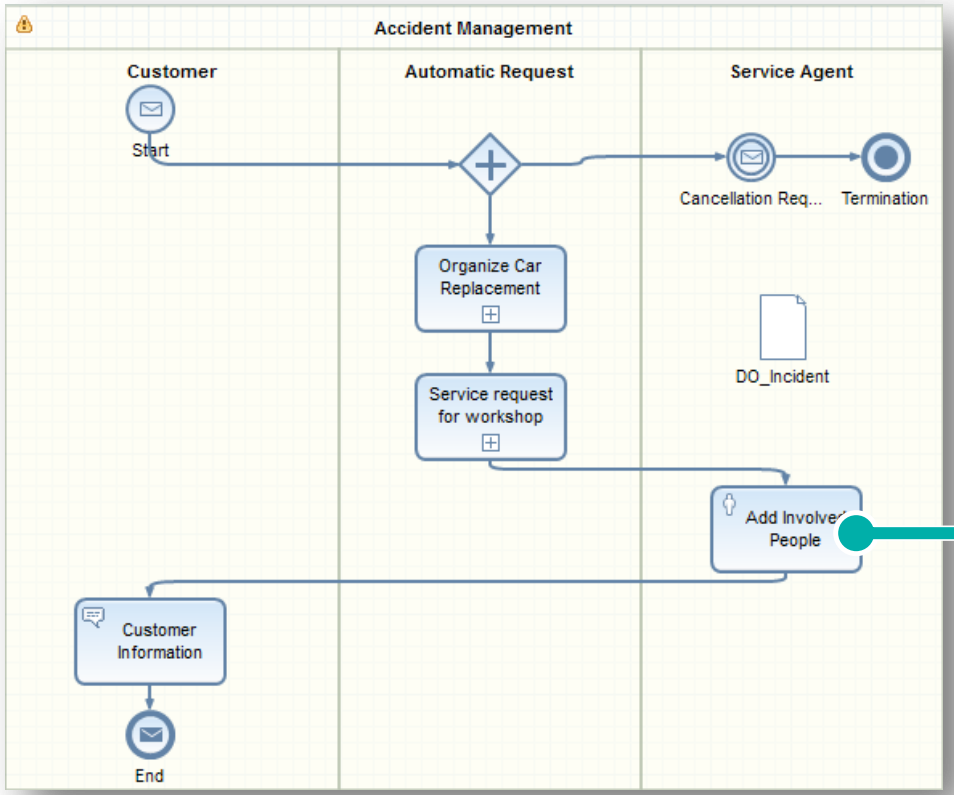
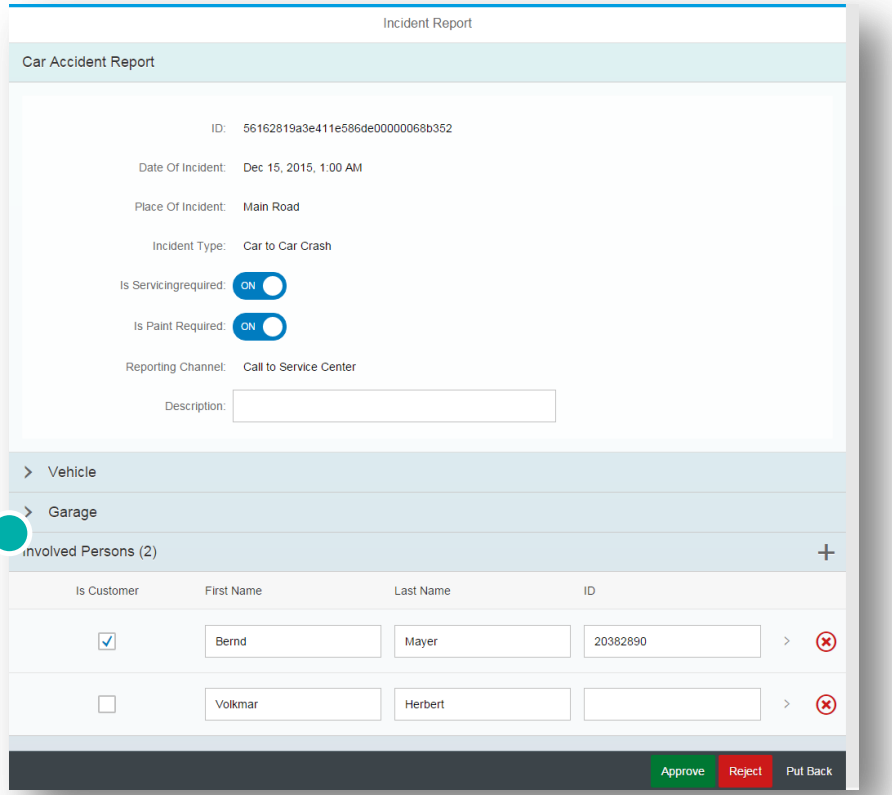
Developer productivity

Generating SAPUI5 Task UIs from process context

Today

Automatic generation of Task UI for a human activity
Support for complex types, collections and faults
Preview of UI in SAP NetWeaver Developer Studio





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Today

Improved end user experience

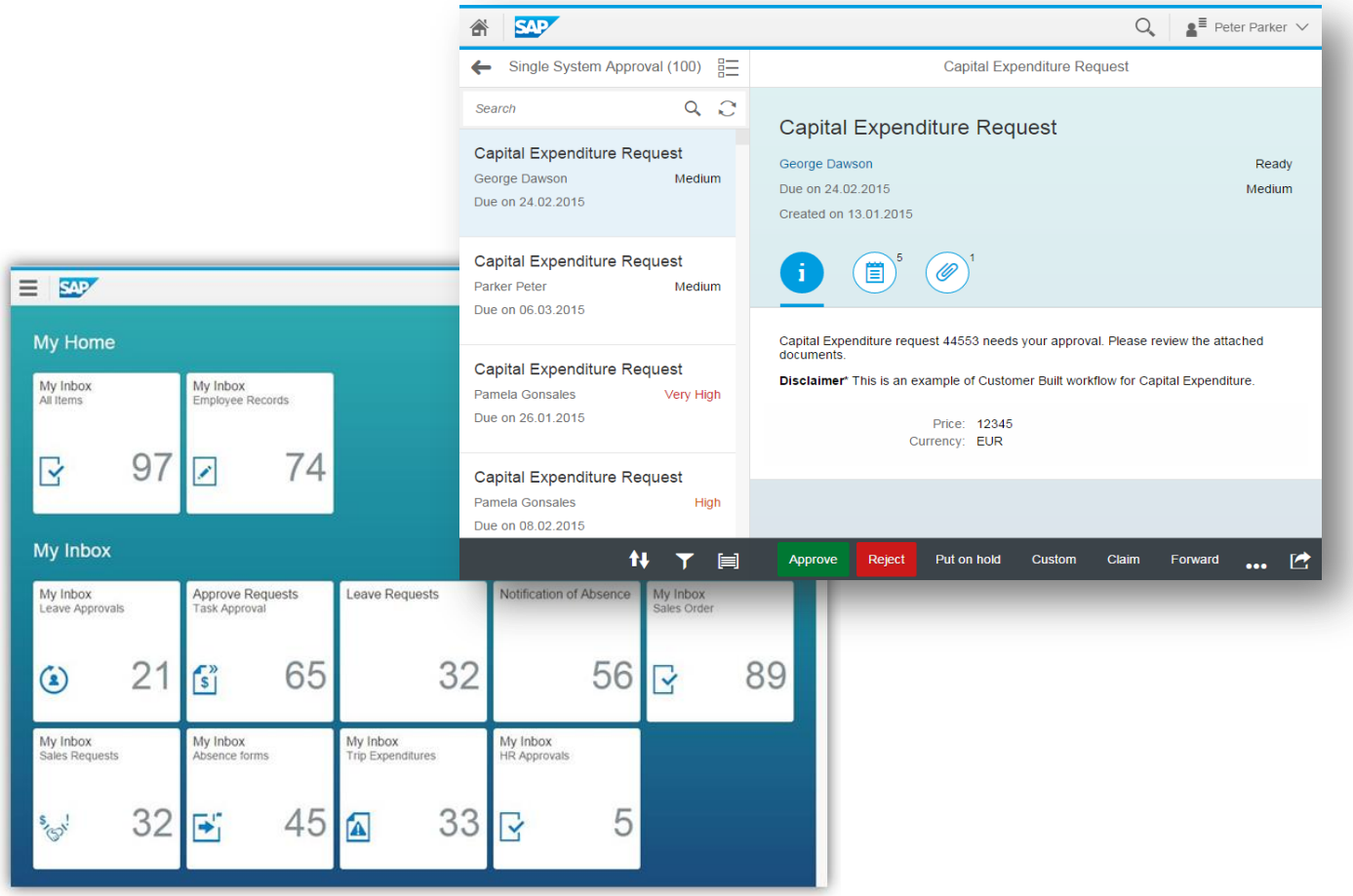
Manage all your tasks from a single inbox

“My Inbox” application in SAP Fiori*

- Manage tasks from different systems
- Fully responsive across different devices
- Integrated into Fiori Launchpad
- Customizable via Fiori extensions
- Supports SAP BPM and SAP Business Workflow tasks

Features

- Sort, group and filter the task list
- Search for individual tasks
- See task details and custom attributes
- Complete task via direct action
- Mass approval
- Navigate to task application
- Attachments and comments
- Forward tasks
- Send task via email or post to JAM
- Manage substitutes



* My Inbox is available separately and not part of SAP Process Orchestration

More information at http://scn.sap.com/docs/DOC-62602

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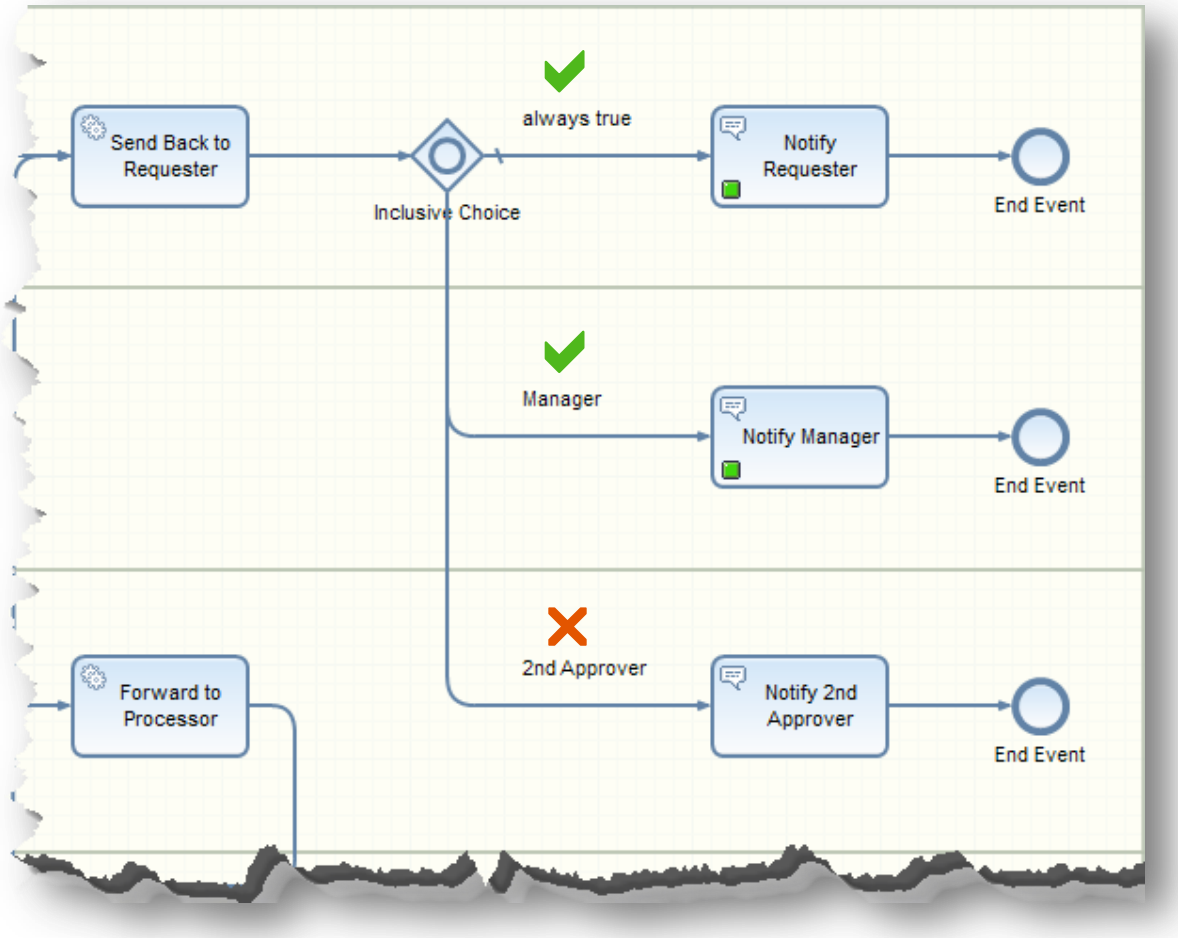
Developer productivity

BPMN inclusive gateway

Today

New BPMN shape introduced in Process Composer and supported by process runtime

- Define multiple conditions based on process context data
- Split up token flow into one or more parallel tokens based on the matching conditions
- Merge back via uncontrolled merge, or end with multiple end events



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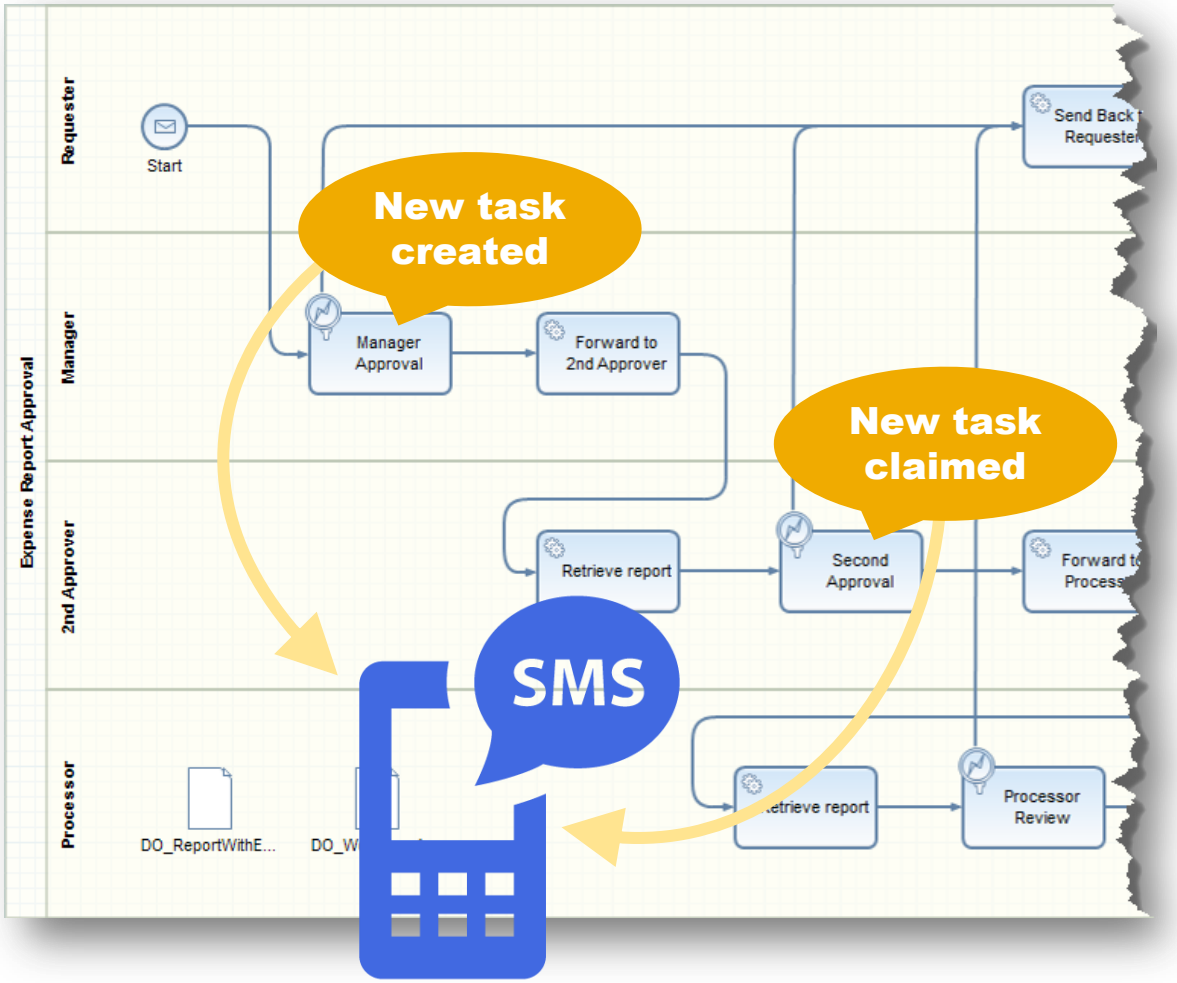
JMS Provider for BPM Events

Access lifecycle events with Push API

Today



SAP BPM provides access to lifecycle events with a Push API

- Register for events on process or task instances
- Receive events for process completion, task creation, etc.
- React accordingly, by e.g. sending notifications (SMS, email, App, etc.)

Events are published using Java Message Service (JMS)

- Leverages messaging system in SAP NetWeaver AS Java
- Exchange data without directly connected apps
- Communication is obtained using messages

An application can consume lifecycle events using the Java Public API

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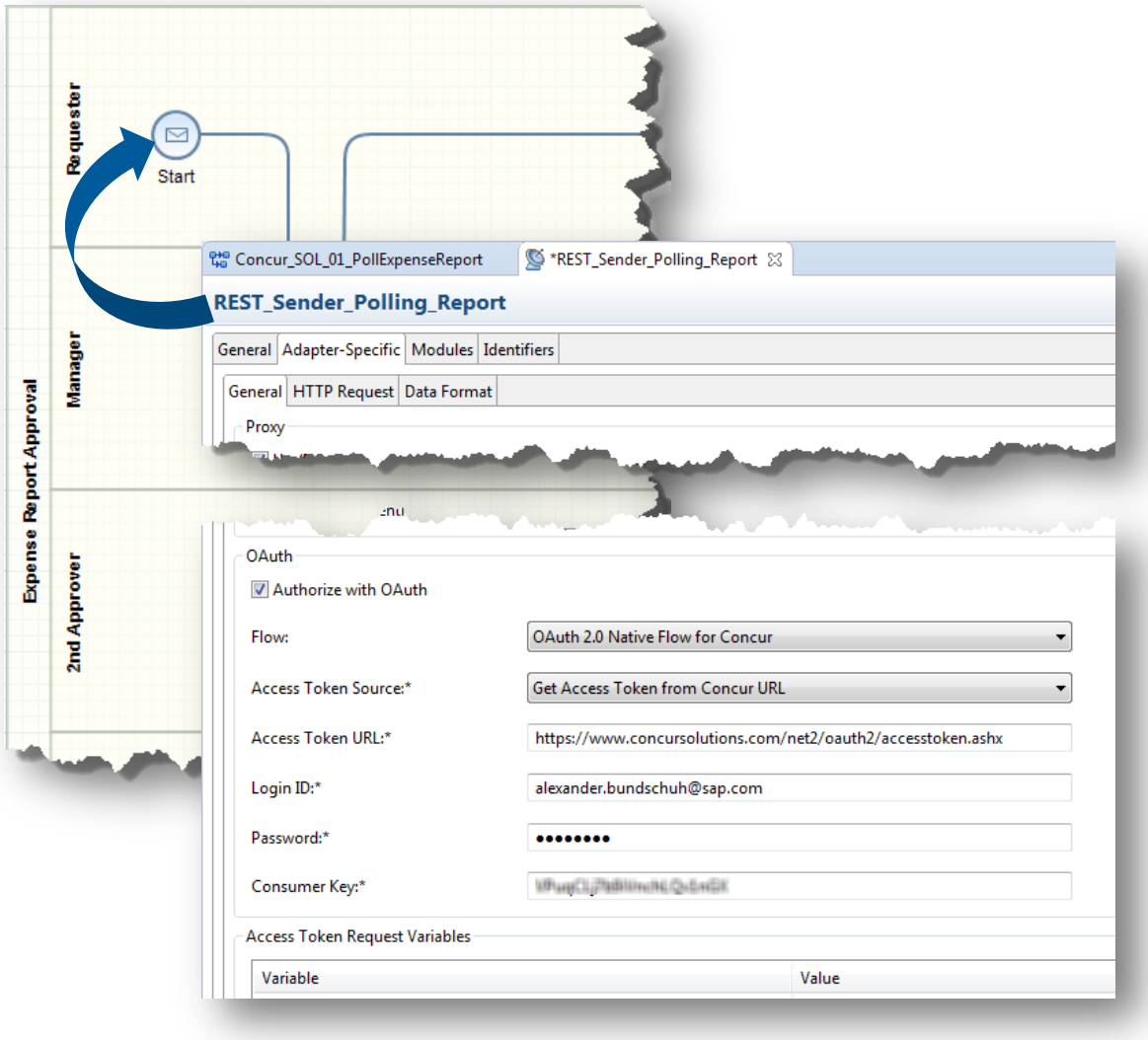
Enhanced connectivity capabilities

Consumption and provisioning of RESTful services

Today



Further enhancements with 7.5 SP01

- Enhanced XML/JSON conversion capabilities: supporting namespaces, array types and data types
- Enhanced custom error handling
- Support for Cross-Origin Resource Sharing (CORS)
- Anonymous access on sender side
- Customizable HTTP result headers on REST sender channel
- Keep HTTP response headers
- Support for Access Control List
- Support for OAuth 2.0 Native Flow for Concur
- Disabling server redirects of HTTP GET calls
- Custom Actions for sender polling when token is missing or empty

- For more details about REST adapter capabilities, see blog series

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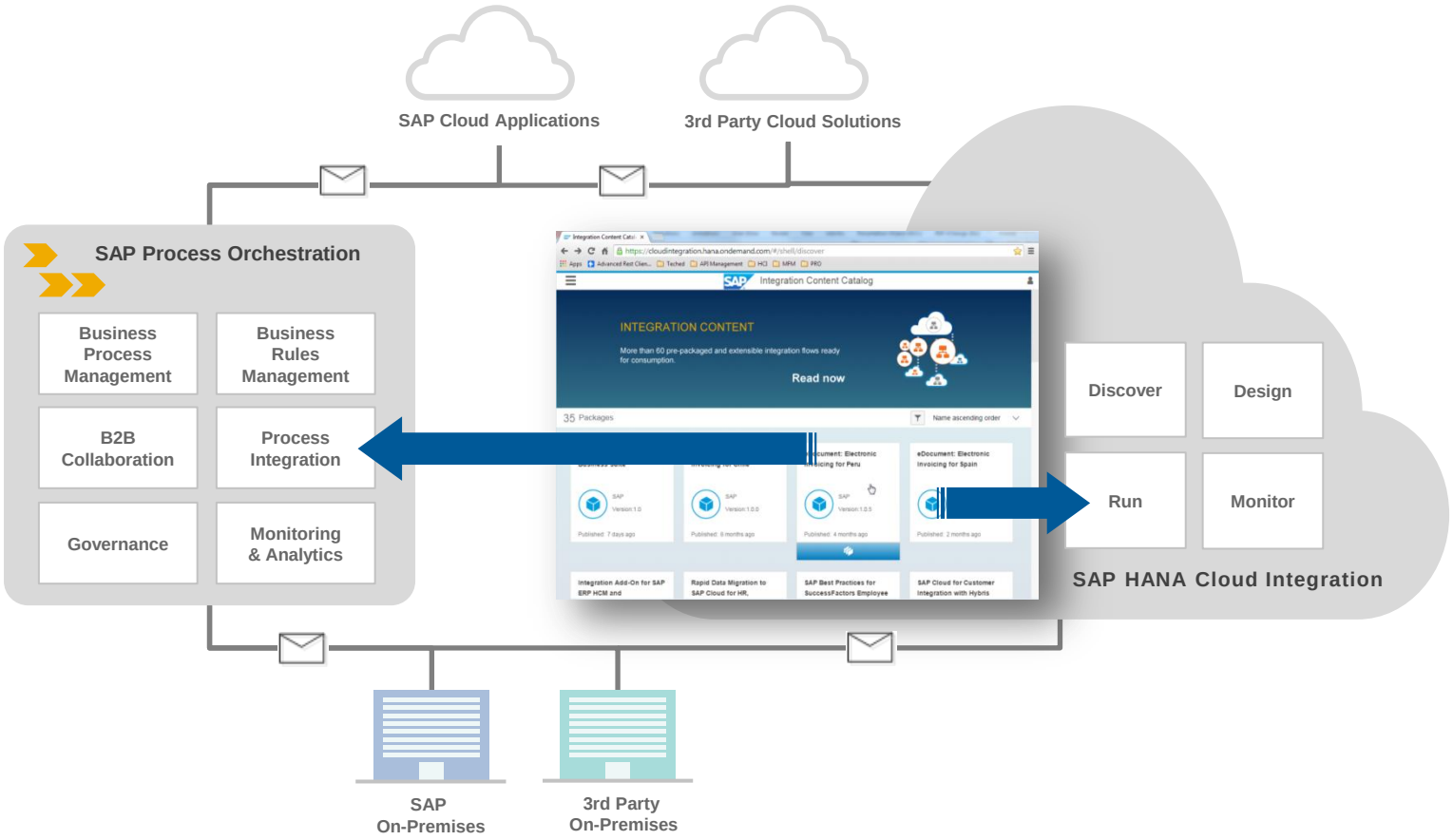
Cloud integration content at SAP Process Orchestration

Content re-use across SAP's integration platforms

Today



Further Enhancements with 7.5 SP02

- HANA Cloud integration capabilities as documented in Supported Components, Adapters, and Events
- Search cloud integration content messages based on message GUID
- Show cloud integration content messages in message overview monitor
- Audit log has been enhanced to show deployment and un-deployment of cloud integration content
- New scheduler jobs for cleaning up message processing log (MPL) store, data store and message store

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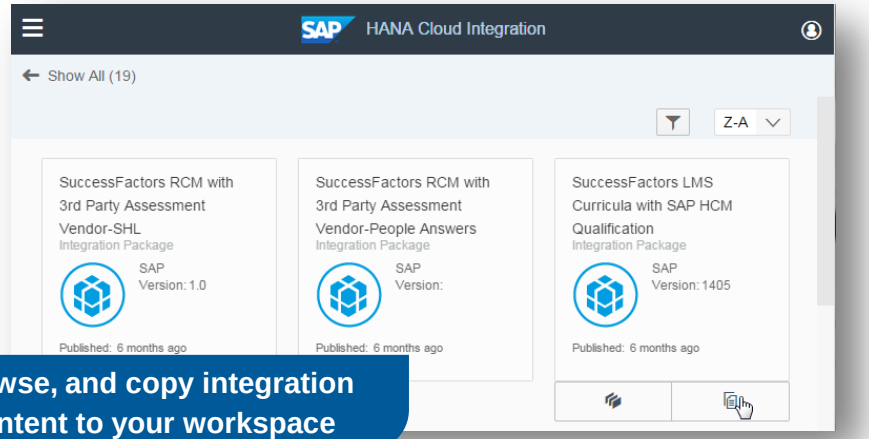
Flexible deployment options

Content re-use across SAP's integration platforms – step-by-step

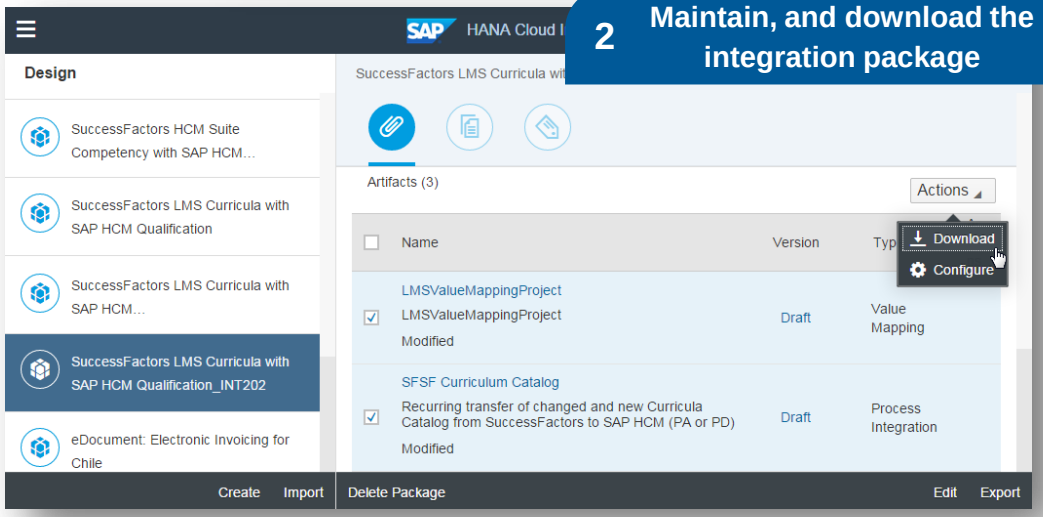
Today

Cloud

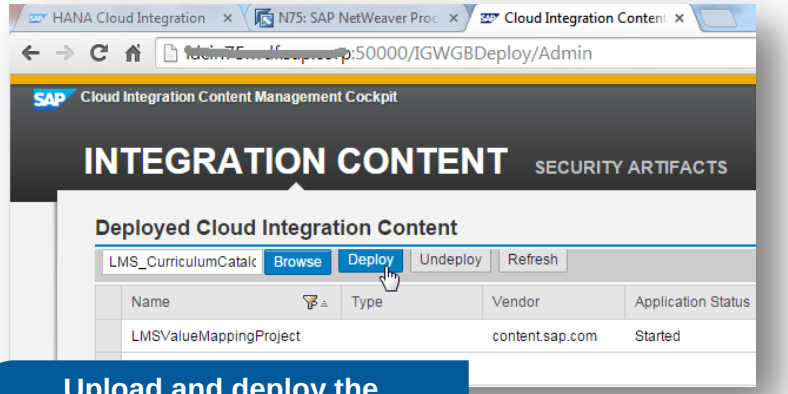
On-Premise



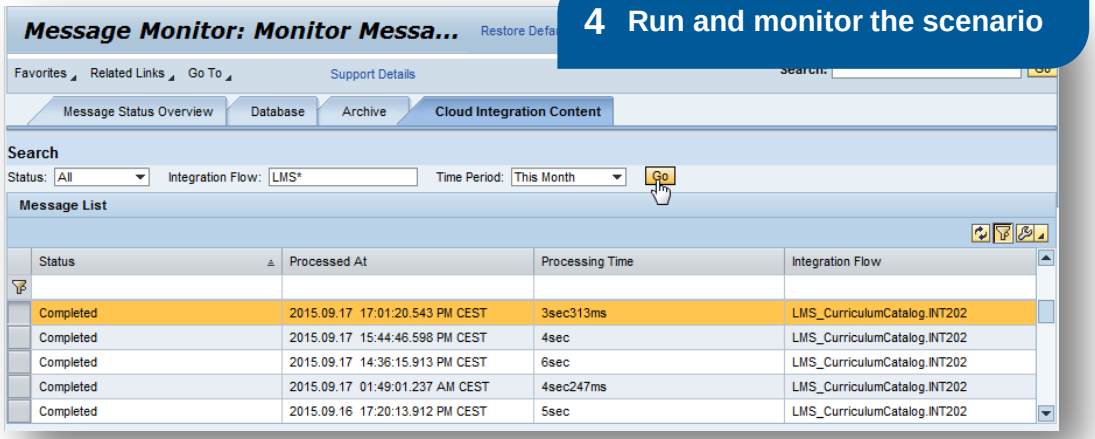
1 Browse, and copy integration content to your workspace



2 Maintain, and download the integration package



3 Upload and deploy the integration package



4 Run and monitor the scenario

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Developer productivity

Migration to SAP Process Orchestration

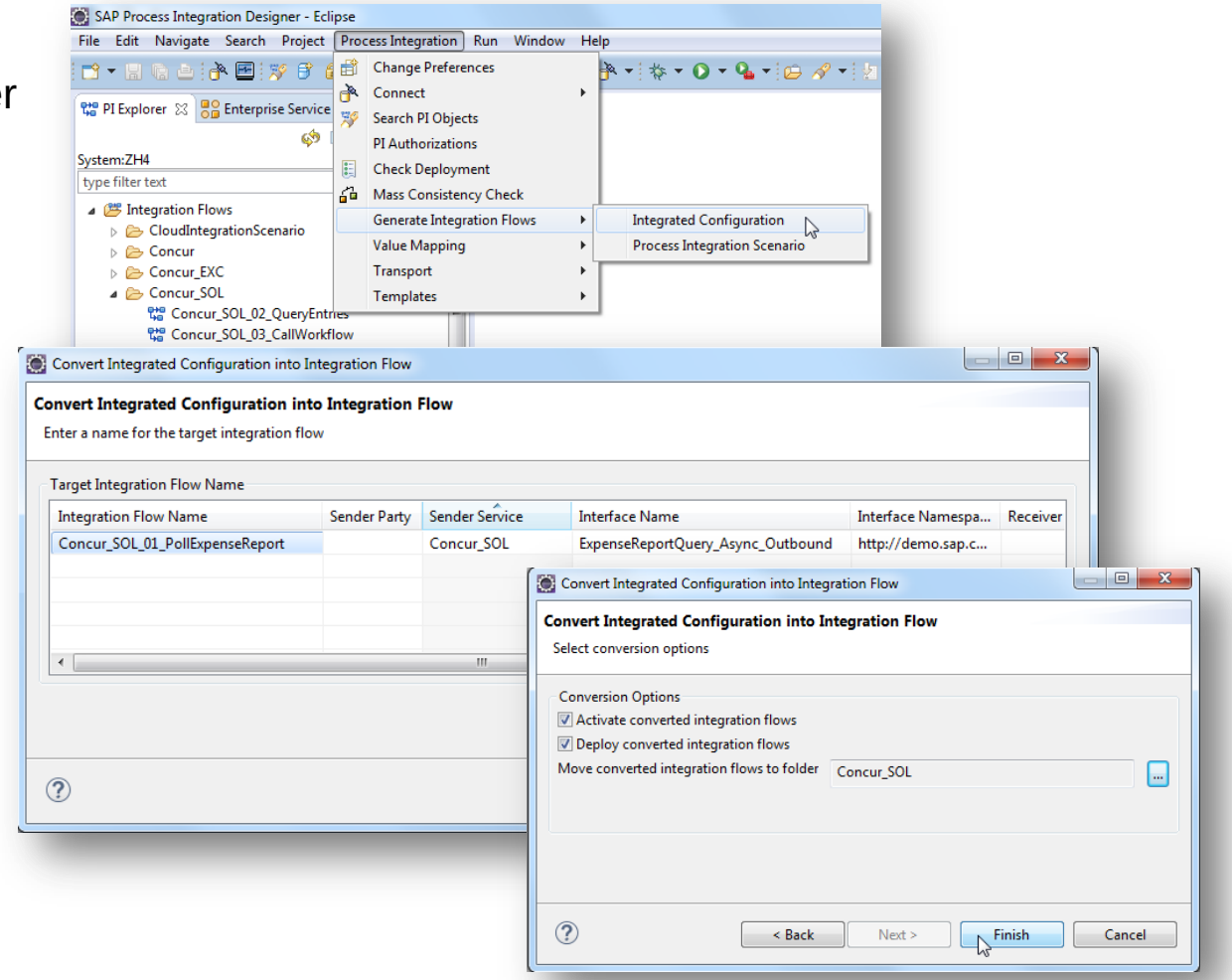
Today

Integration Directory migration tool enhancements

- Choose between migrating PI Dual-Stack scenarios to either Integrated Configuration Objects or Integration Flows
- Supporting migration of scenarios with Receiver Rules
- Automatic resolution of Receiver List for scenarios with Extended Receiver Determination

Process Integration Designer enhancements

- Converting Integrated Configuration to Integration Flow



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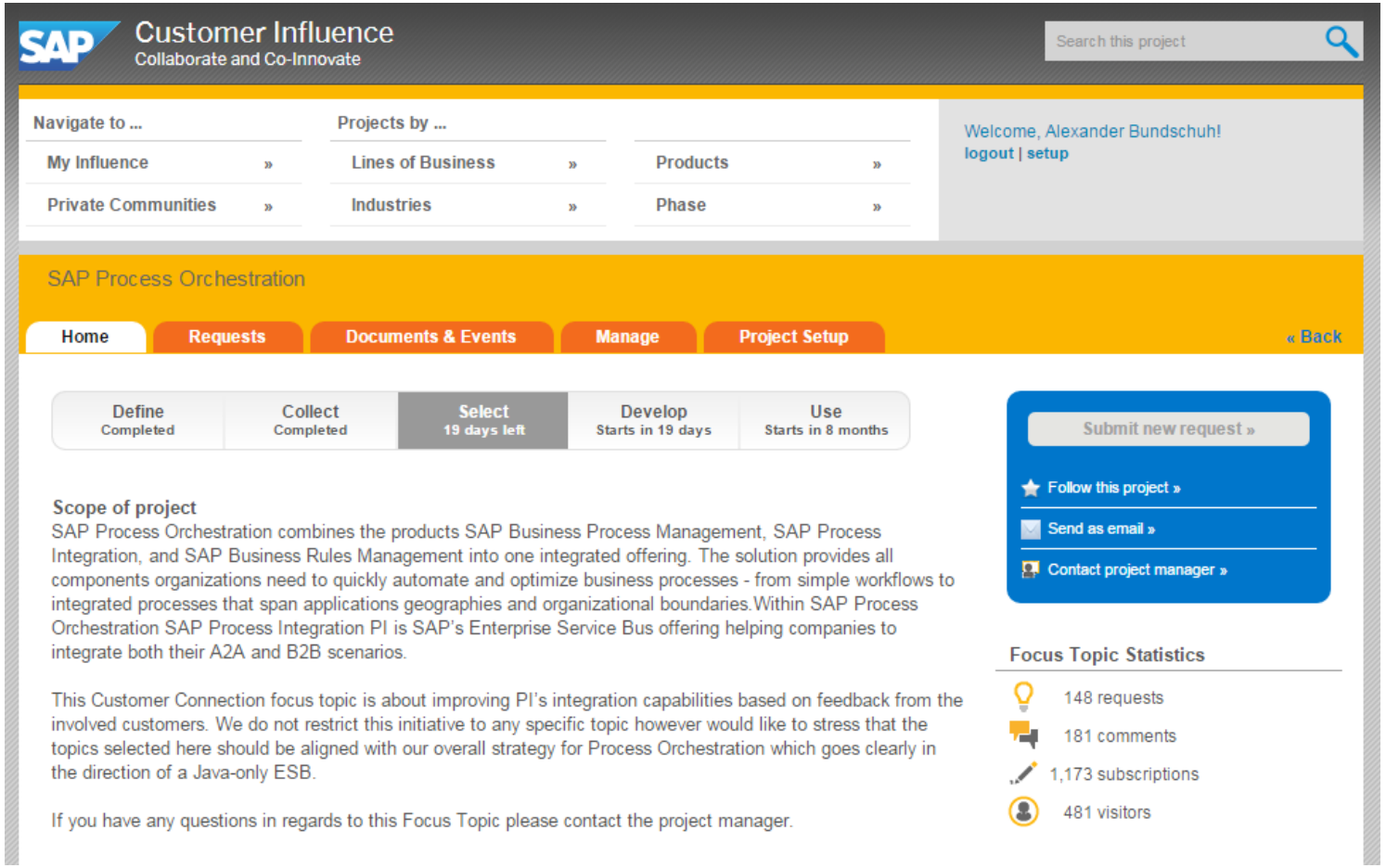
Roadmap topics

Continuous innovation

Customer connection project for SAP Process Orchestration

https://influence.sap.com/PO2015



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Customer connection project

Selected Requests

Request title	Code	Points	Category	Status
Allow multiple inbound channels for one ICO / Integration Flow	D9801	22	Configuration	Scoped
Integration Flow: Visualization for large amount of receivers	D9438	19	Configuration	Stretch
Message monitoring at service operation detail level	D7724	18	Monitoring	Scoped
Message Monitor: Possibility to Save the Favorite display settings as Variant	D9901	18	Monitoring	Scoped
Custom monitoring layout	D9753	18	Monitoring	Scoped
Automatic alerting capability from BPM	D7760	17	Monitoring/BPM	Scoped
Missing channel ping functionality for AS2 adapter (B2B Add-On)	D9437	16	Monitoring/B2B	Scoped
File sender channel to support trigger file	D9742	15	Adapter	Scoped
EDISeparator: Limited field length for sender and receiver id / support for lists	D9532	14	B2B	Scoped

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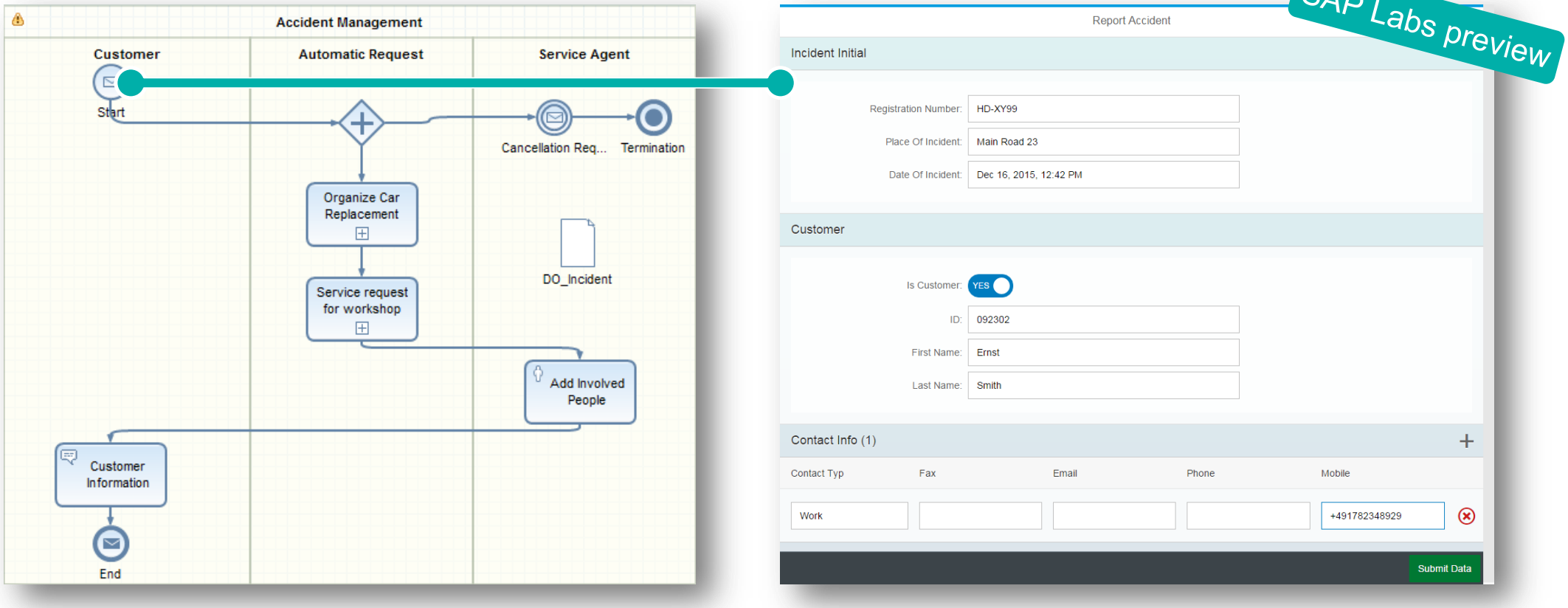
Developer productivity

Generating Fiori UIs for process start

Planned Innovations

Automatic generation of UI for a message start event
Human triggering a business event requires human interaction with an UI



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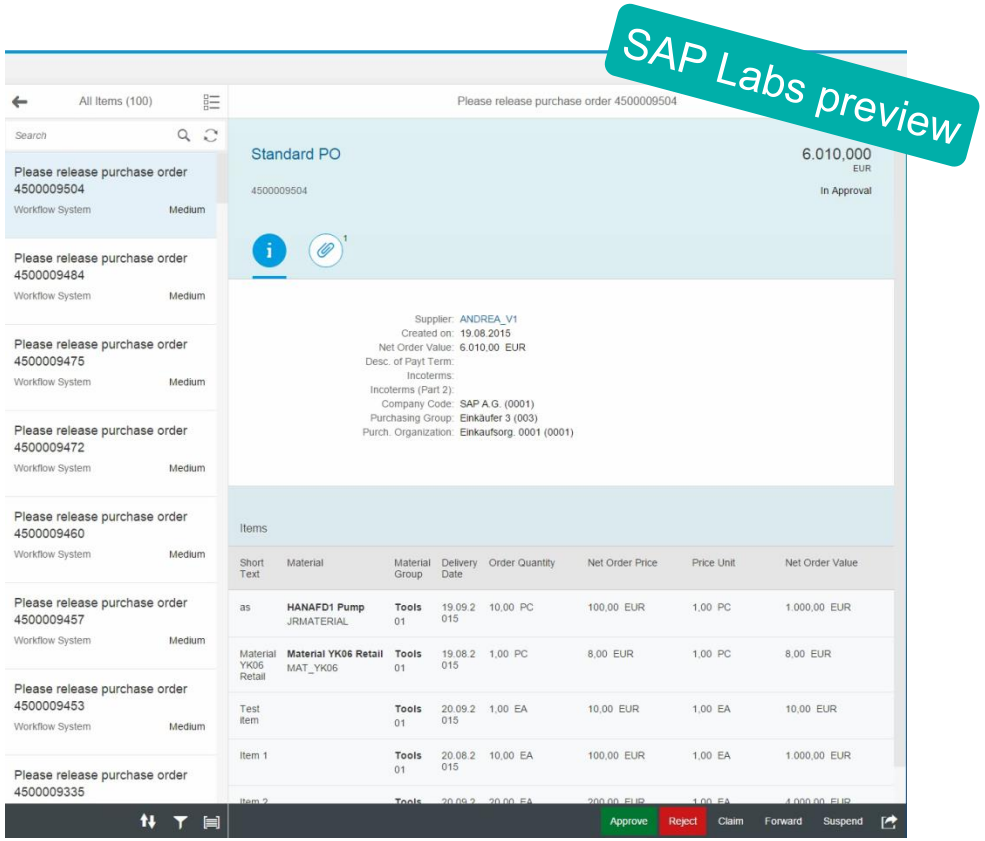
Developer productivity

Form engine for BPM

Planned Innovations

Reduce development efforts by building UIs without code

- Define UIs for process start and task processing with an easy-to-use forms editor in NWDS
- Rendered as Fiori UI, natively integrated into My Inbox
  - Value Help, Input Validation, Theming, etc.
- Adjust the UI layout by adding additional parameters
  - Logical grouping and ordering
  - Supported by a specialized tool without touching any coding
- Supports the requirements definition process with LoB users
  - Quick roundtrips with immediate results
  - Supports UI prototyping and agile project methodology



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Developer productivity

Integration flow enhancements

Planned Innovations

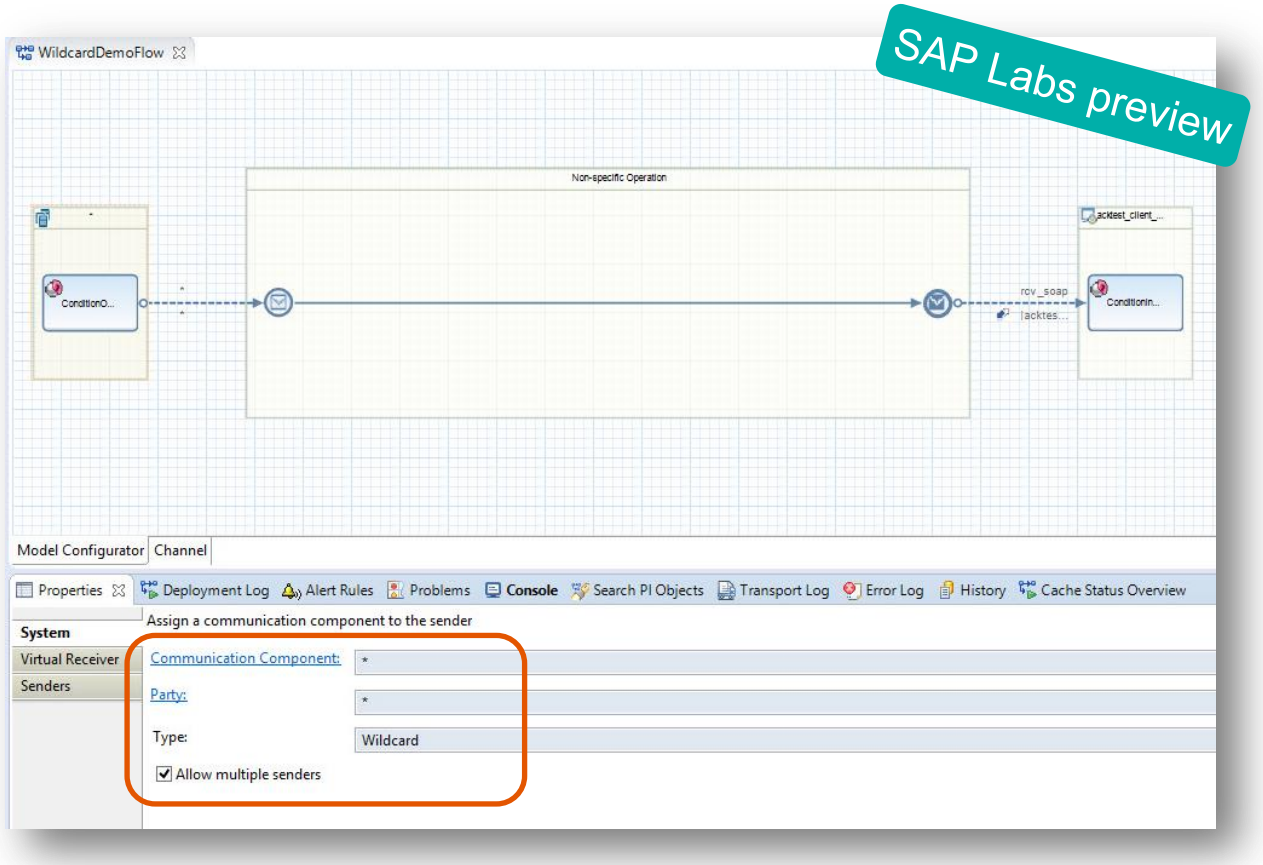
Lower configuration effort in case of same routing rules for multiple integration scenarios
Better visibility in case of mass receiver components

Mass maintenance of Integration Flows

- Wildcard logic at sender as well as receiver side
- Support of sender and receiver agreements
- Maintenance of receivers in table structure

Additional Integration Flow patterns

- Native support for Integration Flows across multiple adapter engines



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Monitoring and operations

Monitoring enhancements

Planned Innovations

Personalized views in integration monitors

- Save display settings, visible columns, sort sequence, etc., as your personal favorites
- Enhance existing A2A and B2B view with custom views

Message monitor at service operation level

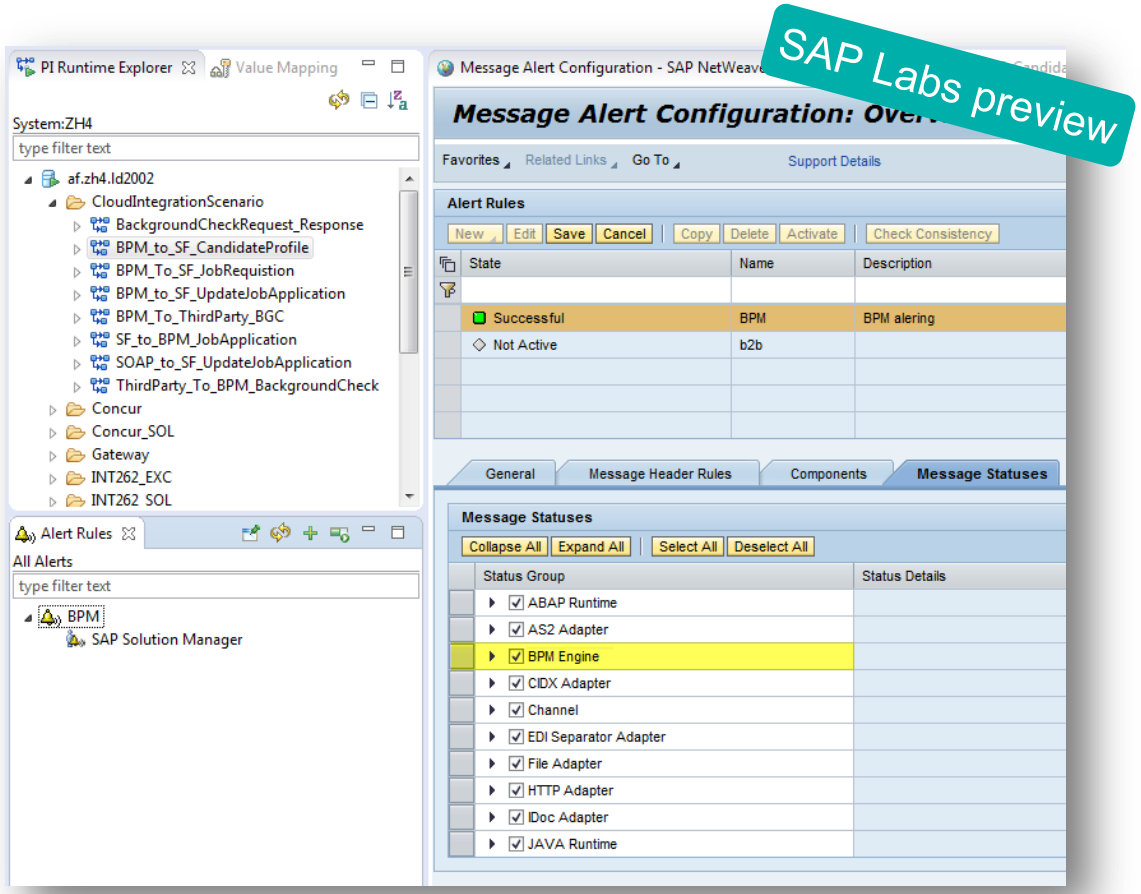
Alerting for BPM processes

- Leverage PI alerting infrastructure for BPM processes

Monitoring of cloud integration scenarios via SAP Solution Manager

- Availability and self test
- Aggregated message status

Channel ping for B2B adapters



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Flexible deployment options

Shared integration capabilities

Planned Innovations

Benefit from investments in SAP HANA Cloud Integration

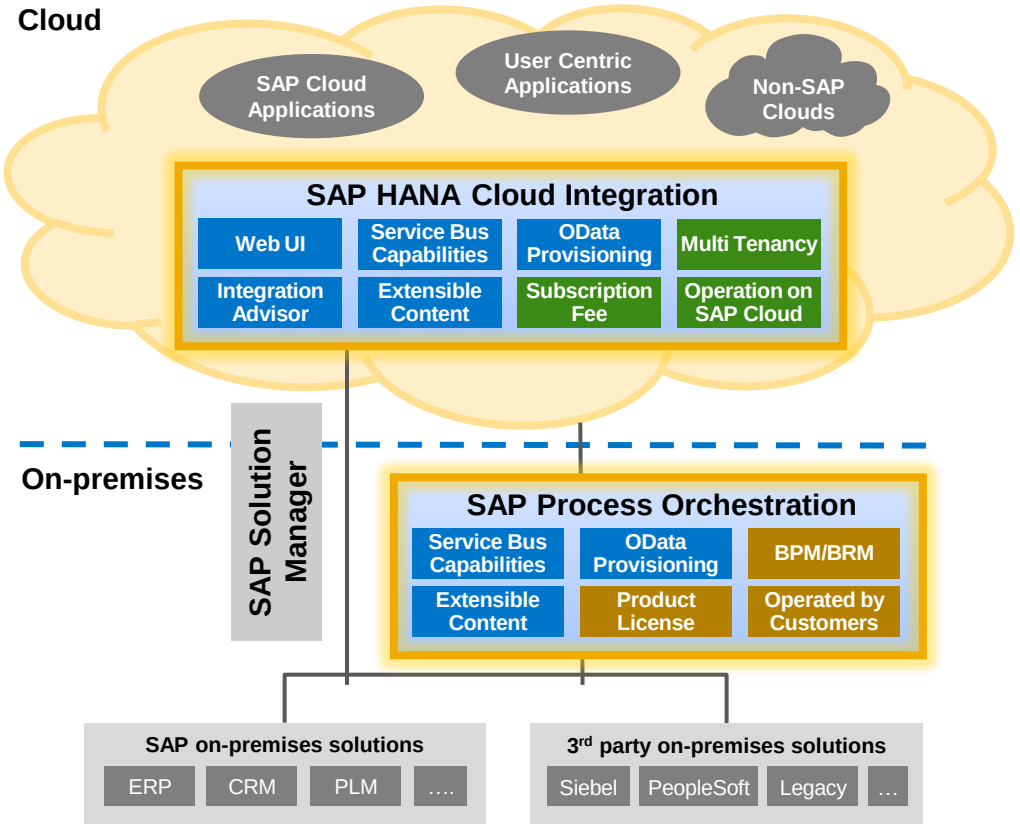
- Common cloud-based design time for modeling integration content
- Continuous updates of cloud integration runtime capabilities in SAP Process Orchestration as documented in Supported Components, Adapters, and Events
- Support for further integration content for hybrid integration scenarios
- Shared adapter SDK for 3rd party adapters

OData integration and provisioning

- Additional data sources for OData provisioning such as SOAP, REST, JPA, JDBC, etc.
- Composition of OData Entities from multiple data sources
- Browser based tooling for modeling OData entities

High-performance and high-volume messaging scenarios

- Co-innovation with HW appliance provider for Big Data movement



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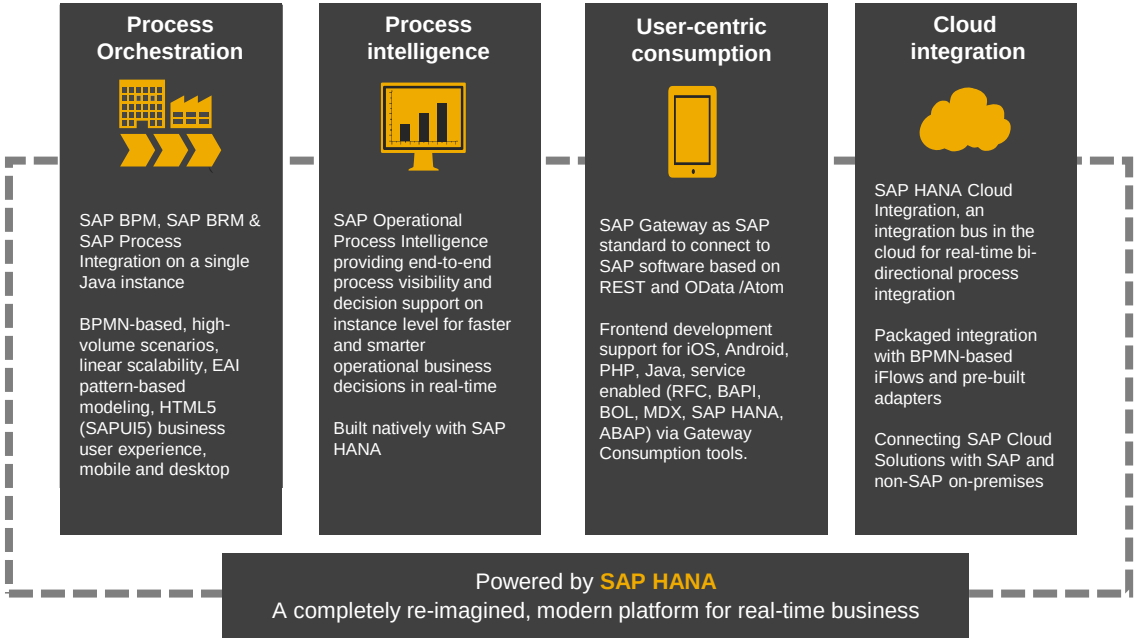
Related road maps

In the context of SAP's orchestration and integration portfolio, refer to the following other roadmaps

Related product road maps available on Service Marketplace:

- SAP Operational Process Intelligence
- SAP Gateway
- SAP HANA Cloud Integration
- SAP API Management
- SAP PowerDesigner



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Thank you

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