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Agenda

Status Update
Customer Scenarios
Planned Innovations
Roadmap
Status Update
Integration and Orchestration Overview
What is the broader context?

Your Business Processes

Cloud Integration & M2M

Economy of APIs

Smart Process Apps

SAP Gateway

SAP HANA Cloud Integration

SAP Process Integration

SAP BPM

SAP Operational Process Intelligence

SAP HANA

SAP API Management

Engagement

Introduction

Show & tell

Outlook
SAP Process Orchestration
Where are we today?

<table>
<thead>
<tr>
<th>Count</th>
<th>Description</th>
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<tbody>
<tr>
<td>8,750+</td>
<td>Licensed customers</td>
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<tr>
<td>#2</td>
<td>Second largest adopted Integration Platform</td>
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<tr>
<td>~200</td>
<td>New customers per quarter</td>
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<tr>
<td>300+</td>
<td>Productive customers with B2B add-on</td>
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<td>25%</td>
<td>TCO reduction*</td>
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<tr>
<td>~46%</td>
<td>On SAP PI releases 7.30, 7.31, 7.40</td>
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* Runs on SAP HANA as of SAP NetWeaver 7.4
* Enabling integration across on-Premise and cloud
* BPMN as common notation

* based on customer case study
Gartner Magic Quadrant for On-Premises Application Integration Suites (G00266699); Published: 29 July 2014

Summary

- SAP on-premises integration platform capabilities consist of ... SAP PO 7.4 and SAP Gateway 2.08. SAP PO ... provides ESB, application services governance, orchestration and B2B integration capabilities. SAP Gateway primarily supports integration of mobile apps with SAP back-end applications via the REST/Odata protocol.

- SAP PO went through a major architectural refresh in v. 7.31 when the product was moved on top of a Java foundation. Previously, SAP PO required users to deploy a Java application server and the ABAP stack ...
## Release schedule

### SAP NetWeaver & Add-ons

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| **SP 05**        |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |

* planned, times subject to changes by SAP
SAP Process Orchestration sizing guidelines

Official sizing guide for SAP Process Orchestration
• Combining sizing for integration-centric (message-based) and human-centric (task based) scenarios
• Factors influencing the sizing
• Database sizing
• Sizing for SAP HANA

Go to service.sap.com/sizing

Direct link: https://service.sap.com/~sapidb/011000358700000454652010E/SAP_NW_PO_v3.pdf
New RKT content

New presentations and videos on

- Process Orchestration overview
- Installation options
- PI-BPM Connectivity
- Performance and Sizing
- Operation Mappings
- Integration Patterns with BPM
- Monitoring

Go to service.sap.com/rkt

Direct link:
https://service.sap.com/~form/sapnet?_FRAME=CONTAINER&_OBJECT=011000358700000250862013E
Process Orchestration video tutorials on Youtube

Full list:
https://www.youtube.com/watch?v=Fr-yprRorDCk&index=53&list=PL5D26408DBA0EC1CF
Licensing – technical guide

Document on technical questions regarding SAP Process Orchestration licensing

- Which technical instances to count (e.g., web dispatcher)
- How to count cores on Windows, Linux, IBM Power, Solaris, HP-UX
- Simple T-shirt sizing
- How to count cores in virtualized environments

Direct link:
https://service.sap.com/~sapidb/011000358700000380442014E
## SAP Process Orchestration

### Product road map overview - key themes and capabilities

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<th>Planned Innovations</th>
<th>Future Direction</th>
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- Enhancements in ESR Eclipse perspective
- BPM OData services
- Generation of task UIs in SAPUI5
- Synchronization of process models with external repositories

### User experience
- Task Substitution profiles
- My Inbox in SAP Fiori

### Monitoring and operations
- Directory content migration tool enhancements
- EDI monitor view

### Connectivity
- OData, WS-RM, SuccessFactors, REST adapters
- OData provisioning of backend data

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### Governance and operations
- Integration with SAP API Management

### Connectivity
- Further enhancements of REST adapter
- JMS provider for BPM events

### Flexible deployment options
- Running HANA Cloud Integration content on Process Orchestration

### Developer Productivity
- Browser-based Form and Approval Workflow Editor
- Enhanced forms engine for BPM

### Single integration platform
- Addressing the needs of multiple integration domains with one single solution
- Message bus for Big Data and IoT scenarios
- Enhanced OData provisioning capabilities

### Flexible deployment options
- Shared capabilities between PI on-premises and HANA Cloud Integration
- Smart Process Applications on SAP HANA Cloud Platform

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(NeWeaver 7.4 SP11, B2B Add-on 1.0 SP04)

This is the current state of planning and may be changed by SAP at any time.
Developer productivity
Unified Eclipse-based development environment

Unified tooling in Eclipse
- PI, ESR, BPM and BRM development all in SAP NetWeaver Developer Studio
- Develop based on standard enterprise integration patterns
- Graphical mapping editor enhancements in ESR Eclipse
- Full search capabilities in ESR Eclipse
- Transport via file export/import in ESR Eclipse
- Re-import service interface from ESR
- Generation of task UIs in SAPUI5
- Migration of integrated configuration object to Integration Flow

Leverage the full power of BPMN
- Model both processes and integration flows in BPMN
- Exchange process models via BPMN 2.0 XML serialization standard
- Copy process models to new version
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

Select check box to create an Integration Flow

Optionally, add further receivers

Automatically detect receivers
B2B add-on for SAP Process Orchestration
One component for EDI based B2B communication

Addressing your EDI integration needs
- Out of the box support for more than 8,000 EDI message types incl. custom B2B formats
- Support for wide range of technical connectors
- Drummond certification for AS2
- B2B specific monitoring enhancements
- Full support for handling B2B acknowledgements
- Message level encryption and digital signature
- Batch/bulk message handling

Single repository for managing, storing & browsing all your trading partners
- Dynamic look up of trading partner information at runtime
- Automatic certificate rollover mechanism for renewing certificates
- SLA definition for functional acknowledgments
- Archiving of B2B messages at various stages
B2B add-on for SAP Process Orchestration
Monitor B2B message exchange using standard message monitoring

Enhanced local message monitoring with B2B view to support monitoring of EDI

- Monitoring of sent and received technical (MDN, ERP, Delivery Reports) and functional acknowledgments (CONTRL, 997)
- Search based on
  - trading partner IDs, interchange control number, message types, partner names, region, industry, etc.
  - payload values (e.g., order number, etc.)
- View all related messages, e.g., incoming bulk, split single transactions, and acknowledgments
- Audit and Compliance: Retrieve and view raw EDI payloads along with converted XML messages
- View acknowledgement report
- View B2B related parameters defined in Trading Partner Management
Additional connectivity options
New and enhanced adapters on adapter engine

Shipped with Connectivity Add-on

- **SuccessFactors adapter**
  - Login, logout and session handling (session token)
  - Supporting simple, compound & adhoc SFAPI (SOAP)
  - Supporting SuccessFactors’ OData API
  - Supporting Learning Management System REST API
  - Automatic data polling using scheduler
  - Delta synchronization
- **OData adapter for service consumption**
  - Supports operations Query, Read, Create, Update, Merge & Delete
  - Supports server side and client side pagination
  - Support for batch processing
  - Supporting JSON and ATOM format
  - Support for OData resources having navigation depth up to level 2

Shipped with SAP Process Orchestration

- **WS adapter**
  - Support for Web Services Reliable Messaging (WS-RM) versions 1.0 and 1.1
  - WS Addressing
  - WS-Security Signature
  - SAML sender vouches
  - See SAP note [1997103](https://help.sap.com/nw-connectivity-addon102)
- **REST adapter**
  - Consumption and provisioning of RESTful services
  - Default and custom url pattern of http end point
  - Mapping of CRUD http operations to service interface operations
  - JSON to XML conversion
  - Determine channel based on JSON element
  - Limit channel to particular operation
  - Custom http headers
  - Custom error handling
  - OAuth 2.0 SAML bearer token
  - See blog series
OData provisioning
Current OData provisioning capabilities in SAP products
SAP Process Orchestration – Customer Scenarios
Faster Application-to-Application Integration with SAP NetWeaver® Process Orchestration

Company
Siemens Industry Drive Technologies

Headquarters
Erlangen, Germany

Industry
Industrial machinery and components

Products and Services
Controllers, drives, and simulation software

Employees
50,000 (including Siemens Industry Customer Services division)

Revenue
€9.64 billion (fiscal year 2012)

Web Site
www.siemens.com/drivetechnologies

The company’s top objectives
- Enable application-to-application integration as well as business process and rules management
- Increase flexibility to route sales-relevant data to different applications
- Integrate the tailored customer relationship management tool used at headquarters with the SAP® ERP application and non-SAP solutions

The resolution
- Migrated SAP NetWeaver® Process Integration (SAP NetWeaver PI) software and the SAP NetWeaver Business Process Management (SAP NetWeaver BPM) component to SAP NetWeaver Process Orchestration software, reusing existing integration mappings
- Used model-based integration to migrate old and deploy new scenarios
- Used rules management capabilities to actively route sales-relevant data

The key benefits
- Faster development of new integration scenarios due to integrated monitoring and development tools
- More flexibility to support requirements through the use of business rules

“Creating model-based integration scenarios with SAP NetWeaver Process Orchestration is much simpler than it was before. The software gives us the flexibility we need to make quick IT changes to support changing business requirements.”

Jörg Weiß, Head of Process Integration, avosoft GmbH

25%
Approximate reduction in total cost of ownership after consolidating SAP NetWeaver BPM and SAP NetWeaver PI under SAP NetWeaver Process Orchestration

33%
Approximate acceleration in development of new integration scenarios, as compared to using SAP NetWeaver PI alone

100%
Reuse of existing SAP NetWeaver PI mapping logic

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As fans around the globe can attest, FC Bayern München AG (FC Bayern Munich) is one of the world’s most modern and innovative soccer clubs. To continue setting the bar in superior fan engagement, outstanding team management, and streamlined business operations, FC Bayern Munich is modernizing its IT landscape for the digital age. As part of this effort, the club wanted to optimize the game-day flow in its stadium – the Allianz Arena – for a “connected stadium” experience.

Working with objective partner, FC Bayern Munich uses SAP® Process Orchestration technology to connect various systems in and around the arena, consolidates that data using the SAP HANA® Enterprise Cloud service, and then displays it in real time to staff and management via a mobile app. Now club and arena staff and managers know exactly what’s happening as it is happening, helping them ease visitor traffic in the parking lot and entry into the arena. The result: a better game-day experience for fans.
FC Bayern Munich: Optimizing Game-Day Operations with SAP® Process Orchestration

Organization
FC Bayern München AG
(FC Bayern Munich)

Headquarters
Munich, Germany

Industry
Sports and entertainment

Products and Services
Professional soccer club

Employees
Approximately 500

Brand Value
€608 million (US$786 million)

Web Site
www.fcbayern.de/en

Partner
objective partner AG
www.objective-partner.de

Objectives
• Better inform and alert operational staff and club and arena managers about activities going on in and around the arena on game days by replacing an outdated process using text messages
• Reduce traffic jams on the highway and around the arena on game days
• Avoid crowds in front of and inside the arena by optimizing visitor intake

Why SAP
• Preferred strategic software provider of FC Bayern Munich
• Existing SAP® Process Orchestration technology, used as central integration middleware by multiple business areas to integrate a heterogeneous environment of over 50 systems
• Current user of the SAP HANA® platform and SAP Business Warehouse application through the SAP HANA Enterprise Cloud service

Resolution
• Use of SAP Process Orchestration to collect data from various systems in and around the arena, including parking garage systems, stadium entrance systems, and cashier systems
• Use of SAP HANA Enterprise Cloud to consolidate and process that data and to detect critical situations
• Mobile app – Allianz Arena Alerting – to provide role-specific access for club and arena staff and managers to relevant information in real time, including alerts when stadium thresholds are close to being met

Benefits
• Greater control over traffic flow and fan movement in and around the arena
• Better-informed staff and management, enabling faster reaction times

"Thanks to SAP Process Orchestration, we can collect data from various systems in and around the stadium on game days. We now know exactly what’s going on in real time. This helps us deliver the best possible experience to our fans when they visit the Allianz Arena."

Michael Fichtner, CIO, FC Bayern München AG

300%
Less effort required to inform staff and management about situations in and around the Allianz Arena

Fewer
Traffic jams on game days by controlling the speed that cars exit the parking garage, for example

Shorter
Lines in front of and inside the stadium by better controlling the speed of fan intake into the stadium
SAP Process Orchestration – Planned Innovations
SAP Process Orchestration
Product road map overview - key themes and capabilities

Today

Developer productivity
- Enhancements in ESR Eclipse perspective
- BPM OData services
- Generation of task UIs in SAPUI5
- Synchronization of process models with external repositories

User experience
- Task Substitution profiles
- My Inbox in SAP Fiori

Monitoring and operations
- Directory content migration tool enhancements
- EDI monitor view

Connectivity
- OData, WS-RM, SuccessFactors, REST adapters
- OData provisioning of backend data

(NetWeaver 7.4 SP11, B2B Add-on 1.0 SP04)

Planned Innovations

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- Running HANA Cloud Integration content on Process Orchestration

Future Direction

Developer Productivity
- Browser-based Form and Approval Workflow Editor
- Enhanced forms engine for BPM

Single integration platform
- Addressing the needs of multiple integration domains with one single solution
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Flexible deployment options
- Shared capabilities between PI on-premises and HANA Cloud Integration
- Smart Process Applications on SAP HANA Cloud Platform

This is the current state of planning and may be changed by SAP at any time.
Developer productivity
Further enhancements in SAP NetWeaver Developer Studio

SAP NetWeaver Developer Studio as a single development environment

Support for latest Eclipse version 4.4
• Compatibility to other SAP development tools for Eclipse

ESR in Eclipse
• Improved data type editor
• Enhancements in mapping
• Support copy for all objects in ESR
• Software lifecycle management enhancements: transport via CTS+, change list handling, version history, release transfer, etc.
• Where used list

Integration flow editor
• Address multiple senders or receivers via wildcards
• Modeling of routing rules across multiple adapter engines in one integration flow

This is the current state of planning and may be changed by SAP at any time.
Developer productivity
Integration Advisor service for SAP Process Orchestration

Smart design time tool for creation and sharing of integration guidelines
- Fully documented B2B standard messages
- Provides all major B2B standards across different industry verticals
- Enables easy and simple creation of your own integration guidelines
  - Message Implementation Guidelines (MIGs) for interfaces
  - Mapping Guidelines (MAGs) for message mappings
- Allows to share guidelines with trading partners
- Assists on the collaborative finalization of guidelines with trading partners
- Automatic generation of mapping runtime artefacts for SAP HANA Cloud Integration and SAP Process Orchestration

Intelligent proposal service
- Provides suggestions of guidelines according to your business needs
- Quality of proposals increases by number of contributions
- Crowd Sourcing: Learns by contributions by users

This is the current state of planning and may be changed by SAP at any time.
API Provisioning features include API registration, security and traffic policy definition, protocol definition, mapping and lifecycle management.

SAP Process Orchestration Integration
- Integration for API provisioning from SAP Process Orchestration for Enterprise Services and Gateway Services
- Enables API Provisioning from familiar Enterprise Services Tools and Services Registry.

SAP Gateway Services Integration
- Service Builder/Catalog integration in SAP Gateway for OData / REST API provisioning on SAP API Management
- End to End Tracing capabilities for a Single Activity Traces

Governance & Software Change Management
- Support for Enhanced Change and transport system (CTS+) for better governance and Transport Management.

Supportability & Operations
- Monitoring of SAP API Management enabled through SAP Solution Manager for ease of Administration

This is the current state of planning and may be changed by SAP at any time.
New and enhanced connectivity capabilities
Representational State Transfer (REST) adapter

Further enhancements

• 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
• Support for customizable HTTP result headers on
  REST sender channels
• 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

This is the current state of planning and may be changed by SAP at any time.
Flexible deployment options
Content reuse across SAP’s integration platforms

SAP Process Orchestration

- Business Process Management
- B2B Collaboration
- Governance
- Business Rules Management
- Process Integration
- Monitoring & Analytics

SAP Cloud Applications

3rd Party Cloud Solutions

SAP HANA Cloud Integration

Discover
Design
Run
Monitor

SAP On-Premises

3rd Party On-Premises

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SAP Process Orchestration – Roadmap
SAP Process Orchestration
Product road map overview - key themes and capabilities

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Single integration hub with flexible deployment options

Shared integration capabilities

**Benefit from investments in SAP HANA Cloud Integration**
- Common cloud-based design time for modeling integration content
- Re-use of content across SAP HANA Cloud Integration and SAP Process Orchestration
- Leverage HCI capabilities on SAP Process Orchestration
- 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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OData provisioning
Planned OData provisioning capabilities

Future Direction

This is the current state of planning and may be changed by SAP at any time.
Thank You!

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