Roadmap for SAP NetWeaver – Business Process Orchestration and Integration

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Introduction

The SAP NetWeaver Business Process Orchestration and Integration Roadmap session will address…

- Overall vision and strategy for SAP’s process orchestration portfolio
- Overview of emerging market trends and disruptions in the middleware space
- Current SAP process orchestration capabilities and customer benefits
- Planned innovation and Future direction
- Product Demos
- Q&A

Key Trends Impacting Next Generation Middleware

Near Real-time Actionable Insight

- Need for closed-loop insight to action
- Requires orchestration and visibility of end-to-end business processes

Support for Heterogeneity

- Increasing diversity in IT landscape results in need for flexible IT
- Requires support for heterogeneous integration and interoperability
- High demand for integrated stack for lower TCO

Changing Buyer Behavior

- Shift of buying power from IT to Line of Business
- Need for faster ROI is increasing investments in cloud-based solutions
- Increasing integration needs between on-demand solutions and existing on-premise investments
SAP NetWeaver’s Process Orchestration and Integration Portfolio: Process Integration

SAP NetWeaver Process Integration
- High-volume, java-based enterprise service bus for supporting distributed integration
- Enterprise Service Repository (ESR) for building, modeling, and managing web services
- A2A and B2B integration capabilities
- Predefined integration scenarios to jump-start integration projects

Adoption
- 3,555 productive customers
- Double-digit annual growth

SAP NetWeaver’s Process Orchestration and Integration Portfolio: SAP NetWeaver BPM

SAP NetWeaver Business Process Management
- Model-driven development of business processes for architects and developers
- Includes SAP NetWeaver Business Rules Management
- Fully integrated with runtime technology from SAP NetWeaver CE
  - An eclipse-based environment for business process composition
  - A Java EE-based application server for deployment

Adoption
- 445 productive customers
- Triple-digit annual growth
Why are customers choosing SAP NetWeaver Process Integration today?

One SOA Backbone
- ONE Platform for leveraging SAP Enterprise services, build custom services and Service enabling legacy systems
- A central Enterprise Services Repository with built-in rich semantics and content
- Strategic building block of SAP's SOA infrastructure

One Integrated Solution
- Part of an integration platform & solution
- Substantial reduction in TCO due to integrated lifecycle management and operations
- ~30% reduction in TCO for a leading semiconductor company after choosing SAP NetWeaver PI as their central middleware

Leveraging large SAP installed base
- Efficient Business Networks – within and beyond the borders of an enterprise
- Customers doing business with the large SAP installed base in their ecosystem
- Pre-delivered content and industry adapters help standardize and jumpstart implementation

Productive Customers on SAP NetWeaver PI
Example Usage Patterns
SAP NetWeaver BPM

Solution Enhancements

Modeling
- Two perspectives – business user and developer – based on one single process model
- Support for Intermediate events

Better Integration
- Web Services, BAPIs and RFCs
- Web Dynpro Java, Visual Composer UIs

Reporting
- Enhanced process reporting capabilities

Key Benefits

Increased Flexibility
- Closer collaboration between Business and IT.
- Modeling par to real world use cases.

Lower TCO
- Reuse existing investments and skill sets to tie in RFCs and BAPIs to business processes

Continuous Improvement
- Empower knowledge workers to optimize the business

TODAY

Business User enablement through Business Rules

Solution Enhancements

Rule Definition
- Graphical modeling of complex rule execution sequences using flow rules
- Ability to export and import rules from MS Excel

Rules Management
- Web user friendly interface for dynamic rule changes

Testing
- Testing of rules in rules composer using XML schemas

Key Benefits

Simplified Configuration
- More expressiveness to represent different rules use cases
- Enable non-technical users to manage rule sets

Increased Adaptability
- Flexibility to modify rules without coding

Increased Robustness
- Rules test cases enable ability to avoid regressions.

TODAY
Productive Customers on SAP NetWeaver BPM
Example Usage Patterns

Role of SAP NetWeaver Process Orchestration in End-to-end business processes

Integrate Business Processes efficiently in heterogeneous IT landscapes
Single Stack ESB

**Deployment Options**
- Java-only, ESB deployment

**Continuous Operations**
- Integrated scenario configuration
- Programmatic configuration of assets en masse
- Automated XML schema validation
- Additional message persistence
- Streaming of large files
- Resource-friendly communication channels, cache; improved cluster communication

**Openness**
- Extended standards support for standard-based interoperability

**Lower Footprint**
- Richer & faster connectivity and reduced sizing

**High Productivity & Reliability**
- Reduced implementation time
- Faster asset configuration
- Secure, compliant communication
- System robustness for smooth business operations

**Cheaper Integration**
- Low-touch integration in multi-vendor environment

Simplified Operations

**Logistics**
- Flexible upgrade paths
- Guided installation; simplified post-installation

**Supportability**
- Central monitoring of complex integration landscapes
- ITIL-compliant Process Integration operations in SAP Solution Manager
- Streamlined access to local monitoring, configuration & testing
- Message search by business payload

**Shorter Time-to-Innovation**
- Faster and simpler upgrades

**Continuous Operations**
- Faster, best-practice based incident resolution
- Lower cost of operating even complex deployments
- IT Responsiveness
Next-generation BPM and BRM
Improved BPM and BRM integration improves reuse and lowers TCO

Solution Enhancements

- Improved business monitoring
  - Business dashboards based on process events
- Process Flexibility
  - Ad hoc tasks and SAP StreamWork integration
- Simulation
  - Do what-if analysis to predict behavior and find bottlenecks

Key Benefits

- Simpler to Maintain Rules
  - Reduces number of rules in project
  - Makes rules easier to build and to maintain

PLANNED INNOVATIONS

Reusable Rulesets

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Web Dynpro ABAP integration

Better Reuse and Maintenance
- Improves productivity
- Eliminates error prone and duplicate rules.

Solution Enhancements

Industry templates
- Provides rich business content provided by SAP, partners, customers and independent standards organizations to drive industry best practices

Extend “core” processes with BPM

Common Shared Process Catalog
- Supports full business process lifecycle (requirements, blueprints, solution proposal, custom process extensions, implementation and configuration, operation and optimization)
- Links the business view with the implementation view of processes

Key Benefits

Faster Time to Value
- Leverage out of the box best practices as-is or as jump starts for custom implementations

Business agility with modeled processes
- Better reusability and visibility of existing process assets.
- Different levels of modeling and data abstraction as needed by different personas in the organization.

Business Process Library
Reusable catalog of Best Practices process templates

Define different levels of abstractions as business process are designed, modeled and implemented.

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### SAP NetWeaver PI – What’s Ahead

**Productivity**
- Embedded SOA asset design for human- and system-centric processes in development environment
- Easy and fast implementation of light-weight integration scenarios

**TCO, performance & availability**
- Single-stack implementation for both ESB and process integration scenarios
- Shared process engine with NetWeaver BPM
- Enhanced Integration with SAP Solution Manager
- Significant reduction of downtime for updates and upgrades

**Comprehensive B2B**

**Domain-specific integration**
- Integration with domain-specific integration solutions – MII and SCALogix

### SAP NetWeaver BPM – What’s Ahead

**BPM as a service**
- BPM design time on-cloud
- BPM staging / testing environment on-cloud
- Public business processes on-cloud

**Collaborative Process Modeling**
- Integrated modeling environment with SAP NetWeaver BPM and SAP StreamWork
- Real-time visibility of BPM modeling by multiple modelers

**Network orchestration**
- End-to-end business processes executed on premise and on demand
- Semi/Un-structured processes

**TCO, performance & availability**
- Shared process engine with SAP NetWeaver Process Integration
- Enhanced Integration with SAP Solution Manager
BPM in Network Orchestration

onPremise and onDemand

On-Demand Process
“Public” process execution

On-Premise Process
“Private” process execution

Execute & Analyze & Optimize

Model & Simulate

Tier 1

Tier 2

ERP
CRM
SCM

Collaborative On-Demand Process Model
- Exceptional Rush Order Handling
- Return Delivery across network
- SLA violation
- Delivery tracking

Collaborative Process Modeling Using SAP NetWeaver BPM and SAP StreamWork

Key capabilities:
- Integrated modeling environment with BPM and SAP StreamWork
- Real-time visibility of BPM modeling by multiple modelers
- Audit log of model changes and approvals

Value-Prop
- Close collaboration with multiple modelers
- Shorter time to develop complex process models
- Historical information available for future optimization

Demo
http://www.youtube.com/watch?v=tffVvH8idQg
Thank You!

Further Information

SAP Public Web:
- SAP Developer Network (SDN): [www.sdn.sap.com](http://www.sdn.sap.com)
- SAP BusinessObjects Community (BOC): [boc.sap.com](http://boc.sap.com)

Related Workshops/Lectures at SAP TechEd 2010

- PMC100: Overview of SAP NetWeaver BPM & SAP NetWeaver BRM
- PMC103: Business Rules Management with SAP (BRM & BRFPlus)
- PMC120: EnBW – Sharing Experiences from BPM Project
- PMC121: SAP NetWeaver BPM 7.2, Lessons from 1st Live Implementations
- PMC162: Business Process Design Collaboration with SAP Gravity (Hands-on)
- PMC160: BPM for Beginners (Hands-on)
- PMC203: Creating SAP NetWeaver BPM task UI’s with Web Dynpro ABAP
- PMC204: Tips and Tricks on SAP NetWeaver BPM for High Volume Processes
- PMC205: SAP NetWeaver BPM Troubleshooting
- PMC260: Accelerating Business Rules with SAP NetWeaver BRM (Hands-on)
- PMC261: Process Analytics with SAP NetWeaver BPM (Hands-On)
- PMC361: Advanced BPM development using API’s (Hands-on)
Feedback

Please complete your session evaluation.

Be courteous — deposit your trash, and do not take the handouts for the following session.

THANK YOU!
SAP NetWeaver's Process Orchestration and Integration Portfolio

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PLANNED INNOVATIONS
Leveraging Business Content

Business Process Library

- Broad enterprise service portfolio of over 3,000 services
- Descriptive application processes and events exposed in a standard, extensible manner
- Industry-specific business process templates
- Methodology support via content-fluent tools and repository
- Collaborative content creation

SAP Process Orchestration Portfolio

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