PMC208

Service Bus Based Capabilities of SAP NetWeaver Process Integration



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SAP NetWeaver Process Integration
SAP AG

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\genda

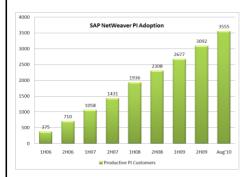




- 1. SAP NetWeaver PI 7.1 Overview
- 2. What's new in EHP 1 for SAP NetWeaver PI 7.1 With Demo
- 3. Near Zero Downtime
- 4. Connectivity
- 5. Where to find what information about SAP NetWeaver PI
- 6. Outlook to SAP NetWeaver Pl 7.3
- 7. Summary

SAP NetWeaver Process Integration – Adoption Today





SAP NetWeaver PI Adoption

- 200 new productive customers / quarter
- 39 % of customers use SAP NetWeaver PI 7.1
- 300+ Customer References
- Scenarios: A2A, B2B, ESB, SOA
- SAP and non-SAP integration

SAP is 2nd in market presence, tied with IBM & Oracle/BEA, and ahead of Tibco, SAG and others

DIE POST

1.2 million messages processed overnight Replacement of BEA web Logic with SAP NetWeaver PI

EnBW

Centralized and simplified governance processes for SAP and non-SAP services



Automate processes with SAP NetWeaver

PI to save payment processing costs and improve vendor relationships

Opto Semiconductors OS

Leverage SAP NetWeaver PI as Enterprise wide ESB

DAIMLER

SAP NetWeaver PI as integration hub: B2B gateway, EAI and SOA middleware

SAP NetWeaver Process Integration

Key Customer Scenarios and SAP Solution Benefits

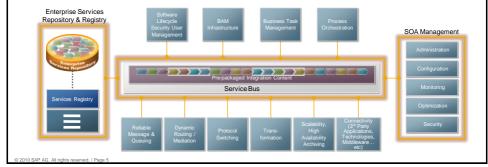


Key Customer Scenarios

- 1. Application to Application integration (A2A)
- Integration of Business Partners (B2B), often EDI
- 3. Interoperability with 3rd party middleware
- SOA Initiatives: Service Provisioning and Service enabling

Main SAP Solution Benefits

- Pre-packaged integration content to minimize integration costs
- ONE platform for high performance and reliable end-to-end transactions
- Central repository and registry for governance
- Open standards based for interoperability



Federation – Feedback from diverse customer workshops



Reasons for Central SAP NetWeaver PI System:

- Reduced effort in regards to: operations, maintenance and monitoring
- One source of truth
- Economics of scale
- In companies which are mainly common and have already centrally organized processes

Reasons for Federated SAP NetWeaver PI Systems:

- Network constraints
- Separated company divisions (more than 90% communication in the own division)
- Geographically distributed and organized organization (more than 90% communication in one area)
- Downtime constraints and no overlapping downtime period across whole company divisions (or impossible to organize)

Mixed approaches and the reasons:

- One SAP NetWeaver PI system for central processes (HR, Financials, Master data) and non-central SAP NetWeaver PI systems for divisions
- One division starts to learn to share knowledge and experience with other divisions following later

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Positioning of Extract, Transform and Load vs Enterprise Service Bus



Extract, Transform & Load (ETL)

Core Use Case

- Data Replication and Data Synchronization in batch and real-time
- Examples: Asynchronous bulk load of a data warehouse, Data Migration

Data Characteristics

Bulk Data

Transformation Characteristics

- Lightweight to sophisticated transformations
- Embedded Data Quality Transforms (cleansing, matching)

Integration Process Characteristics

- Single-step, stateless integration processes only
- Point-to-point or point to multi-point connectivity with clearly identified sources and targets

SAP's Preferred Product

Business Objects Data Services

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Enterprise Service Bus (ESB)

Core Use Case

- Event-driven, message-based process integration in synch. & asynch. A2A/B2B/SOA scenarios
- Example: Asynchronous process automation across ERP, CRM systems and business partner

Data Characteristics

Single messages with small, medium, large payloads

Transformation Characteristics

- Lightweight to sophisticated transformations
- Mappings of data structures as well as values

Integration Process Characteristics

- Multi-step stateful and stateless integration processes,
- Bus architecture with publish& subscribe, and sophisticated routing rules

SAP's Preferred Product

SAP NetWeaver Process Integration

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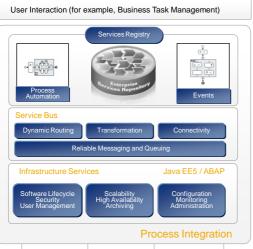




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EHP 1 For SAP NetWeaver PI 7.1 Value Proposition





3rd Party

Application

B2B Partner

B2B Partner

Enterprise Services Repository (ESR) and Services Registry (SR)

- Superior SOA design governance
- Further access control measures
- Reduced TCD for service provisioning in the ESR

Service Bus

- Enhanced flexibility for the integration developer in defining mediation flows
- Automated configuration support for A2A/B2B
- Leverage performance enhancements via additional connectivity options
- Increased interoperability

SOA Management

3rd Party

Middleware

- Enhanced support for end to end monitoring for non-technical users of SAP NetWeaver PI
- Automated configuration of services in the provider and consumer systems
- Enhanced migration support



Process Integration

3rd Party

Application

3rd Party

Middleware

EHP 1 For SAP NetWeaver PI 7.1

Enhanced flexibility for the integration developer in defining mediation flows

- Content based routing in AAE
- Receiver split in AAE
- Operation-dependent receiver determin.
- Directory API supports new objects types
- Enhanced search for comm. Channels
- Scenario view in Integration Directory
- Enhancements of Adapter Engine SE:
 Remote configuration, empty file handling,
 prevent overwriting files

Automated A2A/B2B configuration support

 Configuration based on Process Component Interaction Models

Leverage performance enhancements via additional connectivity options

- XI message protocol supported in AAE (*)
- End to end IDoc packaging
- IDoc conversion adapter module

Increased interoperability

■ WS-Secure Conversation 1.3

(*) Supported communication between AAE 7.11 and ABAP proxies, AAE, PCK, JSE, IS 7.11. Details in SAP note 1247043

SAP NetWeaver PI 7.1 incl. EHP1 (*)

Improved Fault Tolerance



- Optimization of cache refresh
 - Lower memory consumption and performance
 - Focus on Integration Directory (partial down port to SAP NetWeaver PI 7.1)
- Optimized message processing
 - Out of memory handling to avoid Java server restarts
- "Safe Mode" during startup
 - Blacklisting of messages to take messages in status DLNG out of processing
- Robust EOIO handling
 - Ensure EOIO message processing over same cluster node
- EO / EOIO backlog handling
 - Optimized EO / EOIO handling after server restarts to avoid startup timeouts
- Optimization of technical acknowledgements
 - Technical acknowledgements contain less overhead to increase performance
- Optimization of reorganizations
 - Faster data base switch with less memory consumption

(*) (Partial) Down port to SAP NetWeaver PI 7.1 SP11 & EHP 1 SP06

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EHP 1 for SAP NetWeaver PI 7.1 in Action



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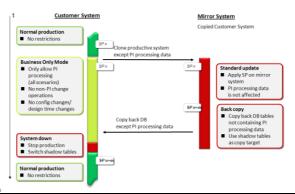
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Near Zero Downtime Maintenance (NZDT) for SAP NetWeaver PI 7.1



Business value

- Procedure for application of Support Package Stacks on PI system with business downtime reduced to one system restart.
 - This holds for updating the SAP software OS or DB updates not included
 - Independent from number of to be applied packages/SP Stacks
 - Potential problems during SW Maintenance do not impact downtime
- Update is performed on mirror system while production system is still available until final switch to new SP level



Restrictions during update



Today: Productive Usage of NZDM / PI

- First customer in Utilities industry
- System: SAP NetWeaver PI 7.1 SP7 on Oracle DB
- SAP NetWeaver PI 7.1 SP9 was applied to the productive system with ~ 30 min downtime without any issues (95% less downtime)

Plattform completion plans

- Currently available via SAP Consulting Service: SAP NetWeaver PI 7.1 on Oracle, MaxDB
- Planned to be ready by Q1/2011: MSSQL, DB2 for AIX/WIN, DB2 for z/OS
- Planned, but no date available yet: SAP NetWeaver PI 7.3

How to get NZDM-Tools?

 SAP Consulting offers a service that comprises the delivery of NZDM-Tools and documentation as well as initial respective consulting services by end of 2010

Widen scope to apply EHPs for SAP NetWeaver PI

Conceptual work & evaluation in 2010, realization planned in 2011

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EHP 1 for SAP NetWeaver PI 7.1 Connectivity Developed by SAP



Technical Connectivity for communication with SAP and non-SAP systems

- File/FTP(S) (File Systems / FTP Servers)
- JDBC (RDBMS systems)
- JMS (Messaging systems, e. g. MQSeries, SonicMQ)
- SOAP (Web Services based on SOAP)
- WS-RM (Web Services based on WS Reliable Messaging)
- Plain HTTP(S)
- Mail (Mail Servers via SMTP, IMAP4, POP3)
- SAP Business Connector (SAP BC)
- Marketplace (SAP Marketplaces)

Application Connectivity

- RFC
- IDoc
- Proxy (ABAP and Java)

All adapters available today on AAE except

- IDoc, HTTP: With SAP NetWeaver PI 7.3
- WS-Adapter: Beyond SAP NetWeaver PI 7.3

SAP Industry Business Packages

- RNIF 2.0 (RosettaNet)
- RNIF 1.1 (RosettaNet)
- CIDX (RNIF 1.1)

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SAP NetWeaver PI 7.1 Connectivity

Big variety of adapters through the Partner Eco System



SAP relies on a system of partners to provide solutions for other applications and certain industry standards

Connectivity Reseller Agreements with

- Seeburger AG
- iWay Software
- Informatica

3rd-Party solutions are sold and delivered through SAP

Technical support for partner solutions via the SAP Support Portal, 24x7

Reseller Agreements with Crossgate

- SAP Information Interchange by Crossgate
 - Including pre-delivered business partner profiles
- Main contact for licensing and support is SAP

Tightly integrated into SAP NetWeaver PI

Loosely coupled with SAP NetWeaver PI

Principles of SEEBURGER Adapter Solutions for EDI/B2B on SAP NetWeaver PI 7.1 SAP NetWeaver Process Integration 7.1 Monitoring and Alerting Integrated with SAP NetWeaver PI monitoring, CCMS, SAP Solution Manager Advanced Adapter Engine **Enterprise Services Repository** Module Syntax Protocols ■ XML-EDI <-> XML-IDOC Mappings conversion Library OFTP, compress, Integration Processes AS2. EDI <-> decompress VAN FTP, ■ Pre-defined Message Types XML-EDI split, analyze, P7/X.400 converter encryption □ Collection of ready-to-use Java functions

The SEEBURGER Industry Adapters for SAP NetWeaver PI are industry specific business packages

Integration Directory
Configuration of acknowledgements (CONTRL, APERACK), mass data handling, ...

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SAP NetWeaver PI 7.1 – Connectivity Developed by Seeburger*, All Adapters Certified



Technical EDI Adapters by SEEBURGER

- AS2 (EDIINT/HTTP(S)) Protocol: AS2
- OFTP
 - Protocol: OFTP/ISDN, OFTP/TCPIP
- VAN Access
 Protocol: P7 / X.400, VAN FTP

Business EDI Adapters by SEEBURGER

- Generic EDI
 Protocol: OF
 - Protocol: OFTP/ISDN or P7 / X.400, VAN FTP EDI Converter: ANSI X.12, EDIFACT Mapping Templates: Purchase order, Order confirmation, Dispatch advice, Invoice
- Payment (Financial Service Providers)
 Protocol: OFTP/ISDN, P7 / X.400, VAN FTP
 EDI Converter: EDIFACT, SWIFT
 Mapping Templates: Payment orders, Debit advice, Credit advice, Account Statement
- * Details are published at SDN (direct link)

Industry Specific EDI Adapters by SEEBURGER

- Aerospace & Defense
- Automotive
- Chemicals
- Consumer Products
- High-Tech
- Paper
- Pharmaceutical
- Retail

Business Content

- Mapping Templates within Enterprise Services Repository
- Message Library for Enterprise Services Repository
- Huge message catalog with EDI XML schemas

Communication Protocols

OFTP/ISDN. P7 / X.400. VAN FTP

EDI Converter (EDI <-> XML)

 AECMA/SPEC 2000, ANSI X.12, CHEM eStandards, EDIFACT, GALIA, ODETTE, TRADACOM, VDA

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SAP NetWeaver PI 7.1 – Connectivity Developed by iWay



Application Adapters

- Ariba
 - Clarify
- i2
- Manugistics
- QAD MFG Pro
- Baan
- JDE One World XE (*)
- Lawson
- Oracle Applications (*)
- Siebel (*)

- Broadvision
- ◆ JDE World (*)
- Microsoft CRM
- Peoplesoft (*) Vantive

Industry Standard Adapters

Swift

Transora

UCCnet

Technical Adapters

- ◆ AS1 (EDIINT/SMTP)
 ◆ AS2 (EDIINT/HTTP(S))
- BEA WLI Lotus Notes

 COM+/DCOM Tibco Rendezvous

Mainframe/transaction Adapters

- CICS (*)
- TMS/IMS (*)
- Telnet (3270)

- Telnet (5250)
- Tuxedo

Corba

(*) Certified for SAP NetWeaver Process Integration 7.1

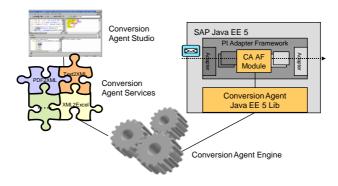
* Details are published at SDN (direct link)

SAP NetWeaver PI 7.1 – Connectivity Developed by Informatica



Seamlessly integrated into SAP NetWeaver PI 7.1

- Bi-directional conversion of unstructured and semi structured data from / to XML
- Transformation on message payload
- Protocol support via SAP's technical adapter (Advanced Adapter Engine)
- Transformations integrated via PI AF module



SAP Conversion Agent

Complex Data Transformation with Informatica



UNSTRUCTURED

- Microsoft Word
- Microsoft Excel
- PowerPoint
- PDF
- Star Office
- Word Perfect
- ASCII reports
- HTML
- EBCDIC
- Undocumented binaries
- Flat files
- RPG
- ANSI

PRINT STREAMS

- AFP
- Post Script
- DJDE



SEMI-STRUCTURED

- HL7
- HIPAA
- ASTM
- ANSI-X12
- EDIFACT
- COBOL
- FIX
- Cargo IMP
- MVR
- SWIFT

OTHER STANDARDS

- LegalXML
- IFX
- cXML
- ebXML
- HL7 V3.0
- ACORD (AL3, XML)

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Certification Programs for SAP NetWeaver Process Integration



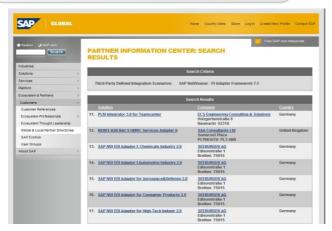
PI Based Certification Programs EXCHANGE INFRASTRUCTURE / PROCESS INTEGRATION INTEGRATION & CERTIFICATION - INTEGRATION SCENARIOS The foliositing are pre-defined infragration certifications offered by 584 in addition to the standards occurring inside there, 584 on also other interface certification based on business scenarios from this party vendors when: 1. Vendors a use to 894-mandered infragration betwined open described in ICC Integration (public - fertinologistic (PO FO RIS)). 2. Vendors successfully lets the interface software through an SAP integration and Certification Cer

http://www.sdn.sap.com → Partnership and Certification → Integration and Certification → Process Integration / Exchange Infrastructure

Certified Adapters for SAP NetWeaver Process Integration



Certified Adapters for SAP NetWeaver PI



http://www.sap.com/ecosystem/customers/directories/SearchSolution.epx → Third-Party Defined Integration Scenarios → NW-XI-AF*

As of August 2010: 65 certified adapters for SAP NetWeaver PI

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SAP Information Interchange by Crossgate



SAP Information Interchange by Crossgate:

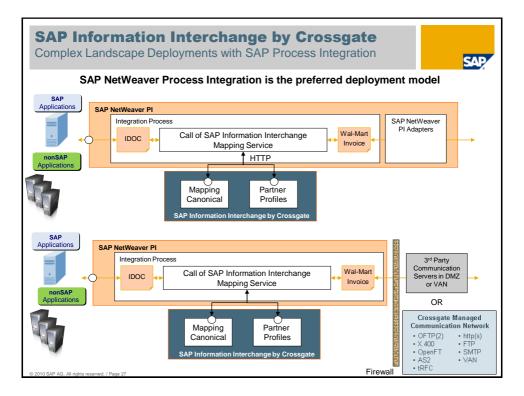
- Delivers prebuilt business partner profiles
- Allows companies to exchange Purchase Orders, Forecasts, Invoices, Delivery Notes and other documents electronically

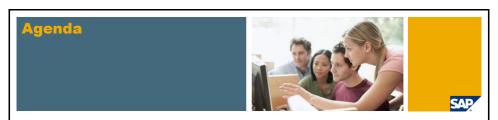






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Entry Page on SAP Help Portal -Product Documentation, Release Notes, ...





SAP NetWeaver Process Integration 7.1 Including Enhancement Package 1 SAP NetWeaver Process Integration 7.1

SAP NetWeaver Process Integration 7.1 Including Enhancement Package 1 Knowledge Center

SAP NetWeaver Process Integration ibrary (Including Enhancement Package 1) English I German

What's New - Release Notes SAP NetWeaver Process Integration at a Glance System Configuration and Administration

Support Package 05, May 2010

Installation, Update, and Upgrade

Supplementary Information

What's New in SAP enhancement package 1 for SAP NetWeaver PI 7.1 SP Stacks - Release Notes Find out what is new and what has changed since the last

Short Overview of SAP enhancement package 1 for SA NetWeaver Process Integration 7.4 View an overview of the new features in SAP enhancement package 1 for SAP NetWeaver Process Integration 7.1.

Useful Links Search the full SAP notes knowledge base Maintenance Optimizer Download SAP NetWeaver software packages hardware requirements for your implementation SAP Solutions Training* Guide to the training courses offered for SAP NetWeaver

More on SAP Community

Expert Forums

Technical Blogs

Code Samples and Downloads

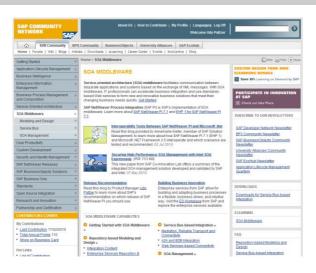
Path to SAP Help Portal: help.sap.com

-> SAP NetWeaver -> SAP NetWeaver PI

Links from SAP Help Portal to SAP Service Markplatz, PAM, Instguides, SDN, ...

Entry Page on SDN -Forums, Blogs, Pod casts, How to guides, ...





Path to SDN: http://www.sdn.sap.com/irj/sdn/nw-soa

Guides in detail Where to find which guide (1)



Two categories of guides

- Implementation Guides: installation, update, upgrade -> SMP
- System Administration Guides: security, configuration, TOM -> Help Portal

Service Marketplace

/instguidesNWPI71

or

https://service.sap.com/instguides

- -> SAP NetWeaver
- -> SAP NetWeaver PI 7.1

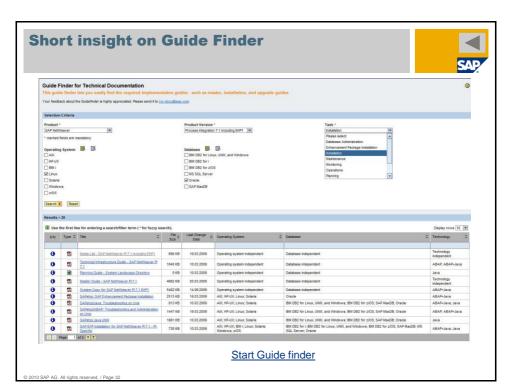
Use Guide Finder on SMP to easily find the guides you need. Short insight on Guide Finder.

Help Portal

help.sap.com

Details on available Categories and Guides.

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Important SAP Notes regarding SAP NetWeaver PI 7.1



SAP Notes:

http://service.sap.com/notes

Composite Note for SAP NetWeaver Process Integration 7.1:

SAP Note 1135704

Release Restrictions for SAP NetWeaver PI 7.1:

SAP Note 1004107

Release Restrictions for EHP 1 for SAP NetWeaver PI 7.1:

SAP Note 1247043

Product Availability Matrix (PAM) for Partner Adapters:

PAM for Seeburger adapters: SAP Note 890721 PAM for iWay adapters: SAP Note 858366

PAM for SAP Conversion Agent by Informatica: SAP Note 894815

Online Knowledge Product



2 learning maps are available for SAP NetWeaver PI 7.1 including EHP 1:

Integration Development Consultant

Technology Consultant

The OKP also includes information about RKT Workshop offerings for new releases, live expert sessions and additional information Please note: Sources.

SAP NETWEAVER PROCESS INTEGRATION 7.1 INCLUDING SAP ENHANCEMENT PACKAGE 1 FOR PI 7.1

GET UP-TO-DATE WITH SAP ONLINE KNOWLEDGE PRODUCTS

- Good knowledge of SAP NetWeaver 7.0 Exchange Infrastructure or of SAP NetWeaver Process Integration 7.1
- Heloful, but not required:
 - Knowledge of SAP NetWeaver architecture, security installs

can gain the required knowledge through the SAP Online Knowledge Product SAP NetWeaver or through SAP training courses

For a preview and buying the OKP:

http://service.sap.com/~form/sapnet?_SHORTKEY=00200797470000045511&

Details - Integration Development Consultant



SAP ENHANCEMENT PACKAGE 1 FOR SAP NETWEAVER PI 7.1: LEARNING MAP FOR INTEGRATION DEVELOPMENT CONSULTANTS



Training Courses regarding SOA Middleware



Basis courses (www.sap.com/education)

BIT400 SAP NetWeaver Process Integration

Additional Courses covering specific topics

BIT430 PI - Business Process Management

BIT460 PI - Mapping BIT480 PI - Operations

BIT420 PI - Proxy Development & Service Provisioning with ES Repository

Delta Courses

DBIT71 PI - Delta Process Integration 7.1 with SAP NetWeaver

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Training Courses for Consultants



Consultant Academy (www.sap.com/education -> Certification)

Development Consultant - certification as "Development Consultant PI Associate"

TBIT40 SAP NetWeaver Process Integration (identical to BIT400)

TBIT44 PI - Mapping and BPM (covers BIT430/BIT460)

BIT402 (e-learning) PI - Adapter Concepts (File, JDBC, JMS, Mail)

BIT403 (e-learning) PI - Adapter Concepts (Plain HTTP, IDoc, RFC, SOAP,

PCK)

Technical Consultant certification as "Technical Consultant PI Associate"

TBIT50 (e-learning) PI - Technical Implementation I

TBIT51 PI - Technical Implementation II and Operations

RKT Material: Preview and Buy OKPs

http://service.sap.com/~form/sapnet?_SHORTKEY=00200797470000045511&

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Further information on SAP NetWeaver PI



General Information on SAP NetWeaver Process Integration

- Roadmap for SAP NetWeaver PI (Recording)
- Ramp-Up SAP NetWeaver PI 7.3
 - Customers: http://service.sap.com/rampup; Partners: https://service.sap.com/partnerportal/rampup
 - Early Nomination
- SDN home page of EHP 1 for SAP NetWeaver PI 7.1
- SAP Help Portal Release Notes of EHP 1 for SAP NetWeaver PI 7.1
- Process Integration (PI) Handbook (incl. EHP 1 for SAP NetWeaver PI 7.1)
- Release Recommendation for SAP NetWeaver PI (incl. Roadmap)
- Online Knowledge Product (incl. EHP 1 for SAP NetWeaver PI 7.1)
- SAP Training and Learning Offerings: SAP Training Catalog -> SAP NetWeaver -> PI
- SAP Note 1247043 for EHP 1 Release Restrictions

Selection of dedicated topics about SAP NetWeaver Process Integration

- Performance Tests with EHP 1 for SAP NetWeaver PI 7.1
- Going Productive with SAP NetWeaver PI 7.1
- Customer Scenarios with SAP NetWeaver PI 7.1 (cont'd, incl. Roadmap)

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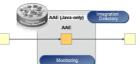
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Elevator Pitch SAP NetWeaver PI 7.3

Centralized Monitoring, Single Stack ESB, Reduced TCO









- Centralized monitoring via SAP Solution Manager 7.1
 - Good morning page
 - Monitor multiple PI domains
 - Reduced time for root cause analysis
- Single stack ESB capabilities through Advanced Adapter Engine
 - Up to 60% less energy consumption
 - Lower footprint, easy maintenance:
 1h installation*, ½ HW requirements*
 comp. to double stack, 90 sec restart*

Major Improvements for

- → Reduced cost of operations via increased fault tolerance
- Design governance
- Standards based interoperability and connectivity

*Hardware dependent

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SAP NetWeaver PI 7.1 – Summary



- Leverage SAP NetWeaver PI 7.1 for mission critical scenarios
 - Around 3500 productive customers, 1/3 on SAP NetWeaver PI 7.1
 - Key uses cases include SAP NetWeaver PI as central ESB
- Key enhancements in EHP 1 for SAP NetWeaver PI 7.1 for
 - ES Repository & Services Registry, Service Bus, SOA Management
- Near Zero Downtime
 - Supported for SAP NetWeaver PI 7.1, downtime ~ 30 minutes
- Connectivity
 - Broad variety of connectivity options for A2A, B2B, interoperability, SOA
- Where to find what information about SAP NetWeaver PI
 - SAP Help Portal, SDN, SAP notes, OKP, training courses
- Outlook to SAP NetWeaver PI 7.3
 - Centralized monitoring, Java stand alone installation option, reduced TCO

Further Information



SAP Public Web:

SAP Developer Network (SDN): www.sdn.sap.com/irj/sdn/nw-soa

Related SAP Education and Certification Opportunities

<u>http://www.sap.com/education/</u> → Training Catalog → SAP NetWeaver → PI & Business Integration
<u>http://www.sdn.sap.com</u> → Partnership and Certification → Integration and Certification → Process Integration

Related Workshops/Lectures at SAP TechEd 2010

PMC210 Improved Fault Tolerance and TCO Reduction 1h Lecture

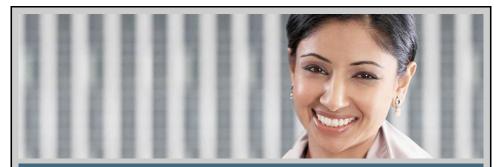
PMC211 Improved Update and Upgrade Procedure 1h Lecture

PMC212 Federated PI - Robust and Scaling PI Landscapes 2h Lecture

PMC262 Using the Advanced Adapter Extended 2h Hands-on

ALM300 Near-Zero Downtime Software Maintenance 2h Lecture

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Please complete your session evaluation.

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