New Features & Benefits for Enhancement Package 1 for SAP NetWeaver Process Integration 7.1

Solution Management
SAP NetWeaver – SOA Middleware
SAP Technology Group

August 2009
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**EHP 1 For SAP NetWeaver PI 7.1**

**Value Proposition**

**User Interaction** (for example, Business Task Management)

**Process Integration**

**Service Bus**
- Dynamic Routing
- Transformation
- Connectivity

**Reliable Messaging and Queuing**

**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

**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
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**SOA Management**
- 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
Superior SOA design governance
- Service interface generation for WSDL import into the ESR
- Classification support in the ESR
- Security profile settings for service interfaces
- Where-used list in Services Registry
- Add information to services published in the Services Registry

Further access control measures
- User defined usage profiles in the ESR and Services Registry
- Cleanup of Services Registry

Reduced TCD for service provisioning in the ESR
- Generation of outbound interfaces based on inbound interfaces
EHP 1 For SAP NetWeaver PI 7.1
Service Bus

- 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

(*) Currently supported is communication between AAE 7.11 and ABAP proxies, AAE 7.11, PCK 7.11. Details in SAP note 1247043.
EHP 1 For SAP NetWeaver PI 7.1
SOA Management

- **Enhanced support for end to end monitoring for non-technical users of SAP NetWeaver PI**
  - User-defined message search for business criteria (*)
  - Cross domain message status overview (*)
  - Process Integration monitoring and configuration capabilities available through SAP Solution Manager

- **Automated configuration of services in the provider and consumer systems**
  - SOA configuration for connectivity of Web services and consumers based on SOA Manager

- **Enhanced migration support**
  - Enhancement in the migration controller for smooth upgrades of Java proxies to SAP NetWeaver PI 7.1

* The capabilities are available through the SAP NetWeaver Administrator for PI. Runtime Workbench is recommended for PI monitoring in production scenarios. See SAP note 1247043.
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Superior SOA design governance
- Service interface generation for WSDL import into the Enterprise Services Repository
- Classification support in the Enterprise Services Repository
- Security profile settings for service interfaces
- Where–used list in Services Registry
- Add Information to Services Published in Services Registry

Reduced TCD for service provisioning in the ES Repository
- Generation of outbound interfaces based on inbound interfaces

Further access control measures
- User defined usage profiles in Enterprise Services Repository
- User defined usage profiles in Services Registry
- Cleanup of Services Registry
Enhanced SOA Governance – Service Interface Generation for WSDL Import into ES Repository

What is it about?
- Service Interface created automatically for imported web services
- Maintained both as Service Interfaces and external definitions (with end point information)
- Service interface can be modified once imported into the Enterprise Services Repository
- Support for importing multiple web services

How is it useful?
- Unified meta-model to store services modeled within and outside Enterprise Services Repository
- External services can be directly used for Proxy Generation from ABAP Workbench and SAP NetWeaver Developer Studio
- Wizard-based approach to perform mass-import of external web services
Enhanced SOA Governance – Classification Support in the ES Repository

What is it about?
- Assign classifications to one or group of service interfaces
- Assigned classification information available along with Service Interface definition

How is it useful?
- Classify your services right at design time when you are defining the service
- Assigned and pre-calculated classification published along with Service Interface to Services Registry
- Capabilities to search for services by Classification within Enterprise Services Builder
Enhanced SOA Governance – Security Profile Settings for Service Interfaces

What is it about?

- Users can choose from a list of pre-defined list of values (No, Low, Medium and High)
- Security profiles values are sent to the provider system during proxy generation and are used during configuration of endpoints
- Supported with both 7.0 and 7.1 ABAP Backend systems
- Security profiles for all services upgraded from an earlier release (7.10, 7.0) are assigned as “Low” by default

How is it useful?

- Centrally define the security settings for all services from within the Enterprise Services Repository
- Security profile values are maintained within the WSDL as WS-Policy
- Security levels defined within the Enterprise Services Repository serve as the minimum value for the service during end point configuration
Reduced TCD – Generation of Outbound Interface based on Inbound Interfaces

What is it about?
- Simplified integration through automated wizards
- Providing a wizard to create an outbound service for a given inbound service interface
- Supports creation of outbound wizard in the same or different software component versions

How is it useful?
- Reduce efforts and potential errors when creating manually the outbound interface and matching it to the inbound interface

Limitations & future improvements
- Creation of inbound interface for outbound interface
- Copying of content in nested relationships have to be done manually
Further Access Control Measures – User Defined Usage Profiles in Enterprise Services Repository

What is it about?

- Functionality to create customized usage profile by customers
- Both SAP-delivered and custom-defined usage profiles can be assigned specific users, roles or groups
- Restrict visibility by Software components or Object Types

How is it useful?

- Support for fine granular control of who can view and edit SOA Artifacts
- Support for ‘simplifying’ UI when only a subset of Enterprise Services Repository functionality is used by end users
- Especially useful when one Enterprise Services Repository is shared across departments or groups
Further Access Control Measures for the Administrator – Cleanup of Services Registry

What is it about?

- Over a period of time the registry gets clogged with obsolete information such as links to endpoints, definitions etc. that don’t exist anymore
- → Required: **Mechanism to identify broken links and report to the administrator**. This can either be scheduled by the administrator to run on a periodic basis or be triggered as an event when required
- Job available on AS Java to automatically detect invalid endpoints
- The administrator can then decide to have the entries removed from the Services Registry

How is it useful?

- Remove obsolete information from the Services Registry

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<th>Java Scheduler: Job Definitions</th>
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<tr>
<td>Jobs</td>
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</table>
| **Job Definitions**

- **RegistryCleanUpJob**
  - Application Name: `sap.com/tc-esi-uddl-sr-ear`
Further Access Control Measures for the Administrator – User Profiles in Services Registry

What is it about?

- Introduces new authorization concept for Services Registry users
- New entity “permission template”: you can define permissions that assign User Management Engine (UME) roles to classifications.
- Based on existing classification systems of the registry

How is it useful?

- Allows elaborate authorization concept for registry users
- Gives user-specific views on registry content
Enhanced SOA Governance – Service Groups

What is it about?
- A service group bundles all service calls that are provided by the same logical service provider
- If a service is assigned to a service group, it indicates that the service is used by a consumer

How is it useful?
- Group services together, can indicate what services are used, similar to where used functionality
- Link between consumer and provider
Enhanced SOA Governance – Where–used list in Services Registry

What is it about?

- Concerning the management of Composite Applications
  - Service Group (new design-time entity) are published to the Services Registry, Service Group indicates, that sets of service definitions are used by a Composite
  
- Service Groups enable mass configuration of service providers in a composite
  - For services running on one physical system
  - Apply configuration profiles
  - Service Groups can be published in the Services Registry
  - Limitation: only service groups defined on AS Java are published to registry

How is it useful?

- Where–used list gives users an opportunity to find out all service groups per given service definition
- Search for service groups can be based on different criteria
What is it about?

- When publishing services to the Services Registry using the Publish function in the Services Registry, you can now use the publication wizard. In the wizard, you can classify the service, add provider system information and a link to the documentation of the service.

How is it useful?

- You can add all information to the published service definition, that is also available when publishing a service from the development infrastructure.
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**EHP 1 For SAP NetWeaver PI 7.1 – Service Bus**

Enhanced flexibility for the integration developer in defining mediation flows
- Content-based routing and receiver split in AAE
- Operation-dependent receiver determination
- Directory API supports new objects types
- Enhanced search for communication channels
- Scenario view in Integration Directory
- Enhancements of Adapter Engine SE:
  - Remote configuration
  - Empty file handling
  - Overwriting of inbound files

Automated configuration support for A2A/B2B
- Configuration based on Process Component Interaction Models

Leverage performance enhancements via additional connectivity options
- XI message protocol supported in the Advanced Adapter Engine (*)
- End to end IDoc packaging
- IDoc Conversion Adapter Module

(*) Currently supported is communication between AAE 7.11 and ABAP proxies, AAE 7.11, PCK 7.11. Details in SAP note 1247043.
What is it about?

- The Integration Directory object Integrated Configuration is enhanced for receiver determination:
  - Content-Based (dynamic) Routing
  - Receiver Split: N receivers can be configured; routing to different receivers possible, but no message split to different interfaces

How is it useful?

- Integrated configuration enables the configuration of more complex scenarios: Routing based on content, addressing of multiple receivers
### Simplified Integration – Enhanced Receiver Determination For Integrated Configuration

#### Integrated Configuration: insert routing conditions

<table>
<thead>
<tr>
<th>Operation</th>
<th>specific/not operation-specific</th>
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</table>

#### Configuration Details

- **Communication Component**: BXL_105
- **Interface**: BookingOrderInformation_Out
- **Namespace**: http://sap.com/xi/xi/Demo/Agency

#### Routing Condition

- **Condition**: `/p1:BookingOrderInformation/BookingOrder/OrderDate...
- **Communication Component**: BXL_107
What is it about?
- In SAP NetWeaver PI 7.1, a sender interface can have more than one operation (corresponding to different message types)
- Operation-dependent definition of receiver determination allows to define different receivers / routing rules for different operations of the same outbound interface
  - Exception: Receiver determination defined for IDoc, RFC, XI 3.0 compatible interfaces (these interface types have no operations)
- Operation-independent configuration still possible

How is it useful?
- Configuration of routing adapted to new service interface structure
- Operation-independent configuration still supported for use cases in which the same receivers / routing rules apply for all operations
## Simplified Integration – Operation-Dependent Receiver Determination

### Edit Receiver Determination

**Sender**
- Communication Party
- Communication Component: BXT_200
- Interface: oasyn
- Namespace: http://sap.com/xi/BASIS

**Receiver**
- Communication Party
- Communication Component
- Description

### Contents

**Software Component Version:** SAP BASIS 7.10

**Type of Receiver Determination:**
- Standard

**Operations:**
- oasynout

### Configured Receivers

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<th>Condition</th>
<th>Communication Particulars</th>
<th>Communication Component</th>
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<td>BLZ_402</td>
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Simplified Integration – Access to New Objects Types via Integration Directory API

What is it about?
- With SAP NetWeaver PI 7.1 new object types are available in Integration Directory such as integrated configuration, direct connection, as well as new attributes for already existing object types such as service interface operations.
- With EHP 1, the Integration Directory API supports several of these SAP NetWeaver PI 7.1 features.
- However, “old” (PL 7.0) Integration Directory API is still available:
  - Reason: no compatible enhancement of old API, since PIC process for new API was necessary.
- Both (old and new) APIs can be used. However, it is recommended to use the new one.

How is it useful?
- Integration Directory API covers new object types as well as new attributes of SAP NetWeaver PI 7.1 Integration Directory.

Limitations & future improvements
- Not all new object types and new attributes of SAP NetWeaver PI 7.1 Integration Directory are supported, e.g.:
  - Folder, integrated configuration, parameterized mapping.
Simplified Integration – Enhanced Search Function for Communication Channels

What is it about?
- Communication channel search: Search channels with adapter type specific attribute values:
  - e.g. search channels with adapter type *File* who have configured a specific file name

How is it useful?
- Enhanced search capabilities for adapter type specific attribute values in Integration Directory
- Especially required in some EDI scenarios where customers have 100s of communication channels defined
- Using this functionality customers can search for specific attribute values across all these communication channels for update purposes
Simplified Integration – Scenario View in Integration Directory

What is it about?

- Scenario view supported in Integration Directory:
  - All configuration scenarios are visible, and below the scenarios a flat list of assigned objects is shown
  - Objects can further be grouped according to object types
  - Unassigned objects node contains objects that belong to no scenario (“root”)

How is it useful?

- Objects can be grouped according to configuration scenarios in Integration Directory allows access to configuration objects
Simplified Integration – Scenario View in Integration Directory

Object view

Folder view

Scenario view
What is it about?

- Channels can be created, activated, or changed
- Customer creates XI message with special payload, that holds configuration information
- Message is sent to Adapter Engine SE
- RemoteConfiguration Service „recognizes“ message and adds a configuration file (Java properties file) to the Adapter Engine configuration.

How is it useful?

- Allow central / remote configuration of the Adapter Engine SE
Simplified Integration – Empty File Handling for Adapter Engine SE

What is it about?

- If adapter on Adapter Engine SE encounters an empty file (file size zero) then the adapter should provide options to either process the file or stop processing the file.
- In EO mode, empty files are deleted from its current directory and placed in a separate directory (for example a dedicated directory for all incorrect files).
- In EOIO mode,
  - if FileEmptyStop=true, then it stops processing the files in queue.
  - if FileEmptyStop=false, then it does not stop processing the files in queue.

How is it useful?

- Option to either process empty files or stop processing empty files.
Simplified Integration – Overwriting of Inbound Files for Adapter Engine SE

What is about?
- In Adapter Engine SE an option is provided to prevent overwriting of inbound files
- If File.overwrite=true, then the files are overwritten
  - If File.overwrite=false, then the files are not overwritten

How is it useful?
- Never overwrites the files unless specifically required by the application

What is it about?
- Model configurator enables automatic configuration also process component interaction models

How is it useful?
- Accelerates configuration of Enterprise Services Repository content considerably
- Motivates creation of business content based on process component interaction models
Additional Connectivity Options – XI Message Protocol supported in AAE

What is it about?
- SOAP adapter is enhanced to accept XI message protocol
  - Supports connectivity to XI proxies, AAE, Partner Connectivity Kit (PCK)
- A separate message protocol type is provided
  - If this message protocol type is selected, then the SOAP adapter accepts the XI message protocol

How is it useful?
- Connectivity to XI proxies, AAE, PCK is supported via SOAP adapter

Limitations & future improvements
- Currently supported is communication between AAE 7.11 and ABAP proxies, AAE 7.11, PCK 7.11 only
- Currently not supported are acknowledgements, transport & message level security, Principal Propagation, bulk support on sender-side, HTTP destinations support
- For details see also SAP note 1247043
Additional Connectivity Options – End to end IDoc packaging

What is it about?
- In the Integration Directory an IDoc sender adapter can be configured to process IDoc packages that reach the inbound channel of the Integration Server without splitting the IDocs into single messages.

How is it useful?
- Optionally customers can configure to avoid the split of IDocs into single messages in case they need to process the complete IDoc package.
  - Without this functionality the IDoc package would be split into single messages. In case customers need to process the entire IDoc package (e.g. as an EDI interchange with IDocs of the same message type that are sent from one sender system and need to be processed by one receiver system) would have to be collected again in an integration process.
  - With this functionality customers can optionally avoid the collection of the single IDoc messages, which leads to a simplified process, increased performance, simplified monitoring and error handling.
Use Case “EDI Outbound Collection”: Without IDoc Sender Packaging

- **Collect**
  - IDoc 1
  - IDoc 2
  - IDoc 3
  - IDoc 4
  - …
  - n

- **Split**

- **Send EDI Interchange**
  - e.g. OFTP

- **Supplier**

- **mySAP ERP**

- **Send SYSTAT01**

- **Receive Report/EERP/MDN**

- **Send SYSTAT01**
Use Case “EDI Outbound Collection”: With IDoc Sender Packaging
Additional Connectivity Options – IDoc Conversion Adapter Module

What is it about?
- Offers functionality to convert IDoc XML to IDoc Flat File and vice versa

How is it useful?
- Customers can use this module together with Java adapters to connect to external systems with IDoc flat file entry point
- Customers can re-use mappings based on IDoc flat file structure that they bought from partners
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EHP 1 For SAP NetWeaver PI 7.1 – SOA Management

Enhanced support for end to end monitoring for non-technical users of SAP NetWeaver PI
- User defined message search *
- Cross domain message status overview *
- Process Integration monitoring and configuration capabilities available through SAP Solution Manager

Automated configuration of services in the provider and consumer systems
- SOA configuration for connectivity of Web services and consumers based on SOA Manager

Enhanced migration support
- Enhancement in migration controller for smooth upgrades of Java proxies to SAP NetWeaver PI 7.1

* The capabilities are available through the SAP NetWeaver Administrator for PI. Runtime Workbench is recommended for PI monitoring in production scenarios. See SAPNote: 1247043
Enhanced End to End Monitoring – User Defined Message Search

What is it about?
- Additionally payload search without TREX
- Executed on Integration Server and central Advanced Adapter Engine
- Configuration via ABAP transaction
  - Filters and Extractors
  - Fields are extracted by XPath expressions
- Accessible from Message Monitoring via Advanced search criteria
- Search by attribute – value pairs
  - Predefined attributes, for example “customer_name”
  - Free-text values

How is it useful?
- Search asynchronous messages by business-relevant information criteria contained in the message payload (SalesOrder Number, customerID, etc).
- Lower TCO since separate TREX installation is not required
Enhanced End to End Monitoring – Cross Domain Message Status Overview

What is it about?
- In SAP NetWeaver Administrator for PI you can get a message status overview for all domains that are connected to SAP NetWeaver Administrator.

How is it useful?
- Getting a message status overview for any node in the navigation tree of NWA for PI
- One further step towards monitoring your overall PI landscape
Enhanced End to End Monitoring – Cross Domain Message Status Overview

- Get a message status overview of all Integration Engines, Adapter Engines and Business Process Engines in your system landscape
- For that, position the cursor on any node in the navigation tree
Enhanced End to End Monitoring – Centralized Monitoring from SAP Solution Manager

What is it about?

- Configuration and monitoring capabilities for SAP NetWeaver for Process Integration are available from within SAP Solution Manager v 7.0
  - Accessible via work-center System Administration -> Administration Tools

How is it useful?

- Reduced TCO via administration available from SAP Solution Manager. SAP Solution Manager is the central, IT role-based administration and monitoring infrastructure across the whole SAP landscape.
Lowering the TCO:
Centralized Administration and Drill-Down Tools

SAP Solution Manager*
- Central, IT role-based administration and monitoring across the whole SAP landscape using work-centers

Central Administrative Tools: Process Integration
- SAP NetWeaver Administrator for PI
  - PI-wide monitoring; configuration.
- Integration Engine Admin (SXMB_ADM)

Local expert tools:
- SAP NetWeaver Administrator (local)
  - Java server administration and SOA Management
- SOAMANAGER
  - SOA Management in ABAP

* Refers to SAP Solution Manager v 7.0

PI tools in SAP Solution Manager
Automated configuration – SOA Configuration for Connectivity: Web Services and Consumers

What is it about?
- Enables the configuration of groups of Web services and Web service clients in one go
- The configuration is based on reusable technical communication profiles, service scenarios, and service groups
  - A service group facilitates the configuration of the Web service consumer. From the consumer point of view, it is a group of Web services provided by the same system and consumed by a Web service client.

How is it useful?
- Reduces the configuration overhead and overall TCO for Web services: Web services and clients do not have to be configured one by one
- Unifies the configuration steps for composite applications based on different technologies
**SOA Configuration for Connectivity: Basic Principles (1)**

**Configuring Providers**

Group of service definitions (service scenario) + Policy = Callable Web service endpoints (communication profile)

**Scenario:** a group of service definitions. You can assign policies to one or more services in a scenario.

**Policy:** contains runtime configuration settings (e.g. for security and reliable messaging) that are enforced on the consumer-provider communication. Policies, also called communication profiles, are reusable.
**SOA Configuration for Connectivity: Basic Principles (2)**

**Configuring Consumers**

A group of references to services + Policy = Configured consumer endpoints

**Service group**: a development-time artifact which is part of the consumer application and is configured at runtime. By configuring the service group, you configure the consumer endpoints of the consumer application.

A service group is a group of the consumed services that run on the same provider system, e.g. for data integrity reasons on the provider side. From the standpoint of the consumer, a service group is a bundle of references to the services that must be provided by the same provider system.

**Service Group (cont’d)**: A consumer can contain many service groups. The service groups in a composite application on CE can be published to the Services Registry. So, you can see which consumer applications can use a service at runtime.
SOA Configuration for Connectivity: Basic Principles (3)

- **Configure consumers**
  - Group consumer proxies in *service groups*
  - Associate policies and service groups
  - The system automatically creates logical ports and publishes service groups to the Services Registry

- **Connect systems**
  - Create policies
  - Create connections between the consumer system and the provider systems

- **Configure providers**
  - Group Web services in *scenarios*
  - Apply policies to the Web services in the scenario
  - The system automatically generates endpoints and publishes them to the Services Registry
Enhanced Migration of Application Based on SAP XI 3.0 / SAP PI 7.0 Java Proxies to SAP NW PI 7.1

What is it about?
- Changes in service interface and migration from SAP XI 3.0 / SAP PI 7.0 Java proxies to SAP NetWeaver PI 7.1 – reuse of PI / XI configuration objects
- While migrating existing Java proxy based applications from SAP XI 3.0 / SAP PI 7.0 to SAP NetWeaver PI 7.1 the customers have to change the EARs manually to point to the new references
- Functionality automated by Migration Controller, which is called while upgrading applications from SAP XI 3.0 / SAP PI 7.0 to SAP NetWeaver PI 7.1

How is it useful?
- Customers can place all the EARs in one location
- Migration Controller picks up the EARs, modifies them and deploys them in target location on SAP NetWeaver PI 7.1
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General Information on SAP NW PI 7.1 (incl. EHP 1)
- 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)
- 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 PI 7.1
- Performance Tests with EHP 1 for SAP NetWeaver PI 7.1
- Process Integration Troubleshooting Guide (incl. EHP 1 for SAP NetWeaver PI 7.1)
- Quickly Install, Configure, and Run SAP NetWeaver PI 7.1
- Going Productive with SAP NetWeaver PI 7.1
- Customer Scenarios with SAP NW PI 7.1
- Available Adapters for SAP NW PI 7.1
- 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](#)