

This presentation reflects current planning.  
Content may be changed without prior notice.



# End To End Process Integration

Features in SP15 and higher  
incl. SAP NetWeaver 2004s

Product Management - SAP NetWeaver  
May 2006

## General remarks

- **This presentation reflects current planning  
Content may be changed without prior notice**
- **Final commitment of the support of a new feature can only be given after the feature has been implemented by development and successfully validated by quality assurance**
- **This presentation covers on a high level new features that are relevant for the IT Practice End to End Process Integration and either implemented in SAP NetWeaver '04 SP15 – SP16 or that are planned for a later SP**
- **All XI-related features planned for SAP NetWeaver '04 SPx are planned to be implemented in SAP NetWeaver 2004s SPy**
- **For details on features of released SPs please refer to the Release Notes under:**  
[http://help.sap.com/saphelp\\_nw04/helpdata/en/57/a21f407b402402e10000000a1550b0/frameset.htm](http://help.sap.com/saphelp_nw04/helpdata/en/57/a21f407b402402e10000000a1550b0/frameset.htm)
- **The release schedule for SAP NetWeaver '04 SPs and SAP NetWeaver 2004s SPs can be found at:**  
<http://service.sap.com/sp-stacks> -> SP Stack Information -> SP Stack Schedule

NW 04 stack	RTC	NW 2004s stack min	RTC
SP12 and below		SP04	
SP13 + 14		SP05	
SP15	12.12.2005	SP06	31.01.2006
SP16	27.02.2006	SP07	11.04.2006
SP17	29.05.2006	SP08	27.06.2006
SP18	21.08.2006	SP09	05.09.2006

# SAP NetWeaver Technology Map

## IT Practices

## IT Scenarios

User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management
Data Unification	Master-Data Harmonization	Master-Data Consolidation	Central Master-Data Management	Enterprise Data Warehousing	
Business Information Management	Enterprise Reporting, Query, and Analysis		Business Planning and Analytical Services	Enterprise Data Warehousing	
Business Event Management	Business Activity Monitoring			Business Task Management	
End-to-End Process Integration	Enabling Application-to-Application Processes	Enabling Business-to-Business Processes	Business Process Management	Enabling Platform Interoperability	Business Task Management
Custom Development	Developing, Configuring, and Adapting Applications			Enabling Platform Interoperability	
Unified Life-Cycle Management	Software Life-Cycle Management			SAP NetWeaver Operations	
Application Governance & Security	Authentication and Single Sign-On			Integrated User and Access Management	
Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master-Data Consolidation	Enterprise Knowledge Management	
Enterprise Service Architecture – Design & Deployment	Enabling Enterprise Services				

# SAP NetWeaver Technology Map

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End-to-End Process Integration	Enabling Application-to-Application Processes	Enabling Business-to-Business Processes	Business Process Management	Enabling Platform Interoperability	Business Task Management
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# End-to-End Process Integration

## New Features per IT-Scenario

A2A/B2B Processes Integration

Business Process Management

Business Task Management

# New Features within A2A/B2B Process Integration

**Mapping**

Configuration

Connectivity

Operations

Summary

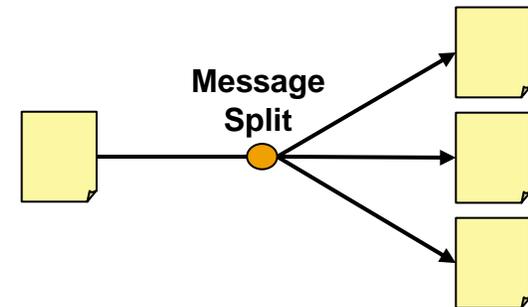
## Enhanced Message Split Scenario

### Basic functionality (available since SPS14)

- ◆ Enable message split scenarios (1:n) w/o Integration Processes (ccBPM)
- ◆ Benefit: Improve performance and reduce required resources for split scenarios

### Enhanced functionality

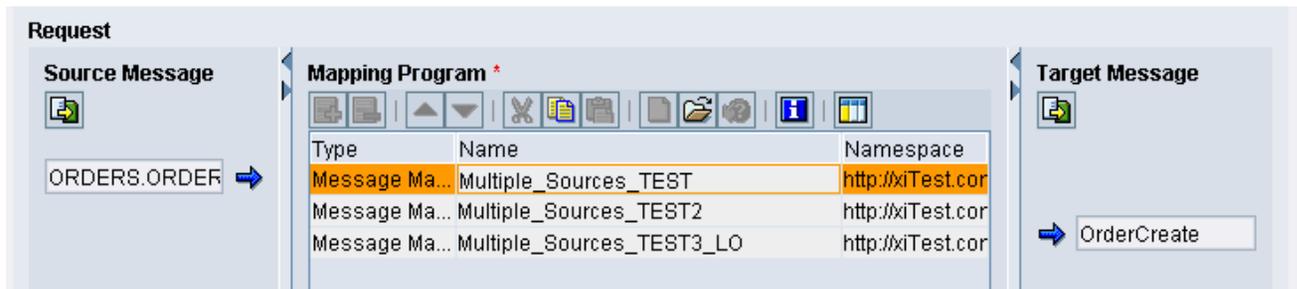
- ◆ EOIO quality of service enabled for message split scenario
- ◆ Visibility of multi-message format in monitoring



## Enhanced Multi-Mappings

- Process several multi-mappings within an interface mapping
  - For one direction several multi-mappings can be processed in a series
  - Required to map to canonical data model using multi-mappings

Release Date: SAP NetWeaver `04 SPS16



- Source-/target-message can relate to a different software-component-version than multi-mapping program
  - So far: SCV of source-/target-message = SCV of multi-mapping

Release Date: SAP NetWeaver `04 SPS16

# New Features within A2A/B2B Process Integration

Mapping

**Configuration**

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Summary

## Enhanced Receiver Determination

- Specify behaviour if no receiver can be determined
  - Stop pipeline processing / Raise error / Define default receiver
  - This setting overrides the general parameter *ERROR\_ON\_NO\_RECV\_FOUND*

Release Date: SAP NetWeaver `04 SPS15

If No Receiver Is Found, Proceed as Follows:

- Terminate Message Processing with Error (Restart Possible)
- End Message Processing Without Error (Restart not Possible)
- Continue Message Processing with the Following Receiver: Party  Service

- Flexible determination of receivers
  - Receivers do not have to be specified during configuration time
  - Dynamic determination of receivers within mapping programs (e.g. based on look up tables, Java functions, message payload, ...)
  - Realized through assignment of mapping program to receiver determination

Release Date: SAP NetWeaver `04 SPS15

Type of Receiver Determination

- Standard
- Extended

Interface Mapping for Enhanced Receiver Determination

Mapping Name	Namespace	Software Component Version
<input type="text"/>	<input type="text"/>	<input type="text"/>

# New Features within A2A/B2B Process Integration

Mapping

Configuration

**Connectivity**

Operations

Summary

## Enhanced Dynamic Adapter Configuration

### Enable adapters to read / write dynamic SAP XI message headers

#### Basic functionality (available since SPS14)

- ◆ **Sender adapter**  
Attach adapter specific information to SAP XI message header
- ◆ **Receiver adapter**  
Read attributes to overwrite values of channel configuration

#### Enhanced functionality

Additionally supported by the following adapters:

- ◆ **HTTP, RNIF 1.1, RNIF 2.0, CIDX**  
Release Date: SAP NetWeaver `04 SPS16

## File / FTP Adapter

- Processor for OS commands
    - ◆ Specify operating system command *before* or after processing file
  - Active FTP support
    - ◆ Active mode: Server establishes data connection to client (push)
    - ◆ Passive mode: Client establishes data connection to server (pull)
- Release Date: SAP NetWeaver `04 SPS15
- Optional creation of target directory
    - ◆ *Optionally* a target directory can be created if it does not exist yet
  - XML structure check
    - ◆ Via a module it can optionally be checked whether the XML structure of a payload is in principal correct (no validation)

## Module Processor

- Encryption of passwords
  - ◆ Example scenario:  
Login to backend system during execution of adapter module (password specified as module parameter)
  - ◆ For parameter names starting with *pwd* the parameter value is expected to be a password (passwords are encoded and need to be entered twice)

Release Date: SAP NetWeaver `04 SPS15

## SOAP, HTTP, XI Adapter

- Support of client authentication with certificates
  - Certificates stored in local key store of local SAP J2EE Engine
- Release Date: SAP NetWeaver `04 SPS15

## SOAP Adapter

- Configuration of time interval within signed messages are processed only
  - ◆ Specify validity period in sender agreement within which message is accepted
  - ◆ Specify expiry date for message signature (optional)
  - ◆ Message must be delivered within the shorter of two time intervals

Release Date: SAP NetWeaver `04 SPS15

- Payload encryption
  - ◆ Certificates stored in local key store of local SAP J2EE Engine

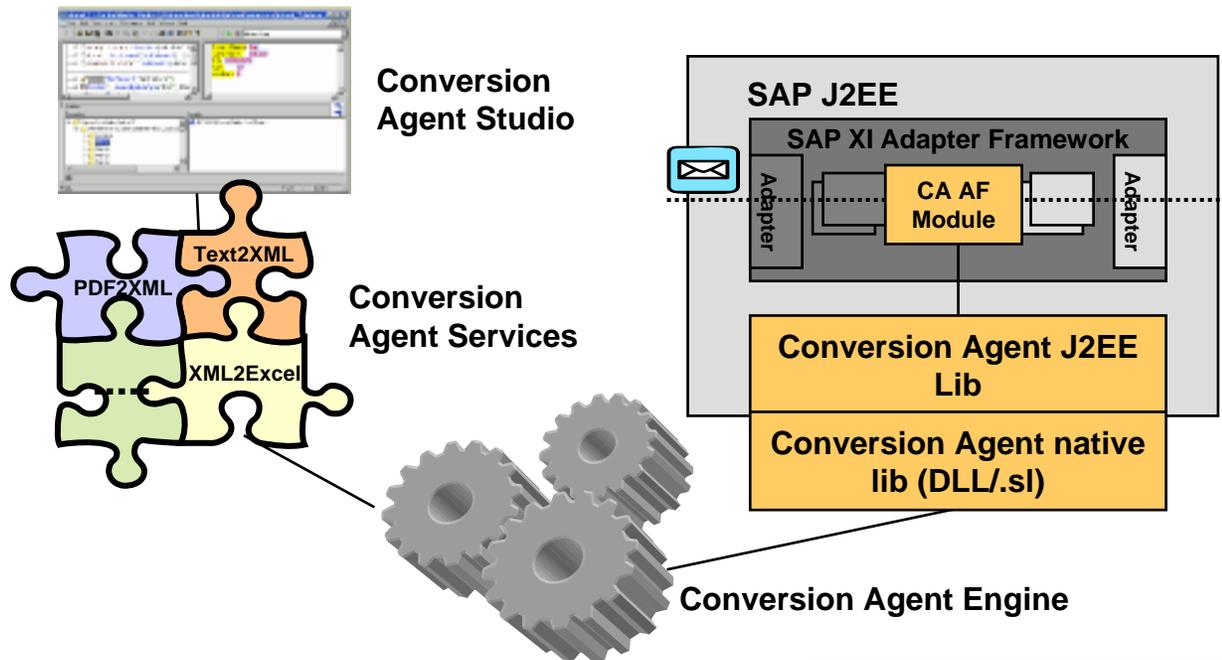
## Enhanced Documentation of JDBC Adapter

- SQL statements for adapter specific processing parameter in database

For details refer to SPS17 release notes

## SAP Conversion Agent by Itemfield

- Bi-directional conversion of unstructured & semi structured data from/to XML
  - Examples: HTML, MS Word, MS Excel, PDF, SWIFT, etc
- Efficient (example based) development of transformation rules
- Protocol support via SAP's technical adapter
  - Integrated via adapter framework modules
- Release Date: SAP NetWeaver `04 SPS15



# New Features within A2A/B2B Process Integration

Mapping

Configuration

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**Operations**

Summary

## Security

### ■ Runtime Authorizations

**Basic functionality (available since SPS 13 - 16)**

- ◆ **Support of ACLs (access control lists) in Sender Interfaces additionally to Business System/Service**
- ◆ **Restrict access to runtime environment to particular users**
- ◆ **Message may only be executed by specified users**
- ◆ **Configuration in Sender Agreement**

**Enhanced functionality**

- ◆ **Supported by the following adapters additionally:**
  - ◆ **RFC, RNIF 1.1, RNIF 2.0, CIDX**
- ◆ **Release Date: SAP NetWeaver `04 SP16**
- ◆ **ACLs for Java proxies**

## Enhanced Documentation of Security Features

- **Message level security features per adapter type**
- **Transport level security features per adapter type**
- **Restricted runtime access via ACLs (access control lists)**
- **Access to SAP J2EE key store**

**For details refer to SPS16 release notes**

## Monitoring

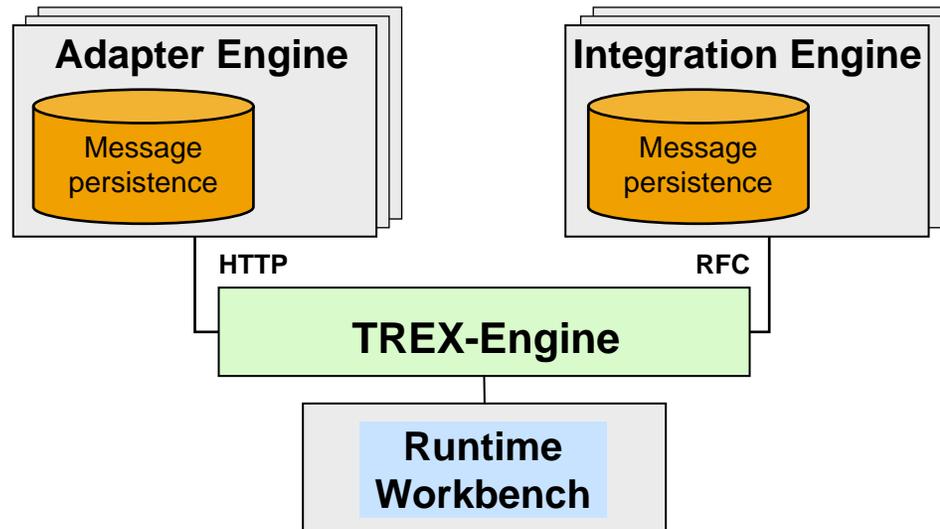
### ■ Payload search based on TREX

Basic functionality (available since SPS15)

- ◆ Supports the search in payloads on Integration Engine or Adapter Engine
- ◆ Enables to determine when a file x or value y has been processed
- ◆ Allows indexing of messages that will be available for payload search
- ◆ TREX is part of SAP NetWeaver

Enhanced functionality

- ◆ Adoption of new TREX configuration options for performance optimization which are available as of TREX 7.0.



## Monitoring (cont'd)

### ■ Enhanced Query Options

- ◆ Use adapter-specific fields (available as dynamic SAP XI message headers) for queries
- ◆ Ability to save filter criteria and reuse these named filters
- ◆ Release Date: SAP NetWeaver `04 SPS16

### ■ Payload editing

- ◆ Editing an asynchronous message that failed during processing.
- ◆ The corrected message can be saved and resent.
- ◆ Integrated in message monitoring of RWB
- ◆ Payload editing available for messages from Integration Server and Business Process Engine only.

### ■ XI alerts in CCMS

- ◆ New configuration option allows to send XI alerts to CCMS  
In addition to existing options for alerts it is also possible to send alerts to CCMS and retrieve them from there.

## Monitoring (cont'd)

### ■ Channel Monitoring and Administration in RWB

#### ◆ Monitoring of individual communication channels

- Display channel information in a structured and uniform way
  - Static information: name, direction, party, adapter type ...
  - Runtime information: status, errors, processed messages ...
- Provide flexible filter mechanisms to monitor desired channels

#### ◆ Administration of individual communication channels

- Manually: Start/stop of single or multiple selected channels
- Automatically: Scheduler, e. g. for regular channel downtime

Communication Channel Monitoring - Microsoft Internet Explorer provided by SAP IT

Adapter Log (Channel-Independent)

Filter

Use Filter Reset

Communication Channel  Input Help

Status All

Adapter Type  Namespace

Direction

Party  Input Help Service  Input Help

Configure Table Columns

Communication Channels

All 4 selected and administered channels have been stopped

Refresh Start Stop Single Selection On Visible Rows 10

Communication Channel	Status	Short Log	Party	Service	Adapter Type	Direction
<input type="checkbox"/> Anand_Receiver	Functioning			Anand_File2File	File	Receiver
<input checked="" type="checkbox"/> Anand_Sender	Channel stopped			Anand_File2File	File	Sender
<input type="checkbox"/> BC_ReceiveChannel	BC adapter started and registered as protocol hand ...			SUS	BC	Receiver
<input checked="" type="checkbox"/> BC_ReceiveChannel	Channel stopped			U6X_106	BC	Receiver
<input type="checkbox"/> BC_Receive_Channel_async	BC adapter started and registered as protocol hand ...			U6X_106	BC	Receiver
<input type="checkbox"/> BC_Sender_Channel	BC adapter started and registered as protocol hand ...			U6X_106	BC	Sender
<input checked="" type="checkbox"/> BSA_RFC_Receiver_106	Channel stopped			U6X_106	RFC	Receiver
<input type="checkbox"/> BirgitsReceiverKanal	Functioning		BirgitsParty	BirgitsReceiverService	File	Receiver
<input checked="" type="checkbox"/> BirgitsSenderkanal	Channel stopped		BirgitsParty	BirgitsSenderService	File	Sender
<input type="checkbox"/> Buyer_Send_E41_OrderCreate__FileAdapterToInId	Functioning			FileAdapter_as_CDX_XI	File	Sender

Line 481 / 1502

## New HA setup

- **With SAP NetWeaver 2004s a new HA setup is available**
  - ◆ **Make use of the ASCS (ABAP Server Central Services) for SAP Process Integration to optimize the switch-over process**

## Enhanced IDoc Tracking in ALE Layer

- **ALE tracing for IDoc messages is also supported by SAP XI**
  - ◆ **Tracing is integrated in the ABAP monitor for IDocs; IDocs sent to or from an XI system can now be tracked from the ALE layer**
  - ◆ **Sender system can retrieve information about status of IDoc processing from the receiver system using the IDoc number**
  - ◆ **For erroneous IDocs, a point-to-point analysis is possible**
  - ◆ **Access to monitoring information on the receiver system requires respective access rights**

# New Features within A2A/B2B Process Integration

Mapping

Configuration

Connectivity

Operations

**Summary**

## Mapping

- Enhanced message split scenario (w/o integration processes)
- Enhanced Multi-Mappings

## Configuration

- Enhanced Receiver Determination

## Connectivity

- Dynamic adapter configuration
- File / FTP adapter: Optionally target directory creation, XML structure check, OS commands, active mode
- Module Processor: Encryption of passwords
- SOAP, HTTP, XI adapter: Client authentication with certificate
- SOAP adapter: Payload encryption, configuration of time interval within signed messages are processed only
- Enhanced Documentation of JDBC Adapter
- SAP Conversion Agent: Bi-directional conversion of unstructured & semi structured *formats*

## Operations

### ■ Security

- ◆ Enhanced runtime authorizations
- ◆ Enhanced Documentation of Security Features

### ■ Monitoring

- ◆ Payload search based on TREX
- ◆ Enhanced Query Options
  - Use adapter specific attributes
  - Save and reuse filter criteria
- ◆ Payload editing
  - Edit and resend erroneous messages
- ◆ XI alerts in CCMS
- ◆ Channel Monitoring and Administration in RWB
  - Monitoring and administration of individual communication channel

### ■ New HA setup with optimized switch-over time

### ■ Enhanced IDoc Tracking in ALE Layer

# End-to-End Process Integration

## New Features per IT-Scenario

A2A/B2B Processes Integration

Business Process Management

Business Task Management

# New Features within Business Process Management

**Business Intelligence for Processes**

ccBPM

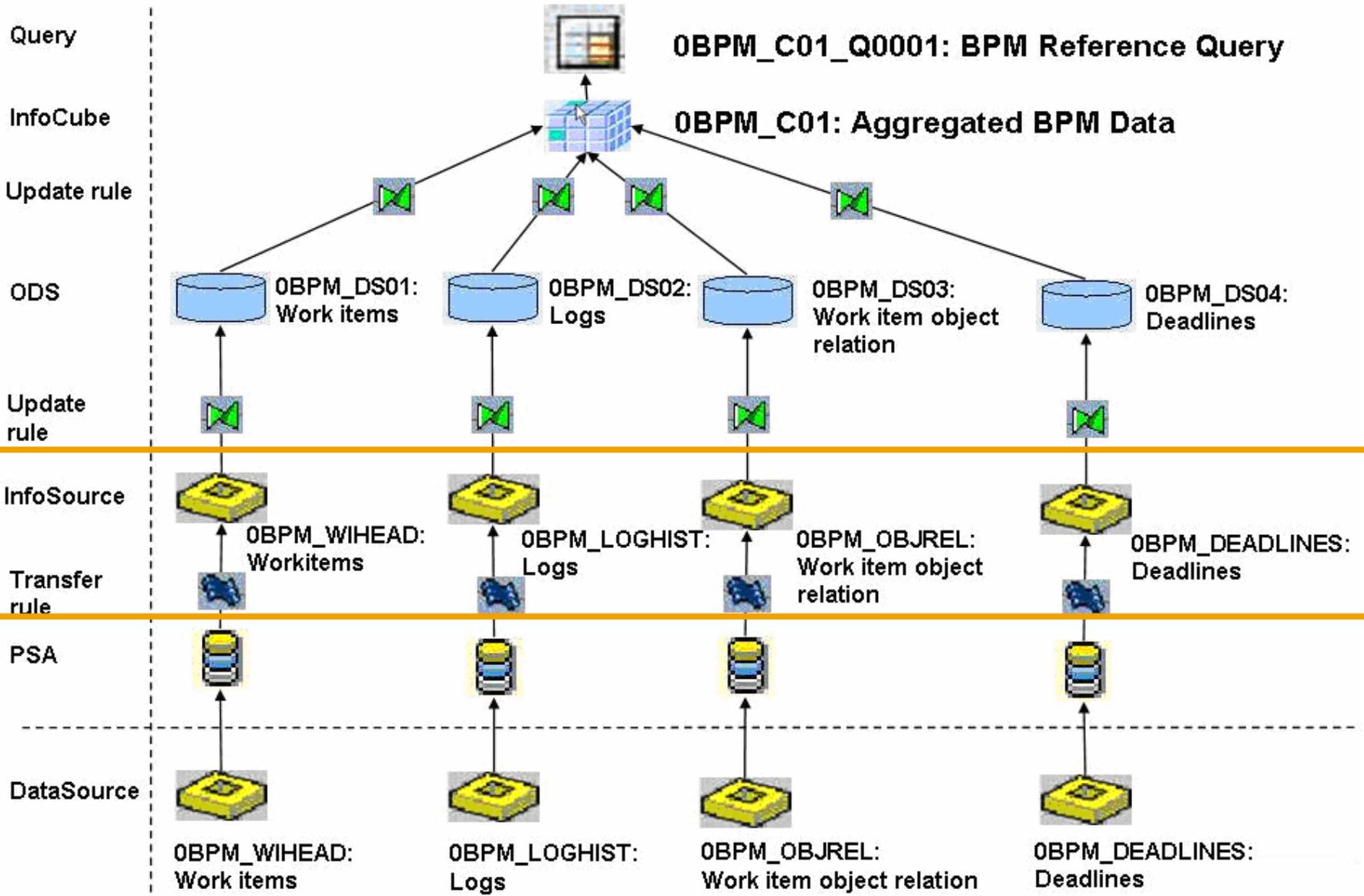
## BI Integration for Process Data

- **SAP NetWeaver BI replaces the previous WIS implementation**
- **Benefit:**
  - **Standard SAP tool used for process reporting**
  - **BI Monitoring of processes that are still in progress**
  - **Enables reporting and monitoring that combines HR, process, and application context in one reporting environment**
- **Prerequisites**
  - ◆ **SAP Web AS 6.10 for the human workflows or**
  - ◆ **SAP XI 3.0 for the integration processes**
- ◆ **Release Date: SAP BI Content Release**

### **Application process specific questions:**

- Which current product-shipments are about to miss the approve-by deadline?
- How long does it take on average (and quartiles) to process orders over 10.000€ ?
- How often does sales-division south miss the commit-by deadline.

# BI Integration - Architecture



# New Features within Business Process Management

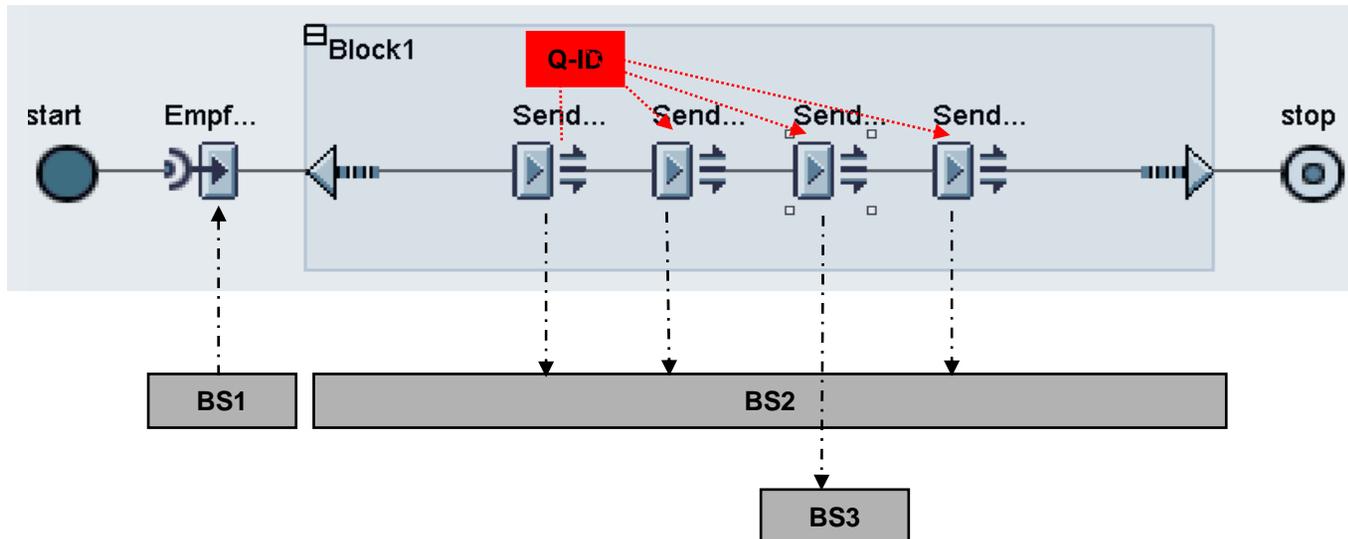
Business Intelligence for Processes

**ccBPM**

## EOIO sending from ccBPM process

- Every Target System gets a qRFC-Queue
  - ◆ Manual Q-ID maintenance
  - ◆ Every target system gets own queue (generated)
  - ◆ Dynamic parallel section uses one queue per Q-ID
  - ◆ No 2-phase commit
  - ◆ No cross-system EOIO-behavior

Release Date: SAP NetWeaver `04 SP15



## Usage of Conversation ID

**You can use the conversation ID to flag messages that belong together semantically. All messages with the same conversation ID in the message header semantically belong to the same business process.**

**You can use this mechanism to represent more complex communication models that extend beyond basic request/response relationships.**

**Release Date: SAP NetWeaver `04 SP15**

# Startup/Shutdown of the Business Process Engine

**Starting and Stopping the Business Process Engine**

Buttons: Start BPE, Stop BPE

Status of BPE: ○○○ BPE is running

Last Changed on: \_\_\_\_\_ At: 00:00:00

By User: \_\_\_\_\_

**Status of Components of BPE**

Stat..	Component
○○○	Deadline Monitoring
○○○	Rule Processing
○○○	Error Monitoring
○○○	Event Queue
○○○	Inbound Queue
○○○	Inbound Processing

**Log**

Component	Current Date	Time	Name	T..	Message
-----------	--------------	------	------	-----	---------

*Release date: SPS17 (NW04) or SPS8 (NW2004s)*

SWF\_XI\_ADM\_BPE | pwwdf2813 | INS

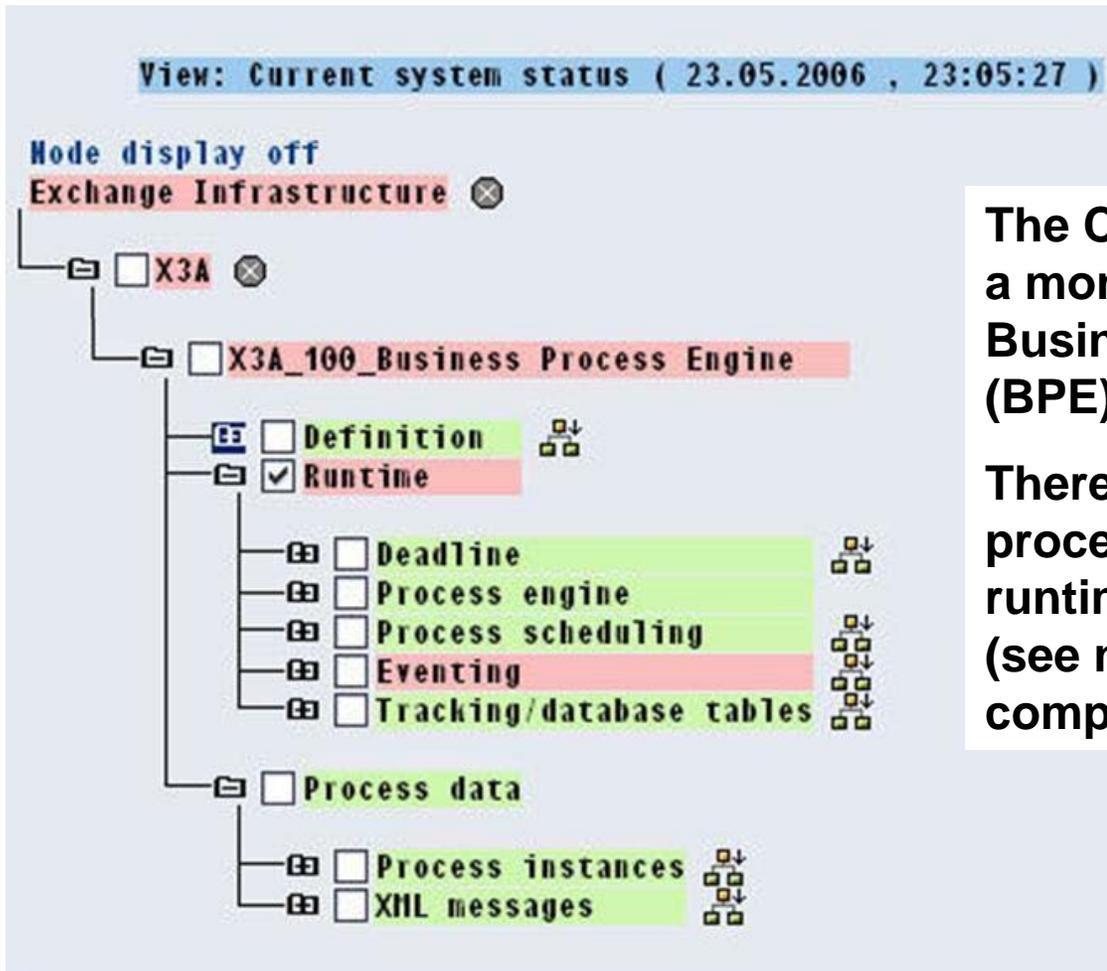
The Business Process Engine can be started or stopped independently of the Integration Server.

Use Transaction Code SWF\_XI\_ADM\_BPE

This replaces the manual process described in SAP Note 893218

# CCMS Integration

The CCMS Monitor has been extended with a Business Process Engine Monitor.



The CCMS Monitor includes a monitoring tree for the Business Process Engine (BPE).

There are subtrees for process definition, process runtime, and process data (see next slide for a complete list of the MTEs)

**Release date: SPS17 (NW04) or SPS8 (NW2004s)**

# CCMS Integration – Monitoring Tree Elements

- **Definition**

- Incorrect process definitions in XI cache
- Process instances without definition
- Event linkage properties

- **Runtime**

- **Deadlines**

- Status of Deadline monitoring
- Deadline items in status “error”

- **Process Engine**

- Process Start
  - Hanging process instances
- Process Execution
  - Process interruption caused by locks
  - Incomplete recovery after system crash
  - Process Instance consistency

- **Process Scheduling**

- qRFCs in Status ERROR
- Delayed qRFCs
- Status of automatic error handling
- Status of event queue monitoring
- Status of automatic cleanup

- **Runtime (cont.)**

- **Eventing**

- Events in status “error”
- Event linkages in status “error”
- Events waiting for delivery

- **Tracking/Database**

- Process trace status
- Event trace status
- DB Tables (data volume)

- **System Dumps**

- Number of new dumps for BC-BMT-WFM\*
- Number of new dumps for BC-XI-IS-BPE\*

- **Process Data**

- **Messages**

- Unprocessed XML messages
- Unsent XML messages
- Orphaned XML messages
- Pending XML messages

- **Process Instances**

- Process instances in status “error”
- Queued triggering events

**Inbound processing is a runtime component that delivers messages to integration processes, or that starts new integration process instances.**

Inbound processing satisfies the following tasks:

1. Determine the process type that the message is delivered to.
2. Determine the process instances that the message is to be delivered to.
3. Deliver the message to existing process instances or start a new process instance.

***There is a new setting for this third step: “Inbound Processing Without Buffering”***

If you select this setting, the qRFC entry returns an error when a message is delivered for which no receive step is active. The message remains in the qRFC queue. This situation leads to an error in the queue, which is therefore easier to recognize and deal with. Without this setting, it is possible that a message fails to be delivered because the corresponding process instance does not have an active receive step.

This also improves process performance.

**To configure Inbound Processing, use transaction `SWF_INB_CONF`  
(read about the details and prerequisites in the online documentation)**

***Release date: SPS17 (NW04) or SPS8 (NW2004s)***

## XSLT Serialization:

**XSLT Serialization is a method of improving performance for ccBPM Processes; XML documents, which represent workflow containers on the database, are no longer created or interpreted using the iXML toolkit. Now the XSLT transformation ID is used, which provides a performance gain of factor 3-5 times.**

***Release date: SPS17 (NW04) or SPS8 (NW2004s)***

## Process Editor – Semantic Checks

- Container related
- Flow related

## Automatic WF Customizing for ccBPM in SAP XI

- Complete automation of generic workflow customizing

## EOIO sending from ccBPM process

- Enables exactly-once-in-order sending from an integration process
- Manual Q-ID, but automated queue generation on the Integration Server
- No 2-phase commit

## Conversation ID

- Use message header data to define conversation ID

## Startup/Shutdown of the Business Process Engine

- Replaces cumbersome manual process

## Business Process Monitor in CCMS

- MTEs for Process Definition, Process Runtime, Process Data

## New Inbound Processing Setting

- New setting improves performance and simplifies error handling

## Process Performance Improvements

- XSLT serialization

# End-to-End Process Integration

## New Features per IT-Scenario

Enabling A2A/B2B Processes

Business Process Management

Business Task Management

# New Features within Business Task Management

**End-user Productivity**

Third Party Integration

Operations

Summary

# Process Log in the Universal Worklist

## Universal Worklist displays the process log

### ■ Benefits

- Workflow Log displayed directly with the SAP NetWeaver Enterprise Portal look-and-feel
- Collaboration Task history integrated with the workflow log for complete process transparency of ad hoc actions
- Users can see at-a-glance *who worked on what, when*

### ■ Release Date: SAP NetWeaver `04s SP05 (including the workflow server)

System ID	Subject	From	Sent	Priority	Due
AdHocSystem	Approve notification of absence: Demo SP: Demo Approval Subprocess 1129 step 1	DEMO, UWL	Today	Normal	Dec 5, 2005
U7ACLNT000	Employee Kitty Yue : Approve notification of absence	Workflow system	Today	Normal	1
U7ACLNT000	Employee Kitty Yue : Approve notification of absence	Workflow system	Today	Normal	1
U7ACLNT000	Bitte genehmigen	Workflow system	Today	Normal	1
U7ACLNT000	Employee Kitty Yue : Approve notification of absence	DEMO, UWL	Today	Normal	1
U7ACLNT000	Create notification of absence	DEMO, UWL	Today	Normal	1

**Historical data: Employee Kitty Yue : Approve notification of absence**

Workflow						
Title	Created by	Created At	Priority	Due Date	Status	Completion Time
Demo workflow for notification of absence	DEMO, UWL	Nov 28, 2005 6:38 PM	Normal		In Progress	
Steps						
Title	Processed By	Executed At	Priority	Due Date	Status	Action
Create notification of absence	DEMO, UWL	Nov 28, 2005 6:53 PM	Normal		Completed	
Employee Kitty Yue : Approve notification of absence	DEMO, UWL	Nov 28, 2005 7:08 PM	Normal		In Progress	Subprocess created
Demo Approval Subprocess 1129 step 1	DEMO, UWL		Normal	12/5/2005	In Progress	

You can also:  
 Display Details in S  
 Attachments Mana  
 Create Ad Hoc Re  
[View History](#)

# Direct Rendering of Workflow Log

Tasks (33 / 43) Alerts Notifications Tracking (1 / 16)

Show: New and In Progress Tasks (33 / 43) Select a Subview... All Create Task Show Filter

System ID	Subject	From	Sent	Priority	Due
AdHocSystem	<a href="#">Approve notification of absence: Demo SP: Demo Approval Subprocess 1129 step 1</a>	DEMO, UWL	Today	Normal	Dec 5, 20
U7ACLNT000	<a href="#">Employee Kitty Yue : Approve notification of absence</a>	Workflow system	Today	Normal	1
U7ACLNT000	<a href="#">Employee Kitty Yue : Approve notification of absence</a>	Workflow system	Today	Normal	1
U7ACLNT000	<a href="#">Bitte genehmigen</a>	Workflow system	Today	Normal	1
U7ACLNT000	<a href="#">Employee Kitty Yue : Approve notification of absence</a>	DEMO, UWL	Today	Normal	1
U7ACLNT000	<a href="#">Create notification of absence</a>	DEMO, UWL	Today	Normal	
U7ACLNT000	<a href="#">Employee Kitty Yue : Approve notification of absence</a>	Workflow system	Today	Normal	1
U7ACLNT000	<a href="#">Bitte genehmigen</a>	Workflow system	Today	Normal	1

**History Data: Employee YUE : Approve notification of absence**

Workflow						
Title	Created By	Created At	Priority	Due Date	Status	Completion Time
Demo workflow for notification of absence	Administrator, null	Nov 8, 2005 4:22 PM	Normal		Completed	Nov 8, 2005 5:24 PM

Steps						
Title	Processed By	Executed At	Priority	Due Date	Status	Action
Create notification of absence	Administrator, null	Nov 8, 2005 4:22 PM	Normal		Completed	
Employee YUE : Approve notification of absence	Administrator, null	Nov 8, 2005 4:25 PM	Normal		Completed	Subprocess created
Test Step 1_1	Fessler, Nicole	Nov 8, 2005 4:28 PM	Normal	11/15/2005	Confirmed	Confirmed by Fessler, Nicole
Employee YUE : Approve notification of absence	Administrator, null	Nov 8, 2005 4:28 PM	Normal		Completed	Subprocess finished
Employee YUE : Approve notification of absence	Administrator, null	Nov 8, 2005 5:18 PM	Normal		Completed	Subprocess created
Test SP Step 1_1	Voronina, Vera	Nov 8, 2005 5:20 PM	Normal	11/15/2005	Confirmed	Confirmed by Voronina, Vera
Employee YUE : Approve notification of absence	Administrator, null	Nov 8, 2005 5:20 PM	Normal		Completed	Subprocess finished
Employee YUE : Approve notification of absence	Administrator, null	Nov 8, 2005 5:24 PM	Normal		Completed	genehmigt
Notification of absence no. 0000286006: Approved	Administrator, null	Nov 8, 2005 5:24 PM	Normal		Completed	Langtext gesendet

**You can also:**

- Display Details in S
- Attachments Mana
- Create Ad-Hoc Re
- [View History](#)

# Spreadsheet Export for Collaboration Tasks

The status of Collaboration Tasks can be exported to a spreadsheet

## ■ Benefits

- Collaboration room owner can present status of tasks to colleagues with no online access)
- Status summary of tasks can be made e-mailed to colleagues for further analysis
- Status summary of tasks can be made available to steering committees requiring spreadsheet reporting

## ■ Release Date: SAP NetWeaver `04 SP15

The screenshot displays the SAP Collaboration Tasks interface and a Microsoft Excel spreadsheet. The SAP interface shows a list of tasks with columns for System ID, Subject, From, Sent, Priority, and Due. The Excel spreadsheet, titled 'UWLFeaturePAM.xls', shows the exported data with columns for task details and status.

System ID	Subject	From	Sent	Priority	Due
AdHocSystem	Approve notification of absence: Demo SP: Demo Approval Subprocess 1129 step 1 =	DEMO, UWL	Today	Normal	Dec 5, 2004
U7ACLNT000	Employee Kitty Yue : Approve notification of absence =	Workflow system	Today	Normal	1
		Workflow system	Today	Normal	1
		Workflow system	Today	Normal	1
		DEMO, UWL	Today	Normal	1
		DEMO, UWL	Today	Normal	
		Workflow system	Today	Normal	1
		Workflow system	Today	Normal	1
		Workflow system	Today	Normal	2 Today
		Workflow system	Today	Normal	2 Today

Microsoft Excel - UWLFeaturePAM.xls

Export the status of collaboration tasks from a collaboration room to a spreadsheet

Task ID	System ID	Subject	From	Sent	Priority	Due
12	UWL	Approve notification of absence: Demo SP: Demo Approval Subprocess 1129 step 1 =	DEMO, UWL	Today	Normal	1
13	UWL	Employee Kitty Yue : Approve notification of absence =	Workflow system	Today	Normal	1
14	UWL	Approve notification of absence: Demo SP: Demo Approval Subprocess 1129 step 1 =	DEMO, UWL	Today	Normal	1
15	UWL	Employee Kitty Yue : Approve notification of absence =	Workflow system	Today	Normal	1

## Business Objects can be added as attachments to Collaboration Tasks

### ■ Benefits

- The business objects reference, such as a sales order, can be added to collaboration task so that task participants can access it directly
- Collaboration tasks started from SAP Business Workflow workitems retain the context by attaching the underlying business object to the new ad hoc task
- Changes can be made to the underlying business object without leaving the task or portal

■ Release Date: SAP NetWeaver `04 SP15, SAP NetWeaver 2004s SP05

# Secondary Methods Supported

## Secondary Methods can be launched from the Universal Worklist

### ■ Benefits

- Workflows that use secondary methods can be deployed in the Universal Worklist
- The secondary method, such as a scanned bill, is displayed as context together with the decision task

### ■ Release Date: SAP NetWeaver `04 SP14 (Web AS 4.6C workflow server)

The screenshot displays the SAP NetWeaver Universal Worklist interface. On the left, an invoice is shown with the following details:

- INVOICE**
- INVOICE DATE: 1/31/08
- INVOICE NO: 972445
- CUSTOMER NO: SAP001
- SALIS PERSON: SA
- PAGE: 1

The invoice also includes a 'SUPPLIER LOG' section with the following information:

- PPGGY
- SAP AMERICA-CORP INTERNAL SYS
- 701 LEE ROAD, SUITE 200
- ATWY DFX BANGLEY
- HAYNE, PA 19087

Below the invoice, a table lists workflow tasks. The table has columns for 'From', 'Sent', 'Priority', and 'Due'. The tasks are as follows:

From	Sent	Priority	Due
DEMO, UWL	Today	Normal	Dec 5, 2007
Workflow system	Today	Normal	1
Workflow system	Today	Normal	1
Workflow system	Today	Normal	1
DEMO, UWL	Today	Normal	1
DEMO, UWL	Today	Normal	
Workflow system	Today	Normal	1
Workflow system	Today	Normal	1
Workflow system	Today	Normal	2 Today
Workflow system	Today	Normal	2 Today

At the bottom of the screenshot, there are navigation buttons: Cancel Sub-Processes, View Subprocess, Open Task, Resubmit, Forward, and Assign To Me. A 'You can also:' section provides additional actions: Display Details in S, Attachments Mana, Create Ad-Hoc Re, and View History.

# New Features within Business Task Management

End-user Productivity

**Third Party Integration**

Operations

Summary

# 3rd Party Integration into the Universal Worklist

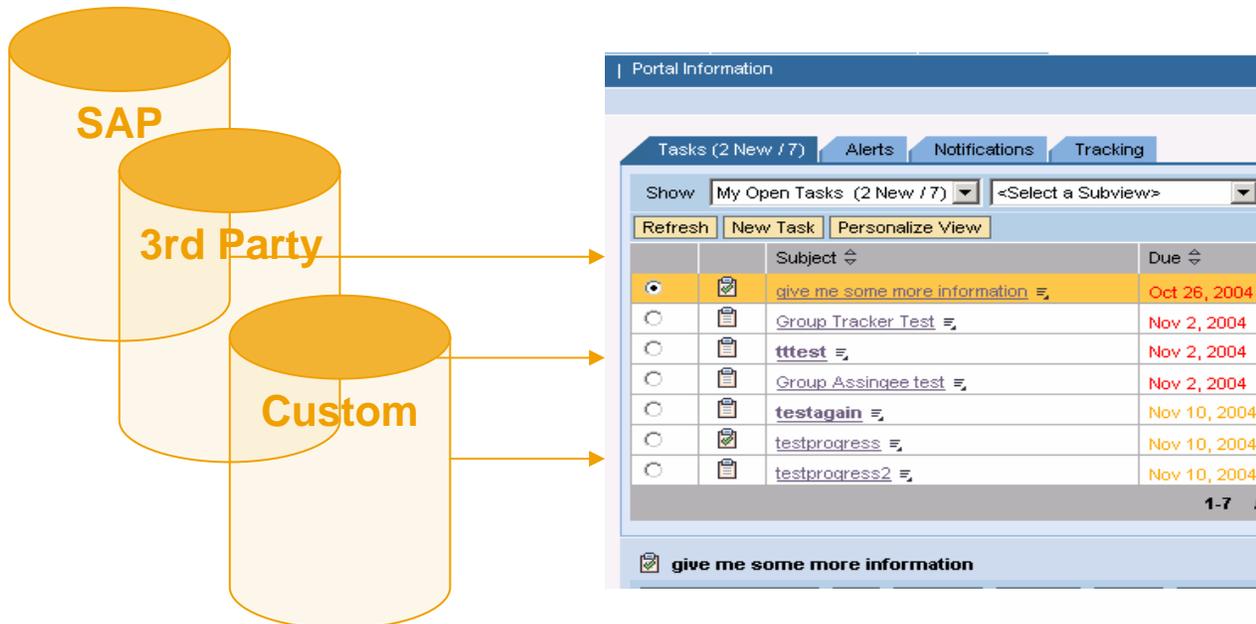
## Third Party Task Tools can be integrated in the Universal Worklist

### ■ Benefits

- One central task list for *all* tasks with the SAP NetWeaver Enterprise Portal look-and-feel
- Consistent behaviour of worklist independent of whether or not the tasks are delivered by an SAP engine, 3rd party or custom-developed engine

### ■ Release Date: SAP NetWeaver `04s

Currently available to pilot customers only (see [www.sdn.sap.com](http://www.sdn.sap.com))



# Business Task Management

End-user Productivity

Third Party Integration

**Operations**

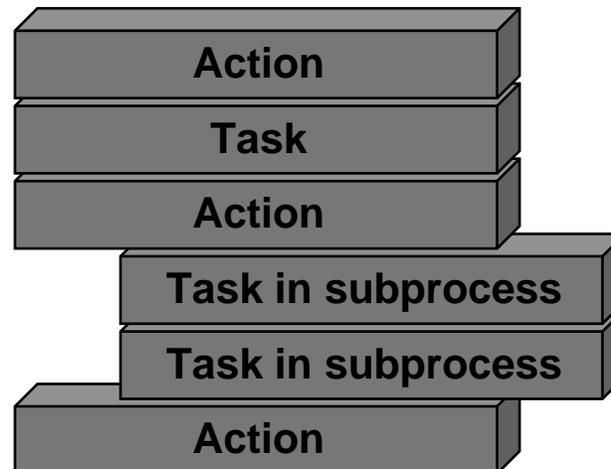
Summary

## The Windows rendering of the workflow log is improved

### ■ Benefits

- The log is accessible for physically challenged users
- Entries are grouped logically rather than chronologically so the logging maps directly to the modelled workflows and subflows
- Debugging and fault analysis is quicker and more intuitive

- Release Date: SAP NetWeaver `04s SP05 (including the workflow server)



# Customer BAdIs for Worklist Performance

## BAdI for Customer Columns

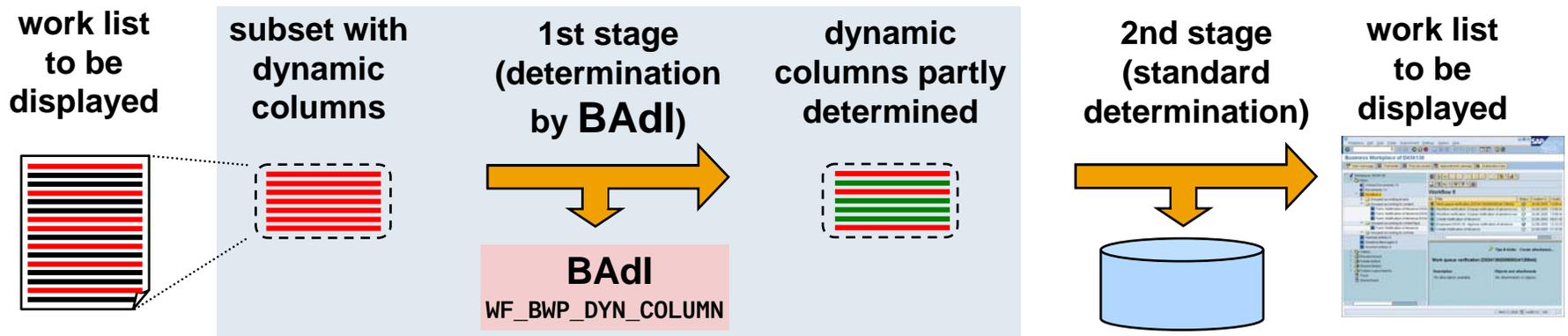
### ■ Benefits

- Direct access to customer tables for custom columns
- Supports worklist larger than 500 work items per inbox

### ■ Prerequisite:

- Business Workplace
- SAP Web AS 6.20

### ■ Release date: NW04s SP07, NW04 SP15,, 6,20 SP57



# Customer BAdIs for Workgroup Support

## BAdI for Workgroup Support

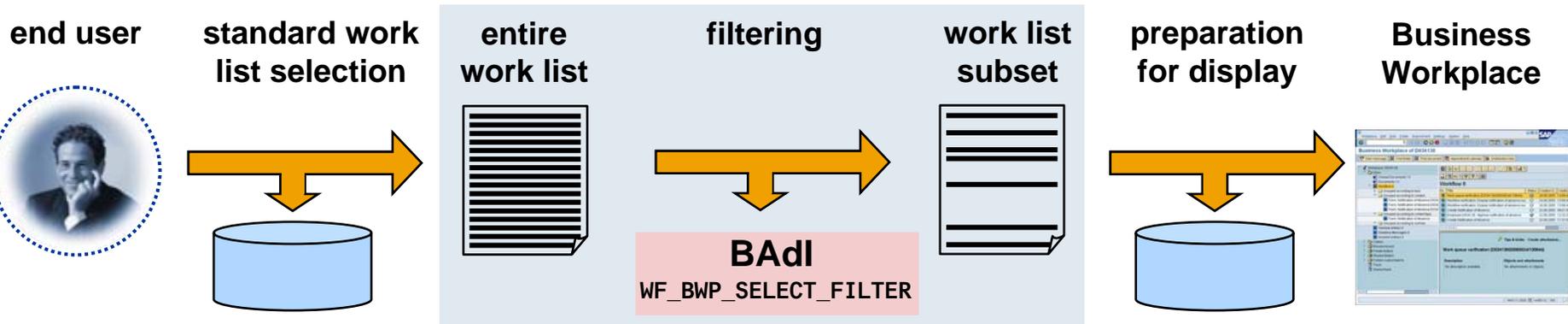
### ■ Benefits

- Dynamic allocation of tasks to users based on availability of scheduling
- Dynamically limit number of tasks presented to users
- Improved performance for large worklists

### ■ Prerequisite:

- Business Workplace
- SAP Web AS 6.20

### ■ Release date: NW04s, NW04 SP09, 6,20 SP44



# New Features within Business Task Management

Business Intelligence for Processes

End-user Productivity

Third Party Integration

Operations

**Summary**

## Connectivity

- **Universal Worklist integrates 3<sup>rd</sup> party and custom providers**
- **Direct integration in Business Workplace to improve performance for custom-developments**

## Productivity

- **Improved process transparency for all participants**
- **Improved integration between tasks and the business applications**

## Operations

- **Administration access for physically challenged users**

# End-to-End Process Integration: Further information

IT Practices

IT Scenarios

User Productivity

Running an Enterprise

Enabling User

Business Task

Mobilizing Business

Enterprise Knowledge

## SAP NetWeaver

### The whole is more than the sum of the parts

Business Event Management

Business Activity Monitoring

Business Task Management

**End-to-End  
Process Integration**

Enabling Application-to-Application Processes

Enabling Business-to-Business Processes

Business Process Management

Enabling Platform Interoperability

Business Task Management

Configuring, and Adapting Applications

Enabling Platform Interoperability

Unified Life-Cycle Management

Software Life-Cycle Management

SAP NetWeaver Operations

Development support: [www.sdn.sap.com](http://www.sdn.sap.com)

Service Marketplace: <http://service.sap.com/it-scenarios>

Architecture - Design & Deployment

Enabling Enterprise Services

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