



# What's New with SAP NetWeaver® 2004s Detailed Delta Overview information

Data valid as of SAP NetWeaver 2004s URS  
(SAP NetWeaver 2004s SP-Stack 7)

V1.0

## SAP NetWeaver Product Management

Please note that this document is subject to change and may be changed by SAP at any time without notice. The document is not intended to be binding upon SAP to any particular course of business, product strategy and/or development.

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**The following document covers only SAP NetWeaver 2004s. It is a short overview of the new features and delta functionality from the SAP NetWeaver '04 release . Prior knowledge of the features and functions of SAP NetWeaver '04 is assumed when reading this document.**

**The document contains a quick introduction to the delta information and should not be considered a comprehensive reference of all information.**

**For exhaustive detailed information please consult the SAP help portal:**

**<http://help.sap.com> -> SAP NetWeaver -> SAP NetWeaver 2004s**



## What's New with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Key Goals

Key changes with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Functional Deltas



## What's New with SAP NetWeaver® 2004s

### SAP NetWeaver® 2004s Key Goals

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# SAP NetWeaver 2004s Key Goals

**Goal: Deliver an integrated, robust, open, and adaptable Enterprise Service-oriented Architecture (Enterprise SOA) enabled platform for enterprise applications.**

Benefits:

## Enterprise SOA based platform for enterprise applications

- Solid infrastructure for Enterprise SOA application development and deployment
- Seamlessly integrated cross-component technology scenarios
- Robust integration platform for data and process integration

## Openness and adaptability

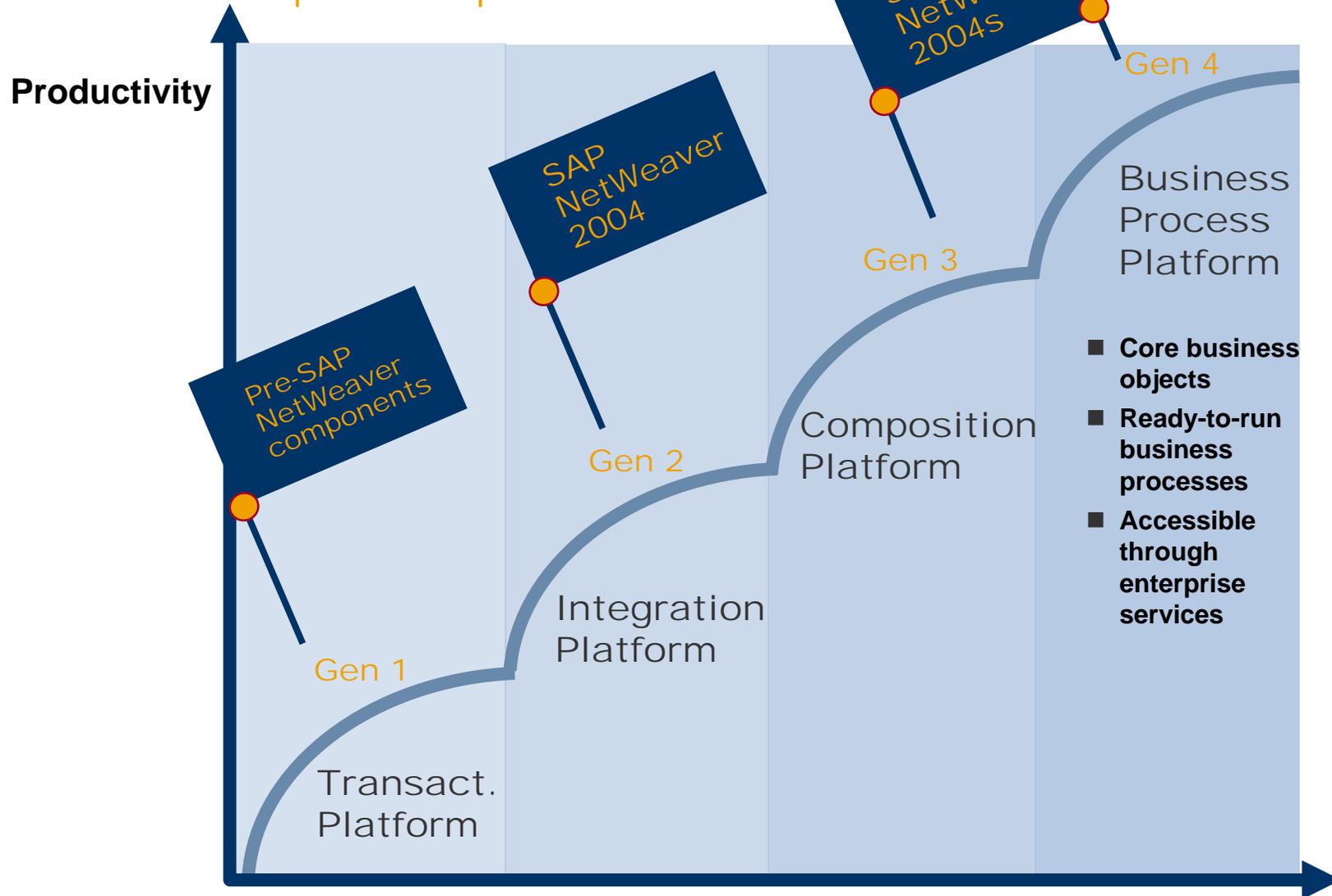
- Open application development providing the capability to integrate SAP and non-SAP applications
- Simplified model-driven development
- Guaranteed Interoperability due to standards adherence

## Sustainability

- Ability to leverage and extend existing IT systems
- Simplified implementation in order to reduce TCO

# SAP NetWeaver 2004s Key Goals : From Infrastructure to Applistructure

SAP NetWeaver becomes the  
business process platform





## What's New with SAP NetWeaver® 2004s

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# ■ Key changes with SAP NetWeaver 2004s

## Completion of Transition to the platform view of SAP NetWeaver

A new way of viewing, installing and implementing SAP NetWeaver is introduced

## SAP NetWeaver Components are replaced:

### Feature/Function view:

Platform view broken down by **IT Practices** & **IT Scenarios**. A new intuitive approach to navigating the rich features and functionalities of SAP NetWeaver

### Implementation view:

**IT Scenarios** and their **variants** deliver a business oriented view of implementing IT solutions based on SAP NetWeaver

### Installation and Deployment view:

New **Installable units** are introduced to simplify planning and to help focus systems on their roles in delivering IT Solutions

# Significant Changes with SAP NetWeaver 2004s: No individual Components

**SAP  
NetWeaver  
Components**

**X.X**

There are Individual SAP  
NetWeaver component  
release numbers

SAP NetWeaver '04

SAP NetWeaver 2004s



Components are replaced by IT Practices/  
IT Scenarios and Installable units



There are no Individual SAP  
NetWeaver component  
release numbers anymore\*

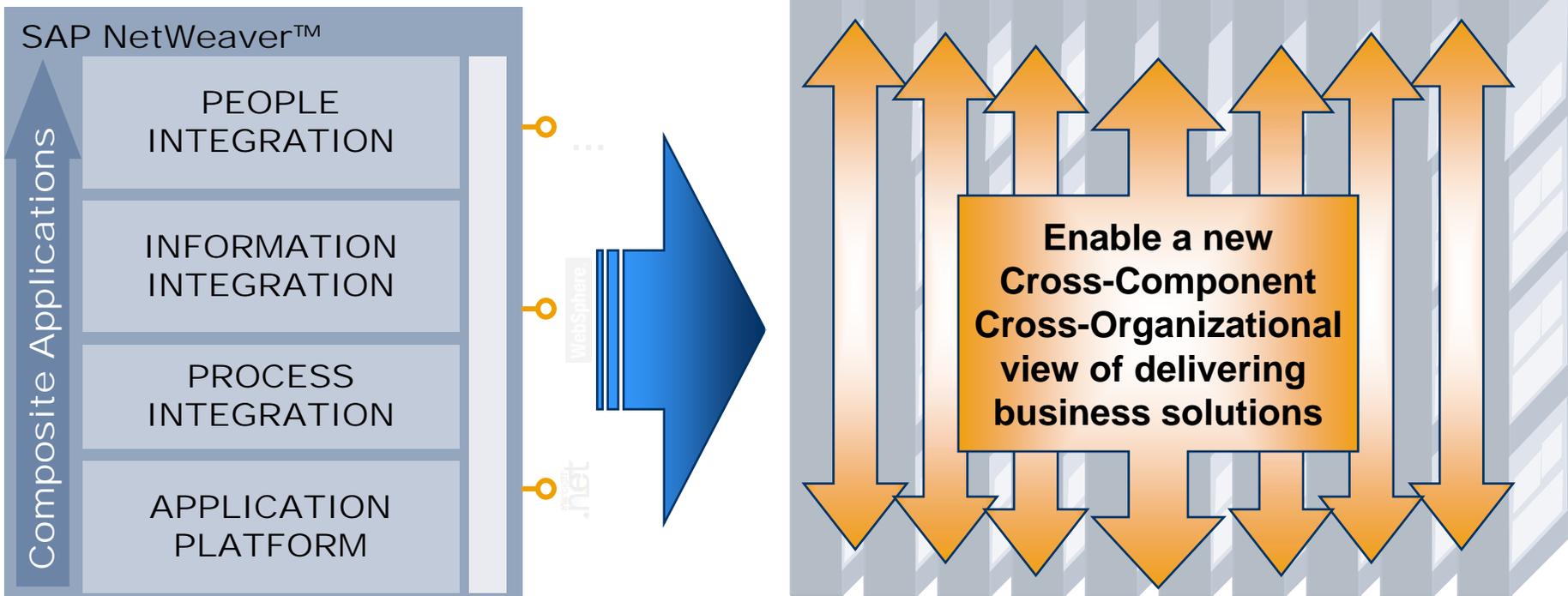
One platform – one release number  
**SAP NetWeaver 200x**

\*- excludes SAP NetWeaver MDM

**Fact: Business Processes are not aligned to technology components**

**To meet the changing business requirements, IT must also change:**

- IT's view of technology must adapt to the business requirements
- An End to End cross-component cross-organizational view is required

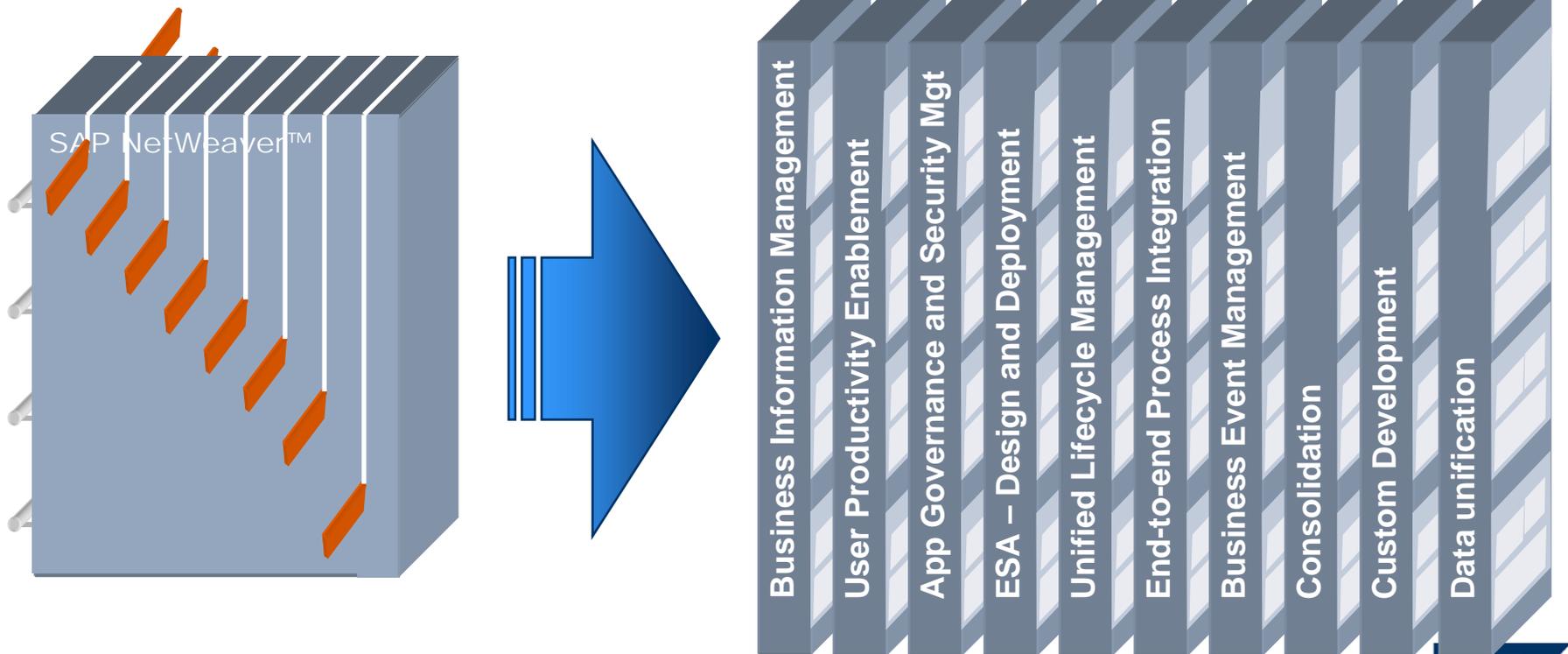


SAP NetWeaver *capabilities* are already “cross component”

“IT Practices” are introduced to help shift the focus from technology ‘components’ to solving specific business problems.

By slicing SAP NetWeaver to directly address key issues....

.... IT Practices help enterprises find the right starting point



## IT Practices identify how to use SAP NetWeaver to solve specific business problems

These include goals familiar to almost any IT organization:

- The need to combine different integration technologies,
- To develop composite applications leveraging existing system investments
- To build new business processes in a flexible way



### User Productivity Enablement

- Improving productivity through happy business users



### Data Unification

- Delivering a single version of the truth



### Business Information Management

- Embedded, relevant and actionable information



### Business Event Management

- Resolution and receipt of business critical events within process context



### End to End Process Integration

- Process automation



### Custom Development

- Dynamic composite application construction



### Unified life-cycle management

- Management of IT applications while insuring minimal disruption



### Application governance

- Ensuring quality of service and security while protecting corporate value



### Consolidation

- Reduce IT cost through hardware and software consolidation



### Enterprise Service Architecture

- Business Process Innovation with flexibility and productivity



## What are IT Scenarios?



Enabling Application-to-Application Processes

Enabling Business-to-Business Processes

Business Process Management

Enabling Platform Interoperability

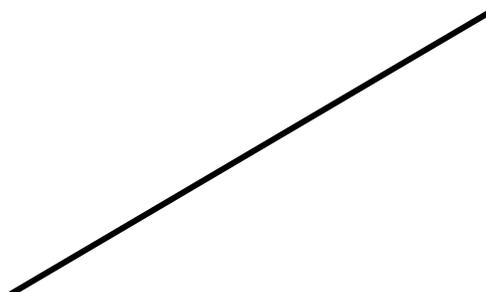
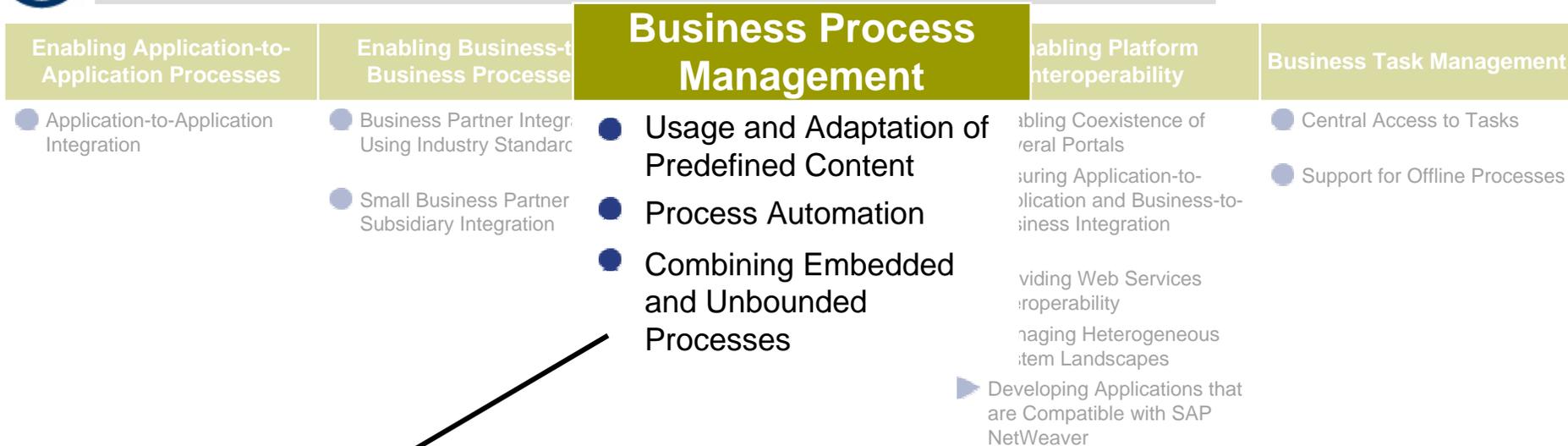
Business Task Management

An **IT Scenario** supports a process-oriented implementation approach

- IT scenarios more quickly and easily help to:
  - Develop, compose, and run applications
  - Build, enhance, and operate an IT infrastructure
  - Integrate people, information, and processes
  - Implement a defined IT concept, such as evolving a company's system landscape into a services-based architecture
- IT scenarios break down the IT practices, allowing an incremental approach to implementing SAP NetWeaver functionality



## End-to-End Process Integration (IT Practice)



An **IT Scenario Variant** is represented by an ordered sequence of processes, showing a specific end-to-end process flow of an **IT Scenario** that:

- Facilitates the implementation of an **IT Scenario** for a particular purpose
- Provides implementation guidance with the help of reference models
- Provide visualization of end-to-end processes

# Key changes with SAP NetWeaver 2004s: The IT Scenarios concept – Aligned to ITs needs

**IT Scenarios were introduced to deliver a set of IT processes, grouped to attain a defined business goal for IT.... Mapped to what IT does... Easily extensible...**

## IT Practices

## IT Scenarios

User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
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	Enterprise Knowledge Management	Enterprise Search	
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 and Security Management	Authentication and Single Sign-On			Integrated User and Access Management		
Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master-Data Consolidation	Enterprise Knowledge Management	Enterprise Data Warehousing	
ESA Design and Deployment	Enabling Enterprise Services					

# Key changes with SAP NetWeaver 2004s: Transition from component view to IT Scenarios

## For your reference to aid in transition...

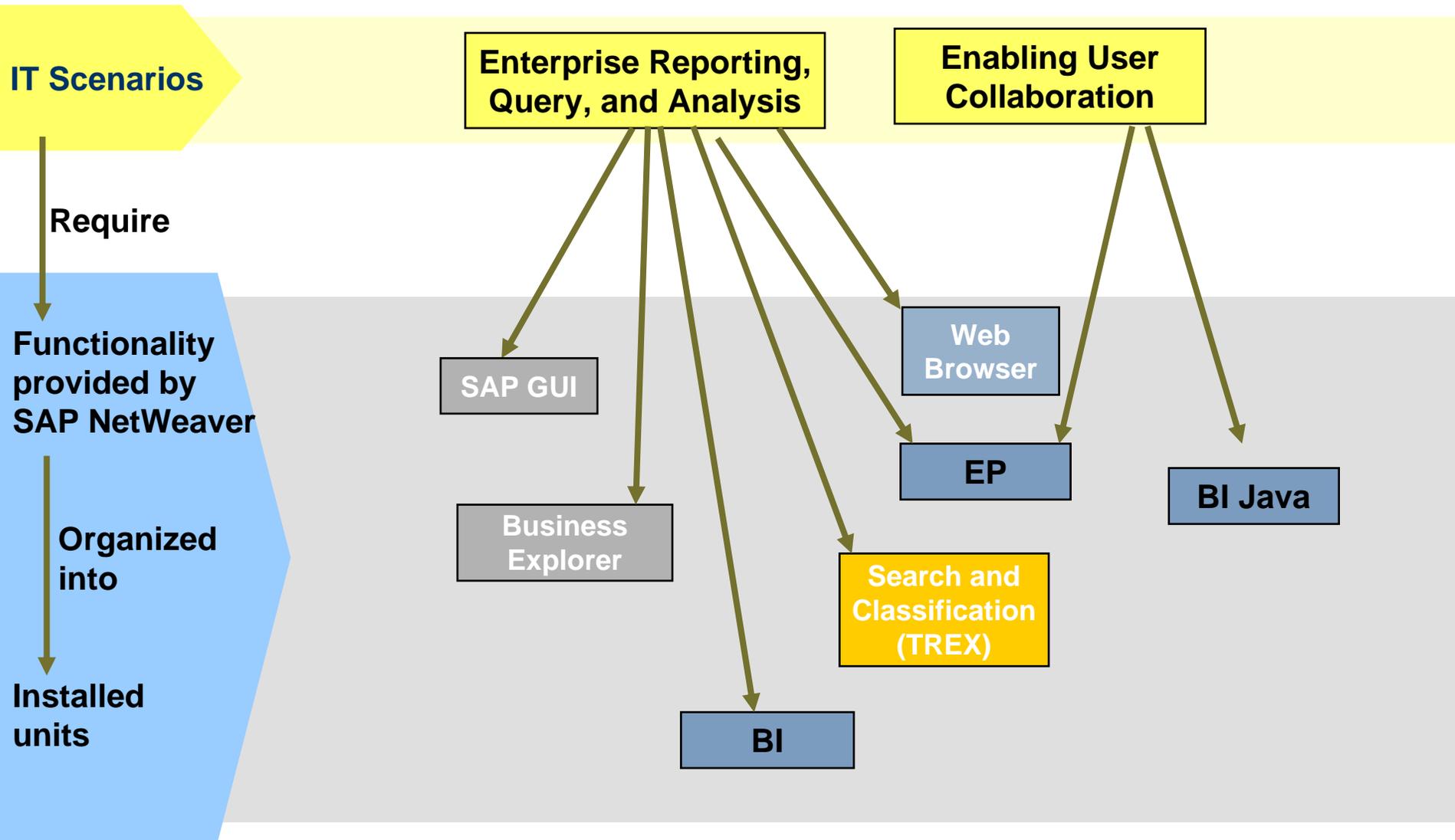
### IT Practice

### IT Scenarios

### Previous Components

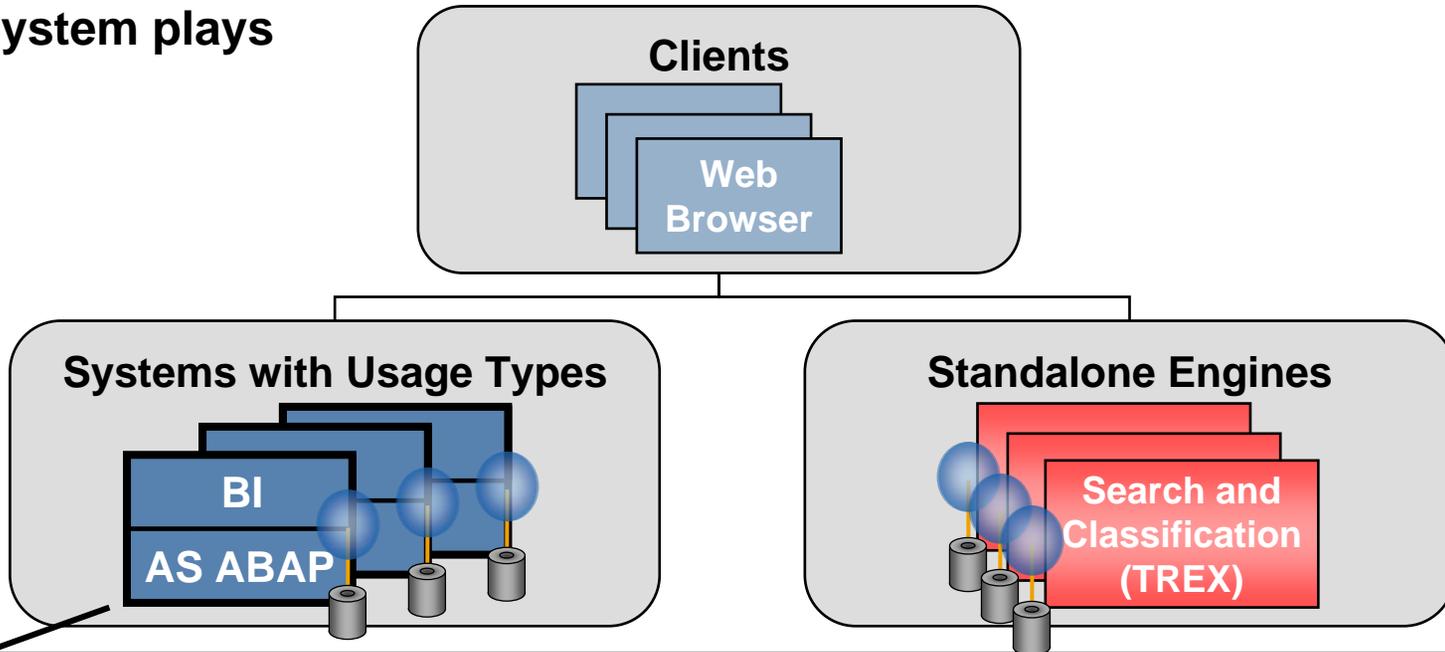
User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search	EP	KMC	WebAS	
Data Unification	Master-Data Harmonization		Master-Data Consolidation		Central Master-Data Management	Enterprise Data Warehousing	MDM	BI		
Business Information Management	Enterprise Reporting, Query, and Analysis	Business Planning and Analytical Services		Enterprise Data Warehousing	Enterprise Knowledge Management	Enterprise Search	BW	KMC	EP	
Business Event Management	Business Activity Monitoring				Business Task Management			WebAS	XI	BI
End-to-End Process Integration	Enabling A-to-A Processes	Enabling B-to-B Processes	Business Process Management	Enabling Platform Interoperability	Business Task Management		XI	WebAS		
Custom Development	Developing, Configuring, and Adapting Applications			Enabling Platform Interoperability			WebAS	EP		
Unified Life-Cycle Management	Software Life-Cycle Management			SAP NetWeaver Operations			All SAP NetWeaver			
Application Governance/ Security Mgmt	Authentication and Single Sign-On			Integrated User and Access Management			WebAS			
Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master-Data Consolidation	Enterprise Knowledge Management	Enterprise Data Warehousing		All SAP NetWeaver			
ESA Design and Deployment	Enabling Enterprise Services						All SAP NetWeaver			

# Key changes with SAP NetWeaver 2004s: IT Scenarios Require Software...



## Installable units are the building blocks as of SAP NetWeaver 2004s and powered by applications based on SAP NetWeaver 2004s

- Comprised of “Clients,” “Usage Types,” and “Standalone Engines”
- Determine the intended purpose of a system and the role which a system plays



### Usage Types

- Allow to **install, deploy, and configure** SAP NetWeaver systems, enabling customers to run IT and business scenarios (building blocks for IT Scenarios)
- Determine the **intended purpose of a system**
- Determine the **role which a system plays** in a given (distributed) scenario

## Defined Usage Types with SAP NetWeaver 2004s

- Reusable, installed, and pre-configured unit for use
- Built from technical software components that form an installable and configurable unit (into manageable units)
- Can be built upon other usage types
- **Replace SAP NetWeaver components for installation and landscape planning purposes**

Usage Type Names	Abbreviation	Contains usage types
Business Intelligence	BI	AS ABAP
BI Java Component	BI Java	AS Java (requires EP too)
Development Infrastructure	DI	AS Java
Mobile Infrastructure	MI	AS ABAP + AS Java
Enterprise Portal	EP	AS Java
Process Integration	PI	AS ABAP + AS Java
Application Server ABAP	AS ABAP	
Application Server Java	AS Java	

## SAP NetWeaver 2004s Standalone Engines and Clients

### Standalone Engines\*

**Search and Classification (TREX)**

**Job Scheduler**

**liveCache**

**Gateway**

**Content Server**

**Web Dispatcher**

### Clients

SAP NetWeaver Developer Studio

Visual Composer

J2SE Adapter Engine (PI/XI)

MI Client

Adobe LiveCycle Designer

Business Explorer (BI)

SAP NetWeaver Developer Workplace

SAP GUI for Windows

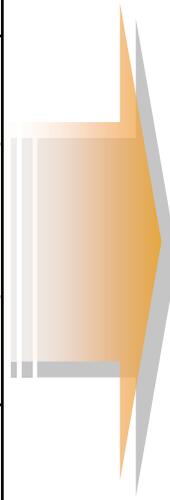
SAP GUI for Java

**\*Reduced number of Standalone Engines according to enhanced definition**

# Key changes with SAP NetWeaver 2004s: SAP NetWeaver Technology Baseline — Installable units

## For your reference to aid in transition...

Previous SAP NetWeaver “components” providing certain capabilities
SAP NetWeaver BI (SAP BW)
SAP BW + SAP Web AS (Java)
SAP NetWeaver AS (SAP Web AS) + certain Java comp.
SAP NetWeaver AS (SAP Web AS)
SAP NetWeaver Portal (SAP EP)
SAP NetWeaver XI (SAP XI)
SAP NetWeaver AS (SAP Web AS)
SAP NetWeaver AS (SAP Web AS)



Usage Type with SAP NetWeaver 2004s	Short name	Required Stacks (usage types)
Business Intelligence	BI	ABAP (AS ABAP)
BI Java Components	BI Java	Java (AS JAVA + EP)
Development Infrastructure	DI	Java (AS JAVA)
Mobile Infrastructure	MI	ABAP + Java (AS ABAP+AS ABAP)
Enterprise Portal	EP	Java (AS JAVA)
Process Integration	PI	ABAP+Java (AS ABAP+AS JAVA)
Application Server ABAP	AS ABAP	ABAP (AS ABAP)
Application Server Java	AS Java	Java (AS JAVA)



## What's New with SAP NetWeaver® 2004s

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## SAP NetWeaver 2004s key drivers for new functionality

### ■ **Business Suite edition of SAP NetWeaver 2004**

- **SAP NetWeaver platform for mySAP business suite application 2005 releases (i.e. mySAP ERP 2005, mySAP CRM 2005, etc)**
- **Platform for delivery of 'productionized' Enterprise Services for mySAP**

### ■ **Composite application platform of choice for SAP, Partners, and Customers**

- **The platform for development of xApps and composite applications**

### ■ **Extending on the core SAP NetWeaver platform – major highlights:**

- **Business intelligence capabilities:**
  - **Enhanced query, analysis, and reporting**
  - **Integrated business planning**
  - **Enhanced Enterprise Data Warehousing features**
  - **BI Accelerator for high performance Analytics**
- **Enterprise Portal capabilities:**
  - **Federated portal networks**
  - **External facing portals**
- **Development capabilities:**
  - **Web Dynpro for ABAP**
  - **Switch Framework supporting multiple industry solutions**

# SAP NetWeaver : Technology Map :

What's New with SAP NetWeaver® 2004s based on the 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 ✓	Enterprise Search ✓
	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 ✓	Enterprise Knowledge Management ✓	Enterprise Search ✓	
	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 and Security Mgt	Authentication and Single Sign-On ✓			Integrated User and Access Management ✓		
	Consolidation	Enabling Platform Interoperability ✓	SAP NetWeaver Operations ✓	Master Data Consolidation	Enterprise Knowledge Management ✓	Enterprise Data Warehousing ✓	
	ESA Design and Deployment	Enabling Enterprise Services					



- SAP NetWeaver® 2004s new features and deltas

# Detailed information on Deltas:

The following information is presented at a high level and should not be used in lieu of the detailed release information provided by SAP in the SAP Help portal: [http://help.sap.com/saphelp\\_nw2004s/helpdata/en/index.htm](http://help.sap.com/saphelp_nw2004s/helpdata/en/index.htm)

The screenshot displays the SAP Library website interface. The top navigation bar includes links for 'SAP Library', 'Getting Started', 'Glossary', 'Help on Help', 'Feedback', 'Survey', and 'Discussion', along with a search box. The main content area is titled 'SAP Library' and provides information about the SAP NetWeaver® 2004s Support Package Stack 07, including BI Content Add-On 3, dated April 2006. It states that the SAP Library for SAP NetWeaver has a specific structure, which is detailed in a table below.

Section of the Documentation	Content
Getting Started - Using SAP Software	Getting started with SAP software:

An orange arrow points from the 'What's New in SAP NetWeaver 2004s - Release Notes' link in the left-hand navigation menu to a detailed view of this page. The detailed view includes a title, a 'Use' section, and a 'Changes to Documentation in SAP NetWeaver 2004s' section with a bulleted list of updates.

## What's New in SAP NetWeaver 2004s - Release Notes

### Use

This part of the SAP Library gives you an overview of what's new in Release 2004s of SAP NetWeaver. This information is provided as Release Notes.

The [Release Notes by IT Scenarios](#) section gives you an overview of the available IT scenarios, together with the relevant Release Notes for each scenario.

The [Release Notes by NetWeaver Systems and Standalone Engines](#) section provides you with a complete overview of all Release Notes. These Release Notes are structured according to the usage types that you can activate in a NetWeaver system and the available Standalone Engines.

### Changes to Documentation in SAP NetWeaver 2004s

- SAP NetWeaver documentation has role-based entry structures. These roles include developer, administration, and technology consultant.
- The role-based entry points are structured by IT scenario.
- The user guides for Portal, Knowledge Management, Collaboration, Universal Worklist, and Mobile Infrastructure have been integrated into *Getting Started - Using SAP Software* (formerly *Getting Started with the SAP System*).





# IT Scenario: Running an Enterprise Portal

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## IT Practices

## IT Scenarios

 User Productivity Enablement	<b>Running an Enterprise Portal</b>	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
 Data Unification	Master Data Harmonization	Master Data Consolidation	Central Master Data Management		Enterprise Data Warehousing	
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 ESA Design and Deployment	Enabling Enterprise Services					

The IT scenario “Running an Enterprise Portal” provides end users a uniform **single point of access** to applications, services and information they need **for their daily work**.

## Running an Enterprise Portal

- Implementing an External-Facing Portal
- Providing Uniform Content Access
- ▶ Implementing a Federated Portal Network

The standard portal capabilities are covered in the IT scenario variant:

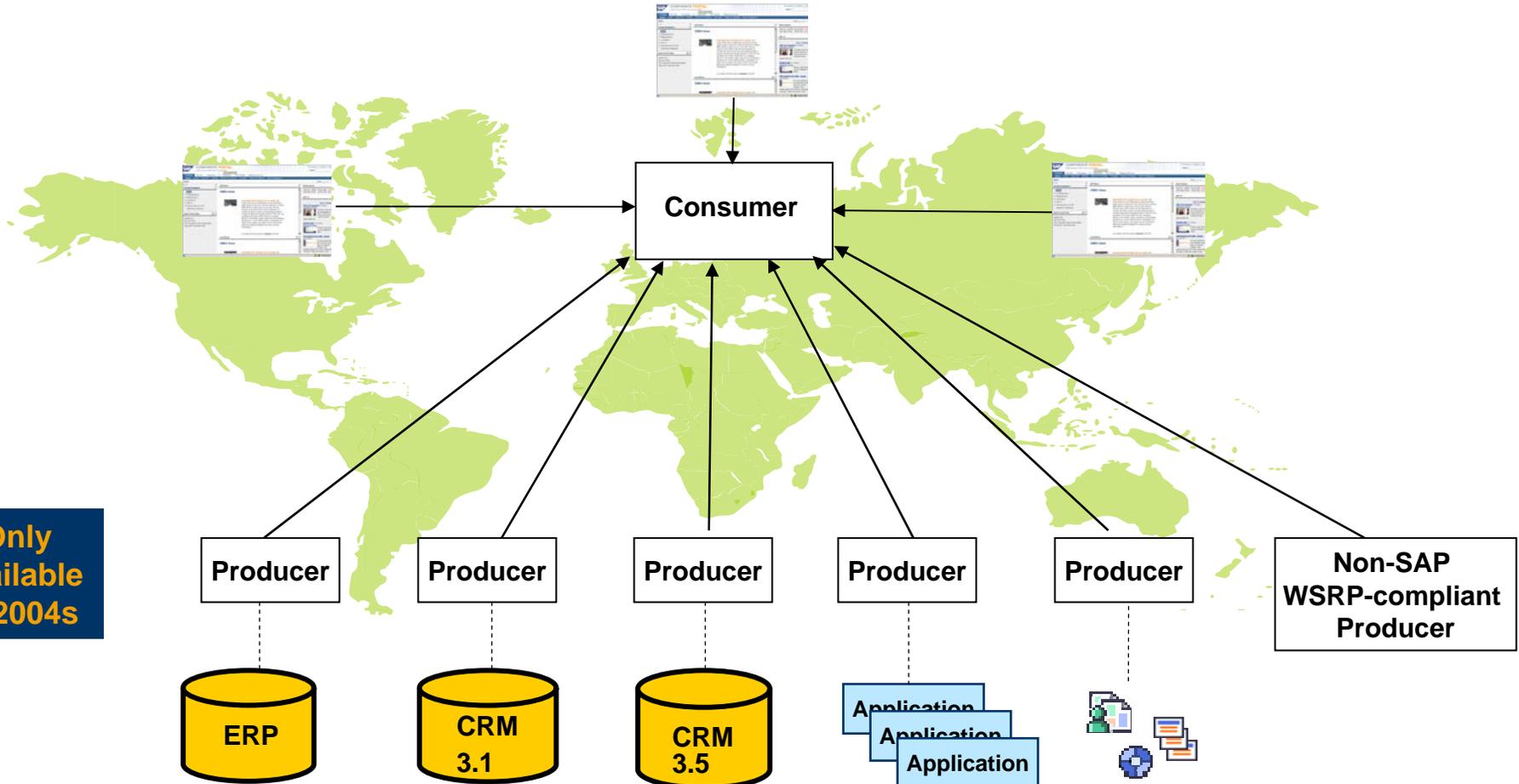
- **Providing uniform content access**

Further, the following IT scenario variants exist:

- **Implementing a federated portal network (SAP NetWeaver 2004s)**
- **Implementing an external-facing portal (SAP NetWeaver 2004s and SAP NetWeaver ‘04 SPS14)**

- Available with SAP NetWeaver 2004s and ‘04
- ▶ Available with SAP NetWeaver 2004s only
- Future Focus

The Federated Portal Network creates a single network from separate portal installations allowing **content sharing** between portals.



Only  
available  
in 2004s

With SAP NetWeaver Portal organizations can **implement a public Web Portal** - using the same platform for the company's Internet and intranet implementation.

Also available in '04 SPS14



The following functionalities which ease the creation of a Web portal were introduced:

Feature	Details	Benefits
<b>Light framework page</b>	A one frame page built of HTML controls	Improved client performance Support of Web-site like behavior (Browser functionality, Search engine indexing, etc.)
<b>Navigation features</b>	Server side caching, Quick links, Hashed URLs.	Improved client performance improved Web-site like behavior
<b>Tag Libraries</b>	Navigation and iView Trays tag libraries	Easy customization of navigation iViews and iView trays.

Application server capabilities environment where plug-ins are executed to perform tasks like: Check system readiness for installation, fine-tune and system troubleshooting

The screenshot displays the SAP NetWeaver Support Platform interface. On the left, a navigation tree shows 'Support Platform Plug-ins' expanded to 'Enterprise Portal', with 'Creation Time - Created During' selected. The main area shows the 'Tasks' panel with options like 'Run', 'Run on all nodes', 'Refresh', 'Clear Results', 'Plug-in Properties Editor', 'Export Results to Excel', 'Save Results', and 'Extended results view'. The 'Description' panel explains the report: 'List all objects that have been created during a specific time period, under a specific PCD location.' The 'Plug-in Results' panel shows a table with 8 rows of results.

	Result Description	Object ID
1		pcd:portal_content/DanielContent/DanRol ...
2		pcd:portal_content/DanielContent/DanRol ...
3		pcd:portal_content/DanielContent/DanRol ...
4		pcd:portal_content/DanielContent/DanRol ...
5		pcd:portal_content/DanielContent/DanRol ...
6		pcd:portal_content/DanielContent/DanRol ...
7		pcd:portal_content/DanielContent/DanRol ...
8		pcd:portal_content/DanielContent/DanRol ...

Below the table, the 'The Complete Result' section shows: \*\*\*\*\* Result Description \*\*\*\*\*  
1  
\*\*\*\*\* Object ID \*\*\*\*\*

For more information, see [Support Platform](#) under *Solution Life Cycle Management*.

## Example Reports for Portal:

- Broken delta links
- Change tracking
- Unused objects
- Unassigned roles

Also available in '04 SPS13

Monitoring capabilities directly available to Administrators → offering statistics based on numbers and content

Workset	Portal Content
User Admin	Activity Reports
Content Admin	Monitoring → Activity Reports
System Admin	Activity Reports

The screenshot displays the SAP NetWeaver Activity Reports interface. The top navigation bar includes 'Home', 'Employee Self-Service', 'Content Administration', 'User Administration', 'System Administration', and 'My Role'. The 'Activity Reports' section is active, showing a 'Detailed Navigation' menu and 'Portal Favorites'. The main content area is titled 'Number of Users in the Last 3 Hours' and includes a 'Download Report' button. Below this is a table titled 'Portal Activity Report - Number of Users Who Logged On' with columns for Day, Date/Time, Authenticated Users, and Anonymous Users. A bar chart below the table visualizes the data, with green bars for Authenticated Users and red bars for Anonymous Users. The chart shows 2.0 authenticated users at 12:00, 3.0 at 13:00, and 1.0 at 14:00. The bottom section is titled '10 Most Active Users' and includes another 'Download Report' button and a table titled 'Portal Activity Report - Details About Users Who Logged On' with columns for First Logon Time, ID, Type, and Hits.

Day	Date/Time	Authenticated Users	Anonymous Users
Mi	19. Okt 2005 12:00 (GMT)	2	0
Mi	19. Okt 2005 13:00 (GMT)	3	0
Mi	19. Okt 2005 14:00 (GMT)	1	0

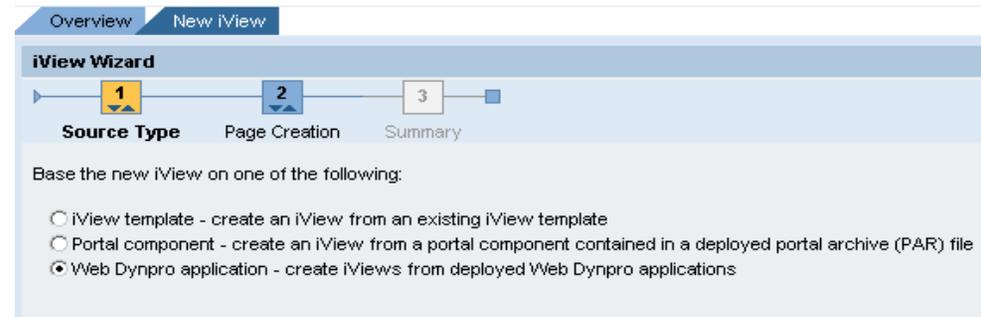
  

First Logon Time	ID	Type	Hits
19. Okt 2005 09:46 (GMT)	Richter	Authenticated	638
19. Okt 2005 09:56 (GMT)	Administrator	Authenticated	94
19. Okt 2005 09:56 (GMT)	Richter_Test	Authenticated	79

Only available  
in 2004s

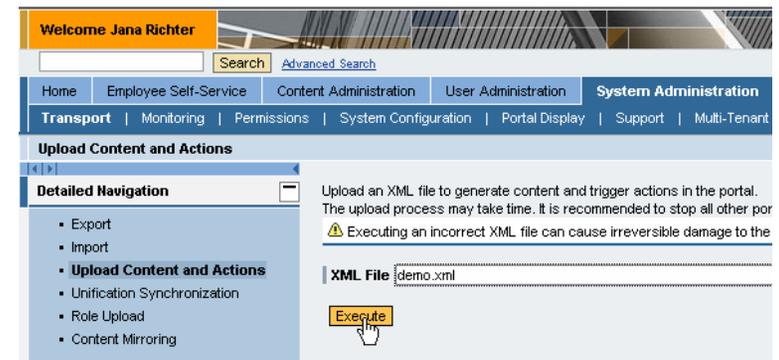
## ■ More comprehensive and user-friendly administration user interfaces (based on Web Dynpro):

- User Management  
→ Identity Management
- iView Wizard
- Page Wizard
- Personalization



## ■ XML Content and Action Tool:

- Import and Export functionality for portal content based on XML-scripts
- Automate and simplify the creation of semantic portal objects



Only available in 2004s

Also available in '04 SPS15



# IT Scenario: Enterprise Knowledge Management

# IT Scenario: Enterprise Knowledge Management

## IT Practices

## IT Scenarios

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

- **The IT scenario Enterprise Knowledge Management provides central and role-based access to the information and creates a connection between structured business data and unstructured documents.**
- **The IT scenario allows users to exchange documents and information across technical system boundaries.**

## Enterprise Knowledge Management

- Content Integration and Management
- Content Creation, Publication, and Access
- Documentation, Manuals, and Training Materials Management

- **Enterprise Knowledge Management contains the tools to integrate different data sources and to create, administer, and distribute information.**
  - **Allows consolidation and integration of intranet platforms and makes available integrated search technology that takes into account all data stores in the system landscape.**
- **The IT scenario comprises the set-up and operation of an integrated authoring environment for information workers.**

## IT Scenario **Enterprise Knowledge Management** – What's new in the following areas:

- **User Experience**
- **Repository Integration**
- **Transport Capabilities**
- **Search and Classification**
- **Reporting**

## ■ Recent Notifications in the Universal Worklist

- In the new release, all KM notifications are integrated in the Universal Worklist (UWL).

Also available in '04 SPS11

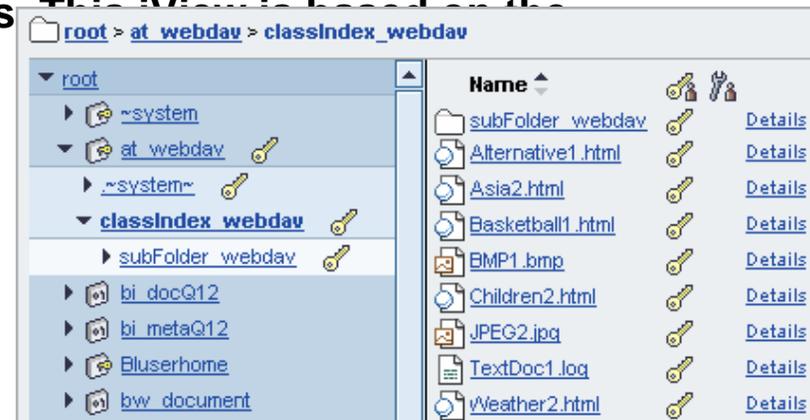
## ■ Inheritance of the Versioning Settings When Creating New Folders

- Previously, individual activation and versioning for each folder was required.
- When new folders are created, they adopt the versioning setting of the superordinate folder. This means that if versioning is active in the superordinate folder, it is also active in the new folders.

Also available in '04 SPS14

## ■ iView for Setting Permissions

- There is a new iView for content administrators for checking and setting permissions and service permissions. This iView is based on the KM Navigation iView and lists all repositories and their folders. Different icons illustrate whether a folder or document inherits the permissions of the superordinate folder, or whether it has been assigned its own different permissions.



Also available in '04 SPS11

## ■ Portal Drive

- The new Portal Drive WebDAV client for Windows makes KM folders available as mapped network drives. Users can then work with documents in KM repositories in the same way as they work on any other Windows network drives. Among other things the client supports versioning, locking, offline and online synchronization modes

Also available  
in '04  
SPS14

## ■ UI Command *Map Portal Drive*

- The UI command *Map Portal Drive* is available for the KM user interface
  - For example, Integration of this command in the context menu for folders
- Users can use this command to connect a KM folder as a network drive quickly and easily, in order to access the folder content in Windows Explorer

Also available  
in '04  
SPS15

The screenshot shows two overlapping windows. The background window is Windows Explorer displaying a folder structure under 'Z:\documents'. The foreground window is a context menu for a folder named 'documents'. The 'Map Portal Drive' option is highlighted in orange, with a large yellow arrow pointing to it. The context menu also includes options like Copy, Move, Rename, Create Link, Clipboard, Delete, Add to Portal Favorites, Send To, Details, and New text.html.

Name	Size	Type	Date Modified
calendar		File Folder	13.10.2005 15:49
dbfs		File Folder	07.10.2005 12:10
discussiongroups		File Folder	20.09.2005 15:53
documents		File Folder	10.05.2006 11:03
at_Sponsored_Links		File Folder	25.04.2006 13:45
at_taxonomy		File Folder	25.04.2006 09:46
AWDFD00100974A		File Folder	20.09.2005 16:06
AWDFD00127322A		File Folder	13.10.2005 15:50
AWDFD00143317A		File Folder	13.10.2005 15:50
classIndex_cmdb		File Folder	12.04.2006 22:39
Discussions		File Folder	23.03.2006 18:06
Links		File Folder	27.04.2006 13:45
News		File Folder	10.05.2006 12:46
Public Documents		File Folder	
QuickPoll		File Folder	
timebasedtest		File Folder	
New text.html.txt	1 KB	Text Document	

## ■ GUID Repository Manager and Short Ids

- Previously setting a link to an object in a KM repository in a document (e.g. an Office file) used the target URL. The target URL contains the complete path to the object in the repository and can be quite long, depending on the depth of the folder structure
- Now objects in KM repositories can also have a short ID.
  - The short ID does not change if an object is moved from one KM folder to another.
  - The GUID repository manager is used internally to manage short IDs that are delivered by the URI mapper service

Also available  
in '04  
SPS13

## ■ PCD Repository Manager

- The PCD Repository Manager displays objects in the *Portal Content Directory (PCD)* in Knowledge Management.
- The PCD Repository Manager is used in KM when searching for portal pages and iViews. The objects found using the *portalRolesSearch* index service in the PCD cache are converted to KM objects and can be displayed in the search results list.

Also available  
in '04  
SPS14

**View "pcdrepository"**

Description description	PCD Repository		
Prefix (must start with /) * prefix	/pcd		
Repository Services services	<table border="1"><thead><tr><th>Name</th></tr></thead><tbody><tr><td>Not set</td></tr></tbody></table> Page 1 / 1	Name	Not set
Name			
Not set			
Property Search Manager propertysearchmgr.class	com.sapportals.wcm.repository.manager.generic.search.SimplePropertySearchManager		
Security Manager securitymgr.ref	Not set		
ACL Manager Cache securitymgr.aclcacheid	Not set		
PCD Root Identifier rootString	pcd:		

[Edit](#) [Close](#) [Show Advanced Options](#)

## ■ Export and Import of Configuration Data

- With the new release, the *Export* and *Import* functions are available in the *Configuration iView*. These functions move individual configuration objects or larger parts of the configuration, including all referenced configuration data, between portals.
  - For example, transferring the configuration from a test system to a production system.

Also available  
in '04  
SPS11

The screenshot displays the 'Content Management' interface. On the left, a tree view lists various repositories: BI Document Repository (2), BI Metadata Repository (2), CAF Repository (1), Calendar Repository (1), CM Repository (25), com.sap.caf.eu.qp.km.com...yManager (5), Content Exchange Repository (1), and CrtRepositoryManager (1). The 'CAF Repository (1)' is selected, and its context menu is open, showing options: Start, Edit..., Add, Suspend, Resume, Finalize..., and Cancel. The 'Add' option is further expanded to show 'Topic', 'Topic Area', 'Topic Area and Related Areas', and 'Complete Configuration'. The main area shows a table with columns: Description, Prefix, Services, Property Search Manager, and Versioning Manager. The 'caf' repository is highlighted in the table. Below the table are 'View' and 'Export' buttons.

Description	Prefix	Services	Property Search Manager	Versioning Manager
caf	/caf	properties	com.sapportals.wcm.repository.manager.generic.search.SimplePropertySearchManager	

## ■ Export and Import of Taxonomies

- Export of a taxonomy to an XML file, or import a taxonomy system from an XML file.
  - This function enables the addition of taxonomies from one SAP NetWeaver deployed Portal to another SAP NetWeaver deployed portal.
  - The ability to import taxonomies from other systems as long as the XML file is valid as defined by the document type definition (DTD) for taxonomies that is delivered by SAP.

Also available  
in '04  
SPS10

## ■ Export and Import of Properties

- In the *Configuration* iView, import and export functions are used to transfer existing predefined properties between portals.
  - For example, creation of a property in a test system and then transport this using an XML file to a production system.

Also  
available  
in '04  
SPS10

The screenshot shows the 'Properties' iView in SAP. At the top, there is a search field with 'Name:' and an 'Apply Filter' button, and a dropdown for 'Objects per Page' set to 8. Below this is a table with the following columns: Unique ID, Description, Property ID, and Namespace Alias. The table contains several rows of properties, with the last two rows selected (checked).

Unique ID	Description	Property ID	Namespace Alias
<a href="#">app_people_contact_person_dscr</a>	Contact person	app_people_contact_person_dscr	col
<a href="#">app_people_contact_person_dscr 2</a>	Contact person	app_people_contact_person_dscr	default
<a href="#">app_planned_date</a>	Planned date	app_planned_date	col
<a href="#">app_status</a>	Status	app_status	col
<a href="#">app_time</a>	Time	app_time	col
<a href="#">at_class_date</a>	Property of type date for testing classification	at_class_date	default
<input checked="" type="checkbox"/> <a href="#">at_class_location</a>	Property of type String for testing classification for winrunner tests	at_class_location	default
<input checked="" type="checkbox"/> <a href="#">at_class_manager</a>	Property of type user for testing classification	at_class_manager	default

Below the table are navigation icons and a toolbar with buttons: New, Duplicate, Edit, View, Delete, **Export**, and Import. The 'Export' button is circled in red. Below the toolbar is a section titled 'Export metadata definitions' with the text: 'Exporting metadata definitions stores the information needed to later recreate the metadata properties.' and 'OK' and 'Cancel' buttons.

## ■ Sponsored Links

- Sponsored links appear in the search results list in a special area above, beside, or below the regular search results. Authors and content managers can determine that certain links are displayed when users search using specific key terms. In this way, they can point users to important documents, portal pages, or other objects.

Also available in '04 SPS12

The screenshot shows a search interface with a search bar containing 'ITeLO IVO FlexTop', a 'Search' button, and a 'Show Options' link. Below the search bar, the search results are displayed for 'ITeLO IVO FlexTop'. The results include a document titled 'Mobile Computing Solution Providers Market.doc' with a 65% match, and two sponsored links: 'Laptop Product Information' and 'FlexTop I9100'. The sponsored links are highlighted with yellow arrows pointing to them from the right side of the search results area.

## ■ Searching For Portal Pages and iViews

- Indexes can be created for the search in the Portal Content Directory (PCD).
  - When using this index when searching, the results list contains portal pages and iViews that are contained in the roles of the logged-on user. This function allows users to access their portal pages and iViews through the search function.

Also available in '04 SPS14

## ■ Extend Search Queries

- User's search query can be linked with another search query that is defined in a Java class. The user's search query and the search query in the class are linked using AND.
  - For example, defining a search for a specific property value in the class (such as property targetgroup = "public"). The index returns only documents for which this value is set.

Also available in '04 SPS16

## ■ Filtering By Language in the Search Results List

- In the configuration of the search options, there are two new parameters for filtering the search results list by documents in a specific language. These are the parameters Enable Language Selection and Default Search Language Selection.

Also available in '04 SPS15

## ■ TREX Alert Server

- Administrators can use the TREX alert server to monitor system behavior and the configuration of TREX. The TREX alert server regularly checks central TREX functions and can notify the administrator by e-mail of the system status in the event of an error or incorrect configuration. The TREX alert server is part of the TREX admin tool (stand-alone). It can also be displayed in the SAP system using transaction TREXADMIN.

Only available in 2004s

## ■ Indexing Monitor

- The indexing monitor provides the most important information on the status of running indexing processes. Various functions are available to intervene in indexing.
- Display of detailed information on an index is supported by launching a new iView that displays the crawler monitor together with the TREX monitor.

Also available in '04 SPS10

	Status	Index	Status	In Process	Indexed	Errors
<input type="checkbox"/>	●	<a href="#">MyKM_News</a>	Idle	0	12	0
<input type="checkbox"/>	▲	<a href="#">MyKMCorporateTaxonomy</a>	Idle	0	389	5
<input type="checkbox"/>	●	<a href="#">sapcrm</a>	Idle	0	7	0
<input type="checkbox"/>	▲	<a href="#">sapcrmpartnernews</a>	Idle	0	12	0
<input type="checkbox"/>	●	<a href="#">sponsored_links</a>	Idle	0	10	0
<input type="checkbox"/>	●	<a href="#">Subsidiaries_Index</a>	Idle	0	2	0
<input type="checkbox"/>	●	<a href="#">ume</a>	Idle	0	1309	0
<input type="checkbox"/>	●	<a href="#">WebEditing_Index</a>	Idle	0	54	0
<input type="checkbox"/>	●	<a href="#">WeeklyMenu</a>	Idle	0	11	0

## ■ Reports for Copying and Deleting Mass Data

- **Copy:** This report copies items from one KM repository to another.
  - For example, copying mass data from a file-system repository to a CM repository.
- **Delete:** This report deletes mass data from KM repositories.

Also available in '04 SPS11

<ul style="list-style-type: none"> <li>▼ <a href="#">Content Administration</a></li> <li>▶ <a href="#">Consistency Checks</a></li> <li>▪ <a href="#">Mass Operations</a></li> <li>▶ <a href="#">Security</a></li> <li>▶ <a href="#">Tools</a></li> <li>▶ <a href="#">User related Cleanup</a></li> </ul>	 <p><b>Copy</b></p> <p>This report copies items between KM repositories. Neither security information nor properties are copied with the items. Copied items must not exist in the target repository.</p> <p><a href="#">Start</a>   <a href="#">Schedule</a>   <a href="#">More</a> ▾</p>	 <p><b>Delete</b></p> <p>This report deletes items in KM repositories. The items in the selected scope will be deleted in parallel for higher performance. Note that parallel deletions put more load onto your system.</p> <p><a href="#">Start</a>   <a href="#">Schedule</a>   <a href="#">More</a> ▾</p>
--	---	---

## ■ Subscriptions Report

- This report can delete the user's subscriptions or transfer them to other users if a user now no longer exists in user management.

Also available in '04 SPS11

## ■ Report for Time-Based Publishing

- This report allows the creation of an overview of the current status of documents whose visibility is controlled by the service for time-based publishing. The results list displays the *Valid From* and *Valid To* dates for each document and the information about whether the system has switched the document to visible or invisible.

Also available in '04 SPS12

## ■ Permissions Report

- This report displays which permissions users have for objects in KM repositories. Creation of lists of folders in a repository with their respective permissions.

Also available in '04 SPS10

**Start Report**

<b>Report</b>	<b>ACL permissions</b>
Description:	This report lists the ACL-based permissions of users for documents. You can select whether all documents (also those with inherited permissions or with none at all) should be listed instead of confining output to those with explicit permissions, as well as whether users should be shown with their names in addition to their IDs.
Name: *	<input type="text" value="Public Doc ACLs"/>

Scope    Parameter

Enter parameters for report.

With Explicit Permissions:

With Inherited Permissions:

Without Permissions:

With User Names:

## ■ Scheduler Tasks Report

- This report lists all scheduler tasks that are entered in the Knowledge Management configuration. In a load balancing environment, the report can utilize the redistribute scheduler tasks to other system nodes.

Also available in '04 SPS16



# IT Scenario: Enabling User Collaboration

# IT Scenario: Enabling User Collaboration

## IT Practices

## IT Scenarios

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

## Enabling User Collaboration

- Help people collaborate more efficiently as they perform their business processes.
- SAP NetWeaver makes collaboration and knowledge sharing an integral, natural part of everyday work and enables efficient communication.

### Enabling User Collaboration

- Collaboration In Virtual Rooms
- Ad hoc Collaboration

The screenshot displays the SAP NetWeaver user interface for the Xbit 2006 Event. The top navigation bar includes 'ITeO', 'Welcome Susan Summer', and 'SAP'. Below this is a search bar and a menu with options like 'Company', 'Business Area', 'Mailbox', 'Collaboration', 'Marketing', 'Accounts and Products', 'Marketing Activities', 'Marketing Analytics', and 'Business Explorer'. The main content area is titled 'Xbit 2006 Event' and features a section for 'The Event Organization Team' with a list of team members and their responsibilities. The left sidebar contains a 'Detailed Navigation' menu with options like 'Overview', 'Contacts', 'FAQ', 'Documents', 'Calendar', 'Tasks', and 'My Rooms'. The 'My Rooms' section includes a dropdown menu for selecting a room. The team list includes: Summer, Susan (Event Manager), Andrews, David, Collins, Paul, and Fall, Franco.

## ■ User Experience

- Major Performance Improvements: Room Directory and Collaboration Launch Pad
- Revised Set of Standard Room Templates
- Displaying Room Page Permissions in the Room Maintenance
- Sending Room Documents as E-Mail Attachments
- Facilitating the Copy/Move Process of Room Documents (My Rooms Folder Entry Point)

## ■ Content Administration \*

- Indexing Rooms Using TREX (High Performance Search)
- Export and Import of Templates
- New Room Extension Points
- Preventing Deletion of Parameters and Extensions in Use
- Switching off Automatic E-Mail Sending for Rooms
- Preventing Mass E-Mails From Being Sent
- Switch to E-Mail Invitations for Online Sessions

*\*User assigned to the content administration role*

## Performance improvements: Room Directory

- The search for rooms in the room directory, in room administration, or in the room relations manager, has been set to use the SAP search engine Search and Classification (TREX) by default, allowing high-performance search

Also available in '04 SPS13

Room Directory

Name:  Category: All Categories Template: All Templates

Name	Locked	Owner	Created	Last Visit	Private
Americas Field Kick Off Meeting 2006		Brehm, Sibylle	11/8/05	5/18/06	
Event Organization Room for preparing the Field Kick Off in Atlanta		Temporary User_2	1/27/05	8/29/05	
Computer Fair 2005		Summer, Susan	5/22/06	5/22/06	✓
Folder integration		Summer, Susan	4/12/05	5/22/06	
test		Summer, Susan	4/12/05	5/16/06	
Event Marketing Department		Reth, Ralf	4/11/05	5/22/06	
See, what we are doing		Summer, Susan	4/11/05	5/22/06	
Event Operations Meeting		Summer, Susan	9/7/04	5/16/06	
Coordination Meeting of the Event Marketing		Hicks, Maria	7/28/04	8/19/05	
Event Organization Xbit 2006		Hicks, Maria	7/28/04	8/16/05	
Please find here information about our Xbit 2006 preparation.		Summer, Susan	4/14/05	8/16/05	
Field Kick Off '05 - Americas		Summer, Susan	4/14/05	8/16/05	
Event					
FlexTop i6300c Redesign Group					
Project Team for redesign of FlexTop i6300c according to feedback from user grou...					
FlexTop i9100 Product Team					
Group of all developers involved in FlexTop i9100 definition and realization...					
Global Mobile Congress '05 - Event Or...					
Please find all kind of information of our event preparation and event participa...					

1-10 11-15 >>> /15

Room Administration

You can filter the rooms displayed. To use the owner ID instead of the owner name, check "Owner as ID". Hiding a room removes it from the room directory until you show it again. Full access allows an owner to see all content of a room. To display the details for the room, click the room name.

Name:  Owner:

Room Type: Restricted Owner as ID:

Category: All Categories Template: All Templates

Name	Room Type	Locked	Hidden	Full Access	Owner	Created
Collaborative Procurement with SAP Ne...	Restricted			✓	Miller, Helen	Oct 1, 2004 10:13 PM
Computer Fair 2003	Restricted		✓		Summer, Susan	Sep 7, 2004 9:08 AM
Computer Fair 2004	Restricted		✓		Summer, Susan	Sep 7, 2004 9:06 AM
Computer Fair 2005	Restricted				Temporary User_2	Jan 27, 2005 11:28 AM
CultDirt	Restricted			✓	Hamed, Tessa	Jul 13, 2004 5:27 PM
Cygnus Project Planning	Restricted				Whyte, Julia	Mar 25, 2005 11:27 PM
East Coast Storemangers	Restricted				Mc Clane, John	Sep 21, 2004 10:48 AM

Page 2 / 9

## Performance improvements: Collaboration Launch Pad

- The performance of the user display on the Collaboration Launch Pad (and the room member list) can be improved using an internal cache memory. The system writes all users displayed to the cache memory and reads them directly from there if the same user is displayed again.

Also available in '04 SPS14

Refresh

Collaboration

- My Contacts
  - Event Team
  - IBU\_PS\_admingroup
  - Dash, John
  - Fall, Franco
  - Gonzales, Enrique
  - Spring, Sally
  - Winter, Walter

## ■ Revised Set of Standard Room Templates

- The standard templates delivered by SAP for rooms have been revised and unified. The existing room templates are not overwritten by the new templates.

Also available  
in '04 SPS14

## ■ Displaying Room Page Permissions in the Room Maintenance

- Room members who have permission to access the maintenance iView for the room can now display the page permissions defined in the room template and the templates of the room parts added to the room.

Also available  
in '04 SPS12

Page permissions are determined by the room template and any room part templates used in this room. Pages are listed in the order in which they appear in the detailed navigation.

Pages	Admin	Member	Public
Public Area	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Contacts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FAQ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Documents	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calendar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tasks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Room Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## ■ Sending Room Documents as E-Mail Attachments

- The system attaches a copy of the document to the e-mail to be sent.

Also available  
in '04 SPS14

## ■ Facilitating the Copy/Move Process of Room Documents

- When copying or moving documents and folders in Content Management inside and outside of rooms, the new entry point *My Room Folders* is available. If the entry point has been activated in the configuration, it offers all room folders in a user's rooms as a target location for the copy or move process.



Also available  
in '04 SPS13

## ■ Switching off Automatic E-Mail Sending for Rooms

Also  
available  
in '04 SPS11

- In the configuration of the backend system properties for rooms, suppression of automatic sending of e-mails when a user is invited to, deleted from a room, and when a room is deleted is possible

## ■ New Room Extensions Points

Also  
available  
in '04 SPS14

- An extension can be executed on adding a user to the room, removing a user from the room or on changing an external parameter

## ■ Preventing Deletion of Parameters and Extensions in Use

Also  
available  
in '04 SPS12

- Before deleting an external parameter or an extension configuration in the definition of a template, the system will check whether the parameter is being used. The system will not allow a parameter to be deleted if it is currently used in a template

## ■ Export and Import of Templates

Also  
available  
in '04 SPS11

- Transporting of room templates and room part templates from one system to another by using the export and import function in the PCD

## ■ Preventing Mass E-Mails From Being Sent

Also  
available  
in '04 SPS11

- Prevention of certain Portal users (for example, external users) from using the e-mail function in the portal to send mass e-mails

## ■ Indexing Rooms Using TREX

Also  
available  
in '04 SPS13

- For a large number of rooms, it will be possible to use TREX for high performance searching of rooms



# IT Scenario: Enterprise Reporting, Query, and Analysis

# IT Scenario: Enterprise Reporting, Query, and Analysis

## IT Practices

## IT Scenarios

	User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
	Data Unification	Master Data Harmonization		Master Data Consolidation		Central Master Data Management	Enterprise Data Warehousing
	Business Information Management	<b>Enterprise Reporting, Query, and Analysis</b>	Business Planning and Analytical Services	Enterprise Data Warehousing	Enterprise Knowledge Management	Enterprise Search	
	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		
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	Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master Data Consolidation	Enterprise Knowledge Management	Enterprise Data Warehousing	
	ESA Design and Deployment	Enabling Enterprise Services					

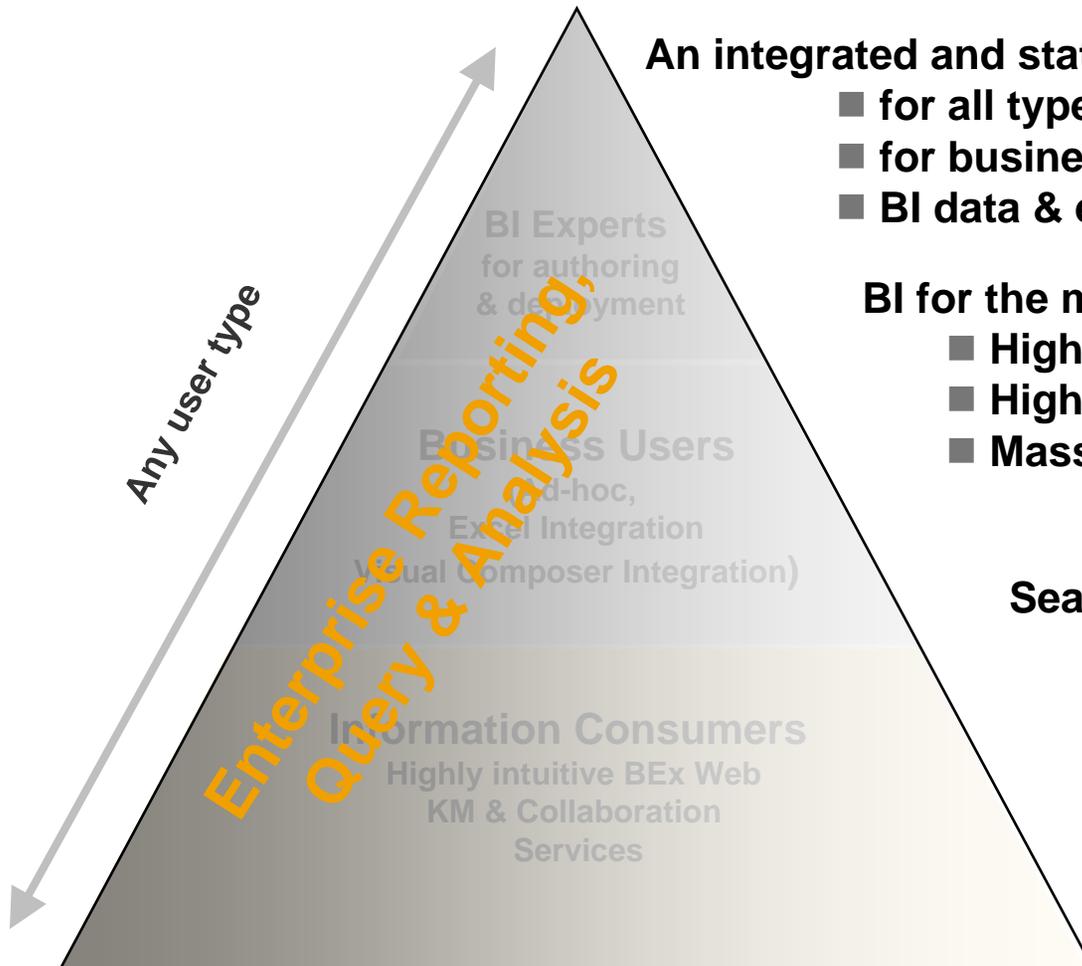
- **Enterprise Reporting, Query and Analysis provides processes and services to meet the needs of all business user with regards to information consumption. This covers reporting, ad-hoc query, interactive analysis, dashboards, and embedded BI, from both a design time and runtime perspective**
- **The design-time processes are based on .NET tools and Web-based tools that are integrated into an overall strategy for SAP NetWeaver design time**
  - **The runtime environment utilizes the Java and Portal platform and open-standards technologies to provide an infrastructure that is both flexible and extensible. It can be closely embedded into the operational context**

## Enterprise Reporting, Query, and Analysis

- Enterprise Reporting, Query and Analysis
- Excel Integration
- Ad hoc Query
- Information Broadcasting
- ▶ Modeling Business Intelligence Data with SAP NetWeaver Visual Composer

- **All information that a user gets through reporting, query, or analysis is actionable;**
  - **Print it, attach it to a workflow, broadcast it, give feedback on it, etc.**
- **IT Scenario variants cover the different possibilities for designing, deploying and interacting with BI data by using the different tools and capabilities of the Business Explorer (BEx) suite as well as Visual Composer.**

## Extend the reach of BI by providing:



### An integrated and state-of-the art modeling environment

- for all types of queries, reports, and analytics
- for business users and IT
- BI data & external data

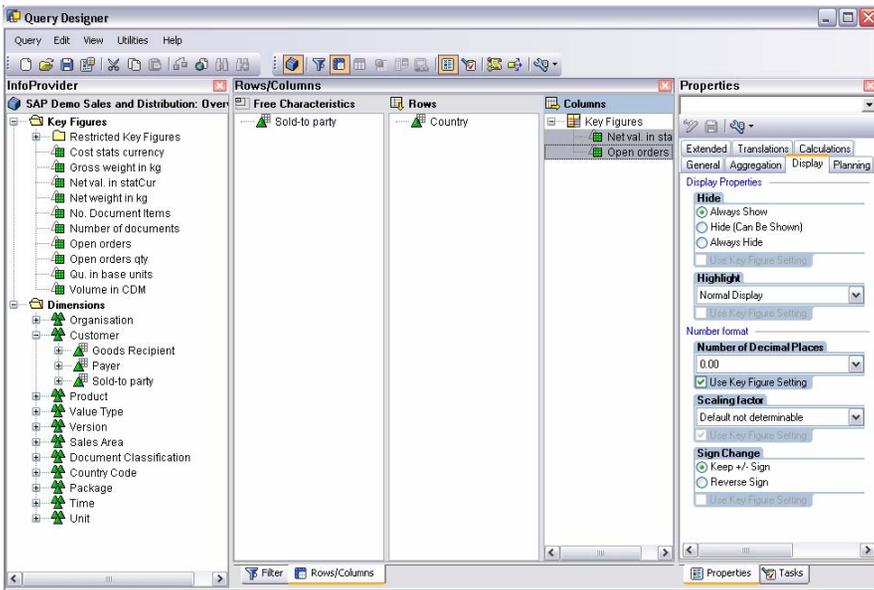
### BI for the masses:

- High Visual Appeal & Usability
- High performance use of BI
- Mass Distribution

### Seamless integration into

- Portal
- Knowledge Management
- Collaboration
- Excel
- Visual Composer

## Designing a Query



Query design takes place in the Business Explorer (BEx) Query Designer, a Visual Basic .NET-based Unicode-compliant tool.

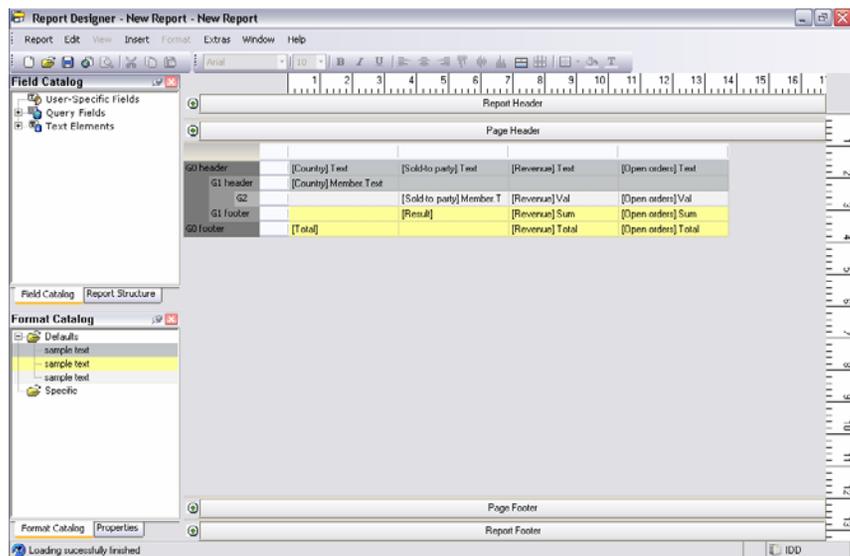
■ State-of-the-art UI concept, providing for example:

- Available tasks for a selected object presented via a *task pane*
- Message panel shows warnings and error messages in context → helps to avoid or correct errors
- Enhanced application menus, toolbars and context menus
- Extended visualization of status and user actions

■ Support of multi-selected objects – drag&drop, properties

■ Options for BI-integrated Planning

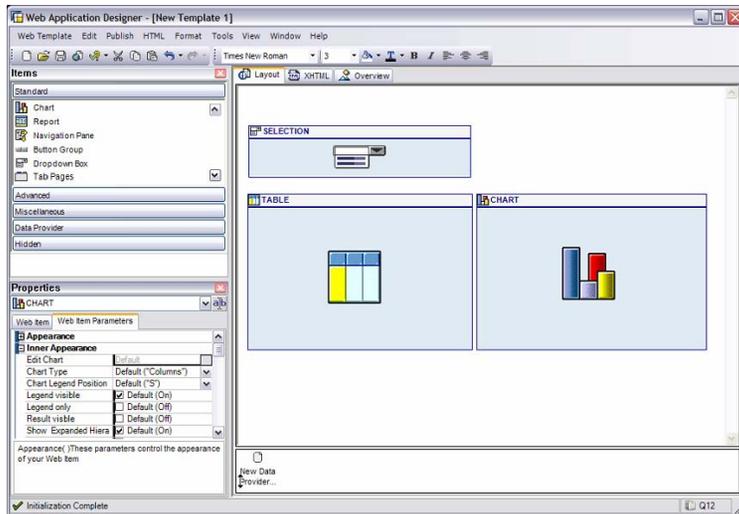
## Designing a Report



Report design takes place in the Business Explorer (BEx) Report Designer - a new, VB .Net-based tool that allows to create formatted, print-optimized reports.

- Standard formatting: Font styles (e.g. bold, italic) and colors, etc.
- Group level changes with individual formatting
- Layout options, for example
  - Height of rows, width of columns
  - Multi-line column headers
  - Flexible positioning of fields
  - Merger of cells
- Support of hierarchies
- Rules for the presentation of special characteristic values
- Integration of texts, pictures, and charts
- Header and footer for reports and pages

## Designing a Web Application



Web application design takes place in the Business Explorer (BEx) Web Application Designer, a Visual Basic .NET-based, Unicode-compliant tool.

- **Model-driven BI application building**
  - **Wizards for charts, maps, command editing**
  - **Wizard for layout elements (e.g. buttons)**
  - **“Syntax Auto-Complete” support for Web API developers**
  - **Easy integration of native HTML commands**
- **New layout elements (Tab strips etc.)**
- **New Web items**
- **New chart types, e.g. GANTT chart, MTA chart**
- **Design of ‘planning aware’ business applications**

Only  
available  
in 2004s

## Web-based Ad-hoc Design Leveraging Drag & Drop

- Easy navigation, when dropping characteristics on top of rows or columns
- Easy filtering, when dropping characteristics into filter area
- Personalized Filters
- Saving of and distribution of analysis results through strong portal integration
- Close integration to Information Broadcasting and Knowledge Management
- Wizard-based definition of exceptions and conditions
- Query creation on top of SAP NetWeaver and 3rd party data (via XMLA Connectors)

**DalSegno Company Analysis**

New Open Save Save As... Display as Table Information Send PDF/Print Export to Excel Filter Settings

Validity of Data: Aug 4, 2004

Product: No filter applied Product Group: Accessories Distribution Channel: Fax, Internet  
 Structure: No filter applied Key figures: No filter applied Calendar Year/Month: No filter applied

	Distribution Channel	12/ 2004	12/ 2003	%Var. December	YTD 2004	YTD 2003	%Var. YTD
Billed Quantity Plan	EDI	4,853,626	4,959,922	-2.1	56,665,294	85,339,782	-33.6
	Others	1,768,033	1,906,627	-7.3	21,662,331	30,773,158	-29.6
	Phone	5,095,301	5,366,916	-5.1	61,834,700	90,861,992	-31.9
	Overall Result	11,716,960	12,233,465	-4.2	140,162,325	206,974,932	-32.3
Billed Quantity	EDI	4,639	4,830	-0	55,905	86,850	-0
	Others	1,792	1,875	-0	21,703	31,426	-0
	Phone	5,087	5,336	-0	61,363	92,523	-0
	Overall Result	11,518	12,041	-0	136,971	210,800	-0

Column 1 of 6

Only available  
in 2004s

## Embedding Queries, Views & InfoProviders

- **Direct Access to InfoProviders as well as queries & query views**
- **New workbook default layout**
- **Intuitive User Interaction via Drag & Drop and re-designed property dialogues**
- **Personalizable Filter Value Lists**
- **Full accessibility and unicode support**
- **Excel based data entry and planning. Manual Data entry into Planning Aggregation Levels and usage of planning functions**

**Country Sales and Distribution**

Chart   Filter   Info

Sales Group	Country	Distribution channel	Number of documents
Sales organization	Australia	Direct Sales	380.000
Division		Final Customer Sales	358.000
Company code		Internet Sales	376.000
Product		Service	381.000
Goods Recipient	Canada	Final Customer Sales	2,724.000
Sold-to party		Internet Sales	2,556.000
Country		Service	96.000
Distribution channel	Germany	Direct Sales	6,480.000
Key Figures		Final Customer Sales	8,400.000
		Internet Sales	16,020.000
		Service	2,610.000
	France	Final Customer Sales	14,768.000
		Internet Sales	13,174.000
	Great Britain	Direct Sales	1,624.000
		Final Customer Sales	20,340.000
		Internet Sales	630.000
		Service	1,476.000
	USA	Final Customer Sales	38,652.000
		Internet Sales	15,114.000
	<b>Overall Result</b>		<b>146,159.000</b>

## Workbook Design

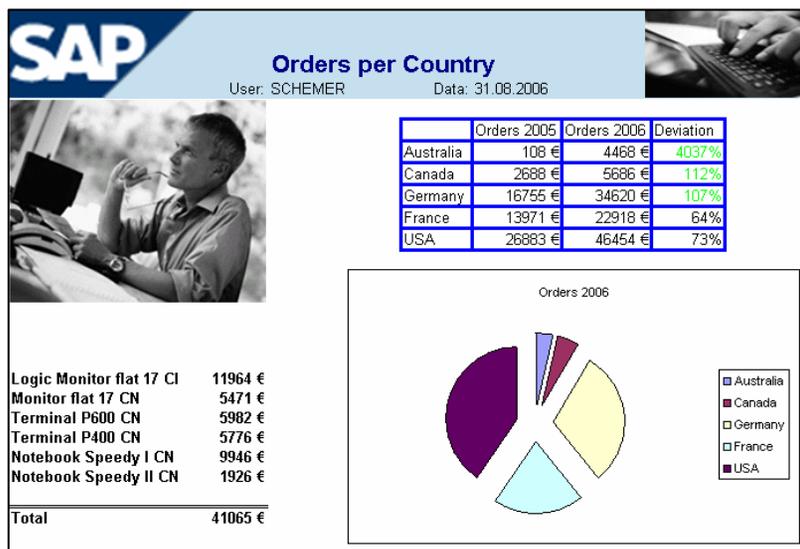
- Application-building in Excel (similar to Web Application Designer)
- Excel Formulas allow access to any cell of the result set
- Excel Formatting options can be fully leveraged for BEx Workbooks (e.g. blank lines, fonts etc.)
- Combining Excel Formulas and Excel Formatting allows the design of High-End Formatted solution workbooks
- These features can be used on top of ANY type of query, query view or even directly on an InfoProvider

**Dal Segno** *Your Source for Promotional Materials*

### Income Statement September 2005

all financial figures in mio EUR

	Year to Date					
	Variance in Mio EUR			Variance in %		
	vs Last Cycle	vs Previous year	vs Budget	vs Last Cycle	vs Previous Year	vs Budget
<b>Total Revenues</b>	<b>39.7</b>	<b>39.7</b>	<b>58.3</b>	<b>4.9 %</b>	<b>4.9 %</b>	<b>7.4 %</b>
<b>Total Net Sales</b>	<b>37.7</b>	<b>37.7</b>	<b>57.4</b>	<b>4.7 %</b>	<b>4.7 %</b>	<b>7.3 %</b>
Indirect Sales	1.8	1.8	2.1	59.8 %	59.8 %	79.4 %
Sales to Other Division	0.5	0.5	-0.6	7.5 %	7.5 %	-8.0 %
Sales to Own Division	35.5	35.5	55.9	4.5 %	4.5 %	7.2 %
<b>Total Other Revenues From Indirect Sales</b>	<b>2</b>	<b>2</b>	<b>0.9</b>	<b>59.7 %</b>	<b>59.7 %</b>	<b>19.0 %</b>
Revenues From Indirect Sales Royalties	0.5	0.5	0.2	22.7 %	22.7 %	6.2 %
<b>Revenues From Tele Sales</b>	<b>1.4</b>	<b>1.4</b>	<b>0.5</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>58.5 %</b>
Other Revenues From Indirect Sales	0.1	0.1	0.2	10.9 %	10.9 %	18.2 %
<b>Total Costs</b>	<b>-46.3</b>	<b>-46.3</b>	<b>-30.5</b>	<b>-11.4 %</b>	<b>-11.4 %</b>	<b>-7.3 %</b>
% of Sales						
<b>Total Costs for Production</b>	<b>-47.1</b>	<b>-47.1</b>	<b>-30.5</b>	<b>-12.1 %</b>	<b>-12.1 %</b>	<b>-7.5 %</b>
Costs Own Division	-2.8	-2.8	-2.4	-44.7 %	-44.7 %	-36.6 %
Manufacturing Costs	0.8	0.8	2.5	19.5 %	19.5 %	44.4 %
Variances & Write-offs	2.3	2.3	-4.5	11.7 %	11.7 %	-35.3 %
<b>Total Other Related Costs</b>	<b>0.8</b>	<b>0.8</b>	<b>0.5</b>	<b>5.3 %</b>	<b>5.3 %</b>	<b>-0.2 %</b>
Amortization Related to Marketable Products			0.2	-1.1 %	-1.1 %	8.0 %
Royalties On Licensed Products	0.8	0.8	-0.2	6.3 %	6.3 %	-1.6 %
Other Product Related Costs						
<b>Gross Profit</b>	<b>-6.6</b>	<b>-6.6</b>	<b>27.8</b>	<b>-1.6 %</b>	<b>-1.6 %</b>	<b>7.6 %</b>



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Additional new broadcasting features include:

## ■ New Object Types

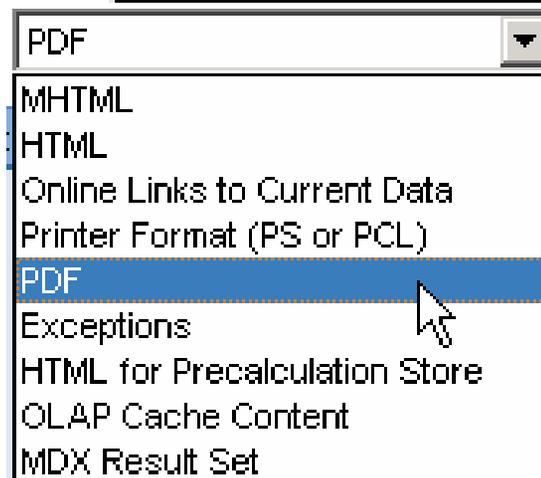
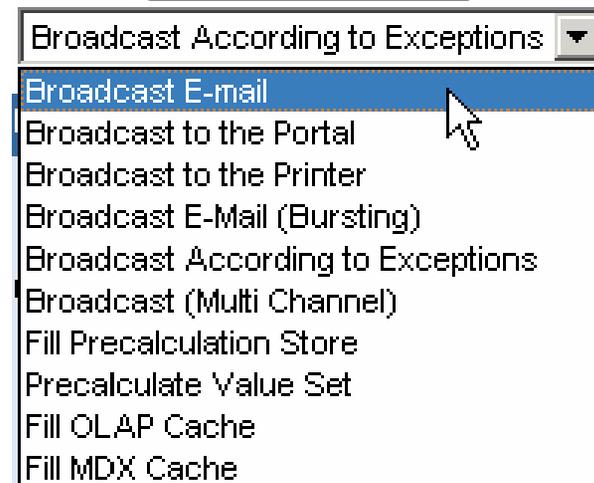
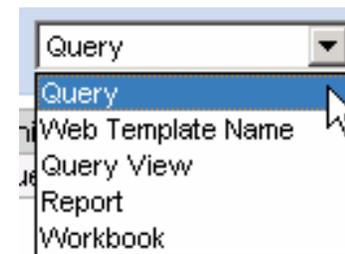
- Query Views
- Formatted Reports

## ■ New Distribution Types

- **Data Bursting → Broadcast to recipients derived from BI master data and optionally adapt the output format for each recipient**
- **Exception broadcasting - Create Alert settings based on defined exceptions**
- **Integration into SAP Alert Framework & UWL**

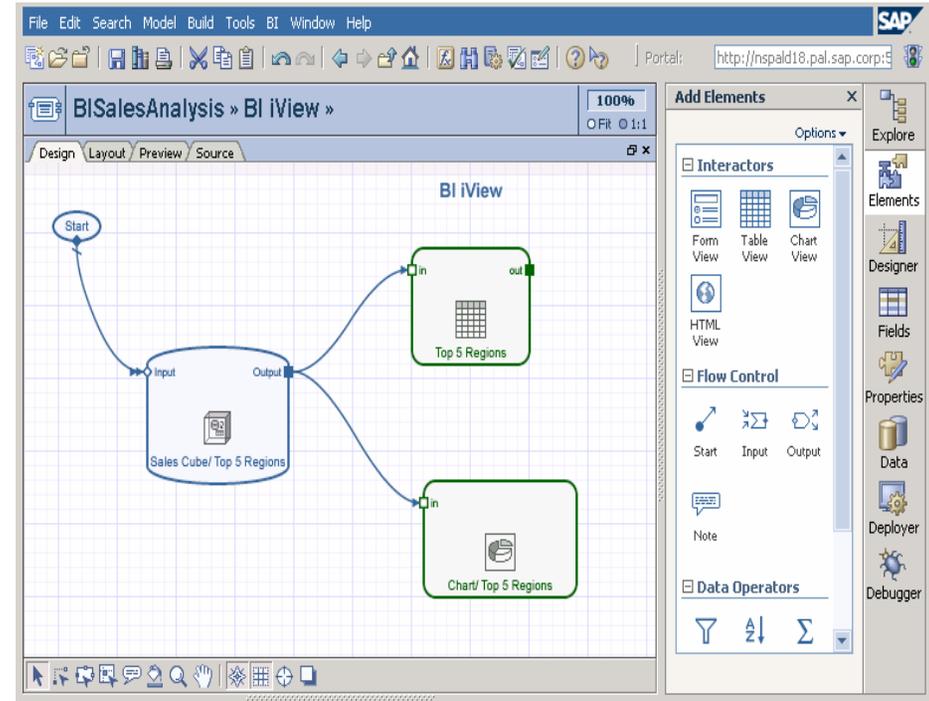
## ■ New Output Options

- Printers
- PDF Files



## Modeling Embedded BI

- **Allows Business Users to create Composite Applications that include BI data**
- **Integrate with SAP NetWeaver BI InfoProviders (InfoCubes, BEX Queries and Query Views)**
- **Integrate Third Party Data via Java Connectors (XMLA, ODBO, JDBC ...)**
- **Business User Support via BI Integration Wizard**



Only  
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Note: Only the next version of SAP NetWeaver Visual Composer is planned to support SAP NetWeaver 2004s, and to support this scenario variant.

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- Delta highlights by IT Scenarios / SAP NetWeaver Product Management / 65



# IT Scenario: Enterprise Data Warehousing

# IT Scenario: Enterprise Data Warehousing

## IT Practices

## IT Scenarios

	User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
	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	Enterprise Knowledge Management	Enterprise Search	
	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 and Security Mgt	Authentication and Single Sign-On			Integrated User and Access Management		
	Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master Data Consolidation	Enterprise Knowledge Management	Enterprise Data Warehousing	
	ESA Design and Deployment	Enabling Enterprise Services					

- **Enterprise Data Warehousing (EDW) enables customers to create and operate a data warehouse in an enterprise-wide environment.**
  - **This methodology encompasses integration of heterogeneous systems, supports various system topologies and their development and describes a layering methodology for highly flexible information access. An EDW approach also facilitates both strategic analyses and operational reporting.**
- **The IT scenario enterprise data warehousing structures into two scenario variants, which cover design time (modeling/implementation) and runtime aspects of a highly flexible, reliable, robust and scalable BI solution:**
  - **Modeling the enterprise data warehouse: mainly addresses implementation and modeling issues. It spans from data modeling (creating InfoProviders), definition of sources, transformation to data distribution and also facilitates meta data management.**
  - **Running the enterprise data warehouse: mainly addresses administration and monitoring issues. It spans from data flow control, administration & monitoring, performance optimization (using the highly innovative concept of BI accelerator) to data lifecycle management and also facilitates user management**

## Enterprise Data Warehousing

● Modeling the Enterprise Data Warehouse (EDW)

● Running the Enterprise Data Warehouse (EDW)

# Data Modeling and Transformation

## ■ Enhanced DataStore objects (formerly: ODS objects)

- Benefit: Improved performance and flexibility
- Performance optimization of activation process
- New DataStore Type: Write-optimized DataStore (without change log, no activation, Partitioned on request ID)

## ■ Transformation

- Benefit: Improved performance, flexibility and usability, simplification by unifying transfer and update rules
- Unification of transfer and update rules
- New rule type: end routine
- New rule type: expert routine (pure coding of transformations)

**Transformation Change**

Transformation: ODSO RHORDITM -> CUBE RHSALES  
 Source: Sales Order Items (RHORDITM)  
 Target: Sales Order Analysis (RHSALES)  
 Version: Active  
 Active Version: Executable  
 Edited Version:

Post Key	InfoObject	Icon	Descript.
1	ODOC_NUMBER		Document number
2	OS_ORD_ITEM		Sales Order Item
3	OMATERIAL		Material
4	OCUSTOMER		Customer number
5	OSALESORG		Sales Organization
6	OCUST_GROUP		Customer group
7	ODISTR_CHAN		Distribution Channel
8	ODIVISION		Division
9	OCALDAY		Calendar Day
10	OCONF_QTY		Confirmed quantity
11	OSALES_UNIT		Sales unit
12	O RECORDMODE		BW Delta Process: Update Mode
13	ONET_VALUE		Net value of the order item in document currency
14	ODOC_CURRCY		Document Currency

Rule Name	Post Key	InfoObject	Icon	Descript.
DMATERIAL	1	OMATERIAL		Material
DCUSTOMER	2	OCUSTOMER		Customer number
DSALESORG	3	OSALESORG		Sales Organization
DCUST_GROUP	4	OCUST_GROUP		Customer group
DDISTR_CHAN	5	ODISTR_CHAN		Distribution Channel
DDIVISION	6	ODIVISION		Division
DCALMONTH	7	OCALMONTH		Calendar Year/Month
DCALDAY	8	OCALDAY		Calendar Day
DCALYEAR	9	OCALYEAR		Calendar Year
DCALQUARTER	10	OCALQUARTER		Calendar Year/Quarter
DCONF_QTY	11	OCONF_QTY		Confirmed quantity
ONET_VAL_S	12	ONET_VAL_S		Net value in statistics currency
ONET_VALUE	13	ONET_VALUE		Net value of the order item in document currency

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in 2004s

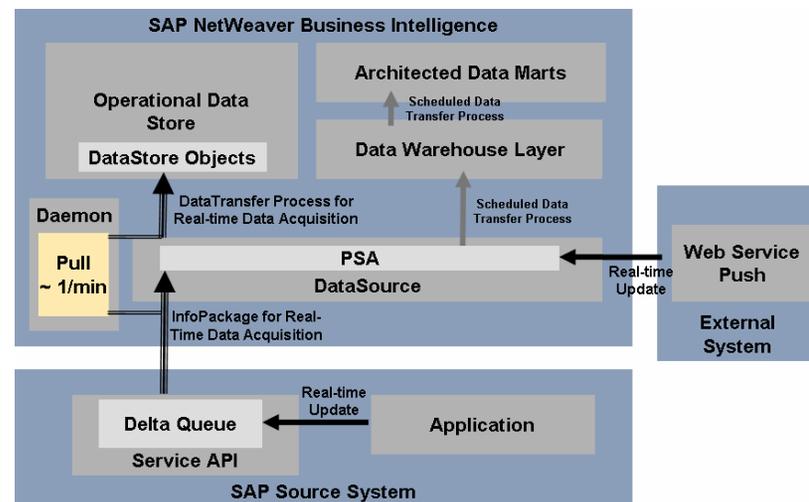
## Data Flow Control

### ■ Data Transfer Process (DTP)

- Benefit: Data 'Distribution' within BI Capabilities (from PSA or InfoProviders to InfoProviders)
- Improved transparency of staging processes across data warehouse layers (PSA, DWH layer, ODS layer, Architected Data Marts)
- Improved performance and high scalability
- Separation of delta mechanism for different data targets: delta capability is controlled by the DTP
- Enhanced filtering in dataflow
- Repair modus based on temporary buffers (buffers keep complete set of data)

### ■ Enhanced real-time data acquisition capabilities

- XML Web service
  - Direct push into PSA (removing Service API/ Delta Queue)
- InfoPackage & DTP for real-time data acquisition
  - Daemon-based update from delta queue (Service API)
  - Daemon-based update of DataStore objects (ODS layer) – including lean staging (with minimized logging)



# Administration & Monitoring

SAP NetWeaver 2004s provides a proactive monitoring framework and enhanced administration capabilities. TCO reduction is the guiding principle in this context.

## Administration Cockpit

- Benefit: Centralized Monitoring
- Proactive support of BI administrator in status tracking and performance optimization (Data Load, Reporting and Planning)
- Focused on critical issues
- Timelines and comparisons (with deviations)
- Drill-down from overview view to details
- Direct jump to facilitate solving problems
- Based on new technical BI content objects
- Based on BEx and Portal technology  
➔ Enhancements easily possible

The image displays three screenshots of the SAP Enterprise Portal 6.0 Administration Cockpit interface. The top screenshot shows the 'Process Chain Status' with a table of process chains and their execution details. The middle screenshot shows the 'Performance' section with a 'Load overview' table and a 'Query performance' table. The bottom screenshot shows a 'Load comparison' table and a 'Query response times compared' table. A 'Process Chain' graph is visible on the right side of the interface.

Type	Process Chain	Date	Time	Action
■	OUOMA_PC01	07.06.2004	13:34:02	Analyze Details Properties Alerts
■	OUJ_DELTA_P01	09.06.2004	15:21:12	Analyze Details Properties Alerts
■	ZUC_MD	07.06.2004	16:39:44	Analyze Details Properties Alerts

InfoCube	@rsp.time	aggr. check	@olap.time	@DB.time
ZAC_TEST	232,50	1,0000	0,4375	18,9748
ZAC_DATA	93,14	3,0000	0,1356	12,3690
ZC_MTE	26,46	0,0000	0,0109	19,0720
ZC_ALERT	21,81	0,0000	0,0002	16,0016
ODS_STAT	20,52	0,0000	0,0012	20,4824
Z_MTE_IC	4,81	0,0000	0,0028	0,0000
ZC_AC_PT	4,01	0,0000	0,0034	0,0000
OBMVC_C10	3,81	8,2000	0,0685	0,8175

InfoSource	InfoSource	@load.act.	@load.old	@ (%)
ZAC_B0	IS_AC_TST	1.411,6644	36,8130	-3,735
ZAC_TEST	IS_AC_TST	1.309,2641	36,3539	-3,501
ZAC_DATA	IZAC_B0	1.881,2891	647,3064	-1,91
OBMVC_C11	OBMVC_C11	0,8274	0,3248	-1,86
OBMVC_C02	OBMVC_C02	4,3836	7,0564	38
ZAC_DATA	OZAC_TEST	1,2303	362,0030	100

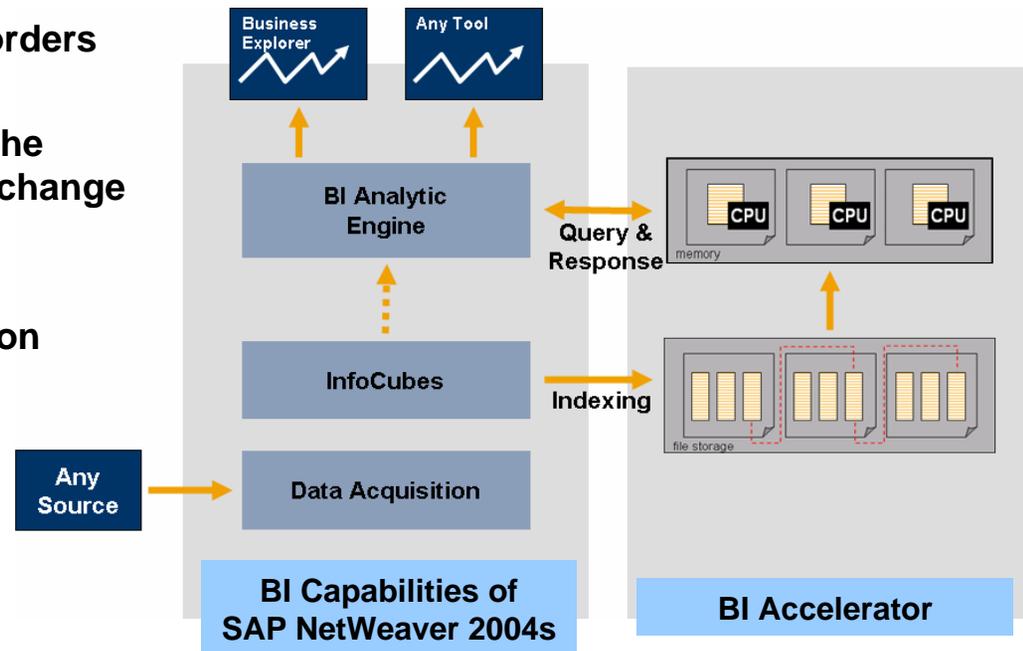
InfoCube	@ runtime (%)	@ if nesting (%)	@ resp. time act.	@ resp. time old
ZC_MTE	-109,6603	-20,8018	42,46	20,31
OBMVC_C10	-28,7799	900,0000	3,85	2,99
ZC_ALERT	17,4221	-66,5714	28,29	35,59
OCRM_MCO6	54,6510	0,0000	0,15	0,34
OCPI_ALL	78,4125	-25,0000	1,06	5,16

## Performance Optimization

SAP NetWeaver 2004s provides various tools to increase the data load and query performance significantly – among them the innovative BI accelerator. Thus, the implementation of large enterprise data warehouses is facilitated.

### ■ BI Accelerator

- **Benefit: A new low administration appliance concept for high performance data access.**
- **Query performance is boosted by orders of magnitude**
- **Simultaneously, maintenance and the realignment processes roll-up and change run are improved significantly**
- **BI Accelerator is built using TRES technology (search and classification engine)**
- **Provides linear scalability and is ready to fully leverage grid and adaptive computing capabilities**



## Information Lifecycle Management

### ■ Near-line storage features

- Supports data aging (together with data archiving capabilities) by delivering a robust, generic interface to near-line storage solutions of certified Complementary Software Partners
- Data archiving processes implement near-line storage archiving capabilities for InfoCubes and DataStore objects
- Near-line storage archives transparently accessible for SAP BI Queries
- Reduction of administration costs (TCO) and improvement of high volume data warehouse



## User Management

### ■ New analysis authorization concept

- New concept replaces authorization object concept for analysis users
- Authorizations form a union (not an intersection) → 'as expected'
- High flexibility of authorizations (e.g. authorized only on the first 10 days of each month)
- No restrictions in terms of number of InfoObjects
- Supports rapid change
- Navigation attributes individually selectable
- Hierarchy authorizations at the same level as value/interval authorizations
- Special dimensions for every authorization: InfoProvider, activity, validity
- Simplified modeling



# IT Scenario: Business Planning and Analytical Services

# IT Scenario: Business Planning and Analytical Services

## IT Practices

## IT Scenarios

	User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
	Data Unification	Master Data Harmonization		Master Data Consolidation		Central Master Data Management	Enterprise Data Warehousing
	Business Information Management	Enterprise Reporting, Query, and Analysis	<b>Business Planning and Analytical Services</b>	Enterprise Data Warehousing	Enterprise Knowledge Management	Enterprise Search	
	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	
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	Unified Life Cycle Management	Software Life Cycle Management			SAP NetWeaver Operations		
	Application Governance and Security Mgt	Authentication and Single Sign-On			Integrated User and Access Management		
	Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master Data Consolidation	Enterprise Knowledge Management	Enterprise Data Warehousing	
	ESA Design and Deployment	Enabling Enterprise Services					

## Business Planning and Analytical Services

This IT scenario covers processes which support decision-making by collecting data from InfoProviders, queries or other BI objects, transforming data in various ways, and writing back the generated information into BI objects.

- Main components of business planning and analytical services are the Analysis Process Designer and BI integrated planning.

This scenario includes the following variants:

- **Business Planning**

- State-of-the-art planning methods and tools that allow organizations to predict and react flexibly and quickly to changing market conditions.
- Build applications to perform strategic or operational planning

- **Analysis process design**

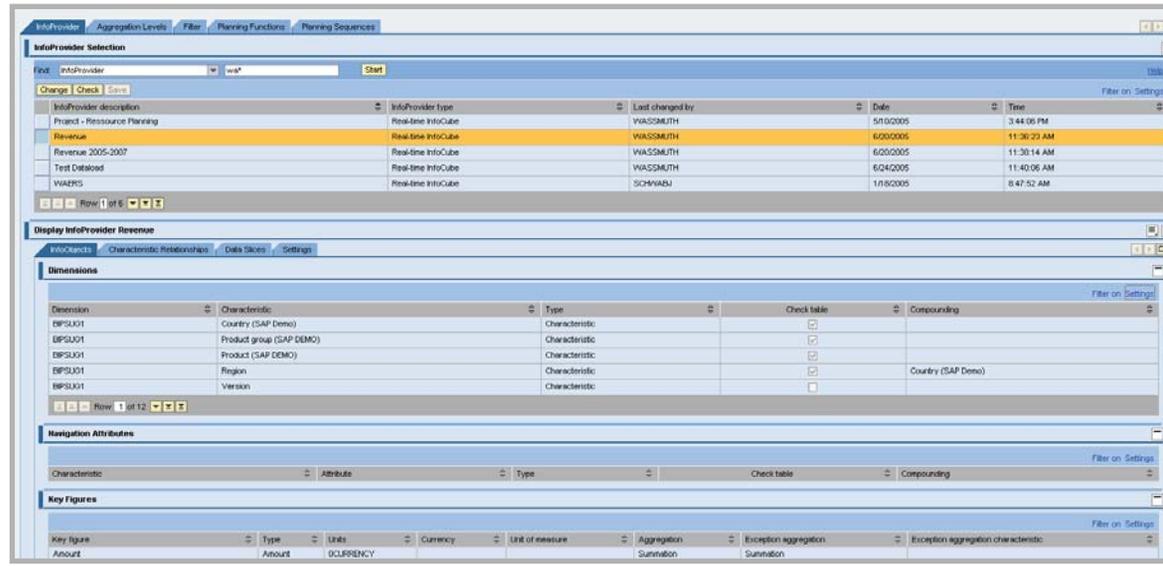
- Organizations can create analysis processes, including data mining methods.

### Business Planning and Analytical Services

- Business Planning
- Analysis Process Design

## ■ Planning modeler

- Web based planning model tool for modeling of planning scenarios by business experts that do not have access to Data Warehousing Workbench (RSA1)
- Administration of a planning process requires frequent changes of settings (variables, data slices, formulas)



Only available  
in 2004s

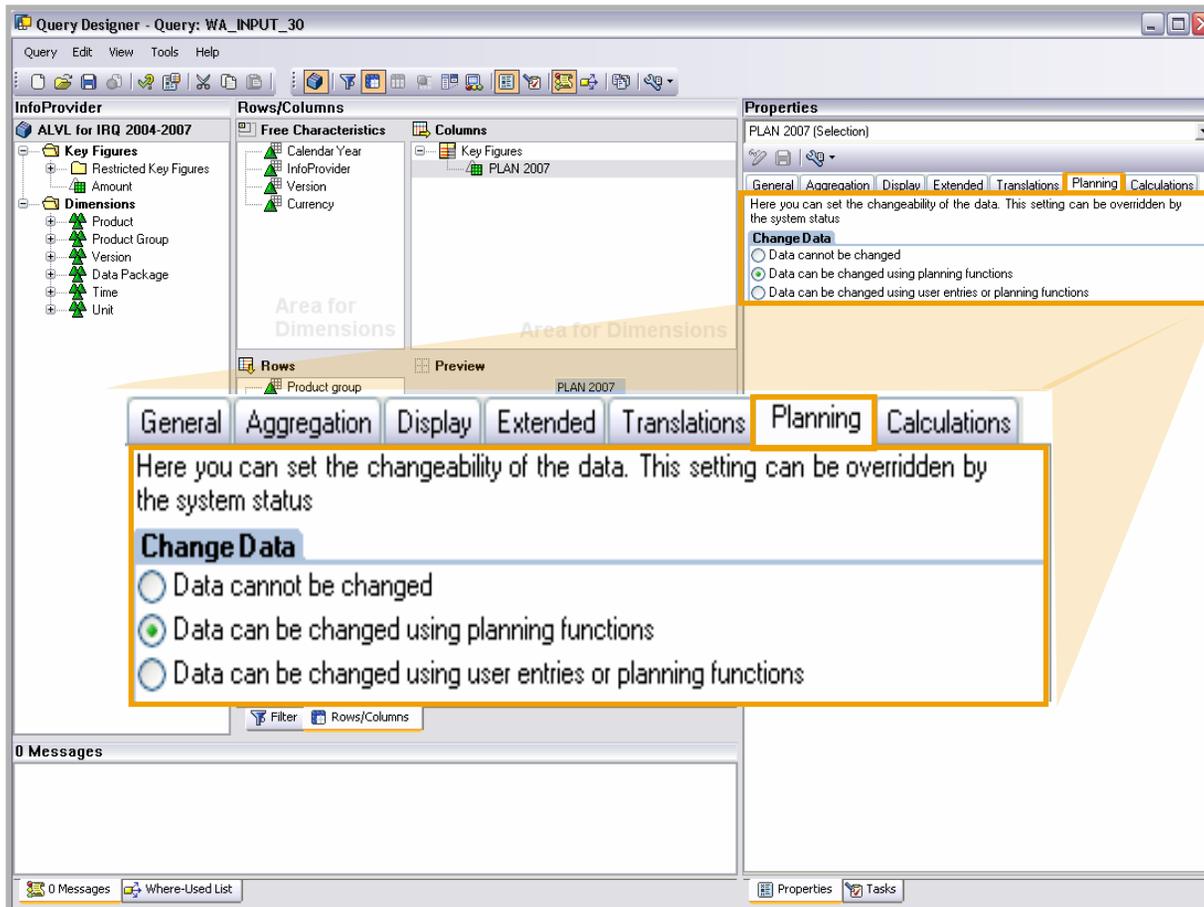
## ■ Planning Wizard

- Guidance through all steps necessary to build a planning model on top of an InfoCube
- Ad hoc creation of test environment for manual data entry and planning functions
- On screen help for inexperienced users



Only available  
in 2004s

## BEx Query Designer Designing the input ready Query



### New features:

- Drilldown
- Hierarchical data in rows and columns
- Calculated key figures
- Structures
- Unit conversion
- Alerts
- Conditions
- Graphics
- Ad-hoc currency
- Currency translation

## BEx Analyzer - Designing a workbook

**Sales Planning**

Country	Deviation Plan <-> Actual (%)
Australia	0.00 %
Canada	0.00 %
Germany	0.00 %
France	0.00 %
Great Britain	0.00 %
USA	0.00 %
<b>Overall Result</b>	<b>0.00 %</b>

Distribution channel	Percentage Share Total Revenue (Plan)
Direct Sales	8 %
Final Customer Sales	51 %
Internet Sales	39 %
Service	1 %
<b>Overall Result</b>	<b>100 %</b>

Target: Plan +30% Internet Sales >40% Direct Sales <10%

Country: [Dropdown]

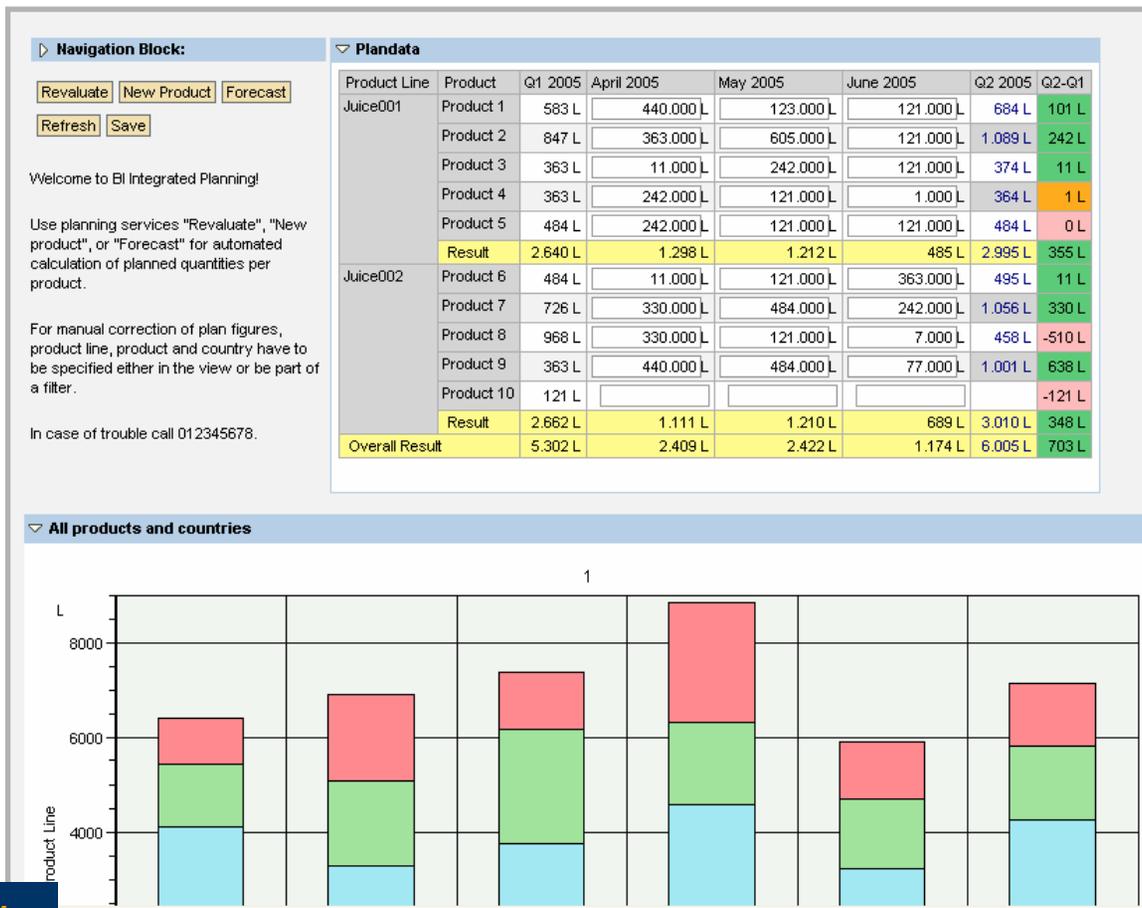
Distribution channel	Plan Value (2007)
Direct Sales	416.8
Final Customer Sales	2,557.5
Internet Sales	1,930.3
Service	71.4
<b>Overall Result</b>	<b>4,975.9</b>

Percentage Share Total Revenue per Country

### Combine the power of the Excel rich client with a centrally managed planning model

- Users can “enrich” their workbooks with “private” calculations
- Save workbooks locally while retaining the link to the central planning model
- Deploy highly customized, individual workbooks (comparable to BI Web applications)
- BEx Analyzer features available in planning applications
  - Drill down, filter, sort, etc..
  - Drag and drop

## Web Application Design – Example





# IT Scenario: Business Task Management

# IT Scenario: Business Task Management

## IT Practices

## IT Scenarios

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

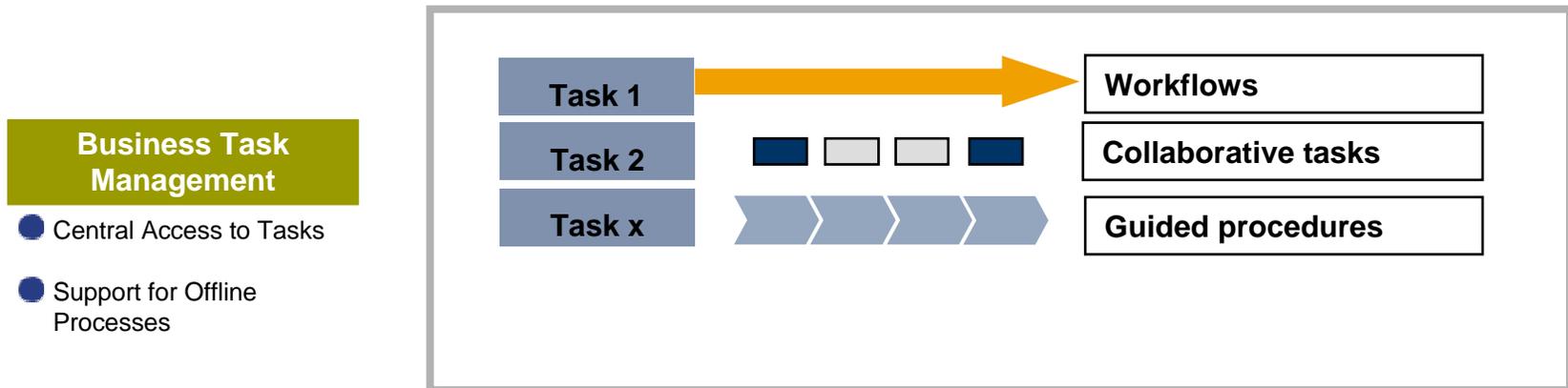
## Automation and execution of tasks

- **SAP NetWeaver helps people coordinate, monitor, and adapt their own tasks and the tasks they assign to coworkers, including forms-based tasks**

## Includes the variants

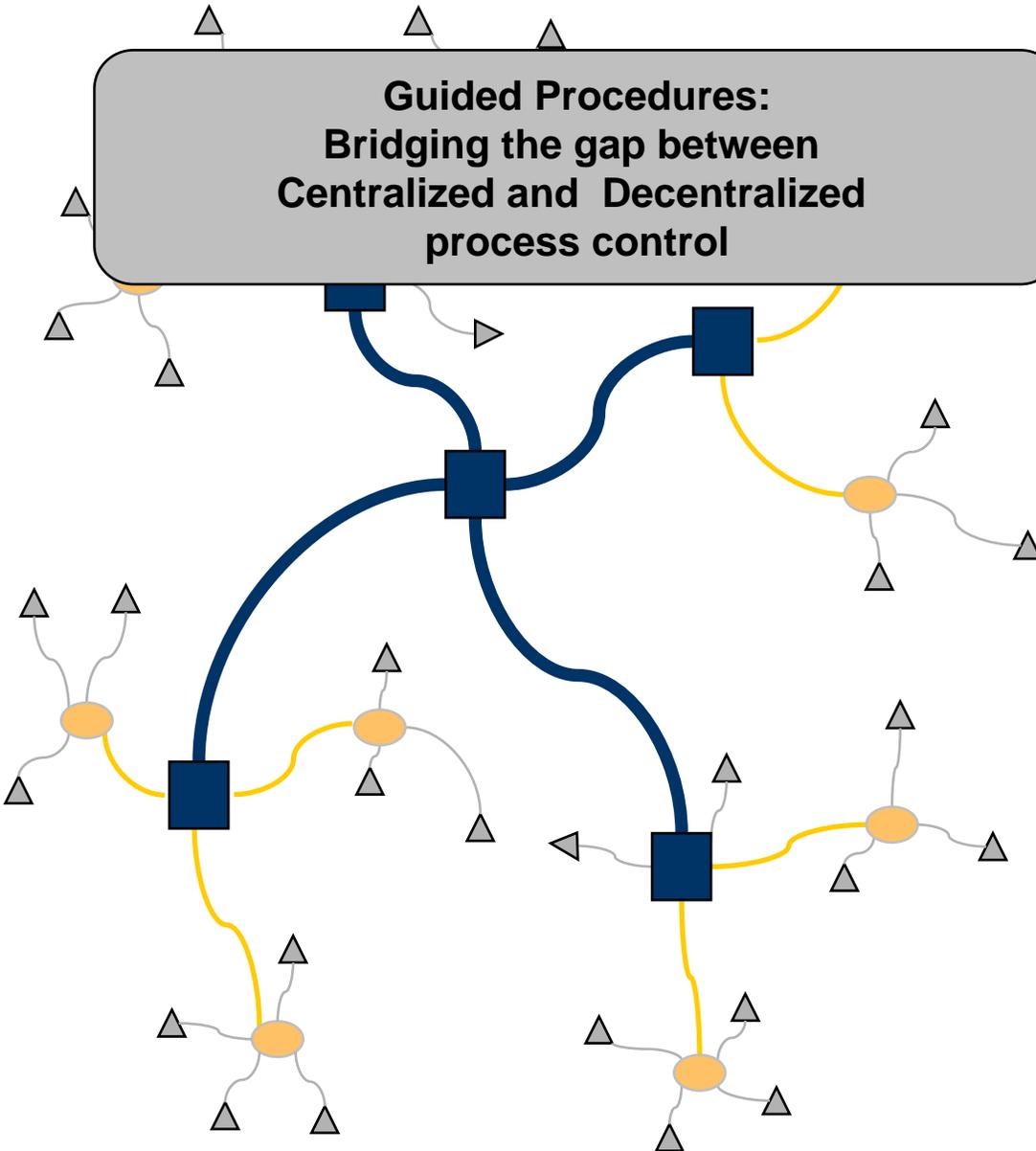
- **Central Access to Tasks**
- **Support for Offline Processes**

### TASK MANAGEMENT User Interaction



# Business Task Management: Support for Offline Processes

**Guided Procedures:  
Bridging the gap between  
Centralized and Decentralized  
process control**



SAP NetWeaver  
Unbounded Processes  
Embedded Processes  
Programmed Processes

**Central IT**



SAP NetWeaver  
Guided Procedures  
Collaboration Room

**Business Department**



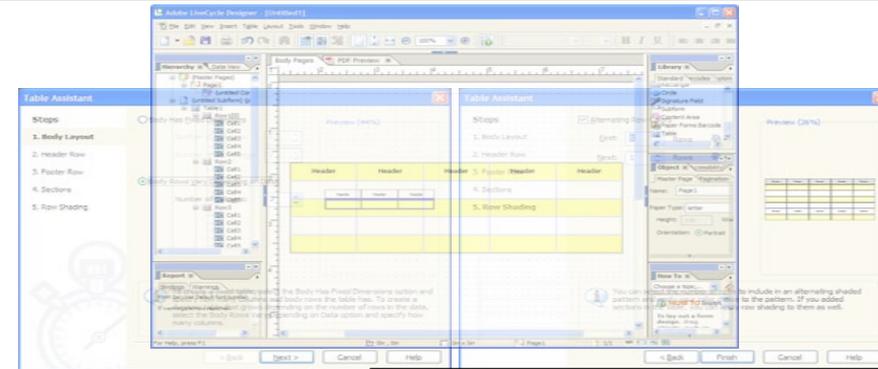
SAP NetWeaver  
Collaboration Tasks

“I want to delegate  
some of my tasks  
to colleagues, and  
track their progress.”

**Individual**

## Interactive Forms – Design

- Wizard-based table design
  - Create tables (in particular for output) easily with the assistance of a user-friendly wizard
- Dynamic PDF forms
  - Design and generate forms which can dynamically expand in Adobe Reader (to, for example, add a new order line item to an order form)
- Integration into Web Dynpro for ABAP
  - Create Web applications using interactive PDF forms in the ABAP Workbench
- XML Forms Interface
  - Generate forms context from XML schema



## Interactive Forms – Security

- Document certification and signing on the server
  - Ensures that the form recipient can trust the identity of the form creator
- Validation of certified documents on the server
  - Ensures that the form template of incoming forms was not modified
- Validation of digital signatures on the server
  - Validates the identity of the person(s) who signed the form
  - Allows to discover changes to the form data after signing
- Document permissions (e.g. do not allow printing)

A screenshot of a digital signature form. The form contains the following text:

2. I REJECT THESE COVERAGES ENTIRELY.

I UNDERSTAND THAT THE COVERAGE SELECTION AND LIMIT CHOICES INDICATED WILL APPLY TO ALL FUTURE RENEWALS, CONTINUATIONS AND CHANGES UNLESS I NOTIFY YOU OTHERWISE IN WRITING.

APPLICANT'S SIGNATURE: Kel Varsen

DATE: Friday, October 22, 2004

Digitally signed by Kel Varsen  
DN: cn = Kel Varsen, c = US, l = San Jose, s = CA,  
o = Sample Organization  
Date: 2004.10.22 10:21:23 -0500

Buttons: Clear Form... Submit...

Only  
available  
in 2004s

## ■ Universal Worklist built on Web Dynpro technology

## ■ Integration of third-party tasks into the universal worklist.

The screenshot displays the SAP Business Task Management interface. At the top, there are tabs for 'Tasks (10 New / 21)', 'Alerts (45 Unread / 50)', 'Notifications', and 'Tracking'. Below these is a search bar and a 'Filter' button. The main area shows a table of tasks with columns for 'Acknowledge', 'Refresh', 'New Task', 'Personalize View', 'Subject', 'Sent', 'Recipients', and 'Category'. The table contains several rows of tasks, including 'SO created with a value greater than 10.000 €', 'SO created with a value greater than 10.000 €', 'SO created with a value greater than 10.000 €', 'SO created with a value greater than 10.000 €', 'SO has one item with availability less than 10 %', 'SO has one item with availability less than 10 %', 'SO created with a value greater than 10.000 €', 'SO created with a value greater than 10.000 €', and 'SALERT: OS BOOK DESTROYED!'. Below the table, there is a 'High alert: Take it easy... maiana, maiana is ready' notification with buttons for 'Acknowledge', 'Forward', 'Configuration for Alerts', and 'View All UML High Alerts: Maiana, maiana...'. Below the alert, there is a form with fields for 'priority', 'Description', 'Sent', 'Due', and 'Status', and buttons for 'Activities (2)', 'Check Mail', and 'Cancel'.

## ■ Collaboration Tasks based on Business Suite objects

Ability to inherit the BOR objects that are attached to a work item when a collaboration task is created based on this workflow task.

## ■ Flexible BI task-based performance reporting.

This is primarily aimed at process-based reporting but can also be used to report on tasks and trigger alerts when KPIs are not reached.

This was delivered with the latest BI Content

This makes the Workflow Information System redundant and obsolete. Recommendation to use the new BI integration instead.

Also  
available  
in '04  
SPS15

Only  
available  
in 2004s



# IT Scenario: Enabling Application- to-Application Processes

# IT Scenario: Enabling Application-to-Application Processes

## IT Practices

## IT Scenarios

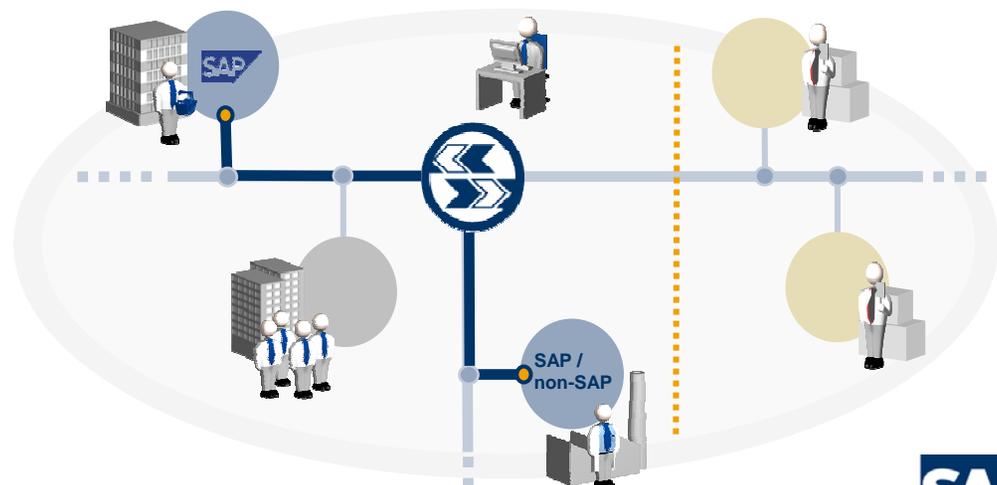
	User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
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	Business Event Management	Business Activity Monitoring			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	
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	ESA Design and Deployment	Enabling Enterprise Services					

**Enabling application-to-application processes** is the message- and standard-based integration of intra-company processes by seamlessly connecting SAP and non-SAP applications.

- The shared collaboration knowledge is based on **open standards**, e. g. Web services, XSLT, Java, XPath, in order to ensure openness and interoperability.
- **Pre-delivered content** is provided to allow an out-of-the-box integration of SAP solutions with other SAP or non-SAP applications
- This IT scenario includes one variant:
  - **Application-to-application integration**

## Enabling Application-to-Application Processes

- Application-to-Application Integration



## Enabling Application-to-Application Processes

### ■ Adapters (Enhanced)

- File / FTP Adapter
  - FTP-SSL and FTP-TLS
- JMS Adapter
  - Mapping of header correlation data and Header based sync / async bridge
- Mail Adapter:
  - Message security based on S/MIME and Certificates for digital signature and encryption
- IDoc Adapter
  - Advanced IDoc packaging and processing options

### ■ Conversion Agent (New)

- Generic Data Enrichment
- Mapping Usability and new Standard Functions
- Message Split Scenario without Integration Processes

### ■ Configuration (Enhanced)

- Enhanced Test & Simulation of Message Processing
- Improved Conditional Mapping

Also  
available  
in '04  
SPS12/13

Also  
available  
in '04  
SPS11-13

Also  
available  
in '04  
SPS12/13

## Enabling Application-to-Application Processes

### ■ Operations (Enhanced)

- Embedded Process Integration capabilities with 'powered by ' Applications
- Enhanced monitoring options
  - CCMS Alert Monitor per Adapter Engine
  - Payload search based on TREX
- Archiving
  - Enable single version archiving to reduce data volume
- Security
  - Enhanced Runtime Authorizations (Sender Business Service & System, message execution, adapter level)

Also  
available  
in '04  
SPS12/13



# IT Scenario: Enabling Business-to- Business Processes

# IT Scenario: Enabling Business-to-Business Processes

## IT Practices

## IT Scenarios

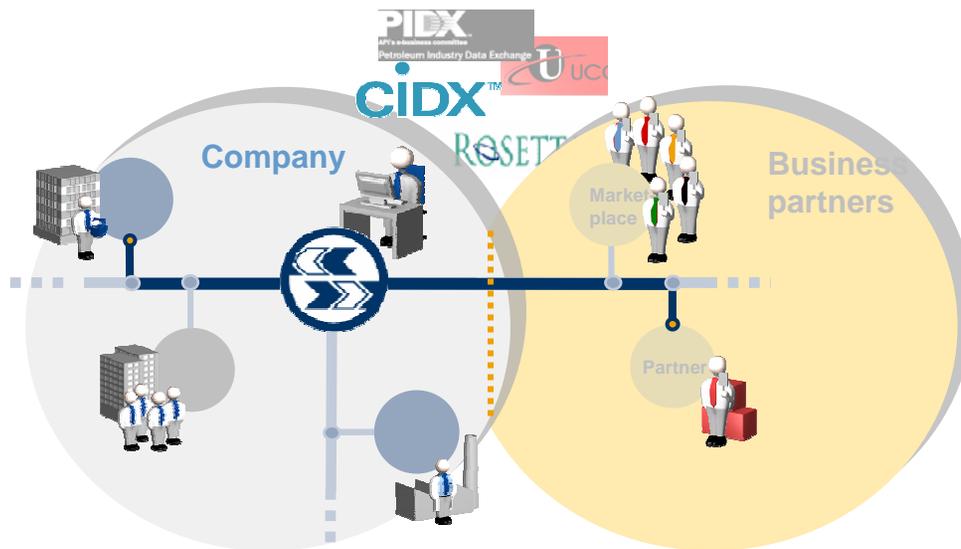
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	ESA Design and Deployment	Enabling Enterprise Services					

**B2B integration is the message- and standard-based integration of inter-company processes by seamlessly connecting SAP and non-SAP applications and orchestrating the process flow between them.**

**For B2B integration, SAP NetWeaver provides one platform to centrally manage the design, configuration, and execution of business processes running within and beyond the enterprise.**

## Enabling Business-to-Business Processes

- Business Partner Integration Using Industry Standards
- Small Business Partner and Subsidiary Integration



## Business partner integration using industry standards

### ■ Adapters

- Integrating high-tech business partners using the RosettaNet standard
  - Support of RNIF 1.1 specification
  - Wizard: Configuration of RNIF 1.1 & RNIF 2.0 adapter based on channel templates
- Integrating chemical business partners using the CIDX standard

Also  
available  
in '04  
SPS13

## Small business partner and subsidiary integration

### ■ Integrating small business partners using the Partner Connectivity Kit

- Via SAP NetWeaver's Partner Connectivity Kit (PCK) to enable a reliable low effort data exchange with other businesses.
- Message Mapping possible in PCK

Also  
available  
in '04  
SPS13

## Enabling Business-to-Business Processes - General:

### ■ Adapters (Enhanced)

- File / FTP Adapter
  - FTP-SSL and FTP-TLS
- JMS Adapter
  - Mapping of header correlation data and Header based sync / async bridge
- Mail Adapter:
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- IDoc Adapter
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### ■ Conversion Agent (New)

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- Enhanced Test & Simulation of Message Processing
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Also  
available  
in '04  
SPS12/13

Also  
available  
in '04  
SPS11-13

Also  
available  
in '04  
SPS12/13

## Enabling Business-to-Business Processes - General:

### ■ Operations (Enhanced)

- Embedded Process Integration capabilities with 'powered by ' Applications
- Enhanced monitoring options
  - CCMS Alert Monitor per Adapter Engine
  - Payload search based on TRES
- Archiving
  - Enable single version archiving to reduce data volume
- Security
  - Enhanced Runtime Authorizations (Sender Business Service & System, message execution, adapter level)

Also  
available  
in '04  
SPS12/13



# IT Scenario: Developing, Configuring, and Adapting Applications

# IT Scenario: Enabling Platform Interoperability

## IT Practices

## IT Scenarios

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	ESA Design and Deployment	Enabling Enterprise Services					

**This IT Scenario consists of eight variants:**

## **Leveraging Java 2 Platform, Enterprise Edition (J2EE) standards for porting and adopting applications**

- **Port applications easily to SAP NetWeaver that conform to the Java 2 Platform, Enterprise Edition (J2EE) standard**

## **Creating composite applications**

- **Build and deploy composite applications on top of the service operations**
- **Combine these service operations with new application logic, user interfaces, and business process orchestration.**
- **Loosely coupled to the components on which they are based**

## **Developing Java applications using Web Dynpro**

- **A model-driven and code-driven environment to easily and flexibly configure and adapt J2EE-based SAP-delivered applications**
- **Develop, model, and configure custom J2EE-based applications from scratch**

## **Developing ABAP applications using Web Dynpro**

- **A model-driven and code-driven environment for developing Web applications using Web Dynpro in the ABAP environment**

### **Developing, Configuring, and Adapting Applications**

- **Creating Java Applications Using Web Dynpro**
- **Leveraging J2EE Standards for Porting and Adopting Applications**
- **Creating Composite Applications**
- **Creating ABAP Applications Using Web Dynpro**

## Creating applications using SAP NetWeaver Visual Composer

- A model-driven environment for developing, configuring, and adapting custom applications

## Creating portal applications using the portal development kit for .NET

- A model-driven and code-driven environment for developing, configuring, and adapting .NET-based applications

## Developing mobile applications for occasional connection

- Disconnected mobile applications using the mobile development kit within the SAP NetWeaver Developer Studio tool.
- A code-driven environment for developing custom applications.
- Also development of connected mobile applications using a model-driven and code-driven environment

## Creating business applications using ABAP

- Create business applications using ABAP and the ABAP workbench

### Developing, Configuring, and Adapting Applications

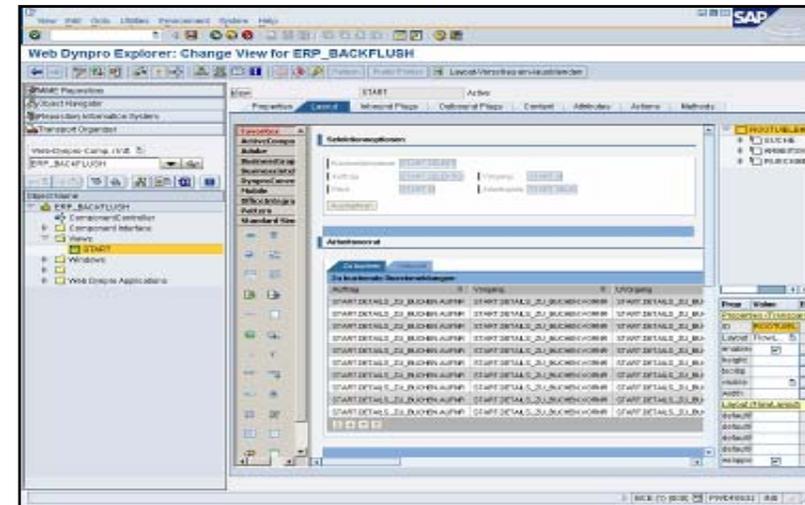
- Creating Business Applications Using ABAP
- Creating Applications Using SAP NetWeaver Visual Composer
- Creating Portal Applications Using the .NET Portal Development Kit
- Developing Mobile Applications for Occasional Connection

## Developing ABAP applications using Web Dynpro

### Benefits:

- **UI Development directly in the ABAP application server capabilities**
  - Web enabling of existing business functionality (similar to J2EE solution)
  - Full integration into the ABAP development environment
- **Design as much as possible, program as little as necessary**
  - Higher productivity through declarative approach to modeling instead of programming layout, screen usage, navigation and data binding
  - Future safe UI definitions (layout and behavior), which are independent of the currently used rendering and display technology
- **Reduced development efforts**
  - Reusable components
  - Predefined UI elements
- **Flexibility**
  - highly adaptable and configuration capabilities
  - Dynamic programming of generic UIs
- **Tight integration into the Portal Capabilities of SAP NetWeaver**

Only  
available  
in 2004s



**SAP NetWeaver 2004s makes it possible to develop Web Dynpro applications in ABAP. Web Dynpro for UIs can now be developed directly in the application's ABAP development system.**

**This includes for example:**

Only  
available  
in 2004s

- **Access to business logic via clearly defined APIs based on Web Services, BAPIs, ABAP Objects, RFCs or function modules.**
- **Structuring large software projects into clear-cut packages and Web Dynpro Components**
- **Including special client technology to address small devices, interactive forms, and offline scenarios**
- **Using integrated tools development environment**
- **Publishing into the Portal capabilities with minimal effort by adding it as an iView to Portal roles and pages**
- **Managing the complete software life-cycle by the help of the SAP NetWeaver Development Infrastructure**

## Creating composite applications

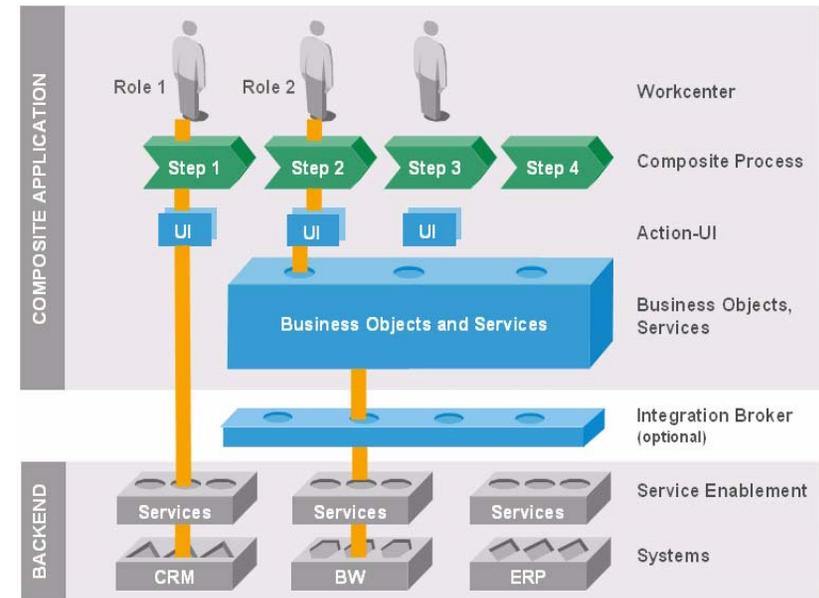
### Benefits:

- Composite applications leverage services and data from existing applications to initiate new business practices
- They provide a holistic view on processes, data and information, facilitating user interaction and collaboration
- The SAP Composite Application Framework (SAP CAF) allows to follow a model-driven, pattern-based approach to all layers relevant for the composite application development

### New Features:

- Special support of the three layers of a composite application, the services, the user interfaces, and the processes.
- Provision of patterns and templates at all three levels to increase development efficiency and the homogeneity of the application.
- Model- and code-generation based methods using tools that place the models in their own meta models of a repository

Only  
available  
in 2004s



## Developing business logic with ABAP – enhancement framework

### Benefits:

- Enhancements simplify locating where to extend the SAP solution in a predefined way.
- Enhancements are fully integrated in the Object Navigator of the ABAP Workbench.
- Different types of enhancements are managed in a generic way.
- Enhancements reduce the need for modifications.

Only  
available  
in 2004s

### New Features:

- Search and identify places for enhancement in the application
- Implement the enhancement with the ABAP Workbench
- Use ABAP Objects technology to validate the contract between application and enhancement
- Test and upgrade the enhancement

## Developing Java applications using Web Dynpro

Only  
available  
in 2004s

### Benefits:

- **Design as much as possible, program as little as necessary**
  - Higher productivity through declarative approach to modeling instead of programming layout, screen usage, navigation and data binding
- **Reduced development efforts thanks to reusable components**
- **Cutting-edge efficiency for Java development through full integration into the NWDI**
- **Tight integration into the Portal capabilities of SAP NetWeaver**
- **Customers can be sure they create a future-proof set of applications because of Web Dynpro's mandatory separation between UI logics and business logic, which is completely in line with SAP's Enterprise Service-Oriented Architecture (Enterprise SOA) concept.**

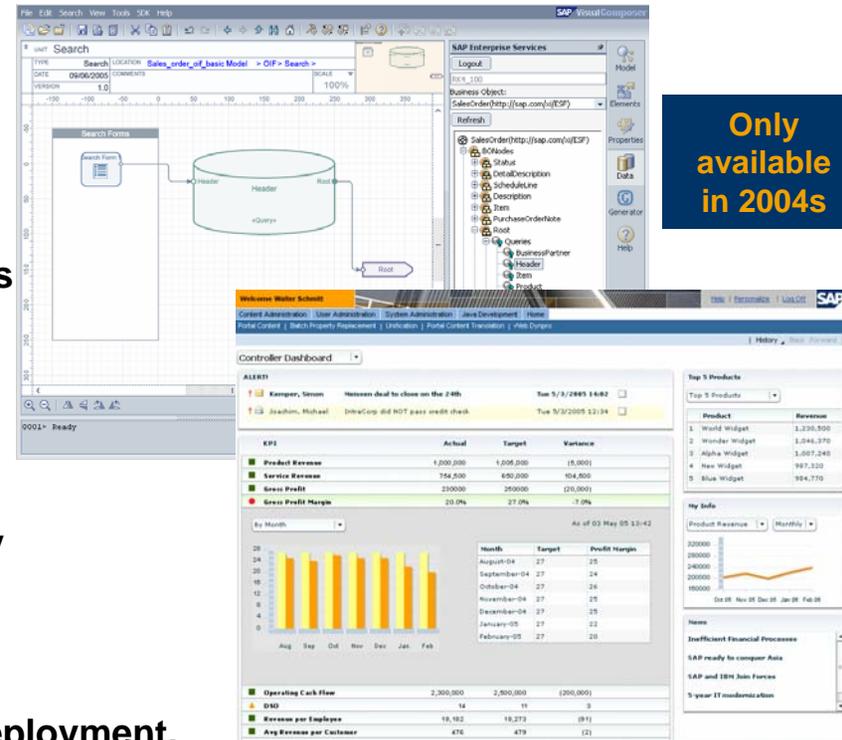
### Enhanced Features:

- **Role-based UI personalization for end user**
- **Client independency**
- **Single client accessing both Web-Dynpro-based applications and ABAP Dynpros**
- **Mobile Web Dynpro support**
  - e.g., BlackBerry wireless handheld, Pocket PC and the Nokia 80-series
- **Interoperability**
- **Web Dynpro can navigate to an application based on different technology (such as JSF) and return afterwards**

## Creating applications using SAP NetWeaver Visual Composer

### Benefits:

- **Reduced total cost of ownership (TCO)**
  - minimizing the effort to create applications
  - allowing reuse of already existing applications
  - reducing costs for maintenance
- **Rapid application development and prototyping**
- **Enabling business process experts to easily build applications**
- **Powerful design tool**
  - facilitates the creation of content for Portal deployment, using modeling capabilities and a visual user interface rather than manually writing code
- **Provides sophisticated, yet simple-to-use tools for creating portal iViews that process data from back-end systems, including SAP and third-party enterprise systems**
- **Fully Web-based application allowing (virtual) teams to easily build or customize pages and iViews as needed, accessing the software from virtually any machine worldwide**



Only available  
in 2004s

Only  
available  
in 2004s

## Enhanced Features:

### ■ Support for SAP Analytics:

- Visual Composer is the main tool for modeling analytic applications.

### ■ Support for Flex UI and Web Dynpro:

- Visual Composer now supports Adobe Flex/Flash and Web Dynpro runtimes.

### ■ Connectivity to Non-SAP applications:

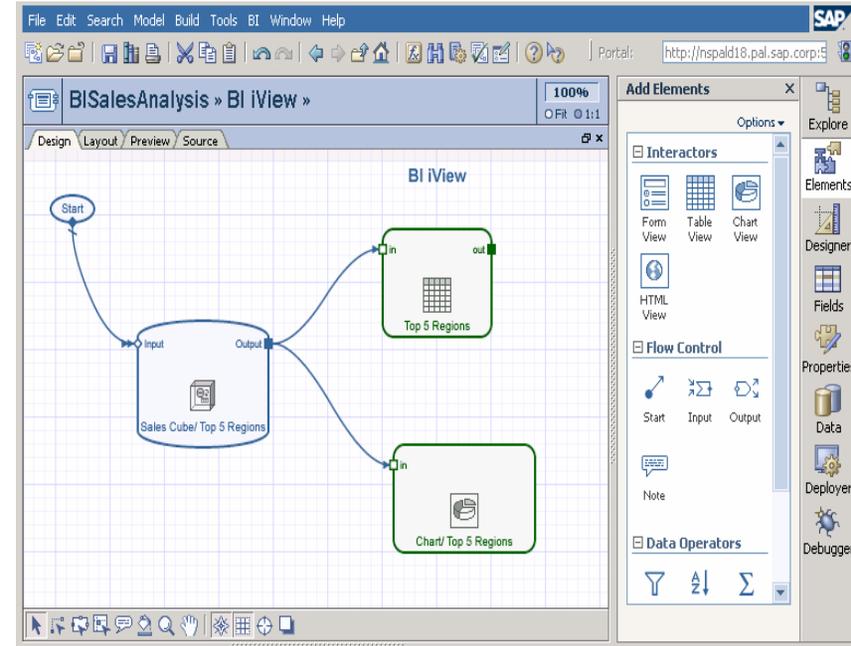
- By means of connectors provided by our partner iWay Visual Composer can now access the first Non-SAP systems (PeopleSoft, Siebel).

### ■ Completely running on the Java Stack:

- Visual Composer now runs completely on the AS JAVA usage type of the Application Server capabilities of SAP NetWeaver.

### ■ Support for Web services:

- It is now possible to connect to Web service repositories, in order to discover and incorporate Web services into the Visual Composer models.





# IT Scenario: Enabling Platform Interoperability

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## IT Practices

## IT Scenarios

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**Interoperability** is the ability of two or more systems or components to exchange information and to use the information that has been exchanged.

- **SAP NetWeaver offers interoperability, openness, and extensibility in the areas of people-, information-, process- and application integration.**

**This IT scenario covers the most important standards and technologies that are relevant in the interoperability context and includes 4 variants for SAP NetWeaver 2004s.**

## Enabling Platform Interoperability

- Enabling Coexistence of Several Portals
- Ensuring Application-to-Application and Business-to-Business Integration
- Providing Web Services Interoperability
- Managing Heterogeneous System Landscapes

## Enabling coexistence of several portals

- **Leveraging two portals to combine content between Portal capabilities of SAP NetWeaver and a non-SAP portal technology.**
- **Combine portal assets:**
  - e.g. when customers already have an up and running portal and this needs to be interoperable with the Portal capabilities of SAP NetWeaver .
- **One of the portal needs to take the role of the leading portal and in any case interoperability on several areas needs to be ensured:**
  - **SSO, user management, appropriate granularity of access in combination with central concepts for navigation and look & feel.**
- **Support of Web Services for Remote Portlets (WSRP)**
  - **WSRP could be leveraged to primarily consume non-SAP portal content within the portal capabilities of SAP NetWeaver**
  - **Custom developments or third-party developments based on WSRP can easily be integrated**
- **SSO between SAP NetWeaver and IBM WebSphere enabled**
  - **Seamless access to content no matter which portal it resides on**

Also available in '04

Only available in 2004s

Only available in 2004s

## Ensuring A2A and B2B integration

- **Extending B2B and A2A scenarios - across messaging technologies and product boundaries.**
- **Interoperability on the messaging and process integration level is enabled by supporting several standards (e.g. SOAP, JMS)**
  - **enables collaborate with other solutions in the market (Microsoft Biztalk and IBM WebSphere) which can play an important role in our customers' landscape**

Also available in '04

## Providing Web Services Interoperability

- Providing Enterprise / Web Services interoperability with third party components to enable service oriented solutions.
- Web Services and the respective support in application server technologies are prerequisite to ensure interoperability for providing and consuming Web Service enabled interfaces across different application platforms.

Also  
available  
in '04

## Managing heterogeneous system landscapes

- Complement SAP NetWeaver's capabilities with market leading System Management tools in the areas like Identity and Access Management, Monitoring, Provisioning and Orchestration, Scheduling etc.
- Leverage and integrate SAP applications in IT system landscapes incl. solutions from 3rd party vendors, and combine these assets together with SAP NetWeaver for holistic planning and administration

Also  
available  
in '04



# IT Scenario: Software Life-Cycle Management

# IT Scenario: Software Life-Cycle Management

## IT Practices

## IT Scenarios

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- **Software Life-Cycle Management provides the abilities to:**
  - **Manage SAP software in production system landscapes by performing implementation tasks such as planning changes, implementing new systems, copying existing systems, or enabling the creation and propagation of changes in the landscape**
  - **Maintain software by applying support packages and corrections or by upgrading to new software versions**
  
- **The IT Scenario Software Life-Cycle Management has 2 variants**
  - **Implementation Support**
  - **Software Maintenance**

## Software Life-Cycle Management

- Implementation Support
- Software Maintenance

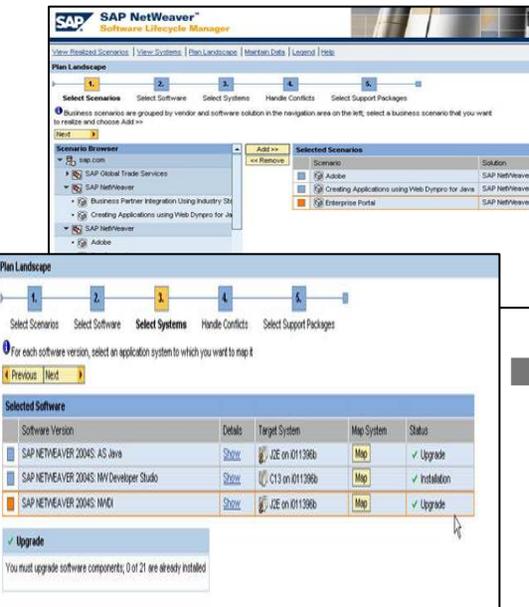


Only  
available  
in 2004s

## ■ Comprehensive Guidance

### ■ Best Practices and Pre-Configured Scenarios:

- Best Practices provided in form of documentation and pre-configured scenarios that make setup and maintenance of SAP system landscapes easier
- New functions for the implementation and configuration of Business Content
  - Automate cumbersome configuration steps
  - Result in accelerated implementation of business scenarios
- Improved Documentation and guides
  - Information required to understand and perform software life-cycle tasks (Master Guides, installation/upgrade guides, SP Stack Guide, target group/role-specific documentation, ...)



### ■ Tool Support for Landscape Planning and Visualization:

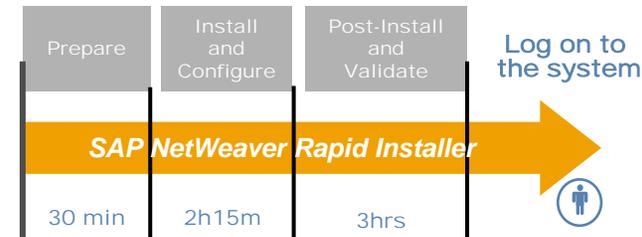
- Thorough planning is the basis for every software life-cycle task
  - Usually complex due to all the system interdependencies
  - Software Lifecycle Manager to support for planning and validation of software life-cycle tasks for Systems landscapes

Also  
available  
in '04 SPS13

## Simplified Implementation

### New Rapid Installer

- Simplified Installation wizard-based installation and configuration Process with Reduced Number of Manual Preparation and Installation Steps:
- Automatic validation of minimum technical installation prerequisites
- Standard installation mode with default values
- Enhanced help and handling



Only  
available  
in 2004s

### Simplified, Accelerated and Less Error-Prone Configuration:

- Central Technical Configuration (Template Installer) is a central, uniform and simple configuration tool
- Provides automated configuration based on templates for SAP NetWeaver usage types

Only  
available  
in 2004s

### Faster and Easier Upgrade Procedure:

- Continuous improvement to SAP's upgrade technology to deliver more robust and fast upgrade routines minimizing the production system outages
- Reliable and easy to use upgrade process lowers the overall risk of upgrade projects

Only  
available  
in 2004s

### Enhanced Coverage + Improved Procedure for System Copy and Migration:

- Systems with any SAP NetWeaver usage type can now be copied
- Database-specific procedures and advanced options integrated in copy procedure
- Incremental migration offers reduced downtime for very large ABAP systems

Only  
available  
in 2004s

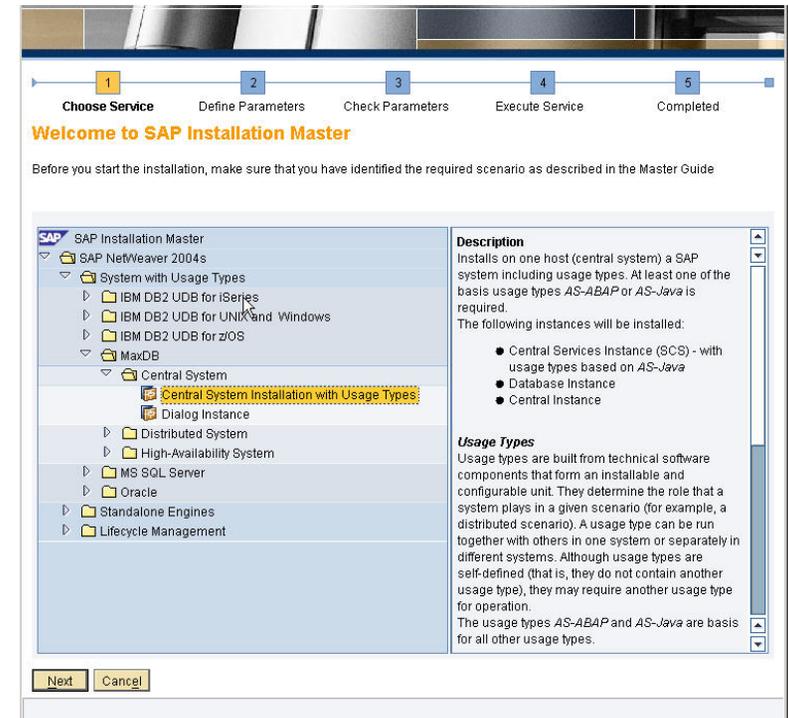
## Central Administration

### ■ Single Point of Control

- **SAP NetWeaver Development Infrastructure for central software change management covering the whole software lifecycle**
  - Centrally managing & guiding each single developer
  - Consistent deployment and propagation
- **System Landscape Directory of SAP NetWeaver as central information provider**
- **Software Lifecycle Manager of SAP NetWeaver for central planning and validation of software life-cycle tasks**

Only  
available  
in 2004s

### ■ SAP Recommended HA Setups Supported by SAP Installation Tool



## Up to date Processes

### ■ Ongoing Improvements to Adjust Business and IT Processes:

- SAP NetWeaver Development Infrastructure empowering Enterprise SOA-based application development. Enables fast adaptation and creation of applications.
- Guarantees processes from product definition to delivery and maintenance
- Ongoing improvements (in terms of usability, stability, performance, ...)
- Simplified installation procedure

Only  
available  
in 2004s

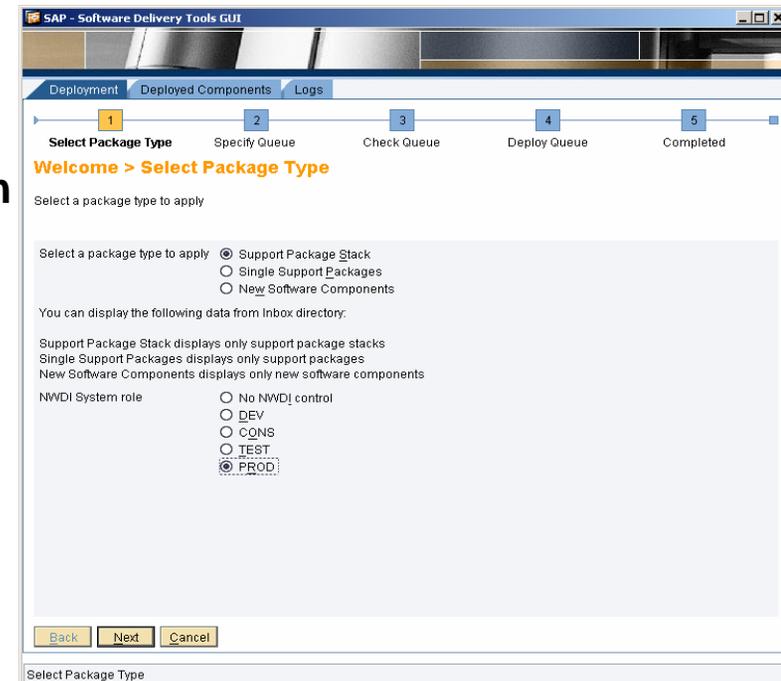
### ■ Maintain SAP Software simply and reliably:

- Apply fixes and software optimizations to keep it running smoothly
- Software Lifecycle Manager helps to plan and validate patch processes
- Provision of Unified patch implementation tool and process with Java Support Package Manager (JSPM):
  - Standard tool for the patching of all SAP Java components
  - Reduces runtime and downtime, prevents system damage and simplifies handling
- Note Assistant provides enhanced functions
- High availability support for patching

Also  
available  
in '04  
SPS13

Only  
available  
in 2004s

Only  
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# IT Scenario: SAP NetWeaver Operations

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## IT Practices

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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	
	Custom Development	Developing, Configuring, and Adapting Applications			Enabling Platform Interoperability		
	Unified Life Cycle Management	Software Life Cycle Management			SAP NetWeaver Operations		
	Application Governance and Security Mgt	Authentication and Single Sign-On			Integrated User and Access Management		
	Consolidation	Enabling Platform Interoperability	SAP NetWeaver Operations	Master Data Consolidation	Enterprise Knowledge Management	Enterprise Data Warehousing	
	ESA Design and Deployment	Enabling Enterprise Services					

- **SAP NetWeaver Operations provide the abilities to:**
  - *Efficiently run an SAP NetWeaver system landscape and ensure reliability* by optimizing performance, increasing system availability, support business application, legal compliance and security issues, ensure flexibility, and speed up administration and problem solving tasks
  - SAP NetWeaver Operations covers tools, tasks, and methods that focus on : *Monitoring, Administration, Data Archiving, and Adaptive Computing*
- **The IT Scenario *SAP NetWeaver Operations* has 4 variants:**

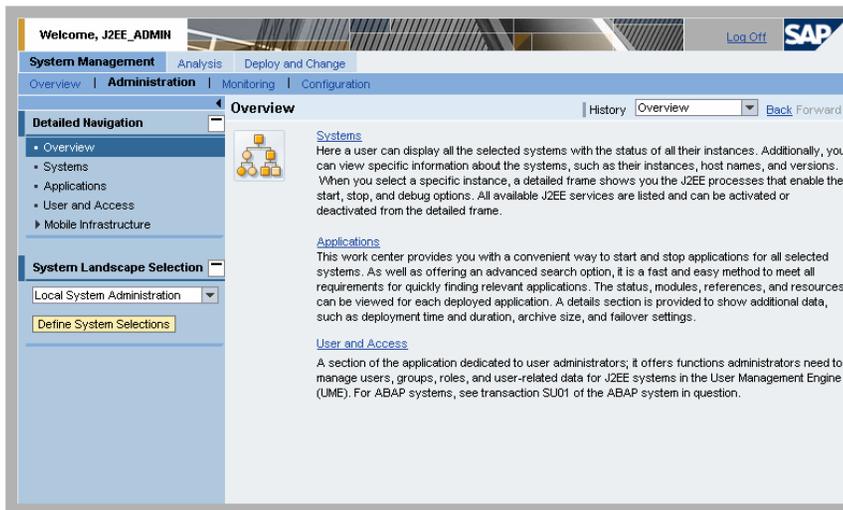
## SAP NetWeaver Operations

- Monitoring SAP NetWeaver
- Administering SAP NetWeaver
- Adaptive Computing
- Data Archiving

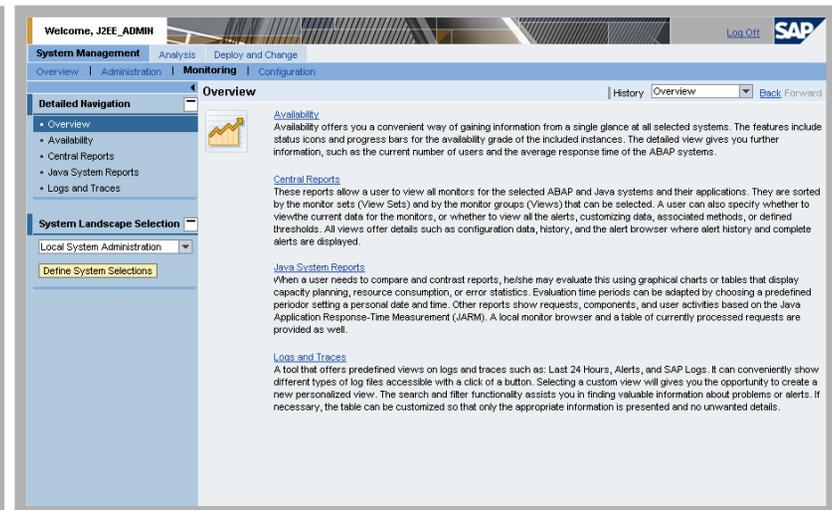
## ■ SAP NetWeaver Administrator tool

- Centrally administer and monitor SAP NetWeaver components of the system landscape
- SAP NetWeaver Administrator functionality covers
  - Administration, Monitoring, Reporting, Job Scheduling and Central Print Management for single instances or complete landscapes

Only  
available  
in 2004s



The screenshot shows the SAP NetWeaver Administrator interface in the Administration section. The top navigation bar includes 'System Management', 'Analysis', and 'Deploy and Change'. The main navigation tabs are 'Overview', 'Administration', 'Monitoring', and 'Configuration'. The 'Administration' tab is active, and the 'Overview' sub-tab is selected. The left sidebar contains a 'Detailed Navigation' menu with options like 'Overview', 'Systems', 'Applications', 'User and Access', and 'Mobile Infrastructure'. Below this is the 'System Landscape Selection' section, currently set to 'Local System Administration'. The main content area displays the 'Overview' page, which includes sections for 'Systems', 'Applications', and 'User and Access'. The 'Systems' section provides a summary of selected systems and their instances, while the 'Applications' section offers a convenient way to start and stop applications. The 'User and Access' section is dedicated to user administration functions.



The screenshot shows the SAP NetWeaver Administrator interface in the Monitoring section. The top navigation bar is the same as in the Administration view. The main navigation tabs are 'Overview', 'Administration', 'Monitoring', and 'Configuration'. The 'Monitoring' tab is active, and the 'Overview' sub-tab is selected. The left sidebar contains a 'Detailed Navigation' menu with options like 'Overview', 'Availability', 'Central Reports', 'Java System Reports', and 'Logs and Traces'. Below this is the 'System Landscape Selection' section, currently set to 'Local System Administration'. The main content area displays the 'Overview' page, which includes sections for 'Availability', 'Central Reports', 'Java System Reports', and 'Logs and Traces'. The 'Availability' section provides a convenient way of gaining information from a single glance at all selected systems. The 'Central Reports' section allows users to view all monitors for the selected ABAP and Java systems. The 'Java System Reports' section provides a tool for comparing and contrasting reports. The 'Logs and Traces' section offers predefined views on logs and traces.

- **Data Archiving provide functionality to effectively manage data along its entire life cycle, achieve system load reduction, and support the implemented legal compliance strategy**
- **Enhanced and new Data Archiving methods offer**
  - **Enhanced legal compliance support**
    - Archive Routing - a new function to route archived data to separate content repositories; supports end-of-life of data
    - XML-based archiving – new standards-based archiving technology for ABAP and JAVA applications
  - **Enhanced Analysis and Monitoring Tools**
    - New more optimized table analysis functions offered in transaction TAANA
    - New more sophisticated and user-friendly logs and statistics functions
  - **Enhanced Data Archiving and Access Functions**
    - Cross-Archiving-Object Check/Delete function
    - New function module for archive access
  - **Enhanced Near-Line Storage support for BI Capabilities of SAP NetWeaver – Enterprise Data Warehousing**
    - Integrated near-line storage support for infrequently read large volume data stores
    - Implemented via open API, so customers can choose their near-line storage vendor

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in 2004s

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# IT Scenario: Authentication and Single Sign-On

# IT Scenario: Authentication and Single Sign-On

## IT Practices

## IT Scenarios

	User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
	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	Enterprise Knowledge Management	Enterprise Search	
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	Unified Life Cycle Management	Software Life Cycle Management			SAP NetWeaver Operations		
	Application Governance and Security Mgt	<b>Authentication and Single Sign-On</b>			Integrated User and Access Management		
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	ESA Design and Deployment	Enabling Enterprise Services					

- **The IT Scenario Integrated User and Access Management is part of the IT Practice Application Governance and IT Security.**
- **As system landscapes become more diverse and expansive-- customers depend on SSO to help streamline administrative efforts and drive the most value out of the powerful technology already at work in their enterprise.**
- **Integrated User and Access Management contains 2 Variants:**

## Authentication and Single Sign-On

- Authentication Using a Directory with SSO Integration Using SAP Logon Tickets
- ▶ Single Sign-On Based on Security Assertion Markup Language (SAML)

- Available with SAP NetWeaver 2004s and '04
- ▶ Available with SAP NetWeaver 2004s only
- Future Focus

## Authentication Using a Directory with SSO Integration Using SAP Logon Tickets

### ■ Stronger password control in ABAP-based applications

- Password length up to 40 digits
- Lower and upper case passwords
- Password history with up to 1,000 entries

Only  
available  
in 2004s

## Single Sign-On Based on Security Assertion Markup Language (SAML)

### ■ Only SAML client for authentication available at destination site (AS Java based applications)

- Support limited in SAP NetWeaver 2004s
  - Browser artifact scenario supported
  - The received assertion may only contain one authentication statement
  - The authentication statement must contain the NameIdentifier
  - AuthorizationDecisionStatement and AttributeStatement are ignored
  - Digital signatures for SOAP documents are ignored
  - No support for additional “Condition” elements
- SAML will be further developed and delivered on an ongoing basis

Only  
available  
in 2004s



# IT Scenario: Integrated User and Access Management

# IT Scenario: Integrated User and Access Management

## IT Practices

## IT Scenarios

	User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search
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- **This IT Scenario covers managing the entire lifecycle of a user**
  - **This begins with creating the user account and moves on to provisioning the user to different backend systems, including giving the user the corresponding access rights.**
  - **The user and access management lifecycle ends when a user no longer works with the company and thus all of his accounts must be locked or de-provisioned.**
- **Integrated User and Access Management contains 2 variants:**

## Integrated User and Access Management

- Integrated User and Access Management that Includes a Third-Party Directory Server
- Integrating User Management and Access Management

## Integrating User Management and Access Management

### ■ New User Interface for User Management Engine (UME)

- Web Dynpro-based
- More intuitive user interface and administration

Only  
available  
in 2004s

### ■ New authorization concept for BI capabilities of SAP NetWeaver

- Fine granular security concept
- Increased ease of use and administration for complex security

Only  
available  
in 2004s

## Information Sources for SAP NetWeaver 2004s

- SAP NetWeaver  
<http://service.sap.com/netweaver>
- SAP Developers Network  
<http://sdn.sap.com>
- Upgrade Technology Tools  
<http://service.sap.com/upgradetech>
- SAP NetWeaver 2004s Release documentation  
[http://help.sap.com/saphelp\\_nw2004s/helpdata/en/index.htm](http://help.sap.com/saphelp_nw2004s/helpdata/en/index.htm)
- SAP NetWeaver 2004s Master Planning guides  
<http://service.sap.com/instguides>
- New Release Strategy  
<http://service.sap.com/releasestrategy>
- Release Notes  
<http://service.sap.com/releasenotes>
- Online Help  
<http://help.sap.com>

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