



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



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Key changes with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Functional Deltas

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

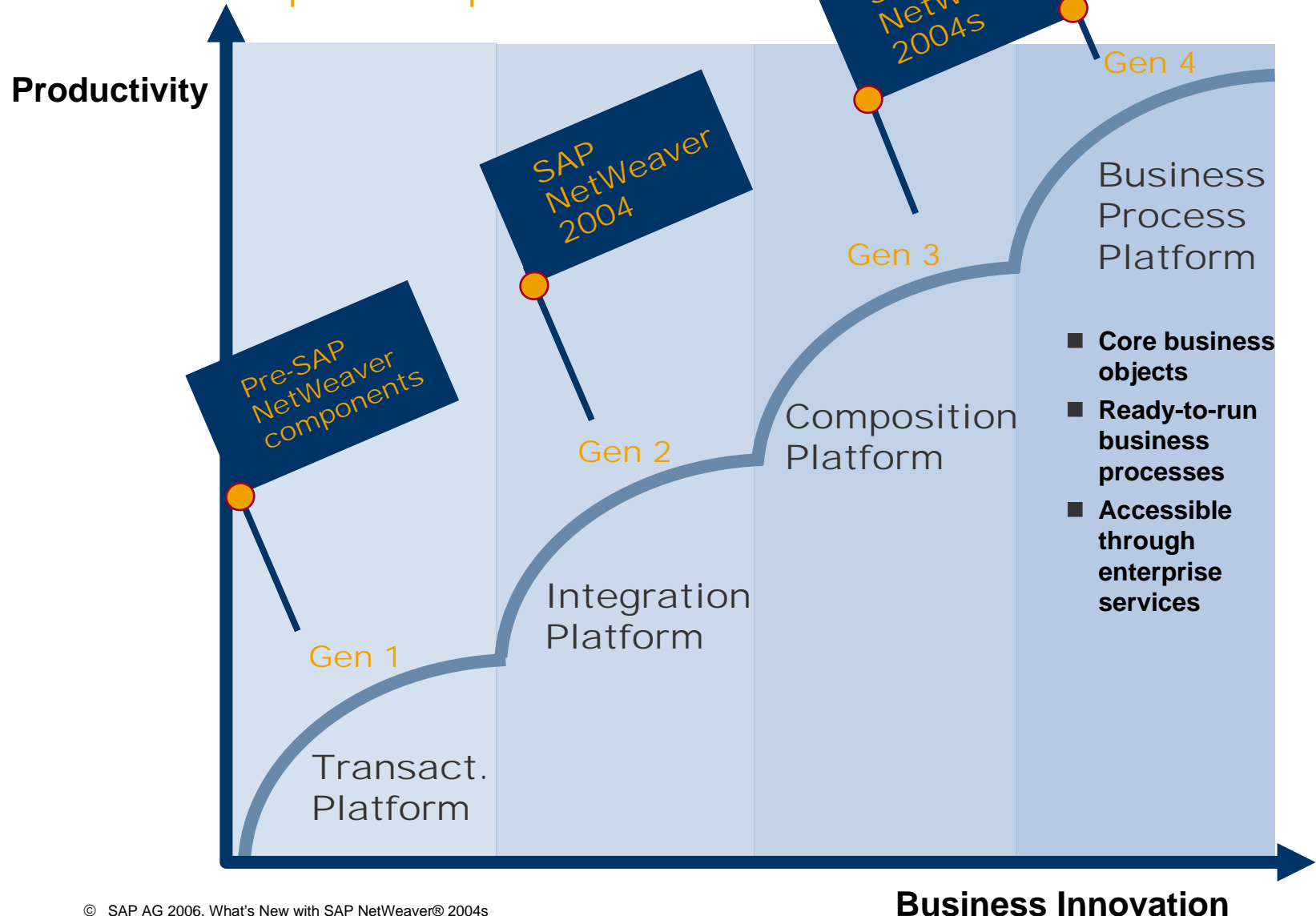
- Open application development providing the capability to integrate SAP and non-SAP applications
- Simplified model-driven development
- Guaranteed Interoperability due to standards adherence

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





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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*

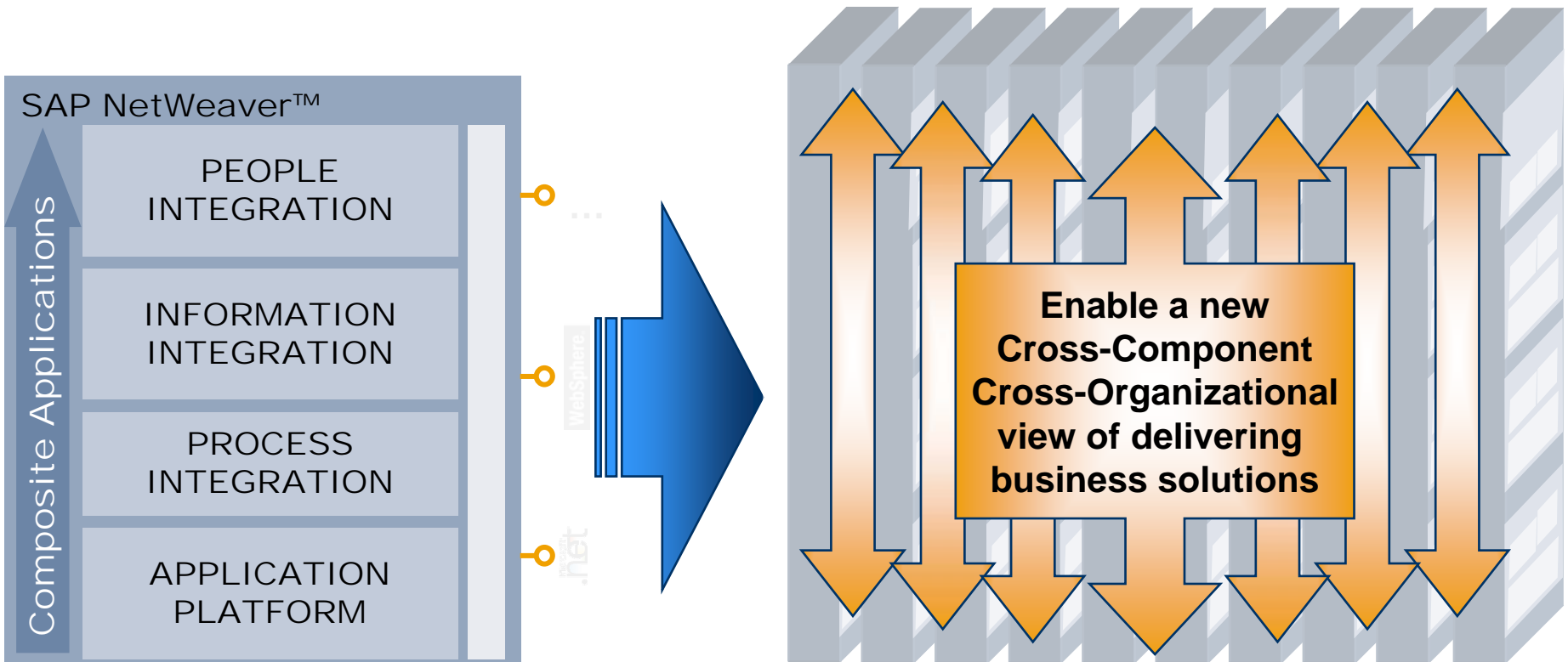
One platform – one release number
SAP NetWeaver 200x

*- 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



Key changes with SAP NetWeaver® 2004s:

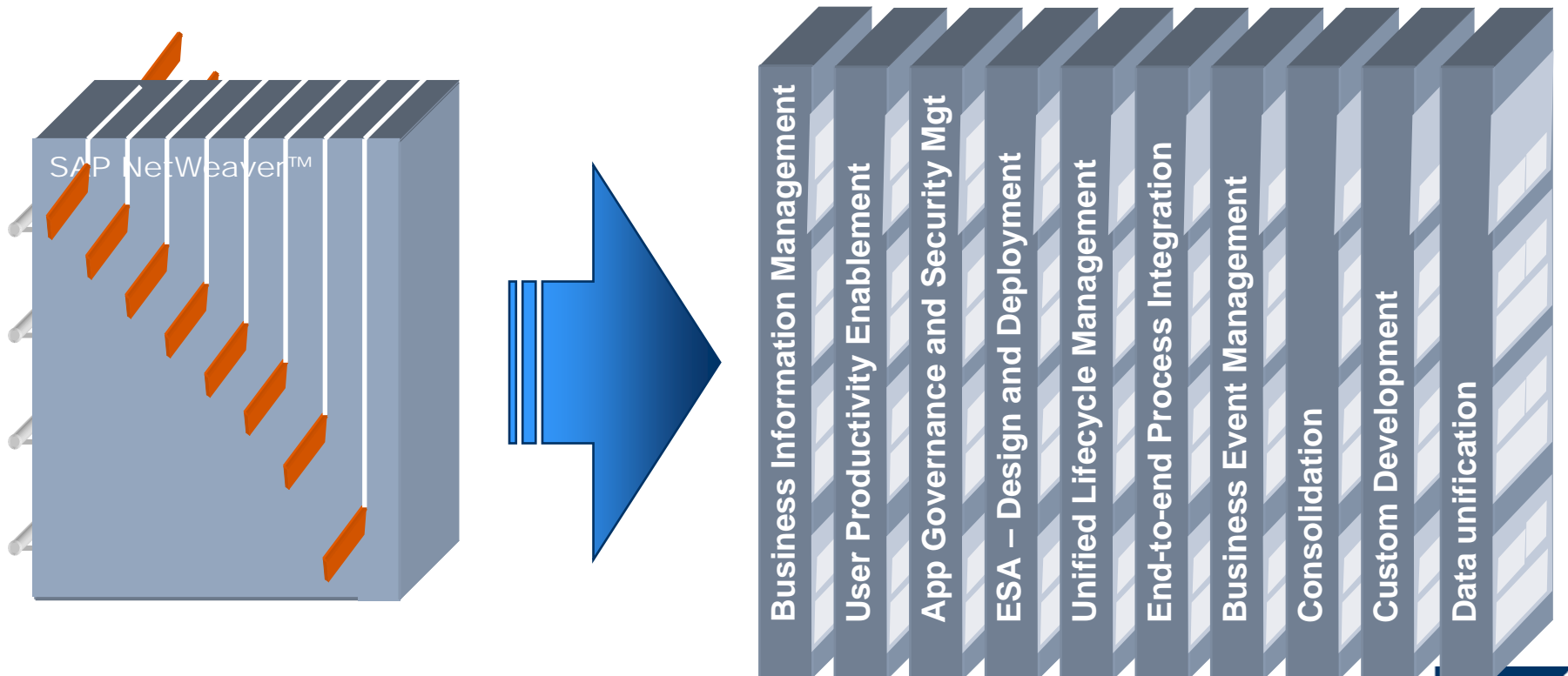
IT Practices - Alignment of IT and business processes

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



Key changes with SAP NetWeaver® 2004s:

IT Practices - Alignment of IT and business processes

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

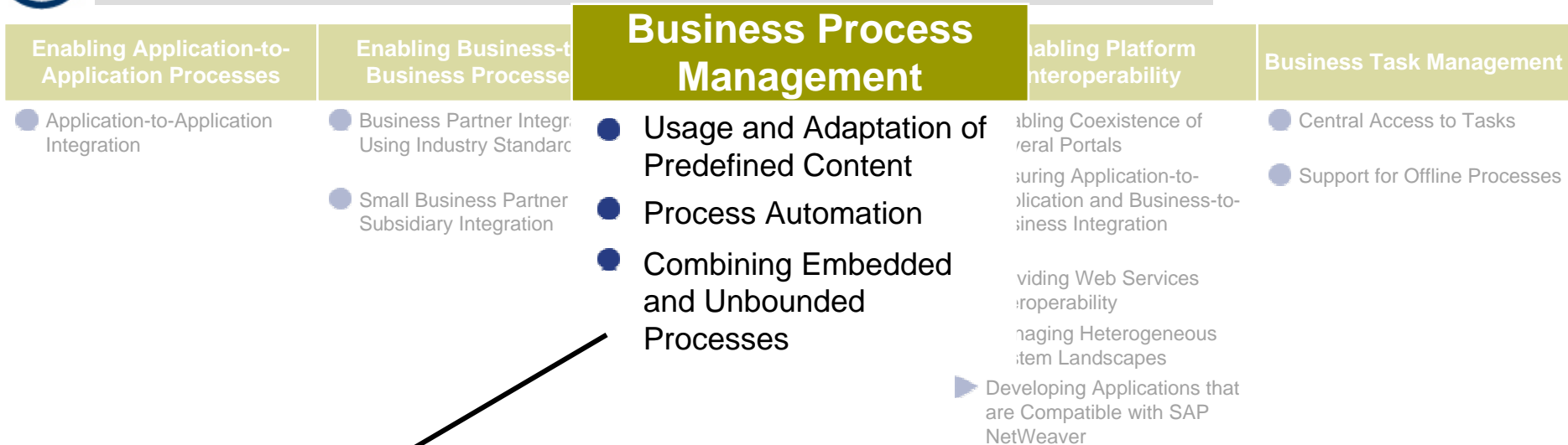
Business Task Management

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...

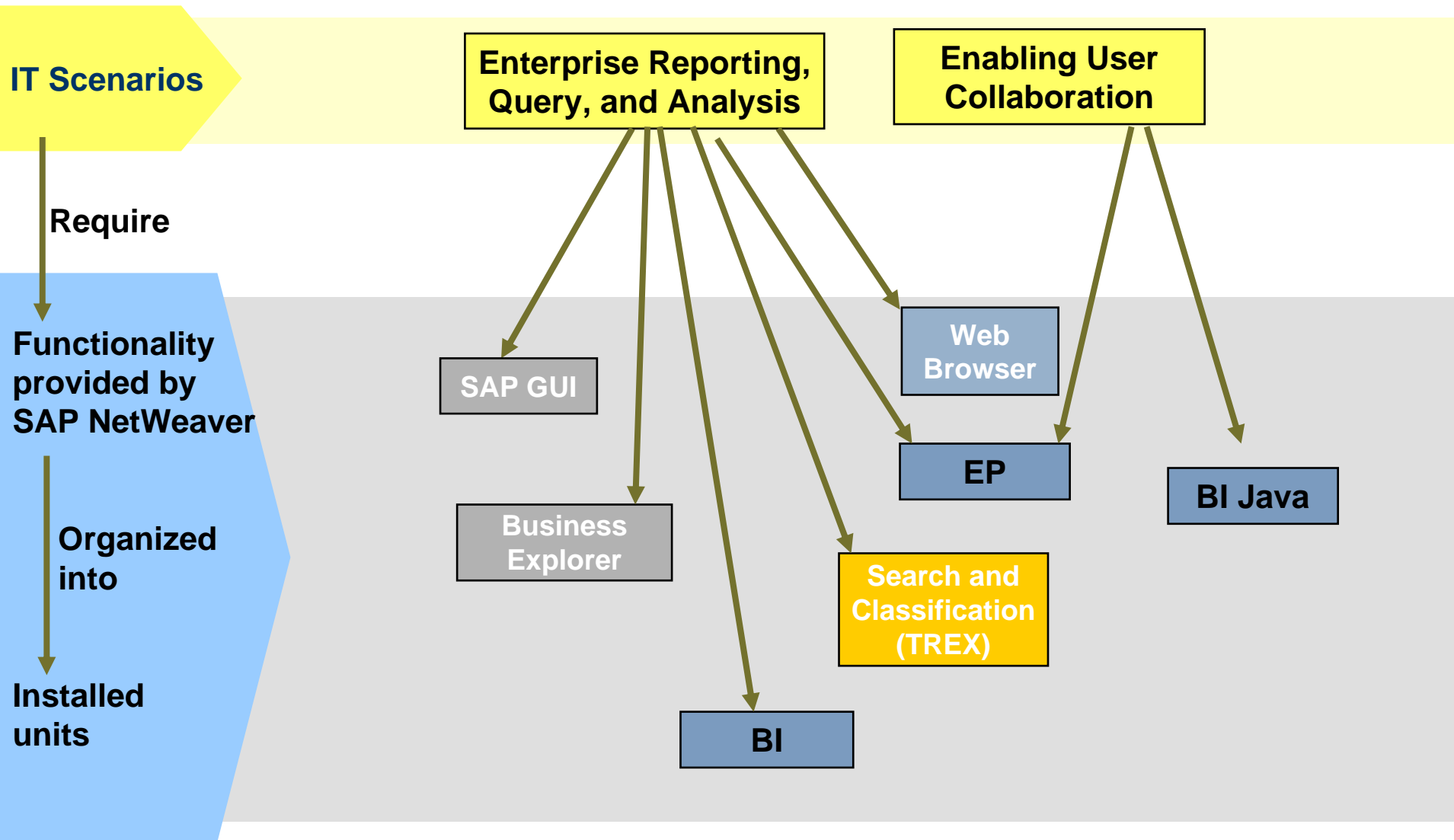
IT Practice

IT Scenarios

Previous Components

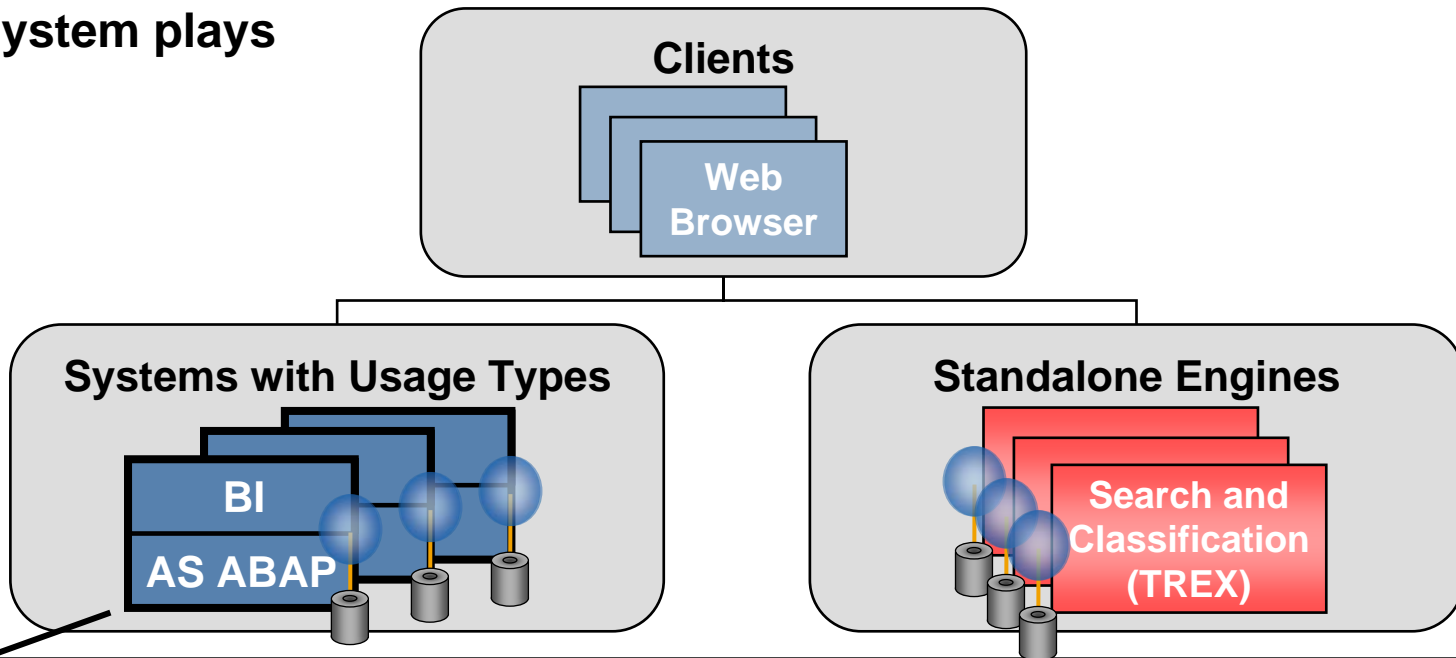
User Productivity Enablement	Running an Enterprise Portal	Enabling User Collaboration	Business Task Management	Mobilizing Business Processes	Enterprise Knowledge Management	Enterprise Search	EP	KMC	WebAS		
Data Unification	Master-Data Harmonization		Master-Data Consolidation		Central Master-Data Management		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

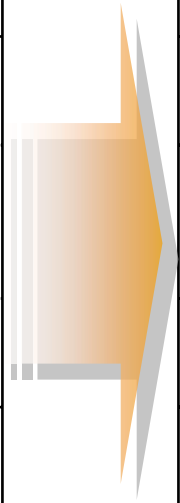
***Reduced number of
Standalone Engines according
to enhanced definition**

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)



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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

The screenshot shows the SAP Library web interface. The top navigation bar includes links for SAP Library, Getting Started, Glossary, Help on Help, Feedback, Survey, Discussion, and 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.

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 sidebar to the detailed view of this section on the right. The detailed view includes a title, a 'Use' section, and a 'Changes to Documentation in SAP NetWeaver 2004s' section.

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

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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:

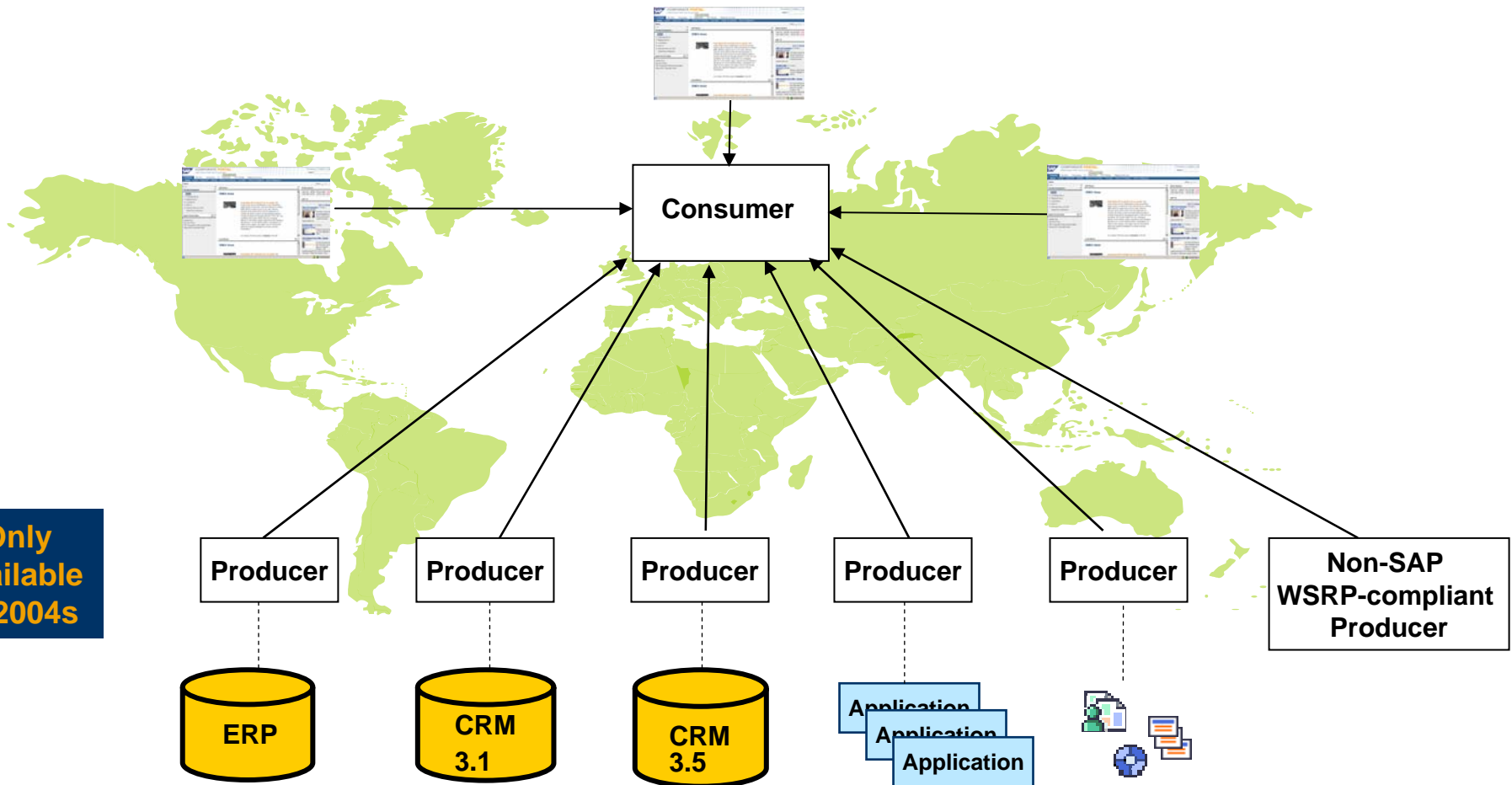
- **Providing uniform content access**

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
Light framework page	A one frame page built of HTML controls	Improved client performance Support of Web-site like behavior (Browser functionality, Search engine indexing, etc.)
Navigation features	Server side caching, Quick links, Hashed URLs.	Improved client performance improved Web-site like behavior
Tag Libraries	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, the 'Support Platform Plug-ins' tree is expanded to 'Enterprise Portal' > 'Content Reports' > 'Creation Time - Created During'. The 'Tasks' panel on the right includes buttons for '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 states: 'List all objects that have been created during a specific time period, under a specific PCD location.' The 'Plug-in Results' tab 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 ...

The 'The Complete Result' section shows the raw data output:

```

***** 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

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

Workset	Portal Content
User Admin	<i>Activity Reports</i>
Content Admin	<i>Monitoring → Activity Reports</i>
System Admin	<i>Activity Reports</i>

Activity Reports

Number of Users in the Last 3 Hours

Download Report

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

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Portal Activity Report - Number of Users Who Logged On

10 Most Active Users

Download Report

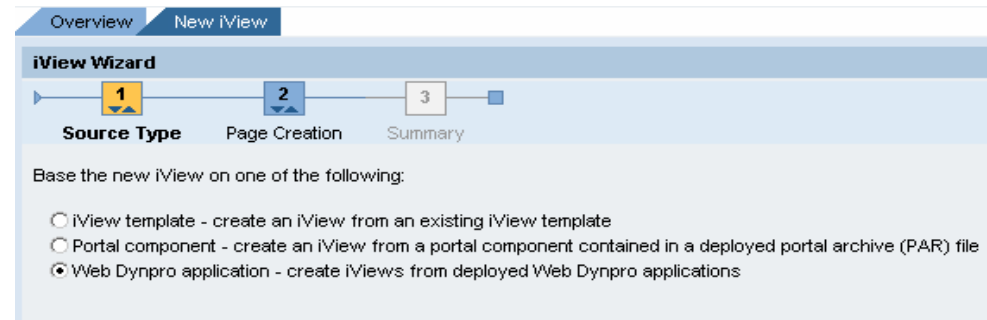
First Logon Time	ID	Type	Hits
19. Okt 2005 09:46 (GMT)	Richter	Authenticated	638
19. Okt 2005 09:56 (GMT)	Administrator	Authenticated	94
19. Okt 2005 09:56 (GMT)	Richter_Test	Authenticated	79

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Status of Activity Reporting

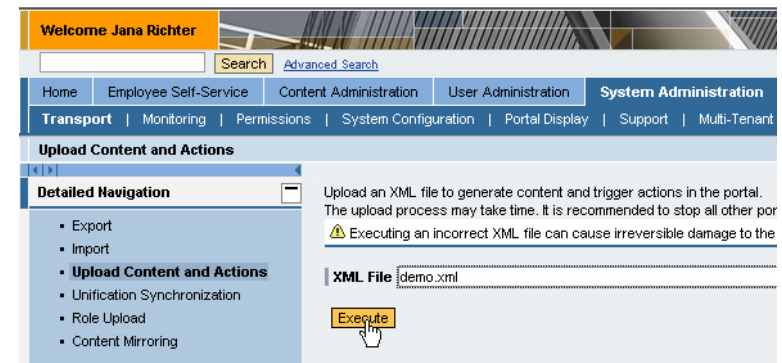
■ More comprehensive and user-friendly **administration user interfaces** (based on Web Dynpro):

- 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















IT Scenario: Enterprise Knowledge Management

IT Scenario: Enterprise Knowledge Management

IT Practices

IT Scenarios

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	ESA Design and Deployment	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**

Also
available
in '04
SPS11

■ Recent Notifications in the Universal Worklist

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

■ Inheritance of the Versioning Settings When Creating New Folders

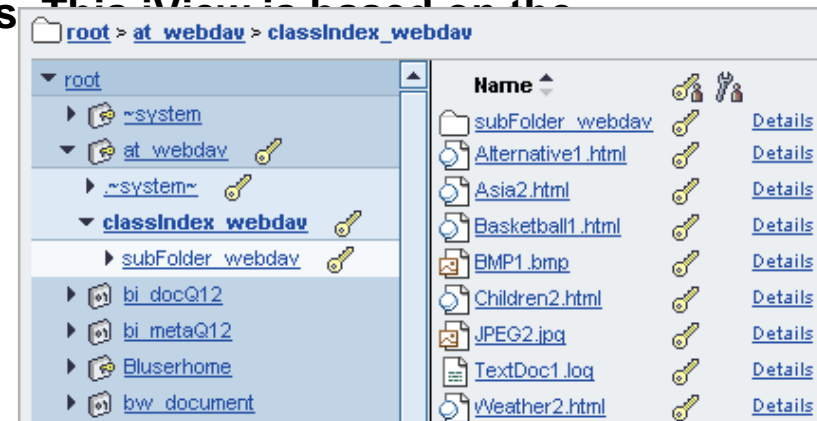
- Previously, individual activation and versioning for each folder was required.
- When new folders are created, they adopt the versioning setting of the superordinate folder. This means that if versioning is active in the superordinate folder, it is also active in the new folders.

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

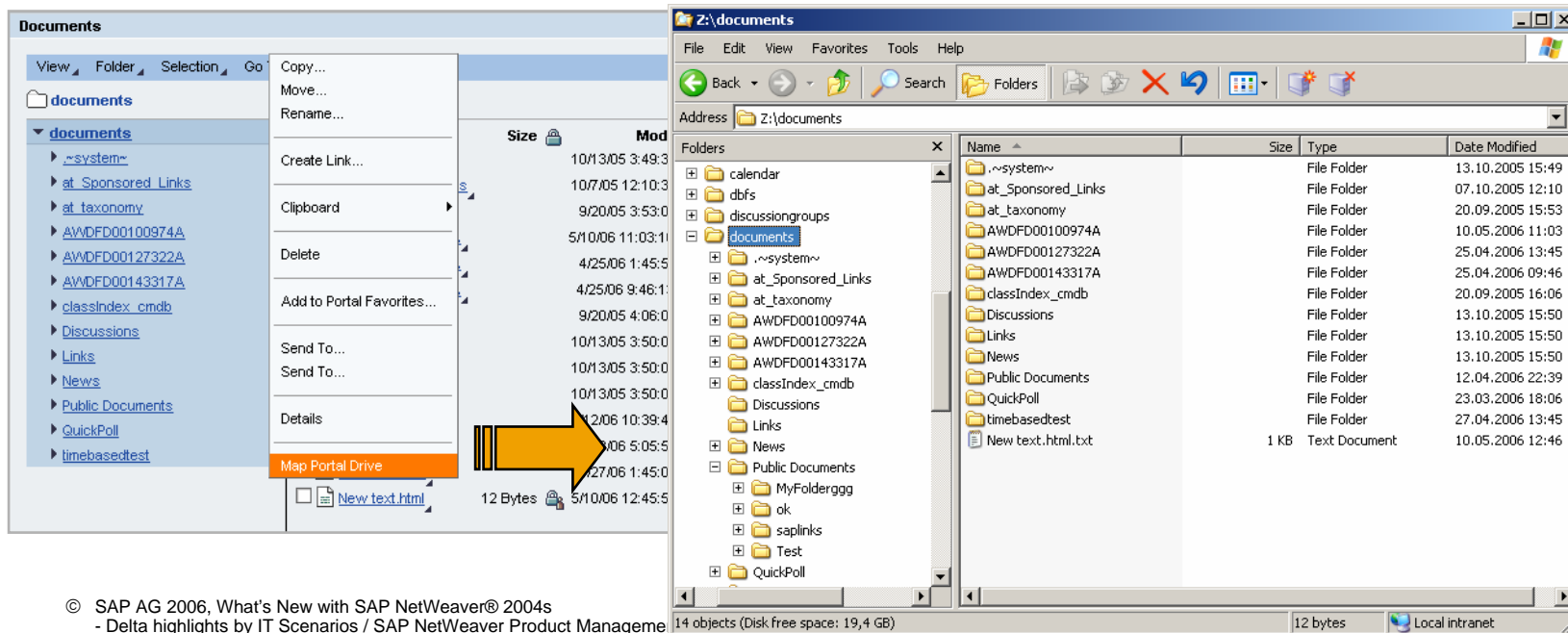


■ Portal Drive

- 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

■ 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



■ 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

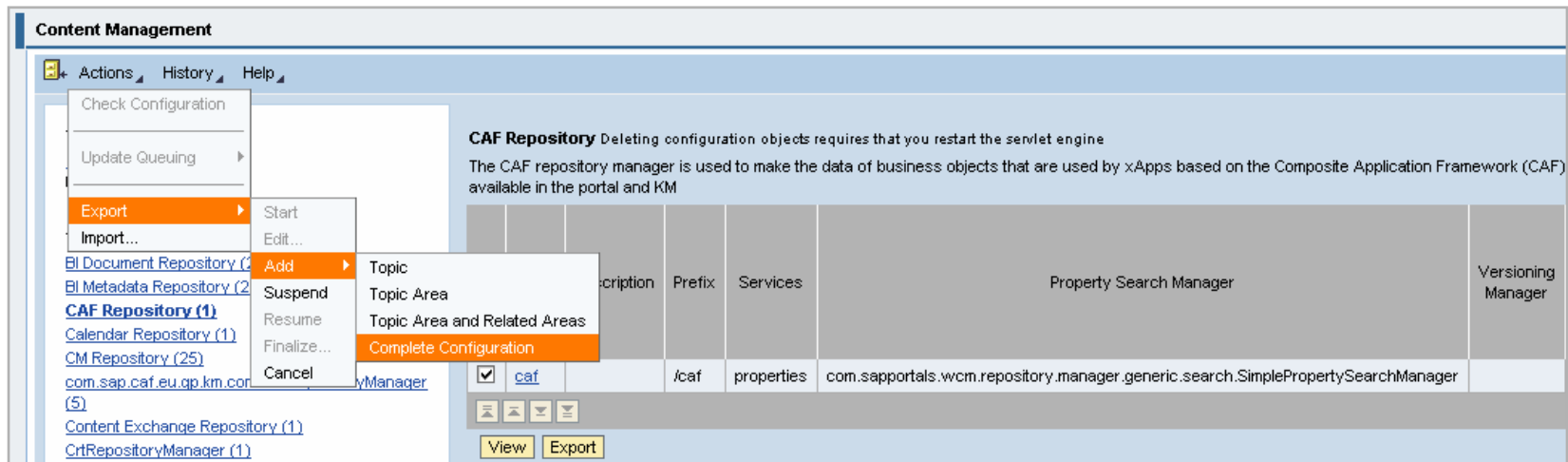
View "pcdrepository"

Description description	PCD Repository		
Prefix (must start with /) * prefix	/pcd		
Repository Services services	<table><thead><tr><th>Name</th></tr></thead><tbody><tr><td>Not set</td></tr></tbody></table> <div>Page 1 / 1</div>	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.



■ 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.

Properties

Name : Objects per Page:

<input type="checkbox"/>	Unique ID	Description	Property ID	Namespace Alias
<input type="checkbox"/>	app_people_contact_person_dscr	Contact person	app_people_contact_person_dscr	col
<input type="checkbox"/>	app_people_contact_person_dscr_2	Contact person	app_people_contact_person_dscr	default
<input type="checkbox"/>	app_planned_date	Planned date	app_planned_date	col
<input type="checkbox"/>	app_status	Status	app_status	col
<input type="checkbox"/>	app_time	Time	app_time	col
<input type="checkbox"/>	at_class_date	Property of type date for testing classification	at_class_date	default
<input checked="" type="checkbox"/>	at_class_location	Property of type String for testing classification for winrunner tests	at_class_location	default
<input checked="" type="checkbox"/>	at_class_manager	Property of type user for testing classification	at_class_manager	default

Export metadata definitions

Exporting metadata definitions stores the information needed to later recreate the metadata properties.

■ 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.

ITelO IVO FlexTop Search Show Options

Search Results For *ITelO IVO FlexTop* Items All Sort By Relevance

Mobile Computing Solution Providers Market.doc Open Folder | See Also | Details

65% ... including handheld devices for mobile applications **ITelO** www.itelo.com IVO Series, **FlexTop**, Basic, Standard,... Wireless phones/mobile computing devices **Itelo** Evo Series, Zayo...

Hicks, Maria 161,5 KB 4/24/06 2:34:36 PM HTML Version

Laptop Product Information
Get an overview of ITelO's laptop offering

FlexTop I9100
Room for Product Team FlexTop I9100

■ 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.

■ 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
SPS12

Also
available
in '04
SPS14

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.

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

<ul style="list-style-type: none"> ▼ Content Administration <ul style="list-style-type: none"> ▶ Consistency Checks ▪ Mass Operations ▶ Security ▶ Tools ▶ User related Cleanup 	<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Copy</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>Start Schedule More ▾</p> </div> </div>	<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Delete</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>Start Schedule More ▾</p> </div> </div>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

■ 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.

■ 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
SPS11

Also
available
in '04
SPS11

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

Report	ACL permissions
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: *	Public Doc ACLs <input type="text"/>
<div>Scope Parameter</div>	
Enter parameters for report.	
With Explicit Permissions:	<input checked="" type="checkbox"/>
With Inherited Permissions:	<input type="checkbox"/>
Without Permissions:	<input type="checkbox"/>
With User Names:	<input type="checkbox"/>
<input type="button" value="Verify"/>	

■ 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

	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					

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 a user named Susan Summer. The top navigation bar includes links for Collaboration, Search, and Advanced Search. Below this, a menu bar lists various business areas: Company, Business Area, Mailbox, Collaboration, Marketing, Accounts and Products, Marketing Activities, Marketing Analytics, and Business Explorer. The main content area is titled 'Contacts' and features a 'Detailed Navigation' sidebar with links to Overview, Contacts, FAQ, Documents, Calendar, Tasks, Analytics for Event Management, Product Information for Events, Room Maintenance, and SAP Member Usage Analysis. The 'My Rooms' section shows a search bar and a diagram of event-related rooms: Event Marketing, Global Mobile Congress, Xbit, and Field Kick Off Meeting. The main content area displays the 'Xbit 2006 Event' page, which includes a header with the '@Xbit' logo and a section titled 'The Event Organization Team' with the text 'Get to know the people that will make ItelO's presence at Xbit 2006 a great success!'. Below this, there are sections for 'Event Manager' (Susan Summer, Project Leader Xbit 2006 Preparation) and 'Team' (David Andrews, Paul Collins, Franco Fall, each with a brief description of their responsibilities).

■ 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: Template:

Name	Locked	Owner	Created	Last Visit	Private
Americas Field Kick Off Meeting 2006		Brehm, Sibylle	11/9/05	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	✓
cFolder integration		Summer, Susan	4/12/05	5/22/06	
test		Summer, Susan	4/12/05	5/16/06	
See, what we are doing		Summer, Susan	4/12/05	5/16/06	
Event Operations Meeting		Summer, Susan	4/11/05	5/22/06	
Coordination Meeting of the Event Marketing		Summer, Susan	9/7/04	5/16/06	
Event Organization - Xbit 2006		Summer, Susan	7/28/04	8/19/05	
Please find here information about our Xbit 2006 preparation.		Summer, Susan	7/28/04	8/16/05	
Field Kick Off '05 - Americas		Summer, Susan	4/14/05	8/16/05	
Event		Hicks, Maria			
FlexTop i6300c Redesign Group		Hicks, Maria			
Project Team for redesign of FlexTop i6300c according to feedback from user grou...		Hicks, Maria			
FlexTop i9100 Product Team		Summer, Susan			
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: Owner as ID: ☐

Category: Template:

Name	Room Type	Locked	Hidden	Full Access	Owner	Created
<input type="checkbox"/> Collaborative Procurement with SAP Ne...	Restricted			✓	Miller, Helen	Oct 1, 2004 10:13 PM
<input type="checkbox"/> Computer Fair 2003	Restricted		✓		Summer, Susan	Sep 7, 2004 9:08 AM
<input type="checkbox"/> Computer Fair 2004	Restricted		✓		Summer, Susan	Sep 7, 2004 9:06 AM
<input type="checkbox"/> Computer Fair 2005	Restricted				Temporary User_2	Jan 27, 2005 11:28 AM
<input type="checkbox"/> CuitDiff	Restricted			✓	Hamed, Tessa	Jul 13, 2004 5:27 PM
<input type="checkbox"/> Cyvus Project Planning	Restricted				Whyte, Julia	Mar 25, 2005 11:27 PM
<input type="checkbox"/> 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

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

General	Parameters	Members	Room Parts	Page Permissions
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.				
Page Permissions				
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

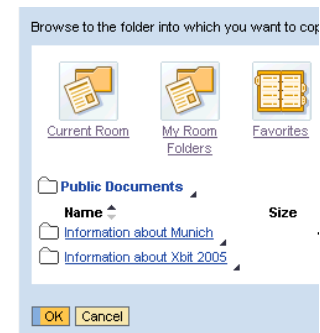
- The system attaches a copy of the document to the e-mail to be sent.

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		
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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					

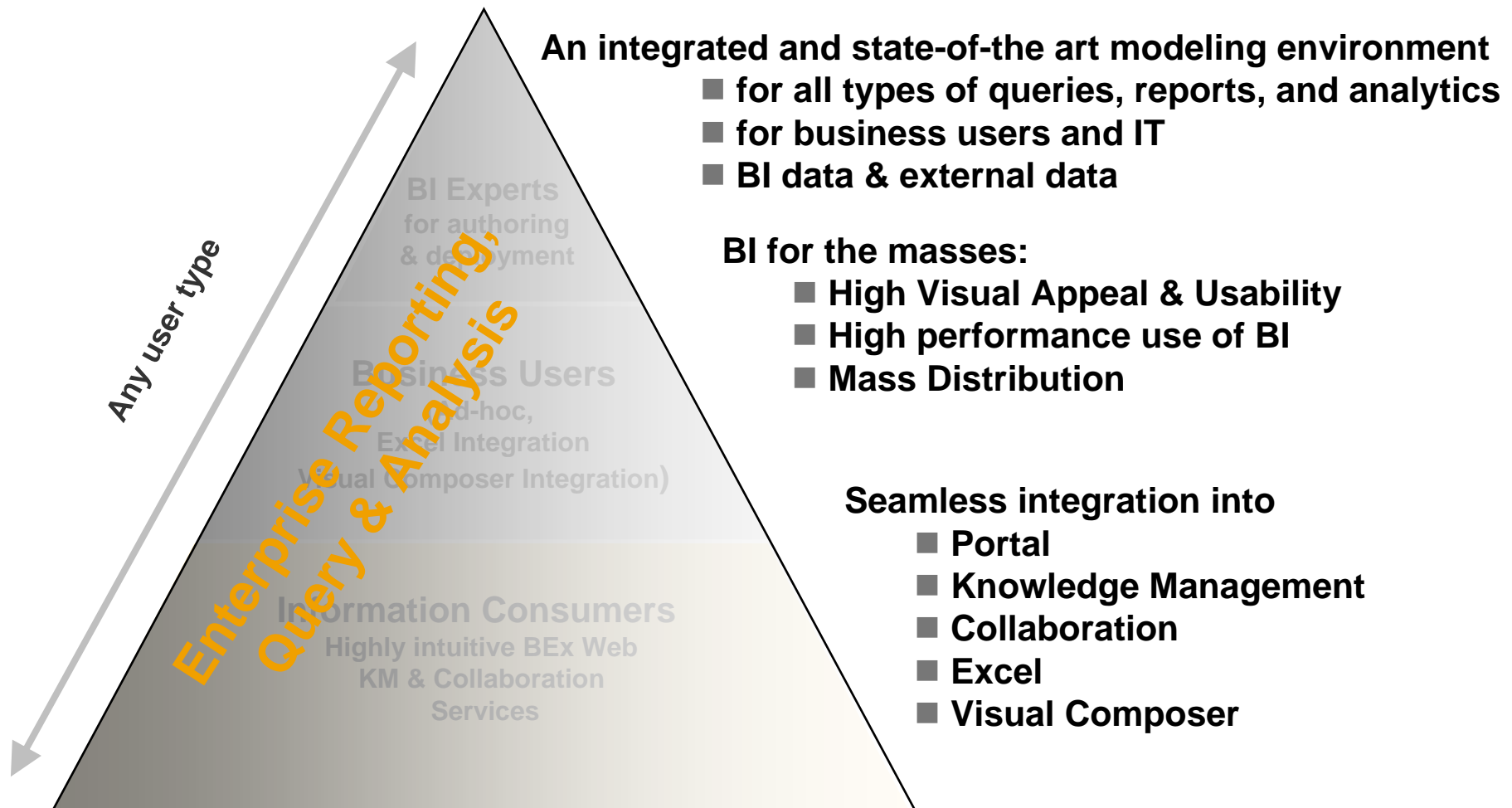
- **Enterprise Reporting, Query and Analysis provides processes and services to meet the needs of all business user with regards to information consumption. This covers reporting, ad-hoc query, interactive analysis, dashboards, and embedded BI, from both a design time and runtime perspective**
- **The 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

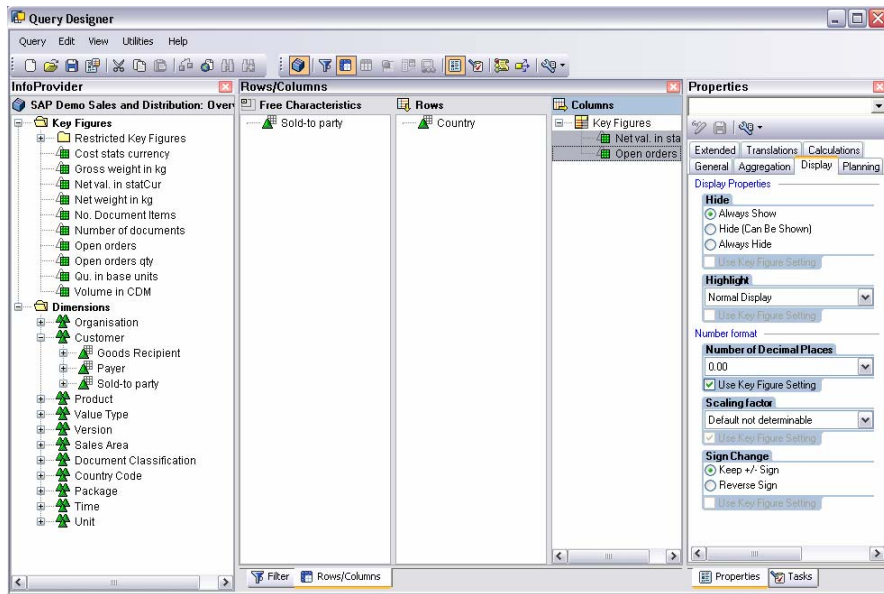
- Enterprise Reporting, Query and Analysis
- Excel Integration
- Ad hoc Query
- Information Broadcasting
- ▶ Modeling Business Intelligence Data with SAP NetWeaver Visual Composer

- **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:



Designing a Query



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

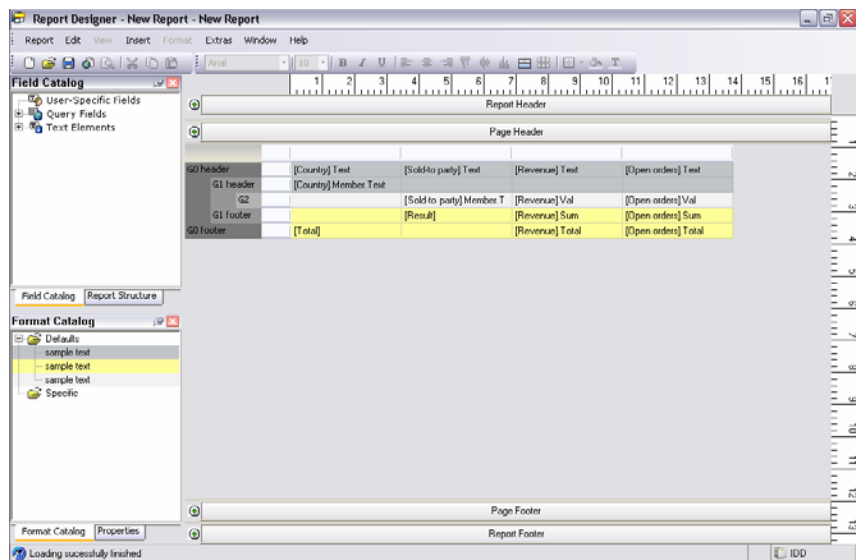
■ State-of-the-art UI concept, providing for example:

- 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

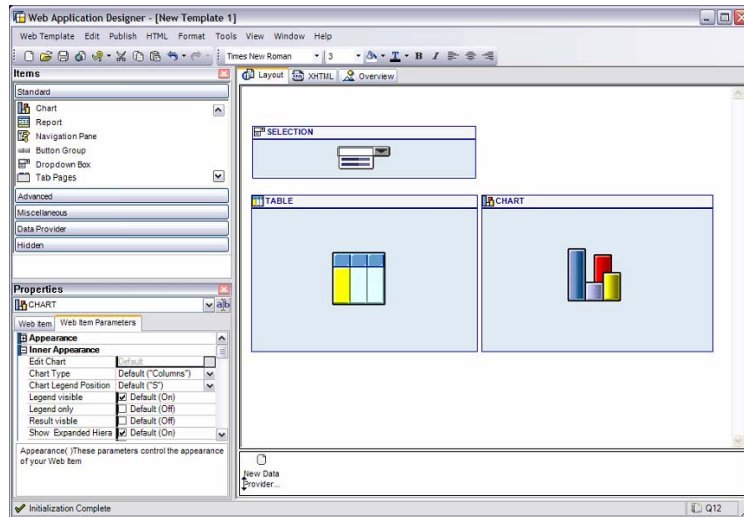
Designing a Report



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	138,971	210,800	-0

Column 1 of 6

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																																																				
<div>Chart</div> <div>Filter</div> <div>Info</div>																																																				
<div>Sales Group</div> <div>Sales organization</div> <div>Division</div> <div>Company code</div> <div>Product</div> <div>Goods Recipient</div> <div>Sold-to party</div> <div>Country</div> <div>Distribution channel</div> <div>Key Figures</div>		<table> <tr> <th>Country</th><th>Distribution channel</th><th>Number of documents</th></tr> <tr> <td rowspan="4">Australia</td><td>Direct Sales</td><td>380.000</td></tr> <tr> <td>Final Customer Sales</td><td>358.000</td></tr> <tr> <td>Internet Sales</td><td>376.000</td></tr> <tr> <td>Service</td><td>381.000</td></tr> <tr> <td rowspan="3">Canada</td><td>Final Customer Sales</td><td>2,724.000</td></tr> <tr> <td>Internet Sales</td><td>2,556.000</td></tr> <tr> <td>Service</td><td>96.000</td></tr> <tr> <td rowspan="4">Germany</td><td>Direct Sales</td><td>6,480.000</td></tr> <tr> <td>Final Customer Sales</td><td>8,400.000</td></tr> <tr> <td>Internet Sales</td><td>16,020.000</td></tr> <tr> <td>Service</td><td>2,610.000</td></tr> <tr> <td rowspan="2">France</td><td>Final Customer Sales</td><td>14,768.000</td></tr> <tr> <td>Internet Sales</td><td>13,174.000</td></tr> <tr> <td rowspan="4">Great Britain</td><td>Direct Sales</td><td>1,624.000</td></tr> <tr> <td>Final Customer Sales</td><td>20,340.000</td></tr> <tr> <td>Internet Sales</td><td>630.000</td></tr> <tr> <td>Service</td><td>1,476.000</td></tr> <tr> <td rowspan="2">USA</td><td>Final Customer Sales</td><td>38,652.000</td></tr> <tr> <td>Internet Sales</td><td>15,114.000</td></tr> <tr> <td colspan="2">Overall Result</td><td>146,159.000</td></tr> </table>	Country	Distribution channel	Number of documents	Australia	Direct Sales	380.000	Final Customer Sales	358.000	Internet Sales	376.000	Service	381.000	Canada	Final Customer Sales	2,724.000	Internet Sales	2,556.000	Service	96.000	Germany	Direct Sales	6,480.000	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	Overall Result		146,159.000
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Workbook Design

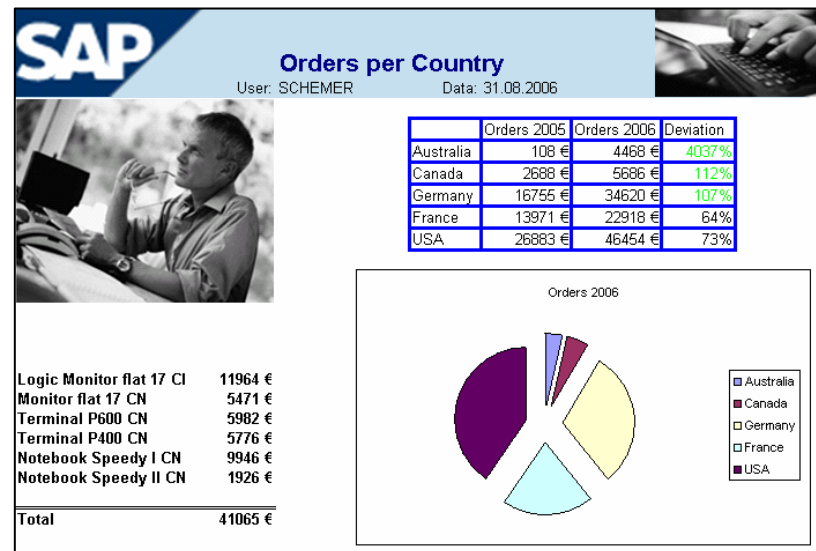
- Application-building in Excel (similar to Web Application Designer)
- Excel Formulas allow access to any cell of the result set
- Excel Formatting options can be fully leveraged for BEx Workbooks (e.g. blank lines, fonts etc.)
- Combining Excel Formulas and Excel Formatting allows the design of High-End 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

	Variance in Mio EUR			Variance in %		
	vs Last Cycle	vs Previous year	vs Budget	vs Last Cycle	vs Previous Year	vs Budget
	Year to Date					
Total Revenues	39.7	39.7	58.3	4.9 %	4.9 %	7.4 %
Total Net Sales	37.7	37.7	57.4	4.7 %	4.7 %	7.3 %
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 %
Total Other Revenues From Indirect Sales	2	2	0.9	59.7 %	59.7 %	19.0 %
Revenues From Indirect Sales Royalties	0.5	0.5	0.2	22.7 %	22.7 %	6.2 %
Revenues From Tele Sales	1.4	1.4	0.5	100.0 %	100.0 %	58.5 %
Other Revenues From Indirect Sales	0.1	0.1	0.2	10.9 %	10.9 %	18.2 %
Total Costs	-46.3	-46.3	-30.5	-11.4 %	-11.4 %	-7.3 %
% of Sales						
Total Costs for Production	-47.1	-47.1	-30.5	-12.1 %	-12.1 %	-7.5 %
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 %
Total Other Related Costs	0.8	0.8	0.2	5.3 %	5.3 %	-0.2 %
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						
Gross Profit	-6.6	-6.6	27.8	-1.6 %	-1.6 %	7.6 %



Additional new broadcasting features include:

■ New Object Types

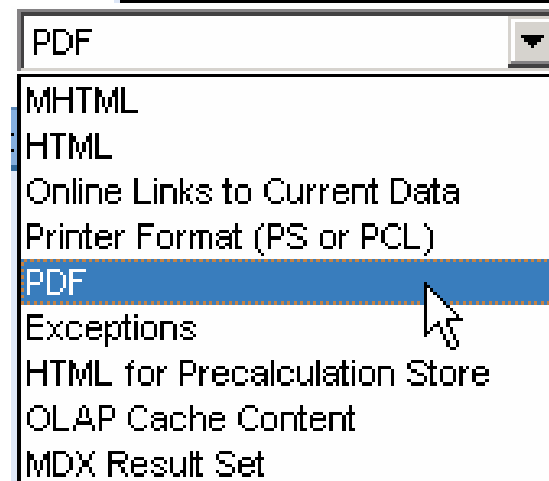
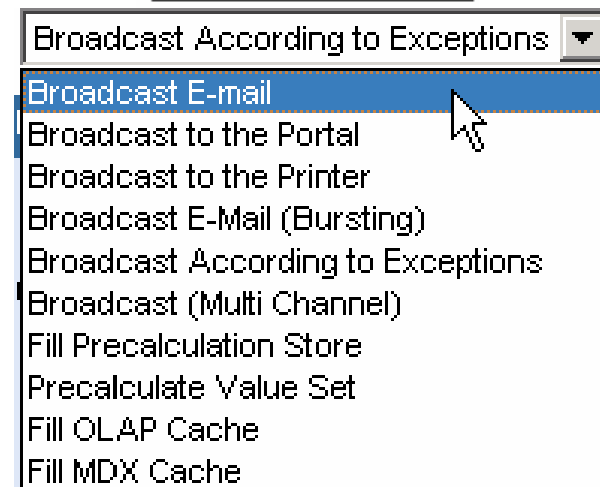
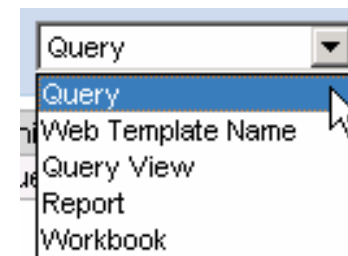
- Query Views
- Formatted Reports

■ 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

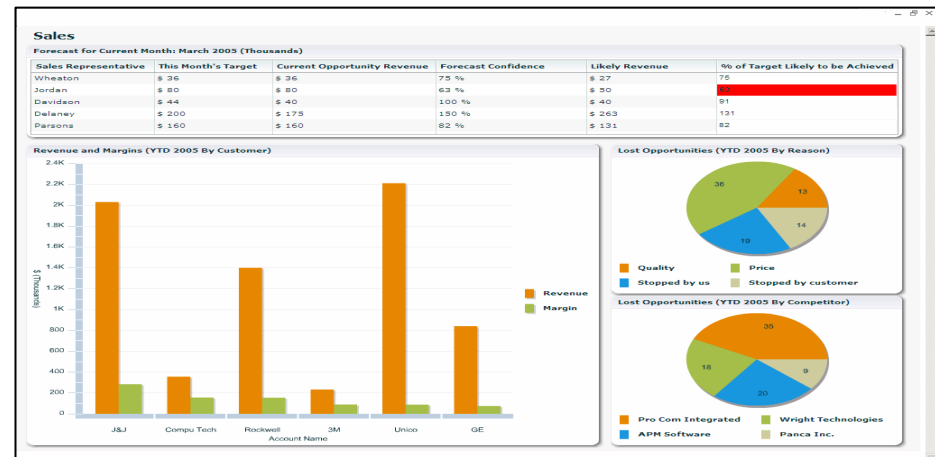
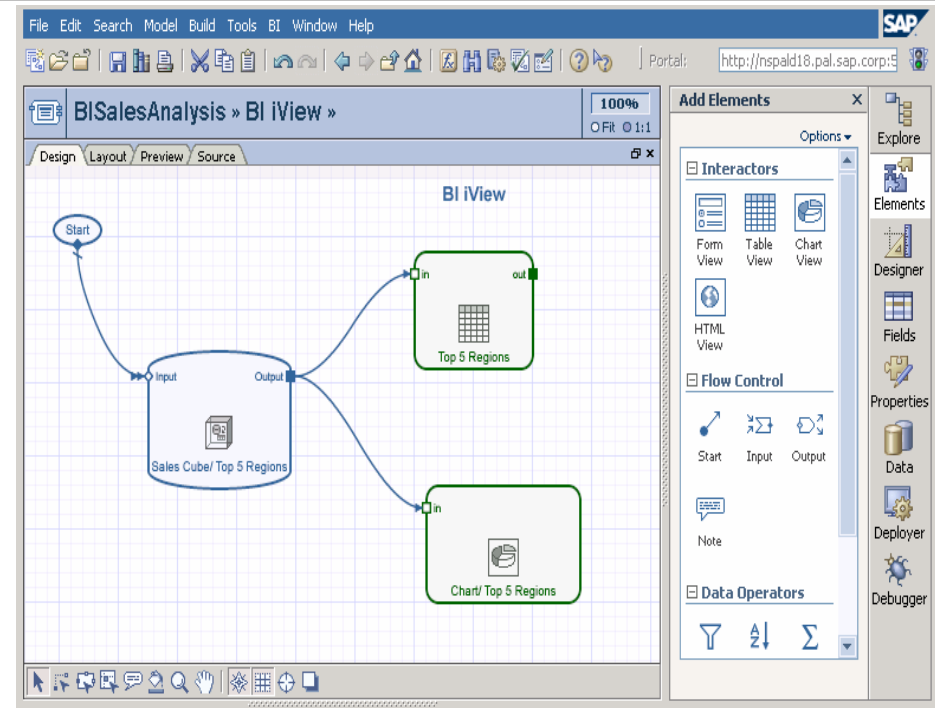
■ New Output Options

- 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
available
in 2004s

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

THE BEST-RUN BUSINESSES RUN SAP™





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

80%

Rule Group

Rule Group

Rule

Rule

Sales Order Items (RHORDITM)

Posit	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 Group: Standard Group

Rule Name	Posit	Key	InfoObject	Icon	Descript.
OMATERIAL	1		OMATERIAL		Material
OCUSTOMER	2		OCUSTOMER		Customer number
OSALESORG	3		OSALESORG		Sales Organization
OCUST_GROUP	4		OCUST_GROUP		Customer group
ODISTR_CHAN	5		ODISTR_CHAN		Distribution Channel
ODIVISION	6		ODIVISION		Division
OCALMONTH	7		OCALMONTH		Calendar Year/Month
OCALDAY	8		OCALDAY		Calendar Day
OCALYEAR	9		OCALYEAR		Calendar Year
OCALQUARTER	10		OCALQUARTER		Calendar Year/Quarter
OCONF_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

Only
available
in 2004s

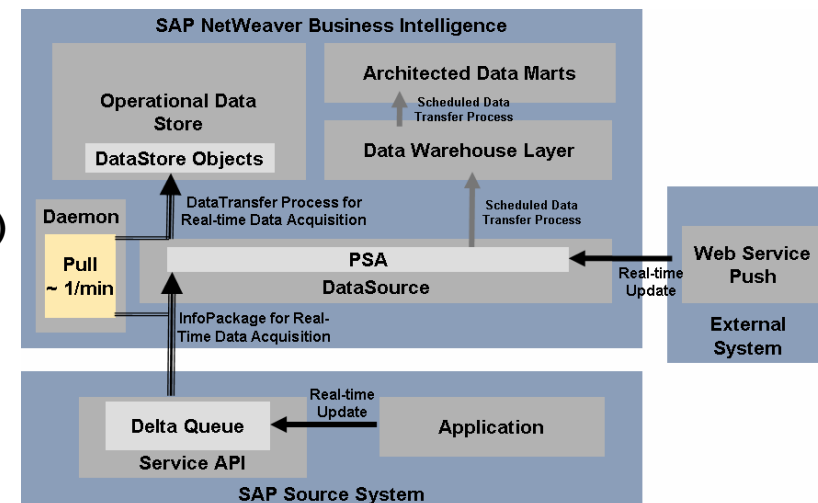
Data Flow Control

■ 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)

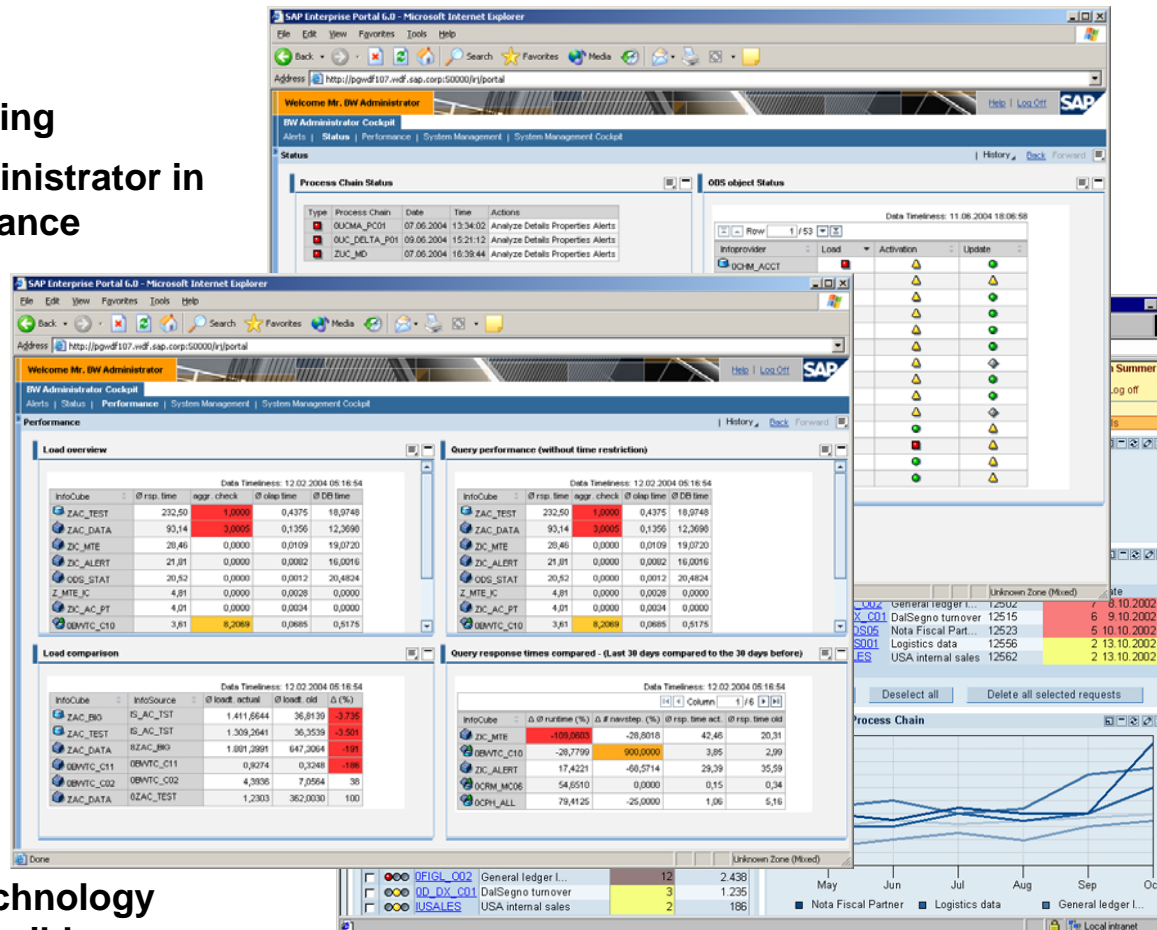


Administration & Monitoring

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

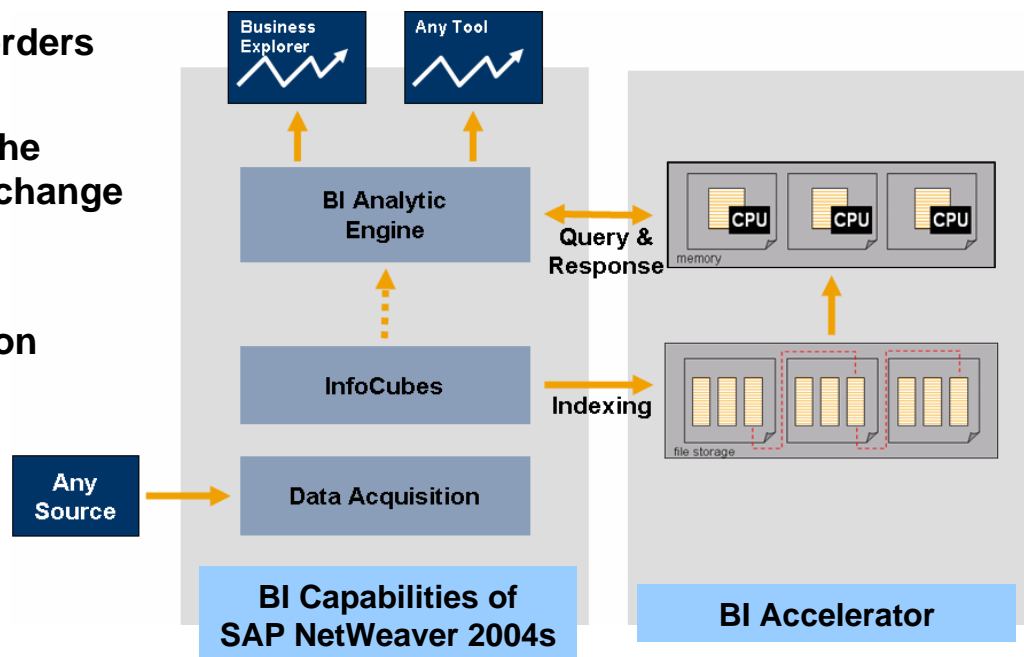


Performance Optimization

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 TREX 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

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	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)

InfoProvider Selection

InfoProvider description	InfoProvider type	Last changed by	Date	Time
Project - Resource Planning	Real-time InfoCube	WASSMUTH	5/10/2005	3:44:09 PM
Revenue	Real-time InfoCube	WASSMUTH	6/20/2005	11:30:23 AM
Revenue 2005-2007	Real-time InfoCube	WASSMUTH	6/20/2005	11:30:14 AM
Test Deleted	Real-time InfoCube	WASSMUTH	6/24/2005	11:40:06 AM
WAEERS	Real-time InfoCube	SCHWABJ	1/8/2005	8:47:52 AM

Display InfoProvider Revenue

Dimensions

Dimension	Characteristic	Type	Check table	Compounding
BP02U01	Country (SAP Demo)	Characteristic	<input checked="" type="checkbox"/>	
BP02U01	Product group (SAP DEMO)	Characteristic	<input checked="" type="checkbox"/>	
BP02U01	Product (SAP DEMO)	Characteristic	<input checked="" type="checkbox"/>	
BP02U01	Region	Characteristic	<input checked="" type="checkbox"/>	Country (SAP Demo)
BP02U01	Version	Characteristic	<input type="checkbox"/>	

Navigation Attributes

Characteristic	Attribute	Type	Check table	Compounding

Key Figures

Key figure	Type	Units	Currency	Unit of measure	Aggregation	Exception aggregation	Exception aggregation characteristic
Amount	Amount	CURRENCY			Summation	Summation	

**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

1 InfoProvider **2 Aggregation Level** **3 Filter** **4 Planning Function** **5 Planning Sequence** **6 Pattern**

InfoProvider Selection

Search: InfoProvider Start

InfoProvider description	InfoProvider type	Last changed by	Date	Time
WAEERS	Real-time InfoCube	SCHWABJ	1/18/2005	8:47:52 AM
Revenue 2004	Real-time InfoCube	WASSMUTH	5/10/2005	3:40:51 PM
Revenue 2005-2007	Real-time InfoCube	WASSMUTH	5/10/2005	3:42:48 PM

Help

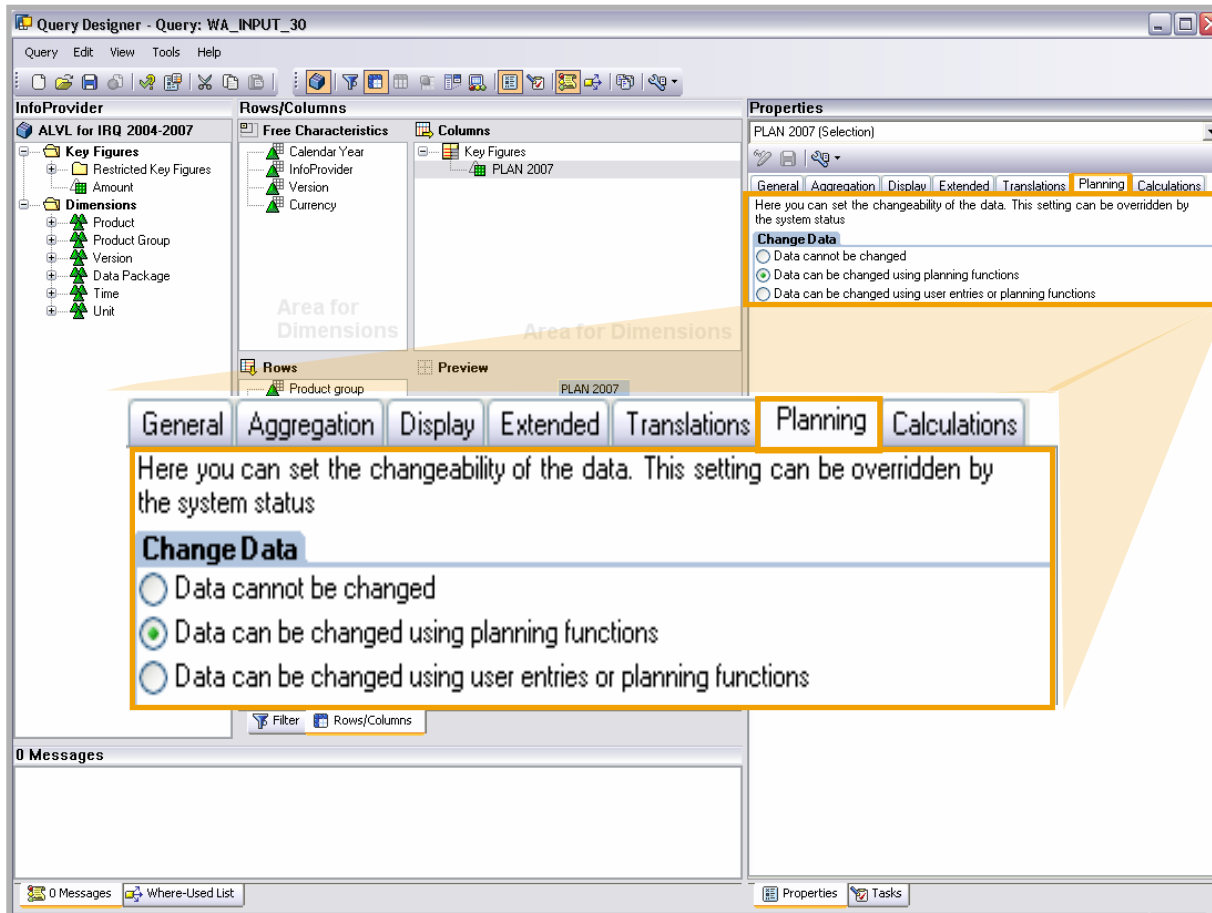
The InfoProvider determines the data basis for planning. It contains all the objects that are relevant to a planning model. In most cases this is a real-time InfoCube for direct update. It can also be a partially writable MultiProvider.

Example: the InfoCube contains the characteristics fiscal year, country, product line and product and the key figures quantity, amount and revenue.

Select an InfoProvider. If you choose "start" immediately without making further entries, the system displays all InfoProviders that can be used for planning. You can restrict the list that is displayed according to various search criteria. Select the InfoProvider you want to use by clicking on the relevant row.

**Only
available
in 2004s**

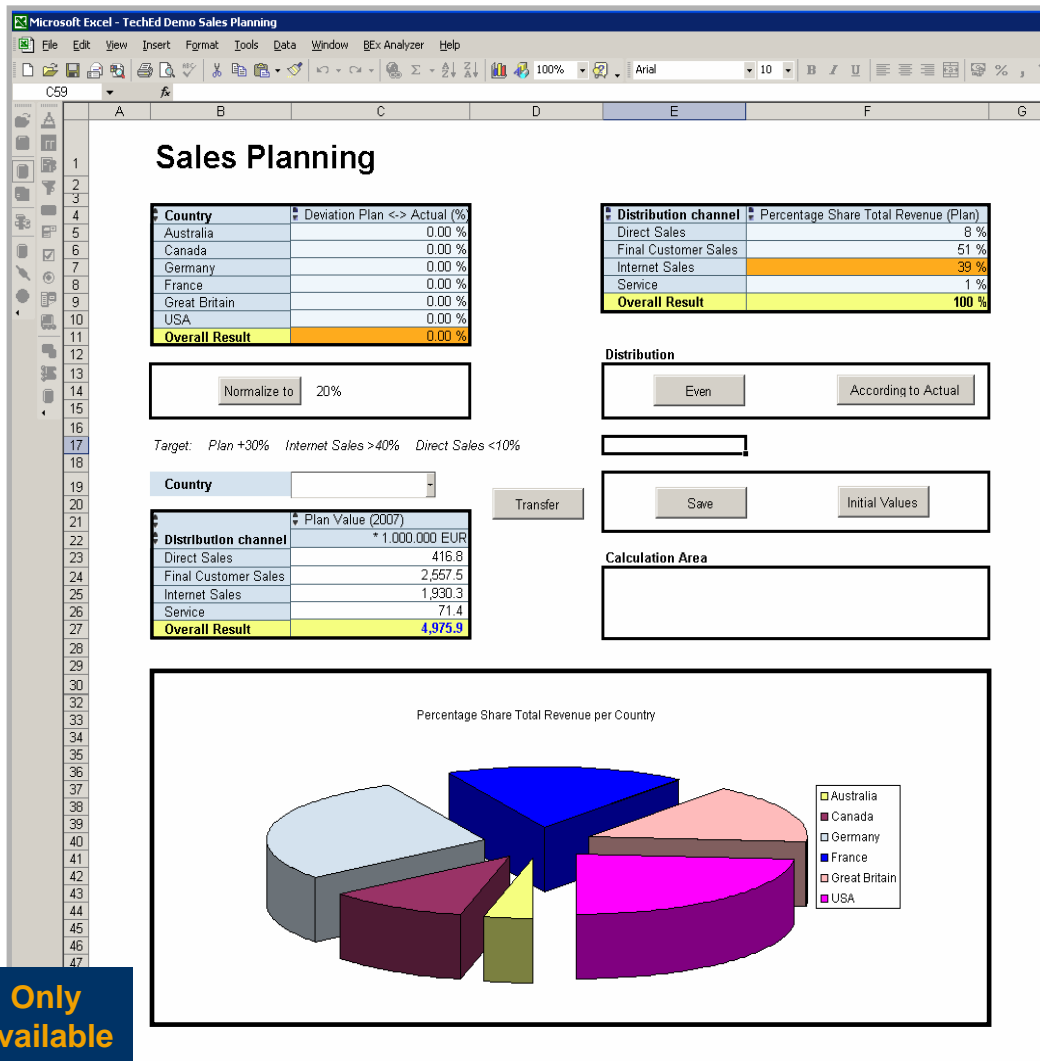
BEx Query Designer Designing the input ready Query



New features:

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

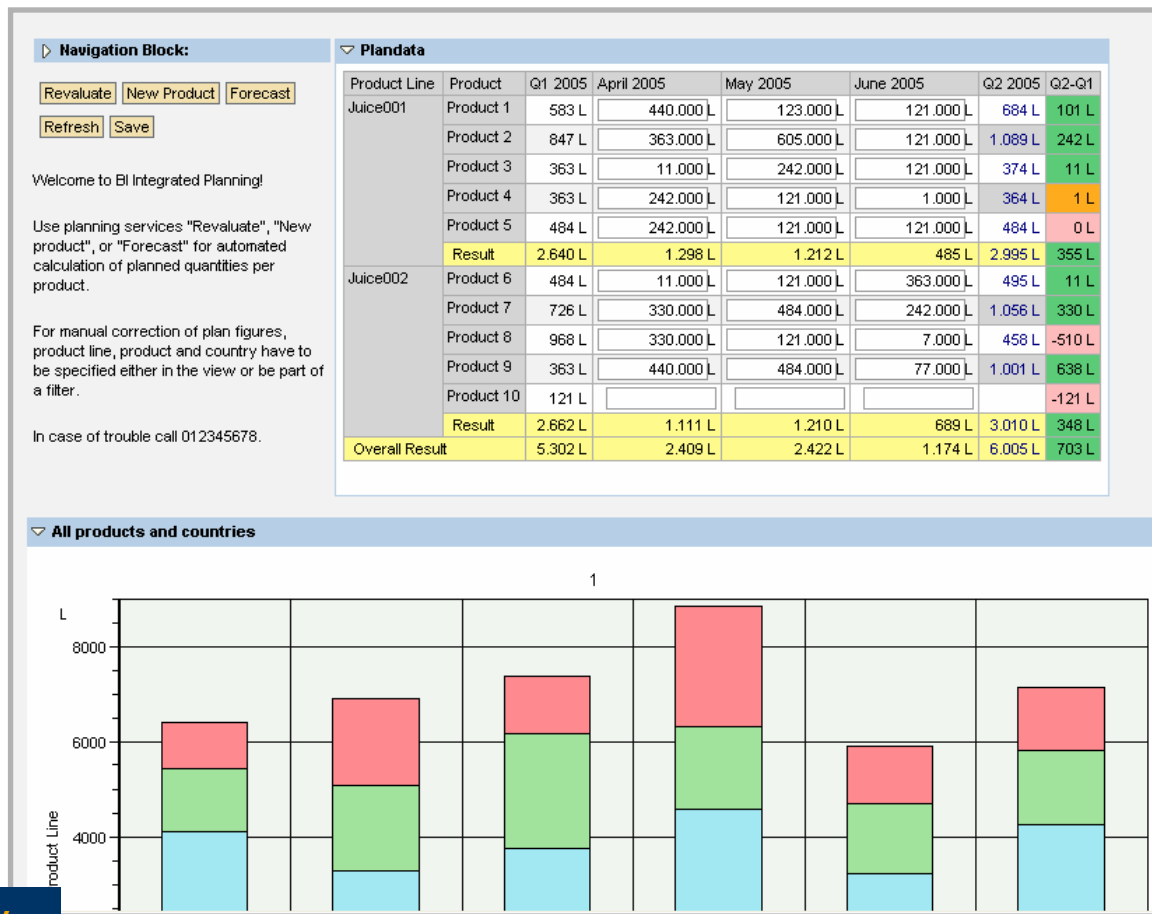
BEx Analyzer - Designing a workbook



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



Highlights of new features

- Drag and drop
- New exception wizard
- Include formatted reports & any web items into web based planning application
- Export to Excel & PDF













IT Scenario: Business Task Management

IT Scenario: Business Task Management

IT Practices

IT Scenarios

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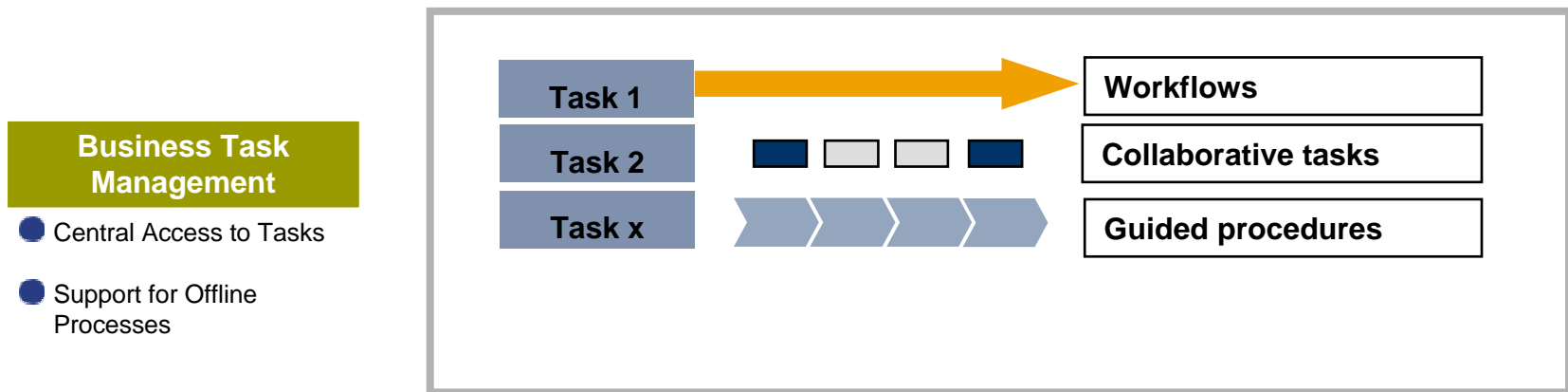
Automation and execution of tasks

- **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



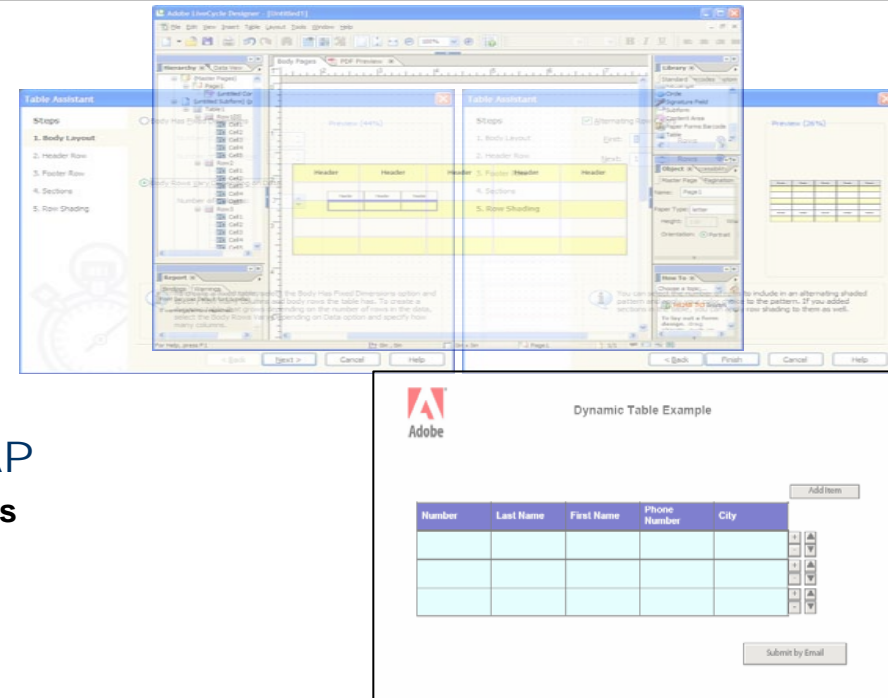
SAP NetWeaver
Collaboration Tasks

**"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)

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	Digitally signed by Kel Varsen DN: cn=Kel Varsen, c=US, o=Sample Organization Date: 2004.10.22 10:21:23 +02'00'	DATE Friday, October 22, 2004
-----------------------	------------	-----------------------------------------------------------------------------------------------------------------------	----------------------------------

Clear Form... Submit...

■ Universal Worklist built on Web Dynpro technology

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

Subject	Sent	Recipients	Category
SO created with a value greater than 10.000 %	Aug 13, 2004 3:45 AM	TCBUS (3)	BAM Alert Event Resolution - SO created
SO created with a value greater than 10.000 %	Aug 13, 2004 3:45 AM	DO25681 (3)	BAM Alert Event Resolution - SO created
SO created with a value greater than 10.000 %	Aug 13, 2004 3:44 AM	TCBUS (3)	BAM Alert Event Resolution - SO created
SO created with a value greater than 10.000 %	Aug 13, 2004 3:43 AM	TCBUS (3)	BAM Alert Event Resolution - SO created
SO created with a value greater than 10.000 %	Aug 13, 2004 3:42 AM	TCBUS (3)	BAM Alert Event Resolution - SO created
SO has one item with availability less than 80 %	Aug 13, 2004 3:35 AM	TCBUS (2)	BAM Alert Event Resolution - ATP checked
SO has one item with availability less than 80 %	Aug 13, 2004 3:32 AM	DO25681 (2)	BAM Alert Event Resolution - ATP checked
SO created with a value greater than 10.000 %	Aug 13, 2004 3:31 AM	TCBUS (3)	BAM Alert Event Resolution - SO created
SO created with a value greater than 10.000 %	Aug 13, 2004 3:31 AM	DO25681 (3)	BAM Alert Event Resolution - SO created
SO created with a value greater than 10.000 %	Aug 29, 2004 8:14 PM	UMLADMN (8)	BAM Alert Event Resolution - SO created

High alert: Take it easy... mañana, mañana is ready

priority: 11

sent: Jul 6, 2004 11:00 AM

from: Oct 31, 2004

status: Check, RM, Check, RM, Check, RM

■ 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.

Only
available
in 2004s

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

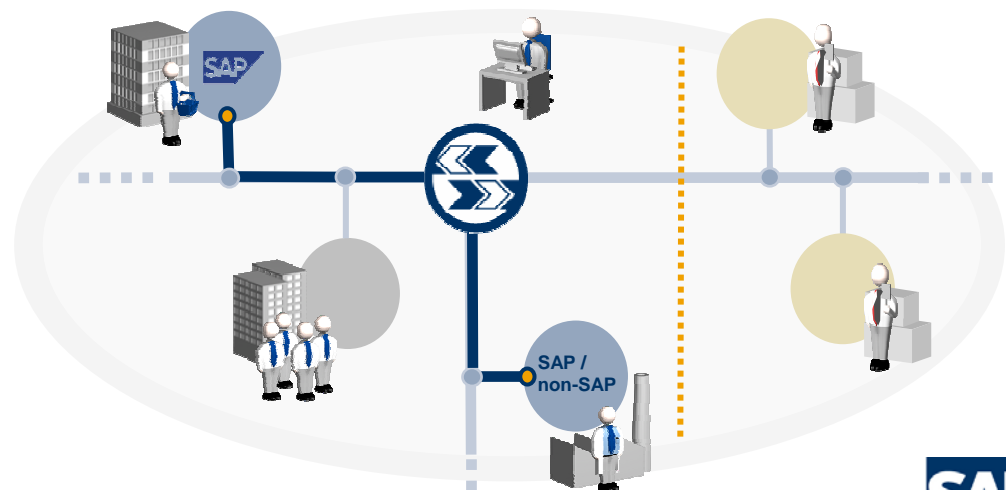
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	ESA Design and Deployment	Enabling Enterprise Services					

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

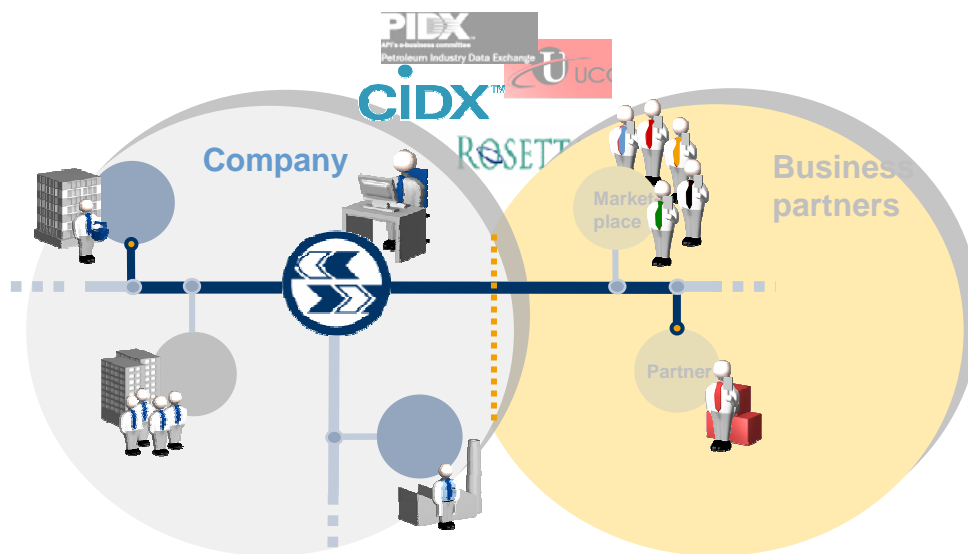
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B2B integration is the message- and standard-based integration of inter-company processes by seamlessly connecting SAP and non-SAP applications and orchestrating the process flow between them.

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
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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:

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- Embedded Process Integration capabilities with 'powered by ' Applications
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**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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Overview: Developing, Configuring, and Adapting Applications

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

Overview: Developing, Configuring, and Adapting Applications

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

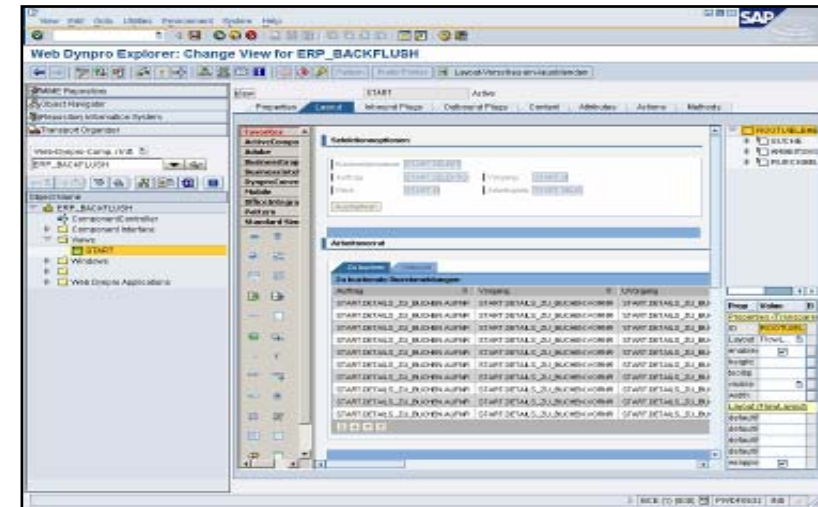
- Creating Business Applications Using ABAP
- Creating Applications Using SAP NetWeaver Visual Composer
- Creating Portal Applications Using the .NET Portal Development Kit
- Developing Mobile Applications for Occasional Connection

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**

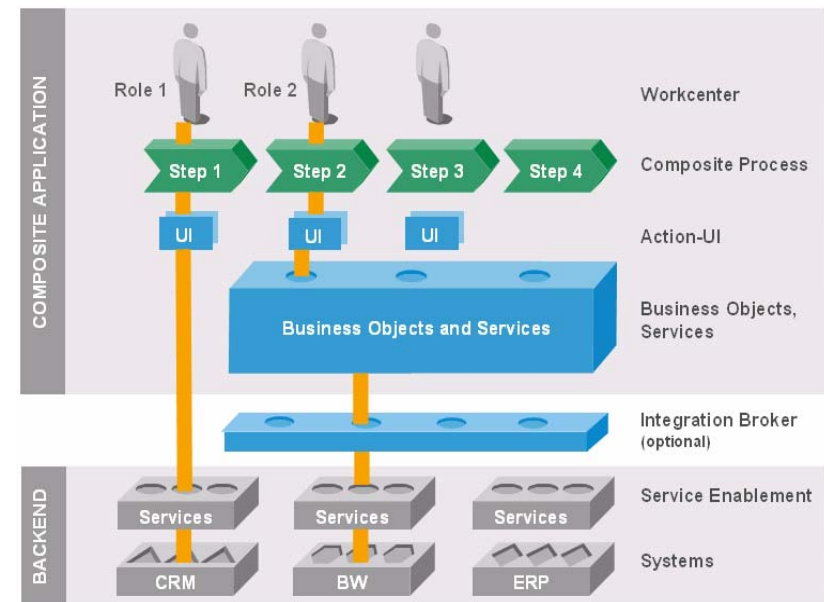
Creating composite applications

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.

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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.**

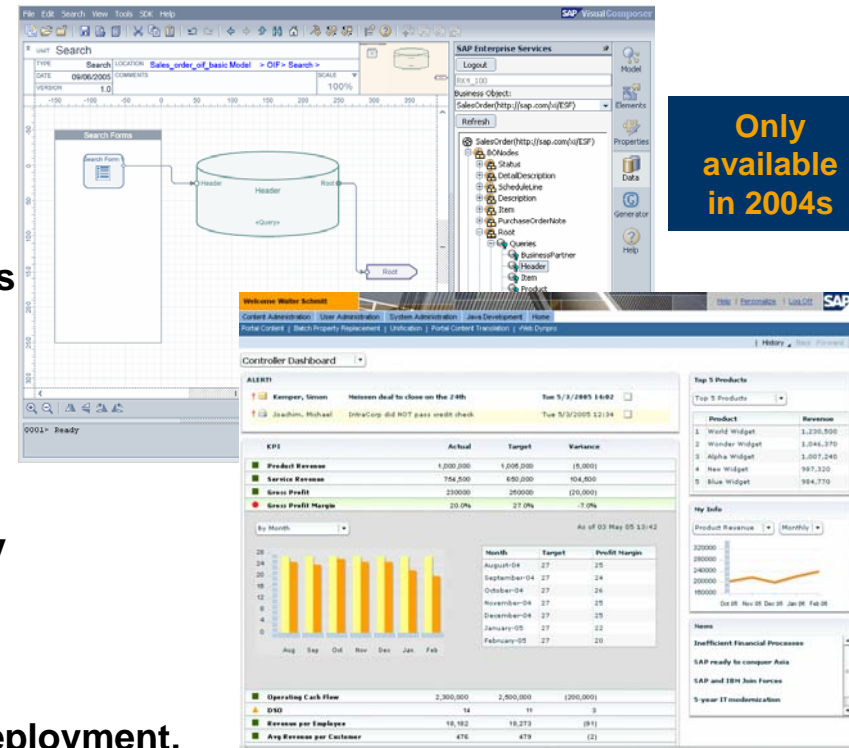
Enhanced Features:

- **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:

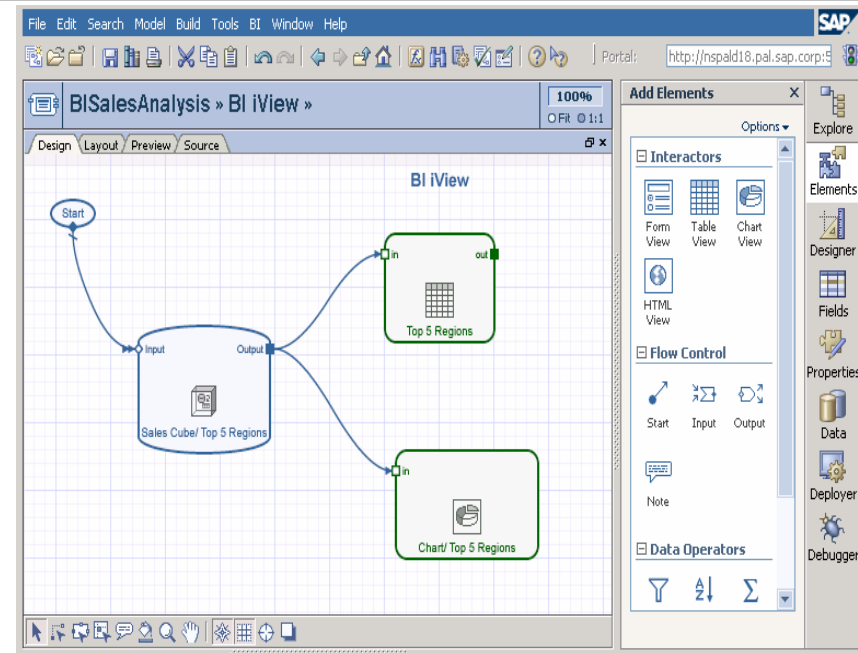
- By means of connectors provided by our partner iWay Visual Composer can now access the first Non-SAP systems (PeopleSoft, Siebel).

■ 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

IT Scenario: Enabling Platform Interoperability

IT Practices

IT Scenarios

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	ESA Design and Deployment	Enabling Enterprise Services					

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**

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**

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

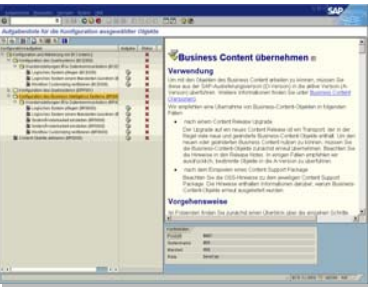
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- **Software Life-Cycle Management provides the abilities to:**
 - **Manage SAP software in production system landscapes by performing implementation tasks such as planning changes, implementing new systems, copying existing systems, or enabling the 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

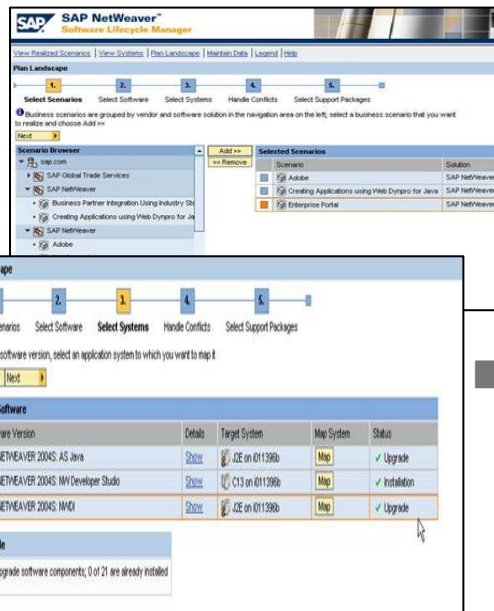


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available
in 2004s

■ 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:

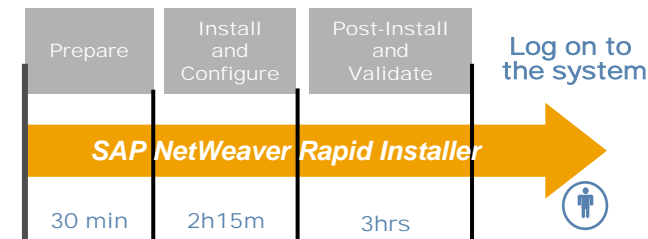
- Thorough planning is the basis for every software life-cycle task
 - Usually complex due to all the system interdependencies
 - Software Lifecycle Manager to support for planning and validation of software life-cycle tasks for Systems landscapes

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



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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

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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

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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

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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

■ SAP Recommended HA Setups Supported by SAP Installation Tool

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available
in 2004s



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

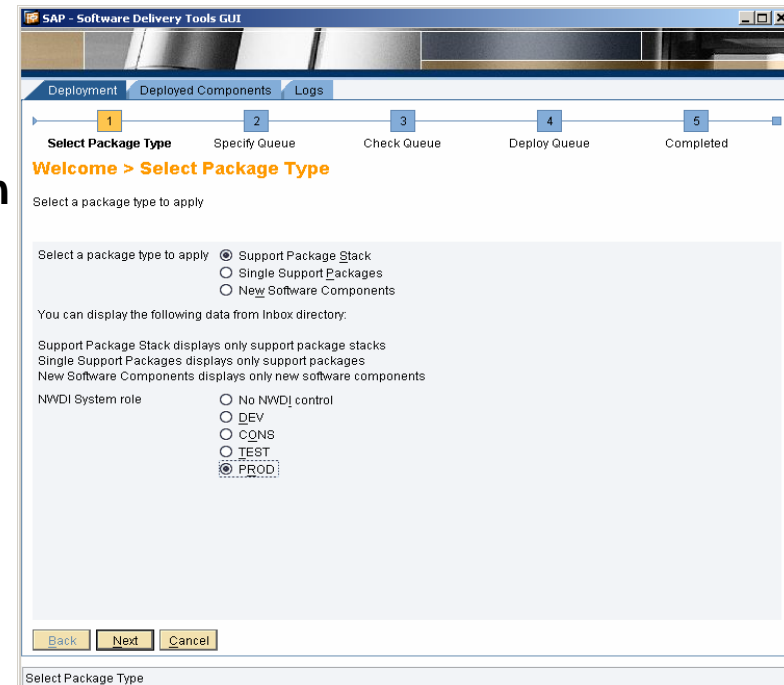
■ Maintain SAP Software simply and reliably:

- 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

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IT Scenario: SAP NetWeaver Operations

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IT Practices

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	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:**

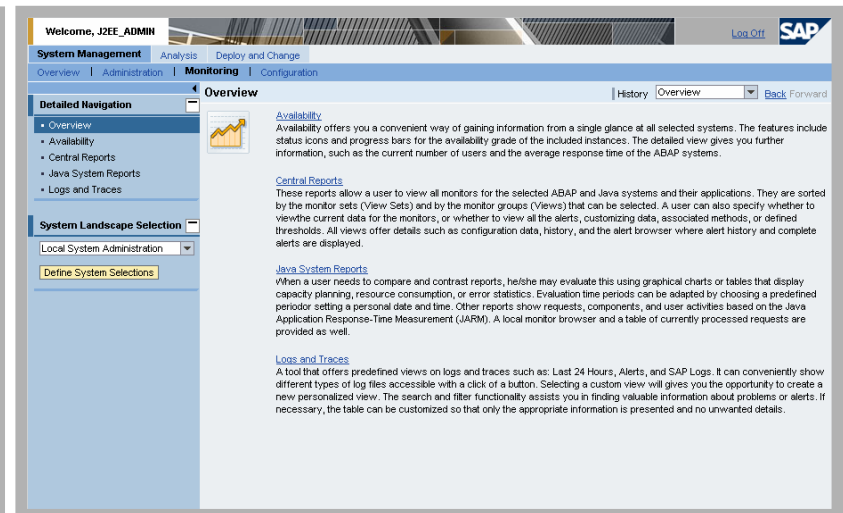
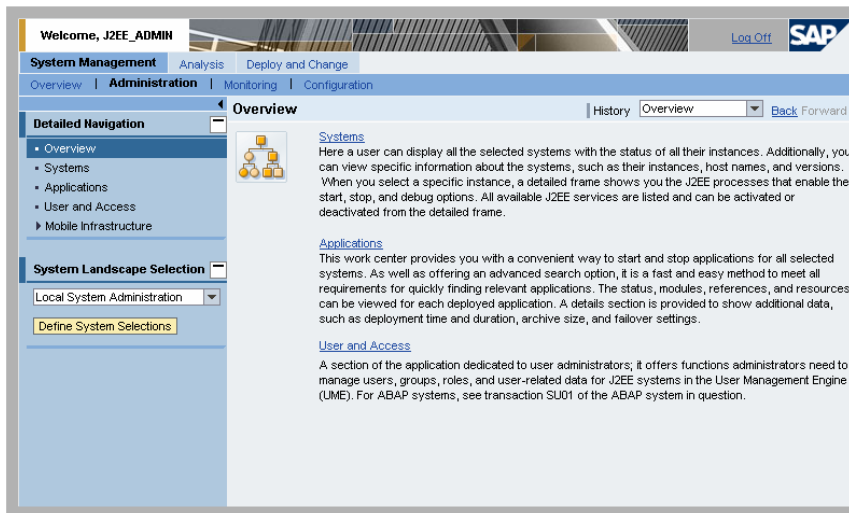
SAP NetWeaver Operations

- 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

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- **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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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	
	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					

- **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)

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

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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

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IT Scenario: Integrated User and Access Management

IT Scenario: Integrated User and Access Management

IT Practices

IT Scenarios

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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

■ New authorization concept for BI capabilities of SAP NetWeaver

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

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Information Sources for SAP NetWeaver 2004s



SAP NetWeaver

<http://service.sap.com/netweaver>



New Release Strategy

<http://service.sap.com/releasestrategy>



SAP Developers Network

<http://sdn.sap.com>



Release Notes

<http://service.sap.com/releasenotes>



Upgrade Technology Tools

<http://service.sap.com/upgradetech>



Online Help

<http://help.sap.com>



SAP NetWeaver 2004s Release documentation

http://help.sap.com/saphelp_nw2004s/helpdata/en/index.htm



SAP NetWeaver 2004s Master Planning guides

<http://service.sap.com/instguides>

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