What’s New with SAP NetWeaver® 2004s
Delta release concise overview information

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

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.
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 more comprehensive delta information please see the complementary document ‘What’s New with SAP NetWeaver® 2004s Detailed Delta Overview information’

For exhaustive detailed information please consult the SAP help portal:

What’s New with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Key Goals

Key changes with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Functional Deltas
What’s New with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Key Goals

Key changes with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Functional Deltas
SAP NetWeaver 2004s Key Goals

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

**Benefits:**

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

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

- **Sustainability**
  - Ability to leverage and extend existing IT systems
  - Simplified implementation in order to reduce TCO
SAP NetWeaver 2004s Key Goals:
From Infrastructure to Applistructure

SAP NetWeaver becomes the business process platform

Productivity

- Pre-SAP NetWeaver components
- Gen 1
- Gen 2
- Gen 3
- Gen 4

Business Process Platform
- Core business objects
- Ready-to-run business processes
- Accessible through enterprise services

Integration Platform

- Gen 1
- Gen 2
- Gen 3
- Gen 4

Composition Platform

- SAP NetWeaver 2004
- SAP NetWeaver 2004s

Business Innovation

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What’s New with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Key Goals

Key changes with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Functional Deltas
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 specify the systems’ roles in delivering IT Solutions
Significant Changes with SAP NetWeaver 2004s: No Components

There are no individual SAP NetWeaver component release numbers anymore.

One platform – one release number

SAP NetWeaver 200x

*- excludes SAP NetWeaver MDM
Key changes with SAP NetWeaver 2004s:
IT Practices - Alignment of IT and business processes

Fact: Business Processes are not aligned to technology components

To meet the changing business requirements, IT must also change:
- IT’s view of technology must adapt to the business requirements
- An End to End cross-component cross-organizational view is required

SAP NetWeaver™

Composite Applications

Enable a new Cross-Component Cross-Organizational view of delivering business solutions
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
Key changes with SAP NetWeaver 2004s:
The **IT Scenarios** concept – What you can do with SAP NetWeaver®

An IT Scenario is a set of IT processes, grouped to attain a defined business goal

Targeting the business of IT, **IT Scenarios and their variants** help the technical community to more quickly and easily

- develop, compose, and run applications AND build, enhance, and operate an IT infrastructure
- implement a defined IT concept, such as evolving a company’s system landscape into a services-based architecture

**IT Practice name**
Note: IT Scenarios can be assigned to multiple IT Practices!

**User Productivity Enablement**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Implementing a Global Portal (Federated Portal)</td>
<td>Collaboration In Virtual Rooms</td>
<td>Central Access to Tasks</td>
<td>Running Mobile Applications with an Online Connection</td>
<td>Content Integration and Management</td>
</tr>
<tr>
<td>Implementing an External Facing Portal</td>
<td>Ad hoc Collaboration</td>
<td>Support for Offline Processes</td>
<td>Enabling Mobile Applications for Occasional Connection</td>
<td>Content Creation, Publication, and Access</td>
</tr>
<tr>
<td>Providing Uniform Content Access</td>
<td>Administering Collaboration Services</td>
<td></td>
<td></td>
<td>Enterprise Search</td>
</tr>
</tbody>
</table>

**IT Scenario name**

- SAP Product Available
- SAP Product Available with Future Releases
- Future Focus

**IT Scenario Variants name**

- Partner Product Available
- Partner Product Available with Future Releases
- Collaborative Business Map Available

Sxx, Vxx, Bxx SAP Product & Service
Pxx Partner Product

For more information see: [http://www.sap.com](http://www.sap.com)
**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…

<table>
<thead>
<tr>
<th>IT Practices</th>
<th>IT Scenarios</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Unification</strong></td>
<td>Master-Data Harmonization, Master-Data Consolidation, Central Master-Data Management, Enterprise Data Warehousing</td>
</tr>
<tr>
<td><strong>Business Information Management</strong></td>
<td>Enterprise Reporting, Query, and Analysis, Business Planning and Analytical Services, Enterprise Data Warehousing, Enterprise Knowledge Management, Enterprise Search</td>
</tr>
<tr>
<td><strong>Business Event Management</strong></td>
<td>Business Activity Monitoring, Business Task Management</td>
</tr>
<tr>
<td><strong>Custom Development</strong></td>
<td>Developing, Configuring, and Adapting Applications, Enabling Platform Interoperability</td>
</tr>
<tr>
<td><strong>Unified Life-Cycle Management</strong></td>
<td>Software Life-Cycle Management, SAP NetWeaver Operations</td>
</tr>
<tr>
<td><strong>Consolidation</strong></td>
<td>Enabling Platform Interoperability, SAP NetWeaver Operations, Master-Data Consolidation, Enterprise Knowledge Management, Enterprise Data Warehousing</td>
</tr>
<tr>
<td><strong>ESA Design and Deployment</strong></td>
<td>Enabling Enterprise Services</td>
</tr>
</tbody>
</table>
### Key changes with SAP NetWeaver 2004s: Transition from component view to IT Scenarios

For your reference to aid in transition...

<table>
<thead>
<tr>
<th>IT Practice</th>
<th>IT Scenarios</th>
<th>Previous Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Productivity Enablement</td>
<td>Running an Enterprise Portal</td>
<td>EP      KMC       WebAS</td>
</tr>
<tr>
<td>Data Unification</td>
<td>Master-Data Harmonization</td>
<td>MDM     BI</td>
</tr>
<tr>
<td>Business Information Management</td>
<td>Master-Data Consolidation</td>
<td>BW      KMC      EP</td>
</tr>
<tr>
<td>Business Event Management</td>
<td>Central Master-Data Management</td>
<td>WebAS   XI       BI</td>
</tr>
<tr>
<td>End-to-End Process Integration</td>
<td>Business Activity Monitoring</td>
<td>XI      WebAS</td>
</tr>
<tr>
<td>Custom Development</td>
<td>Business Task Management</td>
<td>WebAS   EP</td>
</tr>
<tr>
<td>Unified Life-Cycle Management</td>
<td>Developing, Configuring, and Adapting Applications</td>
<td>All SAP NetWeaver</td>
</tr>
<tr>
<td>Application Governance/Security Mgmt</td>
<td>Software Life-Cycle Management</td>
<td>WebAS</td>
</tr>
<tr>
<td>Consolidation</td>
<td>Authentication and Single Sign-On</td>
<td>All SAP NetWeaver</td>
</tr>
<tr>
<td>ESA Design and Deployment</td>
<td>Enabling Enterprise Services</td>
<td>All SAP NetWeaver</td>
</tr>
</tbody>
</table>
Key changes with SAP NetWeaver 2004s:
IT Scenarios Require Software...

IT Scenarios

Functionality provided by SAP NetWeaver
Organized into Installed units

Enterprise Reporting, Query, and Analysis

Enabling User Collaboration

SAP GUI
Web Browser
EP
BI Java

Search and Classification (TREX)

Business Explorer

BI
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

**Key changes with SAP NetWeaver 2004s:**

SAP NetWeaver Technology Baseline — Installable units

**Installable units**

**Clients**
- Web Browser

**Systems with Usage Types**
- BI
- AS ABAP

**Standalone Engines**
- Search and Classification (TREX)

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

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

<table>
<thead>
<tr>
<th>Usage Type Names</th>
<th>Abbreviation</th>
<th>Contains usage types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Intelligence</td>
<td>BI</td>
<td>AS ABAP</td>
</tr>
<tr>
<td>BI Java Component</td>
<td>BI Java</td>
<td>AS Java (requires EP too)</td>
</tr>
<tr>
<td>Development Infrastructure</td>
<td>DI</td>
<td>AS Java</td>
</tr>
<tr>
<td>Mobile Infrastructure</td>
<td>MI</td>
<td>AS ABAP + AS Java</td>
</tr>
<tr>
<td>Enterprise Portal</td>
<td>EP</td>
<td>AS Java</td>
</tr>
<tr>
<td>Process Integration</td>
<td>PI</td>
<td>AS ABAP + AS Java</td>
</tr>
<tr>
<td>Application Server ABAP</td>
<td>AS ABAP</td>
<td></td>
</tr>
<tr>
<td>Application Server Java</td>
<td>AS Java</td>
<td></td>
</tr>
</tbody>
</table>
# Key changes with SAP NetWeaver 2004s:
SAP NetWeaver Technology Baseline — Installable units

## SAP NetWeaver 2004s Standalone Engines and Clients

<table>
<thead>
<tr>
<th>Standalone Engines*</th>
<th>Clients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search and Classification (TREX)</td>
<td>SAP NetWeaver Developer Studio</td>
</tr>
<tr>
<td>Job Scheduler</td>
<td>Visual Composer</td>
</tr>
<tr>
<td>liveCache</td>
<td>J2SE Adapter Engine (PI/PI)</td>
</tr>
<tr>
<td>Gateway</td>
<td>MI Client</td>
</tr>
<tr>
<td>Content Server</td>
<td>Adobe LiveCycle Designer</td>
</tr>
<tr>
<td>Web Dispatcher</td>
<td>Business Explorer (BEx)</td>
</tr>
</tbody>
</table>

*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...**

<table>
<thead>
<tr>
<th>Previous SAP NetWeaver “components” providing certain capabilities</th>
<th>Usage Type with SAP NetWeaver 2004s</th>
<th>Short name</th>
<th>Required Stacks (usage types)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP NetWeaver BI (SAP BW)</td>
<td>Business Intelligence</td>
<td>BI</td>
<td>ABAP (AS ABAP)</td>
</tr>
<tr>
<td>SAP BW + SAP Web AS (Java)</td>
<td>BI Java Components</td>
<td>BI Java</td>
<td>Java (AS JAVA + EP)</td>
</tr>
<tr>
<td>SAP NetWeaver AS (SAP Web AS) + certain Java comp.</td>
<td>Development Infrastructure</td>
<td>DI</td>
<td>Java (AS JAVA)</td>
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<tr>
<td>SAP NetWeaver AS (SAP Web AS)</td>
<td>Mobile Infrastructure</td>
<td>MI</td>
<td>ABAP + Java (AS ABAP+AS ABAP)</td>
</tr>
<tr>
<td>SAP NetWeaver XI (SAP XI)</td>
<td>Process Integration</td>
<td>PI</td>
<td>ABAP+Java (AS ABAP+AS JAVA)</td>
</tr>
<tr>
<td>SAP NetWeaver AS (SAP Web AS)</td>
<td>Application Server ABAP</td>
<td>AS ABAP</td>
<td>ABAP (AS ABAP)</td>
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What’s New with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Key Goals

Key changes with SAP NetWeaver® 2004s

SAP NetWeaver® 2004s Functional Deltas
SAP NetWeaver in 2005: Key Deliverables

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?

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<tr>
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<td>Enterprise Reporting, Query, and Analysis ✓ Business Planning and Analytical Services ✓ Enterprise Data Warehousing ✓ Enterprise Knowledge Management ✓ Enterprise Search</td>
</tr>
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<td><strong>Business Event Management</strong></td>
<td>Business Activity Monitoring ✓ Business Task Management ✓</td>
</tr>
<tr>
<td><strong>Custom Development</strong></td>
<td>Developing, Configuring, and Adapting Applications ✓ Enabling Platform Interoperability</td>
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<td><strong>Unified Life Cycle Management</strong></td>
<td>Software Life Cycle Management ✓ SAP NetWeaver Operations</td>
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<td>Authentication and Single Sign-On ✓ Integrated User and Access Management</td>
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</tr>
<tr>
<td><strong>ESA Design and Deployment</strong></td>
<td>Enabling Enterprise Services ✓</td>
</tr>
</tbody>
</table>

- SAP NetWeaver® 2004s new features and deltas
Variant: Implementing a Federated Portal Network

- Global companies can organize a number of physically different portals as one single virtual content pool (federation).
  - Consolidate and share content between all portals in the federation
  - Federated user administration to reduce overhead
  - Provide live and direct access to global and local applications and content
Variant: Implementing an External-Facing Portal

- Customers want to use existing portal investments to deploy portal based solutions over the internet (and over low-bandwidth connections)
  - Leverages existing infrastructure and deployments
  - Provides intuitive standard Website-like behavior (Back, Add to Favorites, etc)
  - Enhanced performance and reduce network traffic
  - Lightweight framework for easy customized page/content creation and deployment
Variant: Enabling mobile applications for occasional connection

- End users with mobile devices that are occasionally connected can carry out their tasks without being connected to the backend system.
  - The required business logic and user interface reside on the mobile device. When the mobile device connects to the backend system, it exchanges all modified data.
  - New template-based device setup (software installation and initial data distribution) and pre-assembly of software components for delivery – thus shortening duration of device rollout and deployment time
  - Enhanced grouping simplifies software configuration and deployment
  - New administration tools to provide rapid response to issues and troubleshooting actions

Benefits:

- User has access to information everywhere
- Less load on the backend system
- Connection only necessary at certain times
**Variant: Content Integration and Management, and Content creation, publication and access**

- **Transport capability for objects, configurations, and dependencies**
  - Transports Knowledge Management (KM) and collaboration configuration objects between different portals

- **Universal Worklist (UWL) Integration**
  - Recent notifications are displayed in UWL
  - KM notifications (feedback, subscriptions, etc.) are displayed
  - UWL is the central place for events and notifications

- **“Portal drive” for accessing documents via Windows file explorer**
  - Access to KM documents as mapped network drive via the Windows file explorer
  - Offline synchronization of documents on an end-user PC
**IT Scenario: Enterprise Reporting, Query, and Analysis**

**Variant: Enterprise Reporting, Query, and Analysis**
- Create formatted and print-optimized reports
- Advanced layout options
- PDF-based printing
- New layout elements (e.g., tab strips)
- New chart types (Gantt)
- BI pattern wizard

**Variant: Excel Integration**
- Support Excel Formulas & Formatting
- Drag and Drop
- Enhanced Design Env.

---

**End-user View**

**Group Sales by Revenue Type – First Quarter 2004**

<table>
<thead>
<tr>
<th>Product</th>
<th>Q1 2004</th>
<th>Q1 2003</th>
<th>%</th>
<th>% Difference</th>
<th>Q1 2004</th>
<th>Q1 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>1.355</td>
<td>1.329</td>
<td>2</td>
<td>8</td>
<td>67</td>
<td>63</td>
</tr>
<tr>
<td>Software</td>
<td>1.056</td>
<td>960</td>
<td>8</td>
<td>14%</td>
<td>67</td>
<td>63</td>
</tr>
<tr>
<td>Maintenance</td>
<td>666</td>
<td>608</td>
<td>10</td>
<td>15%</td>
<td>43</td>
<td>40</td>
</tr>
<tr>
<td>Service Consulting</td>
<td>512</td>
<td>553</td>
<td>-7</td>
<td>-3%</td>
<td>32</td>
<td>36</td>
</tr>
<tr>
<td>Training</td>
<td>482</td>
<td>476</td>
<td>-3</td>
<td>-2%</td>
<td>28</td>
<td>31</td>
</tr>
<tr>
<td>Other revenue</td>
<td>75</td>
<td>77</td>
<td>-2</td>
<td>-4%</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

**Design Time**

- BEx Report Designer
- BEx Analyzer
- BEx Web Application Designer
Variant: Ad-Hoc Query

- Easy navigation with drag and drop
- Ability to drop characteristics on top of rows or columns
- Easy filtering when dropping a characteristic to filter area
- Personalized filters
- Save and distribute analysis results through strong portal integration
- Close integration to Information Broadcasting and KM
- Wizard-based definition of exceptions and conditions
- Query creation on top of the BI Capabilities and third-party data (via XMLA Connectors)
IT Scenario: Enterprise Reporting, Query, and Analysis
Variant: Modeling BI Applications with SAP NetWeaver Visual Composer

**Variant: Modeling Business Intelligence Data with SAP NetWeaver Visual Composer**

- Allows Business Users to create analytical content
- Integrate the BI Capabilities of SAP NetWeaver content (InfoCubes, BEx Queries and Query Views, BEx Web Applications) with transactional data
- Flex User Interface to enable new user experience
- Redesigned and enhanced analytical application design environment

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

- Business planning fully integrated into BI environment → High End-User Productivity
- Single, comprehensive integrated planning toolset
- Common and uniform user interface for planning and analytics
- Common uniform processing logic for both planning and analysis (e.g. Hierarchies, Variables, Calculated Key figures, etc.)

Integrated Analysis and Planning Applications
Variant: Business Planning

- Leveraging the standard BI capabilities, tools, objects, and engines (e.g., variables, calculated key figures, OLAP engine)

- Design of Planning Applications
  - User-centric and consistent design tools for planning and analysis
  - Web-based and guided modeling and administration environment
  - Shared persistency and integrated meta data

Intuitive Design Environment

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 variable MultiProvider. Examples for the InfoCube contain 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.
Variant: Running the Enterprise Data Warehouse

Performance enhancements to support rapidly changing business requirements

- High performance analytics capabilities
  - Improvement of query response time by factor of up to 100x
  - Avoid severe variations of query response-times

- Near-line storage capabilities
Variant: Modeling the Enterprise Data Warehouse

Extended modeling tools to support EDW growth

- Flexible Data Modeling Features
  - Enhanced EDW modeling/storage objects and InfoSet capabilities
  - Re-modeling toolbox for ongoing maintenance and support of older data models

- Enhancements to management and design of EDW data layers for data staging
  - New DataSource concept
  - Enhanced remote access capabilities for sourcing data
  - Improved data transfer process
  - Real-time data acquisition

- Enhanced authorization process to support complex implementation
Variant: Central access to tasks

- Task transparency to all process participants irrespective of the task’s origin without outside involvement
- Consistent but context-sensitive environment for users to work in
- Audit trail yields process transparency at all levels of granularity

Key capabilities:

- Decomposition of single tasks into coordinated activities performed by different colleagues
- Performing all tasks, irrespective of their origin, from one central access point with one user interface
- Spawning pre-configured activity patterns
- Enhanced controls, auditing, and authentication for interactive forms and dynamic PDF forms
- Guided procedures integration with Business Process Management (BPM) runtime
IT Scenario: Business Task Management
Variant: Support for Offline Processes

### Variant: Support for offline processes

Users require the ability to send forms, provide comments, verify data on forms, and return the forms to the business application. They need to be able to build their own processes and support offline business processes.

**Key capabilities:**
- Designing departmental procedures without the need for IT involvement.
- Performing the forms-based tasks needed to complete a procedure either online or offline.
- Tracking the course of the procedure and seeing at-a-glance the tasks that have yet to be completed.

<table>
<thead>
<tr>
<th>SAP System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generate an engineering change request</td>
</tr>
<tr>
<td>Send request in PDF format for verification</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Activity Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vendor management receives form</td>
</tr>
<tr>
<td>Check business feasibility</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Task Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineer receives form</td>
</tr>
<tr>
<td>Check feasibility</td>
</tr>
<tr>
<td>Return form to SAP system</td>
</tr>
</tbody>
</table>

### Diagram:
- Engineer receives form
- Check feasibility
- Return form to SAP system
- Automatic processing of next steps (e.g. Update material master)
- Vendor management receives form
- Check business feasibility
- Send request in PDF format for verification
- Generate an engineering change request

@ SAP
Variation: Application-to-Application Integration

- Increased flexibility for implementing Application-to-Application Processing
- Message- and standard-based integration of intracompany processes by seamlessly connecting SAP and non-SAP applications.

Key new enhancements
- Adapters (Enhanced)
- Conversion Agent (New)
- Receiver Determination (Enhanced)
- External Definitions (Enhanced)
- Multi-Mappings (Enhanced)
- Operations (Enhanced)

All new and enhanced features are back-ported to SAP NetWeaver ‘04
IT Scenario: Enabling Business-to-Business Processes

Variant: Business Partner Integration using Industry Standards

- Supporting Standards to Improve Processes
  - RNIF 1.1 for RosettaNet

- Enhanced adapters and mappings allow the step-by-step replacement of SAP Business Connector by SAP NetWeaver

Variant: Small Business Partner and Subsidiary Integration

Integrate with other smaller businesses, partners, or subsidiaries with minimum effort and investments.

- Via SAP NetWeaver’s Partner Connectivity Kit (PCK) to enable a reliable low effort data exchange with other businesses.
- Mapping possible in PCK
Variant: Creating Applications using WebDynpro for ABAP

WebDynpro for ABAP → Identical programming model to Web Dynpro Java

- Same concepts, services, and UI elements
- Declarative UI design
- Adobe Forms, Office integration
- Seamless integration with Portal capabilities

Integrated in ABAP environment

- Development in ABAP Workbench
- Access to all services of ABAP server
- Objects, FMs, data types in ABAP DDIC
- Debugging, runtime analysis, code inspection,...
- Full lifecycle management (Transport, correction,...)
- Internationalization (OTR, text elements,...)

Configurable and enhancement ready

- Personalization and configuration framework
- Modification-free enhancements possible
Variant: Creating Composite Applications

Key capabilities

- Special support of the three layers of a composite application, the services, the user interfaces, and the processes
- Framework that plays a mediating role between composite applications and the platform
- 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
IT Scenario: Developing, Configuring, and Adapting Applications
Variant: Creating applications using SAP NetWeaver Visual Composer

Creating applications using SAP NetWeaver Visual Composer

- 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
Creating Composite Applications

SAP Delivers the first Business Process Platform to the Market

- SAP NetWeaver 2004s – Composition platform with an integrated services repository

Accelerated innovation at lower cost

Enables rapid development and deployment of composite applications

- 150+ xApps run on SAP NetWeaver 2004s
- 500+ ISVs are composing solutions on SAP NetWeaver 2004s

Key building block delivered with SAP NetWeaver 2004s: Enterprise Service Repository (ESR) – The library for Enterprise Services
IT Scenario: Developing, Configuring, and Adapting Applications

Variant: Creating Composite Applications

Creating Composite Applications:

**SAP NetWeaver Visual Composer – Code-free development**

- **Content Complexity**
  - Web Applications
  - Transactional Business Applications
  - Interactive Applications
  - Display Applications

- **Development Tools**
  - SAP NetWeaver Developer Studio (Java + PDK Perspective)
  - SAP ABAP Development Workbench (Business Server Pages)
  - SAP NetWeaver Developer Studio (Web Dynpro for Java Perspective)
  - SAP ABAP Development Workbench (Web Dynpro for ABAP*)
  - SAP NetWeaver Visual Composer*
  - MS Visual Studio (PDK for .NET)

- **Portal capabilities**
  - Content Studio

- **Required Technical Development Skills**
  - Business Application J2EE/ABAP/.Net Developer
  - Business Analyst
  - Content Admin.
  - Custom Development

* - Only planned to support SAP NetWeaver 2004s

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IT Scenario: SAP NetWeaver Operations
Variant: Implementation Support and Software Maintenance

Variant: Implementation Support and Software Maintenance

New Tool: Software Lifecycle Manager
- Supports both planning and validation of system landscapes
- Usage-type-specific installation with minimized manual steps:
  - Required Installable units get installed together fast and easy with minimal manual preparation
  - Usage-type-specific configuration templates ease completion of implementation process for your landscape
- Improved customer-specific documentation
- Routine software maintenance tool enhancements:
  - Improved and simplified functionality when implementing SAP Notes
  - New dedicated tool for importing Java support packages and streamlined patch procedure
  - Support for planning, downloading, and handling of support package stacks
- Release upgrade tool enhancements:
  - New, robust Java upgrade procedure implemented
  - Upgrade tools enhanced to provide synchronizing of downtime

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Variant: Monitoring SAP NetWeaver

New Tool: SAP NetWeaver Administrator (SAP NWA)

- New central administration and monitoring tool for SAP NetWeaver system landscapes
- Supports both ABAP and Java environments

Capabilities:

- Availability monitoring
- Performance reports
- Central log collection and viewing
- Central Java administration
- Providing Central ABAP administration
- Central scheduling

Mandatory supportability features for SAP Java applications:

- Logging
- JARM implementation
- JMX monitoring
- Availability Monitoring (GRMG)

Administrative tools can be integrated as plug-ins
Screen shot of SAP NetWeaver Administrator

Exceptions and Work Items
- Alerts: 20
- Tasks: 10
- Notifications: 5
  - Approvals: 4
  - Open Items: 6

System Status Overview

Overview of System State
- Total no. of systems: 334
- Unavailable Systems: 10
- Systems with red alerts: 15
- Systems crossing warning thresholds: 55
- Systems without performance data: 75
- Systems not monitored: 106
- Systems that are ok: 100

Revenue by Region

North America

Europe

$50
$38
$32
$25
$18
$13
$0
FY98 FY99 FY00 FY01 FY02

Switch to detailed table format
Variant: Data Archiving

Archive Routing
- Allows for easier data segregation during archiving to support end-of-life data scenarios

XML-Based Archiving
- Standards-based archiving functionality for ABAP and Java solutions
- Flexible and system-independent distribution and storage options

Additional Archiving Objects
- Covering all fast growing tables in ABAP
- Including new XML archiving objects available for ABAP and some Java applications

Table Analysis Function
- Optimized table analysis capabilities

Access Options for Archived Data
- Archive information system for ADK-based archiving
- Search API and property indexes for XML-based archiving

Near-Line Storage support for BI Capabilities of SAP NetWeaver data warehouses
- Integrated near-line storage feature supporting infrequently read large volume data stores
- Implemented via open API, so customers can choose their near-line storage vendor
IT Practice: Application Governance and Security

IT Scenario: Authentication and Single Sign-on (SSO)
Variant: 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

IT Scenario: Integrated User and Access Management
Variant: Integrated 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**
  - Supports fine granular security for enhanced query security
  - Increased ease of use and administration for complex security
Variant: Enabling the coexistence of several portals

- **Portal-in-Portal integration**
  - The portal capabilities of SAP NetWeaver can be integrated in WebSphere portals with basically no runtime limitations
  - WebSphere running in an iFrame with the portal capabilities of SAP NetWeaver

- **Support of Web Services for Remote Portlets (WSRP)**
  - WSRP could be leveraged for consumption of 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!
Further Information at SAP NetWeaver® 2004s

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
  

- SAP NetWeaver 2004s Master Planning guides
  
  http://service.sap.com/instguides