

SAP BW 3.5 Features List

Version 5.1, October 18, 2004

Product Management BI

General Release Information

Information Broadcasting

Universal Data Integration

SAP NetWeaver Integration

Business Planning & Simulation

BI Suite / BI Platform / Data Warehousing

Unicode

Outlook

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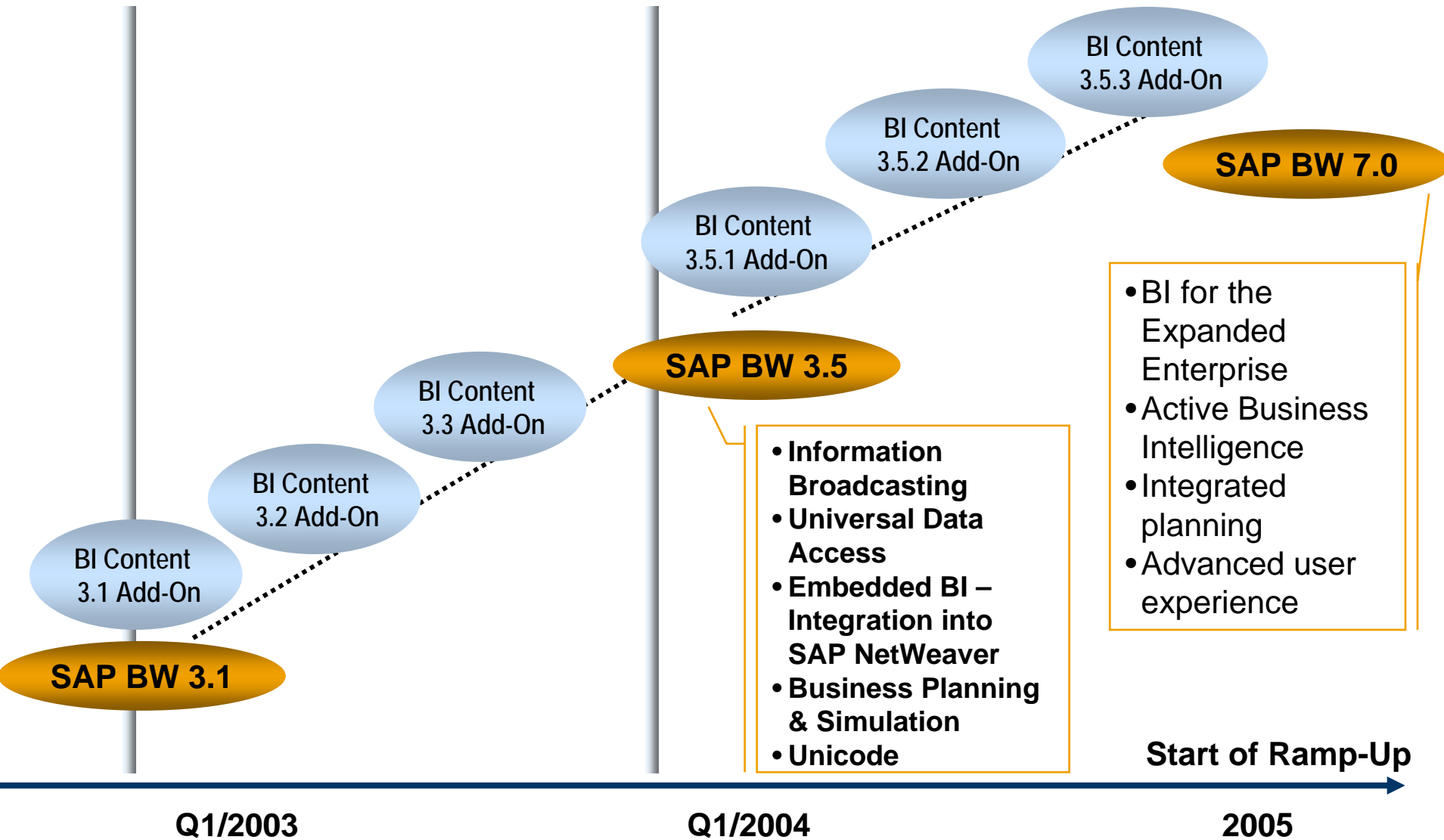
Ramp-up

- SAP's new process standard for launching its solutions to the market
- ONE standardized and transparent process for ALL SAP solutions
- Note that ramp-up customers are allowed to go live
- During the ramp-up phase (restricted shipment phase), the number of customers is increased in a controlled fashion
- During the subsequent unrestricted shipment phase, any customer can obtain the release
- For general ramp-up information, see SAP Service Marketplace alias ramp-up

SAP NetWeaver '04 Ramp-up

- SAP BW 3.5 ramp-up is part of SAP NetWeaver '04 ramp-up
- Application via internal SAPnet alias /nw-ramp-up
- Mass shipment planned for end of Q3 2004

Roadmap – Timeline and Focal Points



SAP BW 3.5 and SAP NetWeaver '04 Ramp-up

- The following products will be synchronized in terms of start of ramp-up and functional integration as of Q1 / 2004
 - ◆ SAP Web AS 6.40
 - ◆ SAP Exchange Infrastructure 3.0
 - ◆ SAP BW 3.5
 - ◆ SAP Enterprise Portal 6.0 SP3
 - ◆ SAP MI 2.5
- Mass Shipment of SAP BW 3.5 is planned for Q3 2004
- SAP NetWeaver and SAP Master Data Management
 - ◆ SAP MDM 2.0 ramp-up will start in Q3/2003
 - ◆ Functional integration with SAP BW 3.0B, SAP BW 3.1 Content and SAP BW 3.5
 - ◆ Scenarios
 - Content Consolidation
 - Master Data Harmonization
 - Central Master Data Management

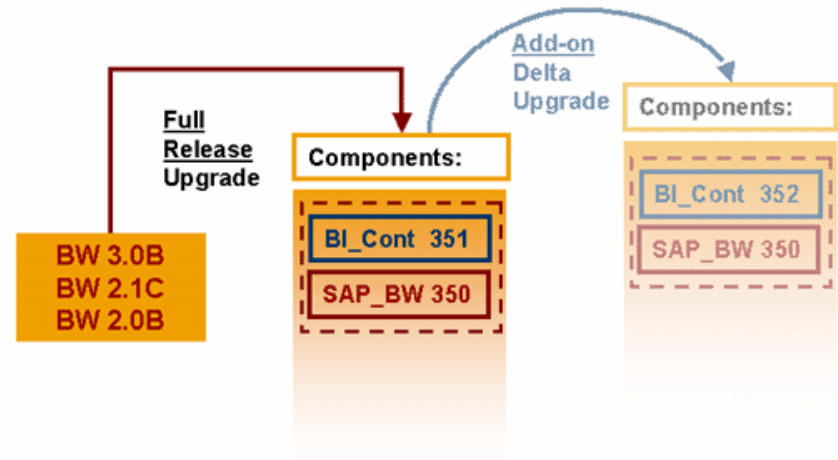
SAP BW Content Add-Ons

- Starting from SAP BW 3.1 Content, content will be shipped as an Add-On, which can be applied to a BW release (SAP BW 3.1 Content, SAP BW 3.5, SAP BW 7.0, ...)
- The BI Content Add-Ons are shipped on supplement CDs
- Three content Add-Ons are planned for SAP BW 3.5: BI Content 3.5.1, BI Content 3.5.2, BI Content 3.5.3 (applied via delta upgrade – duration: about 1-2 hours)
- Technical upgrades are only necessary for SAP BW releases
- Note that SAP BW 3.5 with BI Content 3.5.1 Add-On contains the same content as SAP BW 3.1 Content with BI Content 3.3 Add-On
- Delivery Dates
 - ◆ BI Content 3.5.1 Add-On will be delivered at the same time as SAP BW 3.5
 - ◆ BI Content 3.5.2 Add-On will be delivered in the week of June 15, 2004 only for Ramp-up customers
 - ◆ BI Content 3.5.3 Add-On will be shipped in the week of November 30, 2004.

Upgrading to SAP BW 3.5

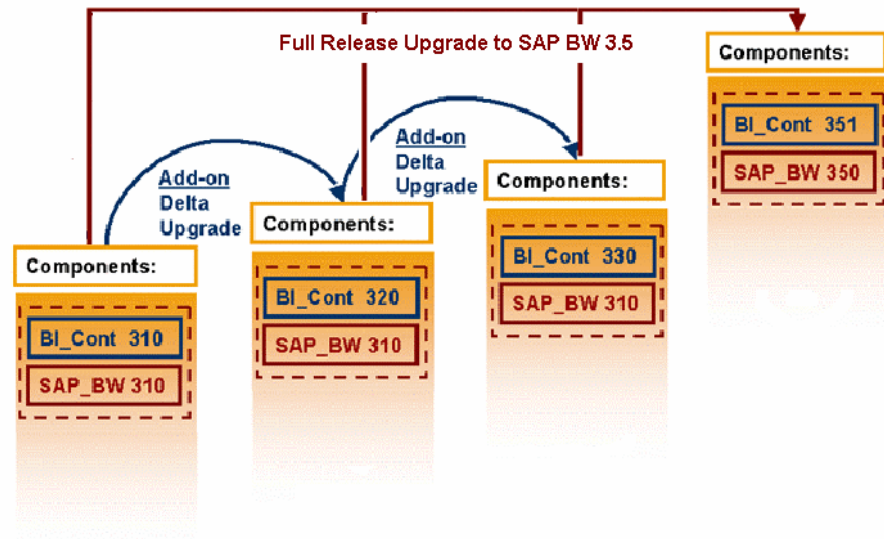
Upgrade from SAP BW 2.x and SAP BW 3.0B

- Direct Release Upgrade possible



Upgrade from SAP BW 3.1 Content

- Direct Release Upgrade from any of the BI Content Add-Ons



Plug-In in SAP BW 3.5

- **PI_BASIS 2004.1_640 is automatically delivered**

Plug-In in source SAP systems

- **All officially supported PI_BASIS / PI releases can be used to connect SAP BW 3.5 to a SAP source system (see OSS note 153967)**
- **Extractors are delivered with PI; for up-to-date versions of extractors, it is recommended to apply the latest PI in the source system**

Database Restrictions

- **IBM DB2 for zOS V8 won't be released before June 2004**
 - ◆ **Note: DB2 for OS/390 V7 does not support NetWeaver components**

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Information Delivery

■ Scenario

- ◆ Enable end users to broadcast and schedule reports at their will
- ◆ Online & pre-calculated data
- ◆ BI Portfolio as single point of entry to complete BI information via the SAP Enterprise Portal

■ Feature Description

- Usage of SAP Enterprise Portal 6.0 Knowledge Management (KM) Services to share & disseminate insights and to support the decision making processes (**Pre-requisite SAP NetWeaver '04 SP Stack 2**)
 - ◆ Subscription, feedback, discussion, collaboration, rating, TRES search, etc.
 - ◆ Java Repository Manager to enable all SAP BW meta data, master data and transactional documents as well as pre-calculated queries/templates for KM Services
- Easy Broadcasting of BW data via e-mail (**does not require SAP EP**)

Single (web-based) wizard to disseminate personalized BI information portfolios

- Including direct parameterized pre-calculation for power users
- Including one-step personalized pre-calculation for end-users

Pre-calculated, online and offline reporting documents...

- BI Web Applications - Dashboards, cockpits
- BEx Analyzer Workbooks
- Queries

... in different modes...

- Online & pre-calculated

... in different formats ...

- HTML
 - ◆ Device specific (Web Browser, Mobile devices, etc.)
- BEx Analyzer Workbooks
- Emails (using HTML attachments or Multipart Html (MHTML))
- ZIP Files

... containing different kinds of information.

- OLAP data, Alerts, Embedded Documents and Filter Navigation

What Triggers The Broadcasting?

Event based (“Intelligent push”)

- Integration into process chains
 - ◆ New data is loaded to the InfoCube

Ad hoc

- BEx Broadcaster for end users

Scheduling

- End user: Scheduling via BEx Broadcaster
 - ◆ Guided scheduling times
 - ◆ Time points are provided by administrators
 - ◆ Ensures system performance because of better load balancing
- Administrator: Scheduling for specific user groups
 - ◆ No time restriction and no target restriction
 - ◆ Scheduling for other users
 - ◆ Pre-calculations based on the data authorizations of the target user

Accessing the Business Explorer (BEx) Broadcaster

The BEx Broadcaster is available:

■ From the menus of the:

- ◆ BEx Query Designer.
- ◆ BEx Analyzer.
- ◆ BEx Web Application Designer.

■ As a web item in the Web Application Designer and can be embedded in any web template.

■ From the Context Menu of a BW report.

The image displays three screenshots illustrating the BEx Broadcaster's availability:

- Query Designer:** A screenshot of the 'Query Designer: US_ASUG_SALES - Sales per Product Group and Channel' window. The 'Broadcast...' option is highlighted in the context menu.
- BEx Web Application Designer:** A screenshot of the 'BEx Web Application Designer' window. The 'Broadcaster' web item is highlighted in the 'Web Items' list.
- BW Report Context Menu:** A screenshot of a BW report titled 'Sales per Product Group and Channel'. The 'Distribute' option is highlighted in the context menu.

Product group	Distribution Channel	Net Sales	Billed
Accessories	Internet	\$ 396.636,60	150
	Fax	\$ 677.025,25	250
	Others	\$ 167.179,73	60
	Phone	\$ 486.891,02	180
	EDI	\$ 430.318,57	150
	Result	\$ 2.158.051,18	820
Office	Internet	\$ 331.090,70	90
	Fax	\$ 587.004,78	160
	Others	\$ 143.194,59	40
	Phor		

▼ **Web Template Sales (with Chart and Ticker)**

1 6: Broadcasting Wizard

Generation Type	Precalculation of Web Templates
Output Format	HTML Format Compressed as ZIP File
Distribution Type	Send as E-Mail
Internal Receipients	
SAP User in BW System	BEAVERS
Authorization User in BW	Use Following User
User	BEAVERS
Language	English
Mail texts	
Subject	&OBJECT_TYPE& &OBJECT_ID&
Mail body	&SETTING_ID& &SY_DATE& &SY_TIME&
If possible: use document as mail body	

Cancel Back Continue Execute

The initial screen lists the default settings for the broadcasting options.

▼ Web Template Sales (with Chart and Ticker)

2 6: Document Format and Type of Distribution

Generation Type

Output Format

Distribution Type

Distribution Type

Output Format Options:

- HTML Format Compressed as ZIP File
- MHTML Format
- HTML Format
- MHTML Format Compressed in ZIP File
- Excel in MS Office XML Format
- Excel in MS Office XML Format [in ZIP File]

Generation Type:

- Precalculation of Web Templates
- Generating HTML Links

Distribution Type:

- Send as E-Mail
- Export to Enterprise Portal

Broadcasting Wizard – Identify Recipients

▼ Web Template Sales (with Chart and Ticker)

3 6: Internal Recipients

Please specify user name of mail recipients. You can use roles to send mails to all users assigned to this role.

SAP User in BW System

Role in BW System

Authorization User in BW

Use Following User

User

Language

Create BI Documents Specific to Users

Recipients include:

- SAP BW Users
- SAP BW Roles
- External E-Mail Addresses

▼ Web Template Sales (with Chart and Ticker)

4 6: External Recipients

Please enter e-Mail addresses of external recipients. Maintain user and language to be used for document creation.

E-Mail Addresses

Create Mail with User

Create Mail in Language

Broadcasting Wizard – Add Text and Broadcast

▼ **Web Template Sales (with Chart and Ticker)**

5 6: Texts

Please maintain texts for the subject and the body of the mail. You can make use of text variables.

Subject

Mail body

If possible: use document as mail body

▼ **Web Template Sales (with Chart and Ticker)**

6 6: Summary

Generation Type	Precalculation of Web Templates
Output Format	MHTML Format
Distribution Type	Send as E-Mail

Internal Recipients

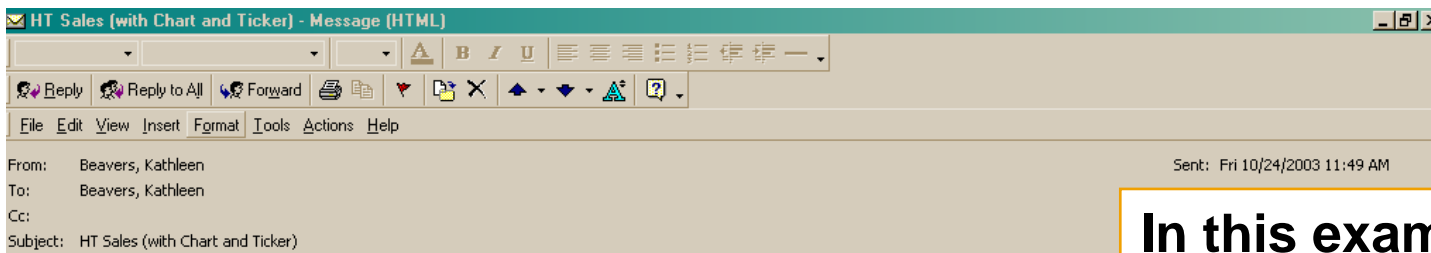
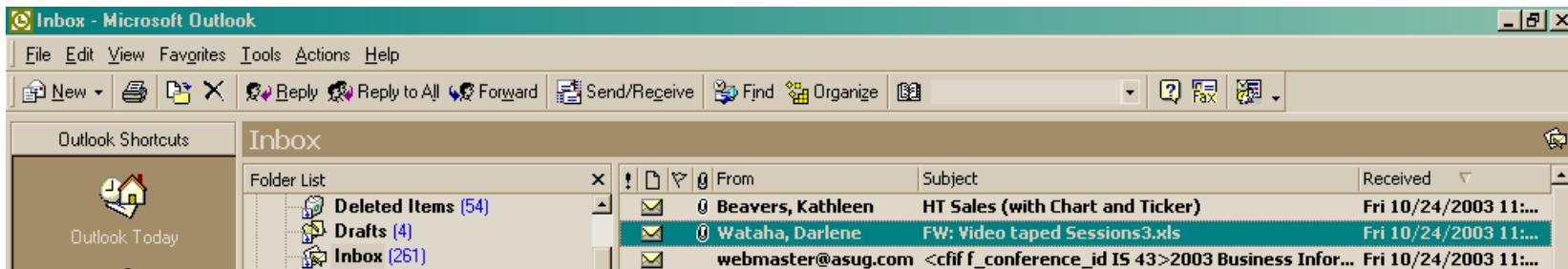
SAP User in BW System	BEAVERS
Authorization User in BW	Use Following User
User	BEAVERS
Language	English

Mail texts

Subject	&OBJECT_TYPE& &OBJECT_ID&
Mail body	&SETTING_ID& &SY_DATE& &SY_TIME&
If possible: use document as mail body	

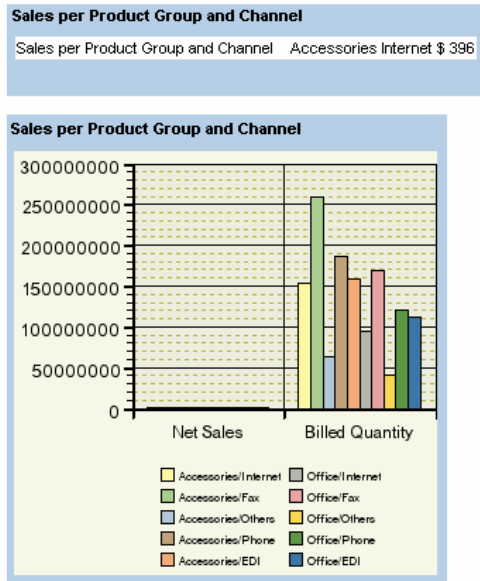
- **Complete your broadcasting definition by adding text.**
- **Review a summary of your parameters to validate your selections and execute broadcasting.**

View of E-Mailed Pre-Calculated Report



In this example, we have chosen to E-Mail the report in MHTML format. The report is now available in the recipients inbox.

Sales per Product Group and Channel			
Product group	Distribution Channel	Net Sales	Billed Quantity
Accessories	Internet	\$ 396.636,60	153.126.942 PC
	Fax	\$ 677.025,25	259.092.106 PC
	Others	\$ 167.179,73	62.779.682 PC
	Phone	\$ 486.891,02	186.718.289 PC
	EDI	\$ 430.318,57	159.139.985 PC
	Result	\$ 2.158.051,18	820.857.004 PC
Office	Internet	\$ 331.090,70	94.092.864 PC
	Fax	\$ 587.004,78	168.380.042 PC
	Others	\$ 143.194,59	40.916.813 PC
	Phone	\$ 415.953,89	120.093.206 PC
	EDI	\$ 366.251,04	111.272.441 PC
	Result	\$ 1.843.494,99	534.755.366 PC
Overall Result		\$ 4.001.546,17	1.355.612.370 PC



Seamless deployment of BI Applications into SAP Enterprise Portal

- **Easier deployment of BI Applications for Query and Web Application Designers**
 - ◆ Into SAP EP 6.0 Portal Content Directory (PCD) as iView
 - ◆ Into SAP EP 6.0 Portal Roles (open) as iView
 - ◆ Into SAP EP 6.0 Collaboration Rooms as KM object
 - ◆ Into SAP EP 6.0 KM folders as KM object

- **Automatic deployment of BI Applications for end-users**
 - ◆ Into SAP EP 6.0 Collaboration Rooms as KM object
 - ◆ Into SAP EP 6.0 KM folders as KM object

- **No more manual export/import of iView files necessary**

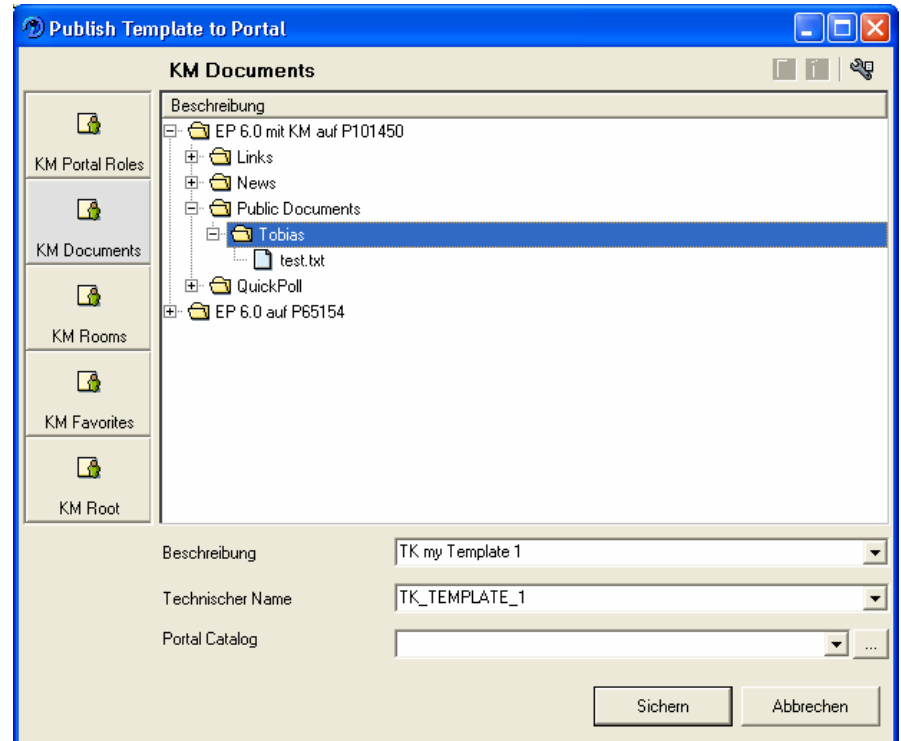
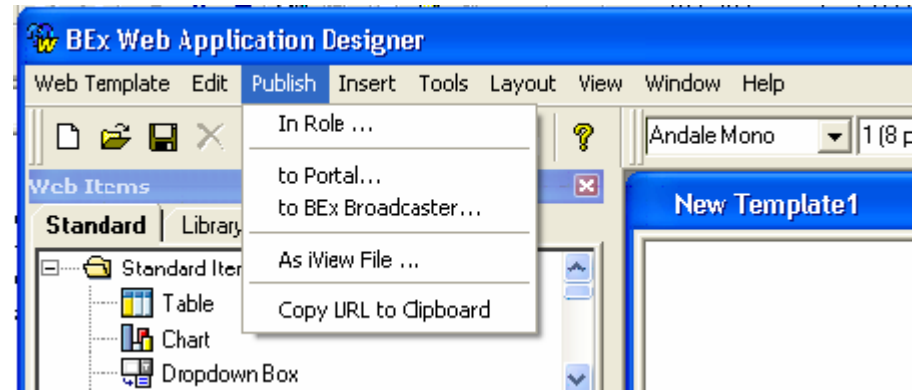
Publishing from SAP BW to the Enterprise Portal

Publish to Portal Content Catalog

- Administrative view
- Create iView
- Manual assignment to Portal Page or Portal Role

Publish to Portal

- End user view
- Create KM Link in BEx Portfolio or other KM Folder



The screenshot displays the SAP BEx Portfolio interface. At the top, a navigation bar includes 'Welcome Michael Igelbrink', 'Help', 'Personalize', 'Log Off', and the SAP logo. Below this, a breadcrumb trail shows 'BroadcastingOverview' and 'Broadcasting Overview'. The main content area is titled 'Broadcasting' and contains two content items:

- Dal Segnio Szenario**: A web template created by BW Broadcasting with setting Dal Segnio on 22.10.2003 at 07:46:24. It has a priority of HIGH, was modified on 10/22/03 at 9:03:27 AM, and was created by admin, admin. It has a rating of 4 out of 5 stars.
- Sales Figures**: A sales overview for North America last year. It has a priority of MEDIUM, was modified on 10/22/03 at 9:07:13 AM, and was created by admin, admin. It was modified by Igelbrink, Michael. It has a rating of 4 out of 5 stars.

Below these items is a 'Sales Overview' section for North America in 2003, with a priority of MEDIUM, modified on 10/22/03 at 9:02:43 AM, and created by admin, admin. It also has a rating of 4 out of 5 stars.

Each content item includes a set of action links: 'Add to Favorites', 'Subscribe', 'Send To', 'Give Feedback', 'Rating', 'Details', and 'Delete'.

BEx Portfolio

- BI Applications are displayed with detailed information including Collaboration features
- ➔ Guided navigation
- Entry page for BW content in EP
- Only one BEx Portfolio per Portal User

BI Applications as KM Documents

- BI Application (BW Web Application) is now a KM object
- KM Document if pre-calculated query or workbook
- KM Link if online BW report
- Use KM Services for:
 - ◆ Subscription
 - ◆ Feedback
 - ◆ Discussion
 - ◆ Collaboration
 - ◆ Rating
 - ◆ TRES search

Welcome Michael Igelbrink

BroadcastingOverview
Broadcasting Overview

Broadcasting

BroadcastingOverview

Contents of *BroadcastingOverview*

Dal Segno Szenario

Dal Segno Company Frameset Web Template created by BW Broadcasting with Setting Dal Segno on 22.10.2003 at 07:46:24

Modified: 10/22/03 9:03:27 AM
Precalculation Time: 10/22/03
Priority: HIGH
Created By: [admin, admin](#)
Modified By: [admin, admin](#) Rating: ■■■■□

[Add to Favorites](#) | [Subscribe](#) | [Send To](#) | [Give Feedback](#) | [Rating](#) | [Details](#) | [Delete](#)

Sales Overview

Sales Overview North America in 2003

Modified: 10/22/03 9:02:43 AM
Precalculation Time: 10/22/03
Priority: MEDIUM
Created By: [admin, admin](#)
Modified By: [admin, admin](#) Rating: ■■■■■□

[Add to Favorites](#) | [Subscribe](#) | [Send To](#) | [Give Feedback](#) | [Rating](#) | [Details](#) | [Delete](#)

Prototype BEx Portfolio with Flex UI

Different icons for different report types, e.g.,:

Web Applications,
Queries,
Workbooks,
Online, offline



Sales Analysis per Region

Two pie graphs highlightin customer attrition and account closings following loan denial.

Owner Administrator

Modified 2003-04-23

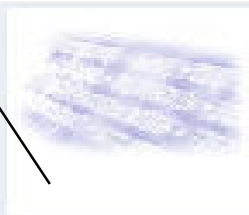
Precalculation 2003-04-20

Priority High

Rating



[Subscribe](#) | [Favorites](#) | [Send To](#) | [Give Feedback](#) | [Rate](#)



Data Mining Offline Portfolio

This report compares loan denial dates with account closing dates to indicate a correlation.

Owner Administrator

Modified 2003-04-23

Precalculation 2003-04-20

Priority High

Rating



[Subscribe](#) | [Favorites](#) | [Send To](#) | [Give Feedback](#) | [Rate](#)

General Release Information

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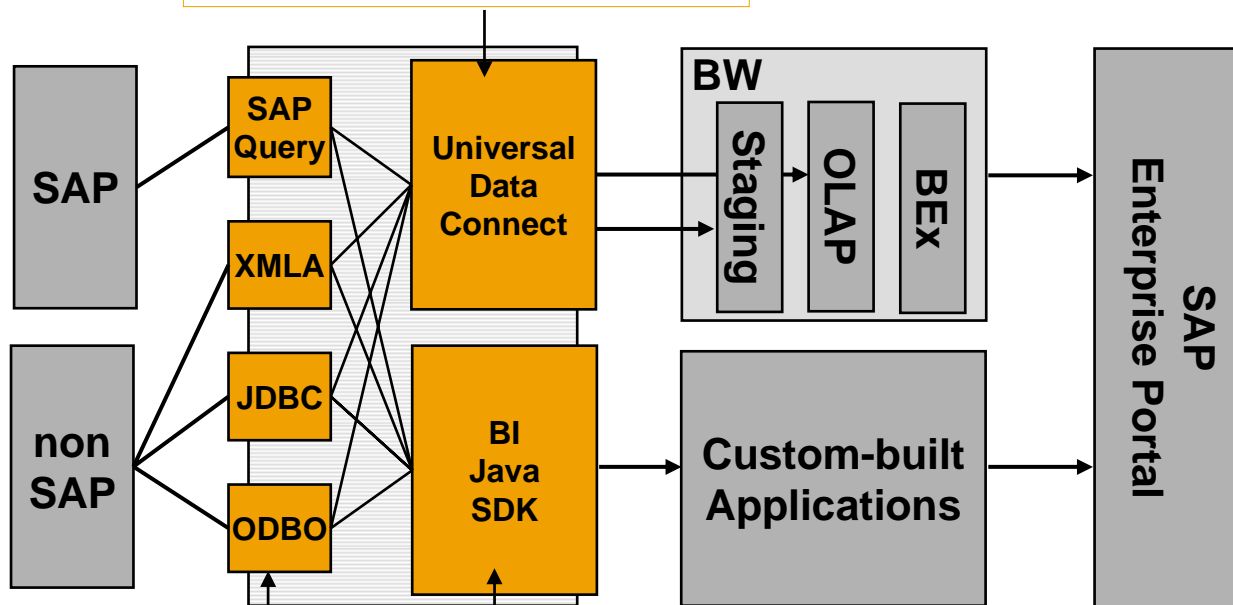
Outlook

Universal Data Integration

Universal Data Integration

- BI Java Connectors to provide access to various data sources (via interfaces JDBC, XMLA, OLE DB for OLAP, SAP Query)
- Based on industry standards for interoperability (JDBC, XMLA, ODBO)
- Universal Data Connect to integrate data into BW platform
- BI Java SDK for custom built Java Applications

2. Universal Data Connect SAP BW Integration



1. BI Java Connectors
JDBC, XMLA, ODBO, SAP Query

3. BI Java SDK
Java API, Examples, Documentation

Connectors for various data sources

→ Leverages SAP Web AS 6.40 J2EE connectivity for SAP BW

→ Basis for Universal Data Connect and BI Java SDK

■ Relational Sources

◆ BI JDBC Connector

- Industry Standard API for relational DBMS
- Connectivity to 190+ JDBC drivers providing data access to: Oracle, MS SQL Server, Teradata, MS Access, DB2, Sybase, Excel, text files (CSV), etc.
- See <http://java.sun.com> for more information

◆ BI SAP Query Connector

- Connectivity to operational SAP applications
- SAP R/3, SAP CRM, Ad-hoc, operational

■ OLAP Sources

◆ BI OLE for OLAP Connector

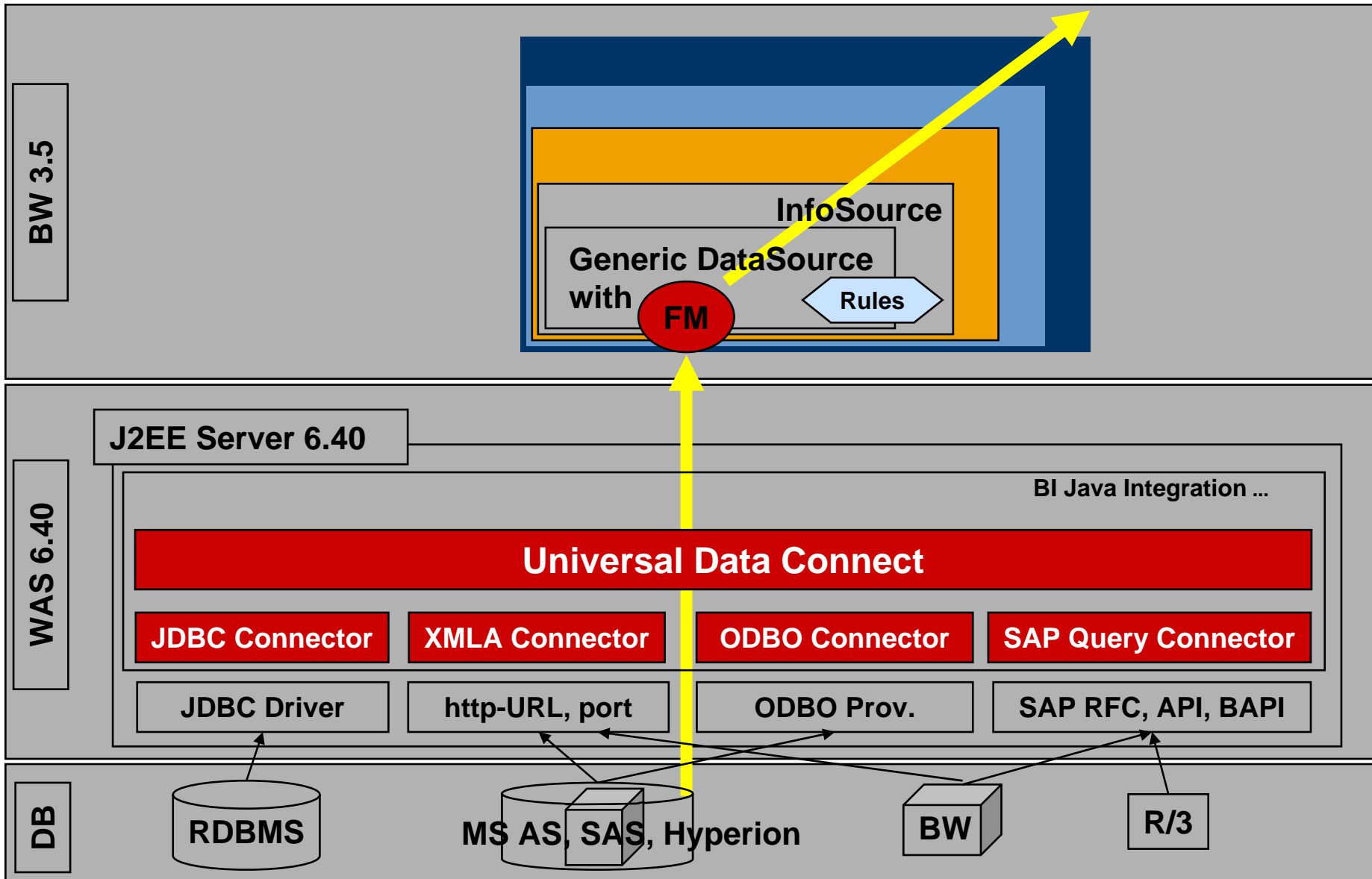
- Industry Standard OLAP API for MS Windows platforms
- Connectivity to MS Analysis Services, SAS, MS PTS, SAP BW

◆ BI XMLA Connector

- Web Service-based, platform-independent access to OLAP sources
- Connectivity to MS Analysis Services, Hyperion, MicroStrategy, MIS, SAP BW 3.x

■ The set of connectors will be extended in further SAP BW releases

Universal Data Connect - Architecture



■ Scenario

◆ Connection of various systems to SAP BW

- For examples, Extraction/Remote Access from a relational database via open interface JDBC
- For example, Extraction/Remote Access from OLAP source using OLE DB for OLAP and extraction from an OLAP source using XML for Analysis

■ Feature Description

◆ Based on BI Java Connectors

◆ Enhancing SAP BW Openness: Connectivity to virtually all data sources

- Extraction of Data
- Remote Access

◆ Easy-to-use wizard to deploy the Java-based connectors in SAP BW

BI Java SDK Integration

■ Scenario

- ◆ Building own Java Applications accessing SAP (BW) or Non-SAP data

■ Feature Description

- ◆ Access to all SAP or Non-SAP sources supported by Java Integration Adapters (JDBC, XMLA, OLE DB for OLAP, SAP Query)
 - Access to multidimensional SAP BW analyses via XMLA or OLE DB for OLAP
- ◆ Java SDK (Software Development Kit) for custom built Java applications

■ Java SDK benefits

- ◆ Easy to use and learn
 - Simplified command interfaces hide the complexity of underlying low-level data access protocols (MDX, SQL, HTTP, JNI ...)
 - Leverages resources, skills, and infrastructure customers already have
 - Provides complete documentation on an API level (Javadocs), tutorials, and examples
- ◆ Based on open and accepted standards for interoperability
 - Common access APIs (JMI)
 - Common meta models (CWM)
 - Common interchange format (XMI)
 - Connection management (JCA)

General Release Information

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Universal Data Integration

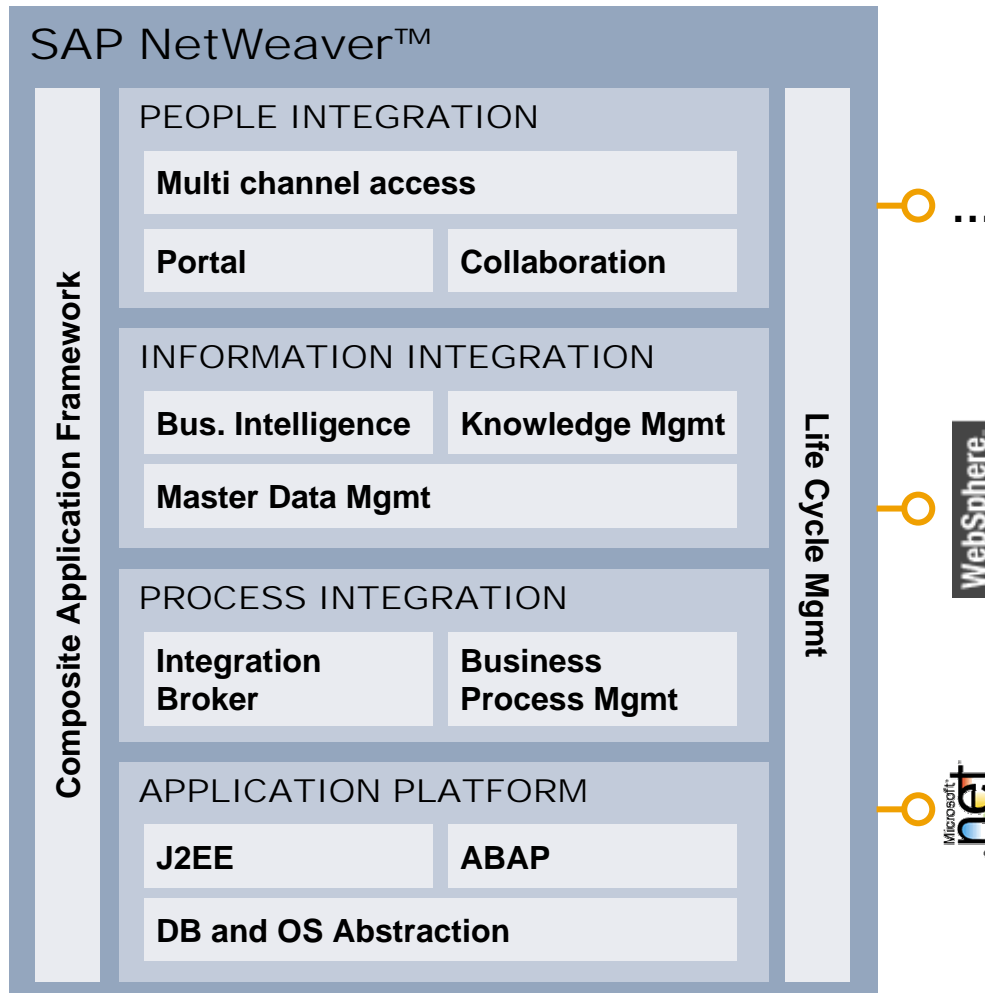
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Outlook



The open integration and application platform for TCO reduction

- Integrate people, information and processes...
- ... in 1 hub ...
- ... across technologies and organizations.
- Enterprise-scale Java and ABAP application platform
- .NET and WebSphere interoperability and extensibility
- Pre-configured with business content
- Adapters to non-SAP

SAP Exchange Infrastructure (XI) Integration

Inbound Message Processing

■ Scenario

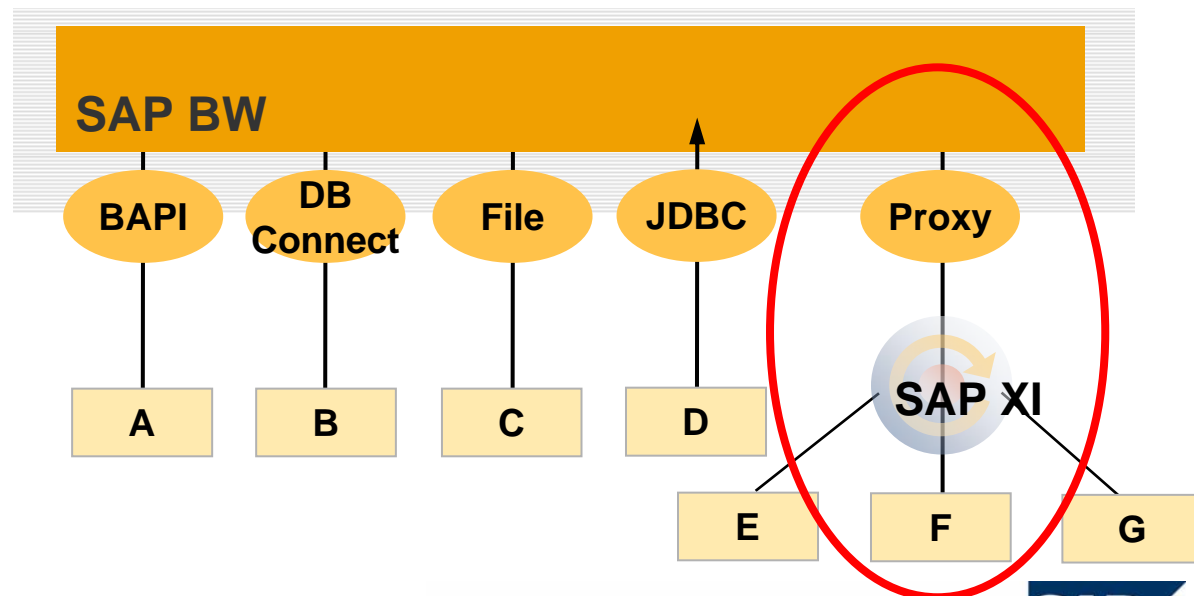
- ◆ Global Spend Scenario
- ◆ SAP XI as single point to channel information exchange between various systems
- ◆ Using SAP XI as additional source for SAP BW
 - Event-driven and transaction-oriented

■ New Guideline with SAP BW 3.5

- ◆ Guideline of integrating SAP XI 2.0 and 3.0 as a SAP BW source on basis of existing technologies (XML, http/SOAP)

■ Compatibility

- ◆ Prerequisite:
SAP XI 2.0
or SAP XI 3.0



BI Web Services

■ Definition of Web Service

- ◆ A Web Service is a software component that can be described, discovered and executed using open Internet standards such as WSDL (Web Service Description Language), SOAP, XML, HTTP
- ◆ For the caller or sender, a service is a black box that may require input and delivers a result. Web Service cover the provision of services for integration within an enterprise, as well as cross-enterprise services on top of any communication technology stack, whether synchronous or asynchronous
- ◆ Web Services are a new feature of SAP Web AS 6.40

■ Scenarios and Features

- ◆ Following Features are released as web services and can be accessed via open standards
 - XML Data Load
 - XML for Analysis: Connection of 3rd party front-end vendors to BW OLAP Engine
 - XML Query Result Set (additional query format XML in addition to XLS and CSV)
- ◆ Example: XML Data Load
 - The meta data for the XML Data Load (function module, DataSource, data fields) can be queried via WSDL
 - The caller can now use XML and HTTP/SOAP to push data into the SAP BW delta queue
- ◆ Example: XML Query Result Set
 - Easy to call: `<SAP_BW_URL CMD='EXPORT' DATA_PROVIDER='MyDataProvider' FORMAT='XML'>`

■ Compatibility

- ◆ Prerequisite: SAP Web AS 6.40

Integration of new SAP Internet Graphics Server (IGS)

■ Scenario

- ◆ Usage of IGS on UNIX platforms

■ Feature Description

- ◆ Platform independence of graphical rendering (charts, maps)
 - SAP IGS 6.40 supports the same platforms like SAP Web AS 6.40 (i.e., Windows, Unix, Linux)
- ◆ Improved Usability
- ◆ New chart designer in BEx Web Application Designer

■ Compatibility

- ◆ Prerequisite: SAP IGS 6.40
- ◆ Note that there is no support for the WebRFC via ITS anymore
 - No more support for SAP BW 2.x web-based BEx Browser
 - No more support for SAP BW 2.x web-based geographical maps

- **Note: If you have worked with the IGS in BW 3.x you will need that IGS version (Windows-based) during the 3.5 Chart Migration process. Afterwards you can use the platform-independent IGS 6.40**

Server Platform Independent Rendering

■ Graphics Card

- ◆ In SAP BW 3.0 The rendering of the Chart depends on the screen resolution and color depth of the machine where the IGS is installed (settings of the graphics card).
- ◆ In SAP BW 3.5 The rendering of the Chart Engine is independent of the graphics card configuration.

■ Colors

- ◆ In SAP BW 3.0 the Chart uses a fixed color palette: the color properties are restricted to the 64 colors of this palette.
- ◆ In SAP BW 3.5 the color properties of the Chart Engine accept any RGB value.

KM Document Integration

■ Feature Description

- ◆ **Seamless Integration of BW documents via a KM Repository Manager**
 - **BW documents can be displayed in the Portal via the Repository Manager. The storage remains in BW.**
 - **Provides access to all SAP BW meta data, master data and transactional documents that are stored in BW.**
 - **Enables KM Services on top of these documents (indexing & search, rating, subscription,etc.).**

■ Compatibility

- ◆ **Prerequisite: SAP Enterprise Portal 6.0 SP3**

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▶ **Unicode**

▶ **Outlook**

Business Planning & Simulation in SAP BW

■ Planning & Simulation Scenarios

◆ Research / Prognosis

- Estimating future situations and evaluating their impact on the enterprise

◆ Target Setting

- Setting goals and milestones

◆ Budgeting

- Evaluating and allocating resources for the achievement of targets

◆ Examples

- Sales Plan, Resource Plan, Cost Center Plan, Profitability Planning

■ Benefits of offering BW-BPS with SAP BW 3.5

◆ No installation of SAP SEM Add-On necessary for usage of planning functionality

◆ One software installation only

◆ One support package cycle

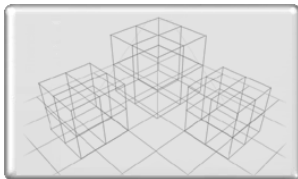
◆ One project budget for planning and analysis

Business Planning & Simulation: Features

Modeling of Planning structures

Planning Framework

- Multidimensional Business Structures
- Definition of work packages
- Hierarchy maintenance
- Version concept
- User authorizations
- Variables maintenance



Manual Planning

Planning and analysis user interfaces

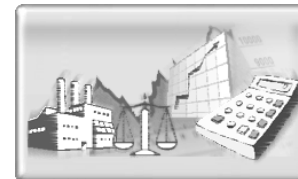
- Planning in Excel
- Planning in Web Interface
- Document management
- Analysis in Business Explorer (Excel and Web)



Automatic Planning

Planning functions

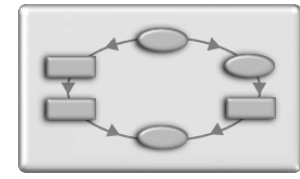
- Copy/delete
- Reevaluate
- Top-down distribution
- Bottom-up aggregation
- Trend analysis
- What-if-analysis
- Simulation
- Planning sequences
- Automatic execution of planning functions



Process Control

Control and distribution of data

- Status and Tracking Monitor
- Retractors for distribution of data to operational systems
- Background processing of planning functions



Enhanced BPS Features

■ Status & Tracking System

- ◆ Customizing of status names (assign your own titles to status)
- ◆ Change subject title of notification mail
- ◆ Improvements in usability of customizing for the administrator

■ Characteristic combinations

- ◆ Usability of modeling is enhanced by providing a log that provides information about
 - When a characteristic value is checked
 - In which level a characteristic value will be derived

■ Manual Planning

- ◆ Predefined totals in rows and columns

■ Planning Functions

- ◆ Statistical Forecast - Additional planning function for forecast
- ◆ Handling of incomplete time series, outliers

Define totals in data columns or individually defined rows:

- If the predefined totals create a hierarchy structure, Excel-Inplace will automatically display the hierarchy structure.
- The predefined totals will be automatically recalculated after manual data change or execution of local functions like distribution or revaluation.

Local fixing (or locking) of cell values:

- Ranges may be locked in Excel – this prevents the values contained in the locked cells against manual changes or changes by automatic planning functions.
- Totals are ready for input and can be changed manually or with BPS local functions. Changed values will be distributed top-down to the lower levels; fixed cell values will not be changed.
- A local distribution function allows to use predefined distribution methods. It is possible to apply the same distribution as in a reference row or to distribute according to previous posted amounts in those cells.
- Select ranges in Excel-Inplace and reevaluate only the selected values. Here one can reevaluate with absolute values (i.e. add or subtract values) or percentages.

Prerequisites:

- SAP NetWeaver '04 SP Stack 4

▶ **General Release Information**

▶ **Information Broadcasting**

▶ **Universal Data Integration**

▶ **SAP NetWeaver Integration**

▶ **Business Planning & Simulation**

▶ **BI Suite / BI Platform / Data Warehousing**

▶ **Unicode**

▶ **Outlook**

Re-usable Patterns in BI Web Applications

■ Scenario

- ◆ Storing web templates and re-using them as items within other web templates, e.g., create a web template with a company logo and header and re-use it in other templates

■ Feature Description

- ◆ Support of re-usable building block templates in Web App Designer and Web Runtime

New Web Items

■ Two XML web items will be provided

- ◆ The catalog of the web objects in the Web Application (e.g., DataProviders, template properties, etc.)
- ◆ The navigational state as XML
- ◆ The customer can use javascript for accessing the information stored in these items and provide enhanced customized navigation possibilities to their users.
- ◆ For example, via javascript a certain cell of the result set could be accessed and used for further processing

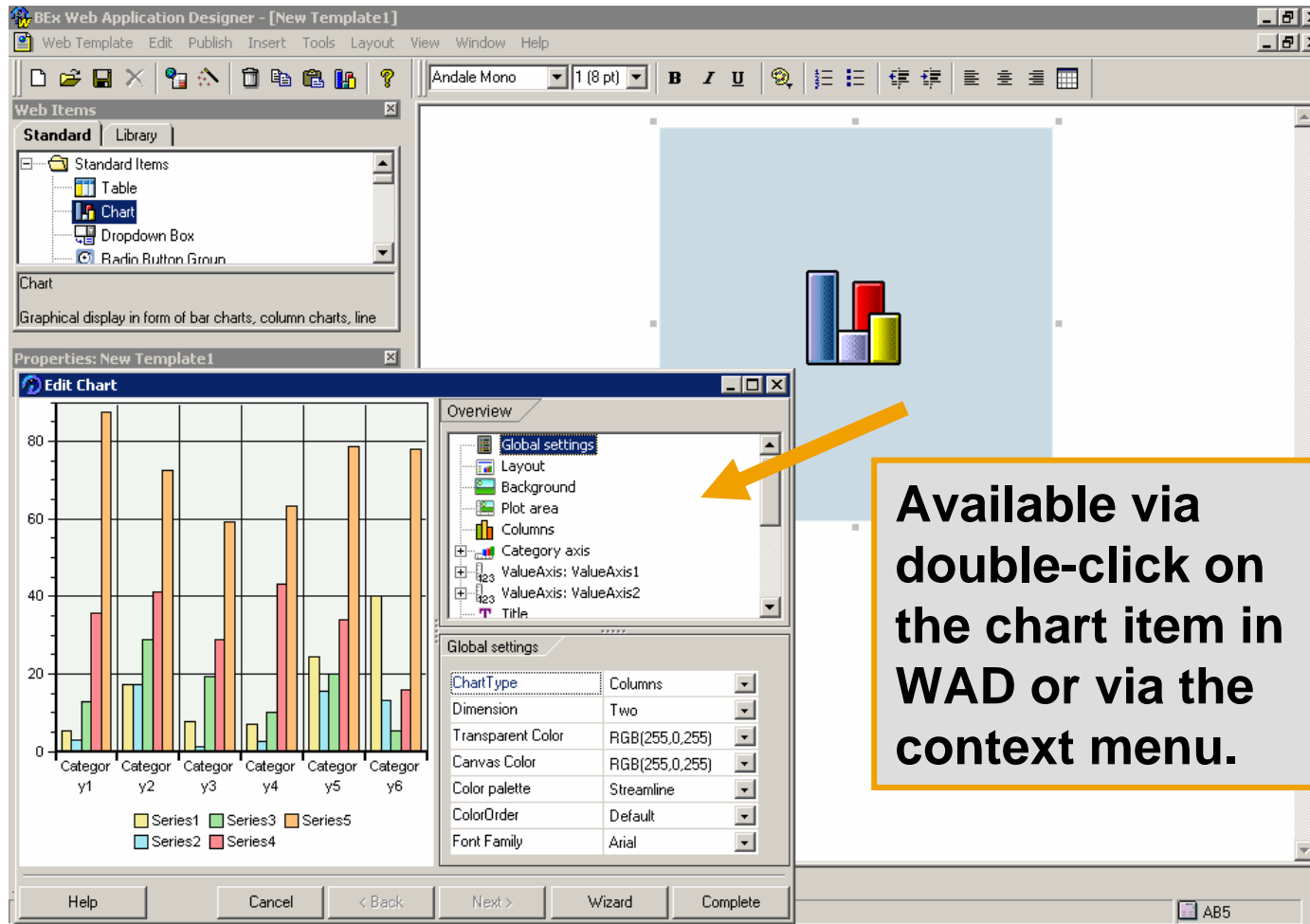
New Web Items continued...

■ New Drop Down Box for Data Views

- ◆ A data view combines a query view (a saved navigation state) together with a certain visualization (e.g., a certain chart type, table, etc.)
- ◆ All maintained data views of a data provider appear as selectable entries in the dropdown box.
- ◆ If the user changes the data view the associated query view is executed and the resulting data are displayed in the target item using the associated table/chart-type.
- ◆ The user can be enabled to create his own user-defined data views The user can only delete his own user-defined data views.
- ◆ The user can choose another default from the dropdown-box by personalizing the template with the desired data view selected

■ New Web Item for Information Broadcasting

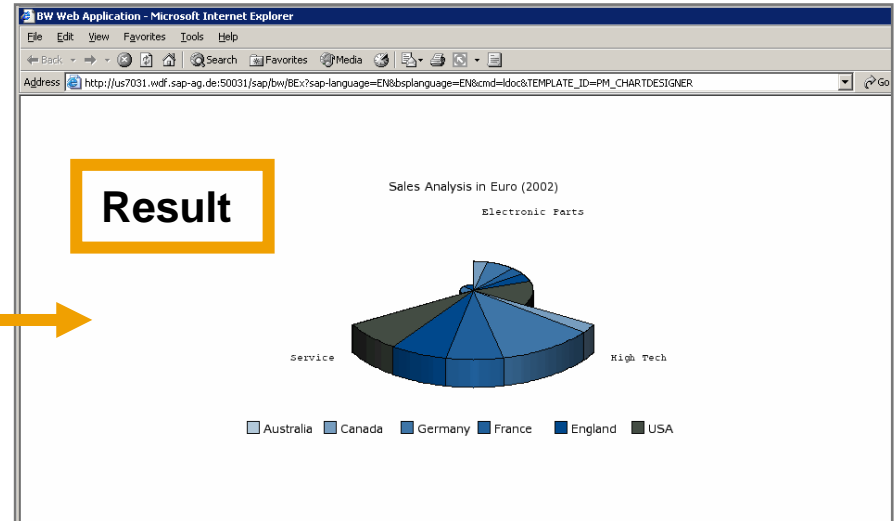
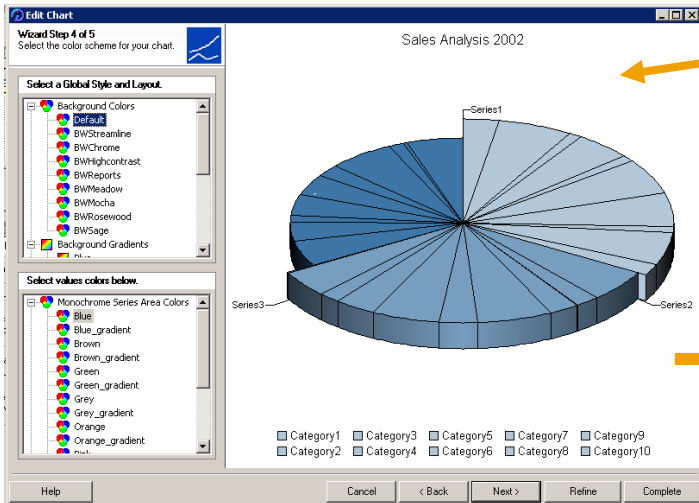
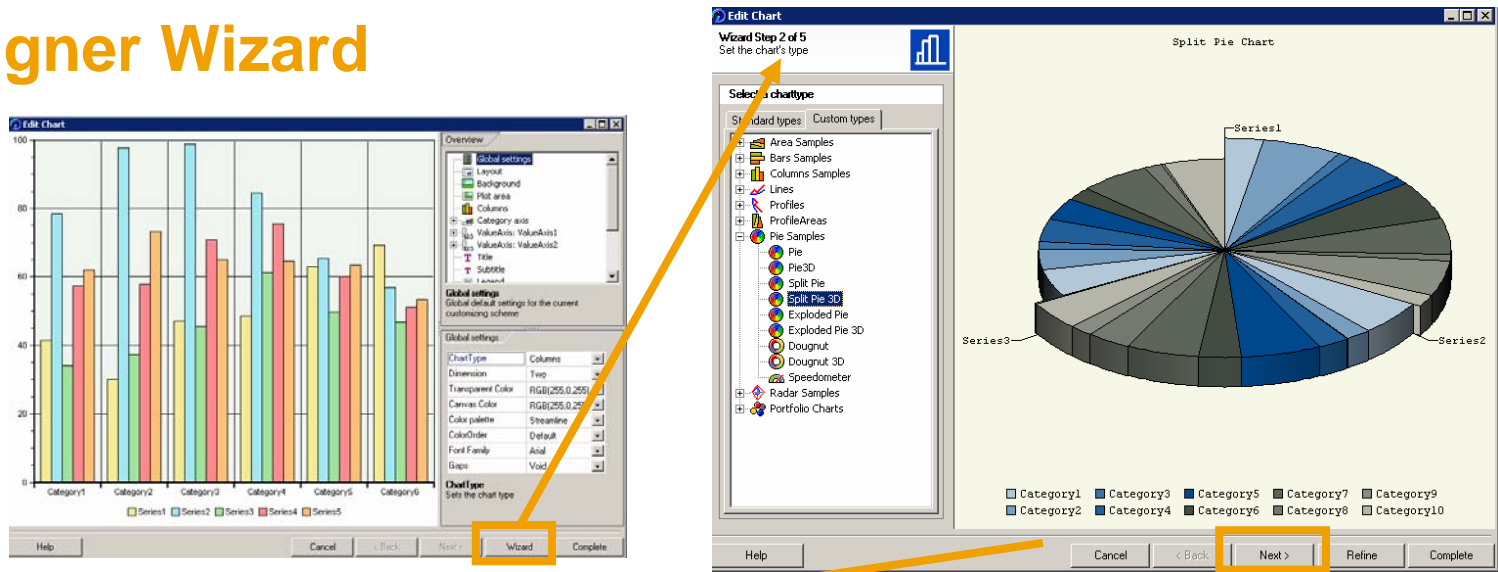
New Chart Designer with integrated Wizard



Available via double-click on the chart item in WAD or via the context menu.

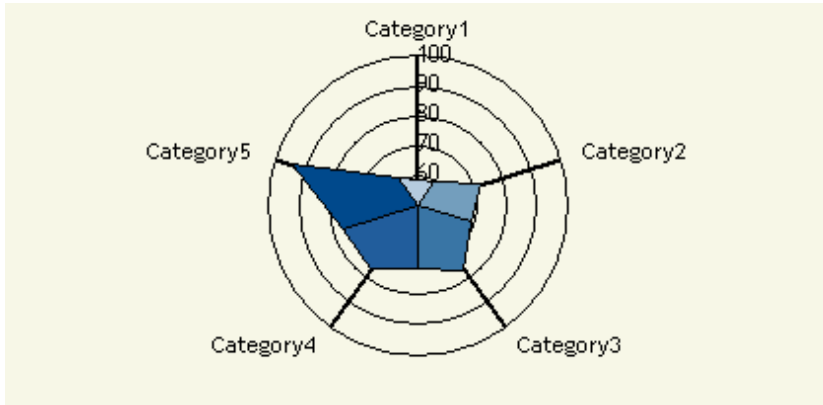
Global settings	
Chart Type	Columns
Dimension	Two
Transparent Color	RGB(255,0,255)
Canvas Color	RGB(255,0,255)
Color palette	Streamline
Color Order	Default
Font Family	Arial

Chart Designer Wizard (Reduced Overview)

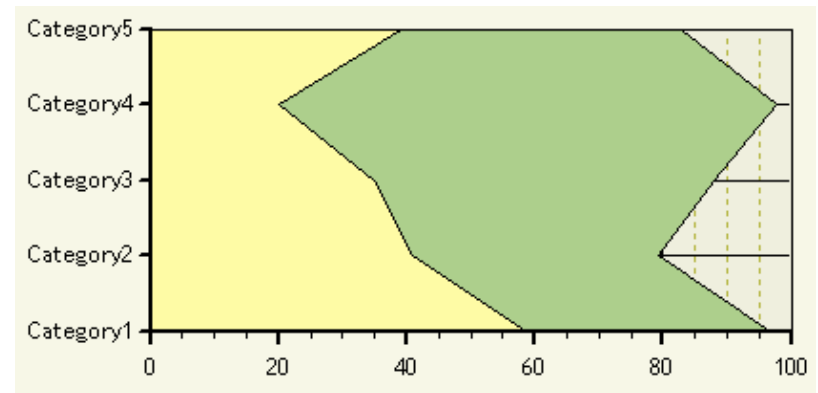


New Features of the Chart Designer:

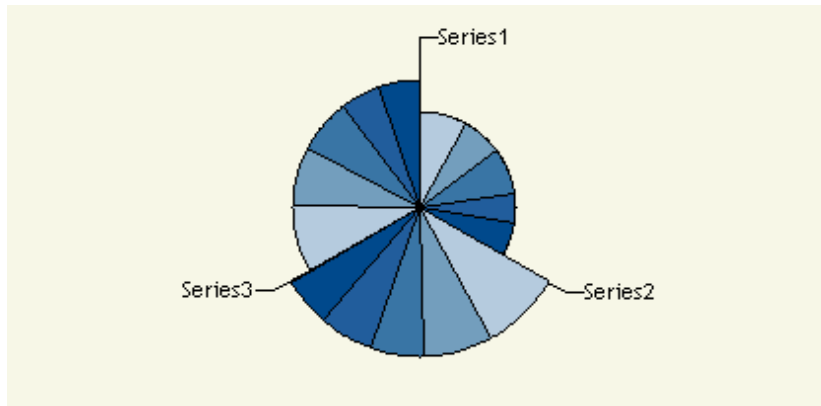
■ New Chart Types - Examples



Polar



Profile Area



Split Pie

Additional Features of the Chart Designer 1:

■ Abbreviation of Category Texts

The category axis of the Chart Engine has an optional mechanism for automatic abbreviation of its texts ("...").

■ ImageMap

Every chart element can be used to generate an image map.

■ Automatic Coloring

Automatic coloring is used to color the series of a chart differently, e.g. the blocks within a columns chart. Several color palettes can be used for automatic coloring of data series; i.e., by switching between these palettes you can easily change all colors.

■ Transparency Color

Any color used in a chart can be shown as a transparent color.

Additional Features of the Chart Designer 2:

■ Chart Title

The Chart Title can be positioned at the top, the bottom, the left or the right of the image. In addition, Sub Titles can be used.

■ Legend entries

The order of legend entries can be switched. Entries for point customizing can be included within the legend.

■ Layout

Automatic and manual layouts are possible. During manual design, relative positions of the chart elements (independent of the image size) can be stored.

■ Font Setting

A global property for the font family is available with the new chart designer. This setting is used by all chart elements if their own font family is set to “Automatic”.

New: BEx Web Analyzer

■ Feature Description

- ◆ Open & Analyze any query in the BEx Web Analyzer
- ◆ Zero footprint
- ◆ Focus: usability & look-and-feel

► [Open Query](#) ► [Open View](#) ► [Save View](#)



Datenanalyse Graphische Darstellung Information Query Design Information Broadcasting

DalSegno Umsatz-Analyse Datenaktualität: 11.06.2003 14:16:15



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	12/ 2003	12/ 2002	%Abw.	YTD 2003	YTD 2002	%Abw.
Nettoumsatz	\$ 248.476	\$ 257.254	-3,4 %	\$ 2.990.775	\$ 2.942.482	1,6 %
Fakturierte Menge	57.003 ST	59.018 ST	-3,4 %	686.108 ST	823.354 ST	-16,7 %
Durchschn. Preis	\$ 4,36 /ST	\$ 4,36 /ST	0,0 %	\$ 4,36 /ST	\$ 3,57 /ST	22,0 %




▼ Zeilen




Kennzahlen  




▼ Spalten




Zeitstruktur  




▼ Freie Merkmale




Branche DB SIC   




Gebietscode   

Kunde   

Produkt   

Produktgruppe   

Regionalcode   

Vertriebskanal   

Enhanced Display Options for Master Data

- **Scenario**
 - ◆ Displaying master data keys and long texts
- **Feature Description**
 - ◆ Additional display options for master data

Hierarchy Node Variable Search

- **Scenario**
 - ◆ Searching for nodes within a hierarchy for a hierarchy node variable in the web-based selection screen
- **Feature Description**
 - ◆ The Search functionality for hierarchy node variables will be delivered in the web

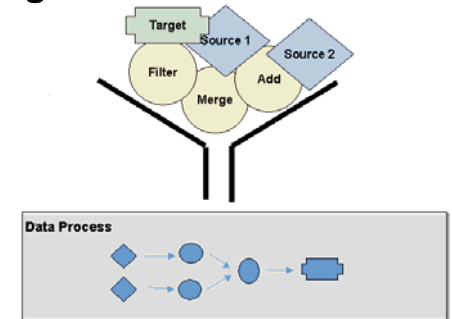
Analysis Process Designer (APD)

■ Scenario

- ◆ Data (available through all SAP BW storage media) can be explored within a multilevel process, applying advanced analytical methods in order to gain new insights from these data. The analytical results are persisted again within SAP BW.

◆ Examples

- ABC-classification (e.g. customer/vendor)
- Determination of the frequency distribution in datasets
- Development of Scoring information
- ...



■ Integration of Data Mining

- ◆ Definition of Data Mining models in DM Workbench, execution of the models in the Analysis Process Designer
- ◆ Extended pre-processing abilities to define and prepare data for training and/or prediction of Data Mining models
- ◆ Extended evaluation and deployment abilities to analyze the results of Data Mining prediction

■ Feature Description

- ◆ Interactive modeling (drag&drop) workbench for analysis processes
- ◆ Infrastructure to link up process elements, being sources (selection of data), targets (deployment of results), pre-processing (transformation) and visualization tools as well as data analysis methods.
- ◆ Analysis of data at every step of the analysis process

Customer / Partner Content

■ Scenario

- ◆ Customers centrally create templates which can be rolled out to subsidiaries (Enterprise DWH)
- ◆ Partners create own content which can be delivered individually to interested customers

■ Feature Description

- ◆ Release of feature, which has been piloted in SAP BW 3.0B
- ◆ Content for objects in SAP BW as well as extractors in Service API in SAP source systems
- ◆ This denotes content in addition to SAP delivered Business Content
- ◆ Content can be shipped via transports
 - Support of partner content only by partner
 - Partner Content can be certified by SAP

New Variables for Currency Conversion

■ Scenario

- ◆ Currency conversion should be done with flexible exchange rate types (e.g., bid rate, ask rate, middle rate), flexible target currency and flexible time reference; these parameters should be set via a variable

■ Feature Description

◆ New variables ...

- for exchange rate type (InfoObject 0RTYPE)
- for target currency (InfoObject 0CURRENCY)
- for time reference (InfoObject 0DATE)

Logical File Names in Open Hub Service

■ Scenario

- ◆ You want to specify a folder where the extracted files should be put to.
- ◆ You want to simulate a request concept for InfoSpoke results: you want to distinguish the result files by the date of creation

■ Feature Description

- ◆ Usage of logical file names for InfoSpoke destinations
 - Variables within file names (e.g. File<date of creation>)
 - Folder as destination
 - System-invariant: logical file names can be transported and used in the target system without a change

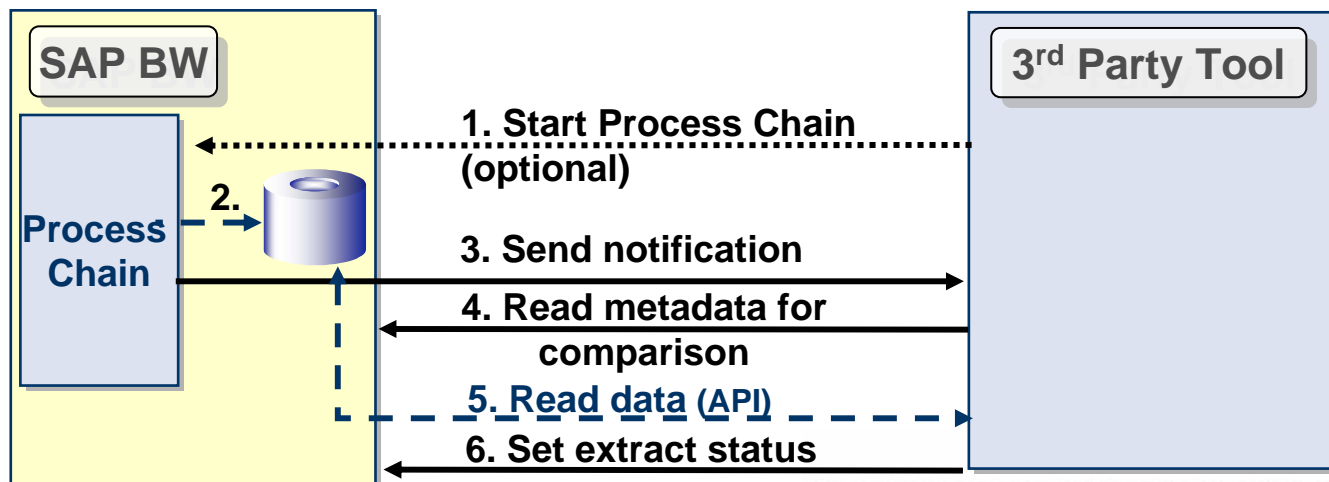
3rd party integration into Open Hub Service

■ Scenario

- ◆ Integration of 3rd party ETL tools (e.g., Ascential) into open hub service extraction (within process chains)
- ◆ ETL tool is central point to load data from any source system *and* to distribute data out of BW to any target system

■ Feature Description

- ◆ Integration of Monitoring including external status tracking
 - Prevents second start before data has been collected by 3rd party tool
 - No data will be lost, if read from 3rd party tool fails
- ◆ Sending notification to 3rd party tool when open hub extraction is finished
- ◆ API's for meta data and runtime
- ◆ Certification planned



Performance Enhancements Formula Builder

■ Scenario

- ◆ You use the formula builder for transfer or update rules for reducing the maintenance effort
- ◆ You want to reach comparable performance to custom developed ABAP routines

■ Feature Description

- ◆ Formulas will be generated/compiled instead of interpreted at runtime
- ◆ Existing formulas will be converted automatically (if feature is not deactivated manually via RSADMIN parameter)

■ Prerequisites

- ◆ SAP NetWeaver '04 SP Stack 4

Multi-client connections within BW-based SAP applications

■ Scenario

- ◆ An APO system contains several clients, one of which is defined as the BW client
- ◆ The BW client has to access the other APO clients within the same system via DataMart Interface

■ Feature Description

- ◆ The SAP BW client can access several APO (or other BW-based SAP applications like SAP MDM) clients within the same system via DataMart Interface

■ Prerequisites

- ◆ PI_BASIS 2003.1 Patch 1 or higher
- ◆ See OSS note 609167 for more information

General Release Information

Information Broadcasting

Universal Data Integration

SAP NetWeaver Integration

Business Planning & Simulation

BI Suite / BI Platform / Data Warehousing

Unicode

Outlook

SAP BW 3.5 and Unicode

■ Scenario

- ◆ You use your SAP BW 3.5 as an Enterprise Data Warehouse combining several languages and code pages such as Western and Eastern European, Japanese, Chinese, etc.
- ◆ Only a Unicode-enabled SAP BW can display the characters of all these code pages properly

■ Feature Description

- ◆ SAP BW 3.5 provides a fully Unicode-enabled BW server (back end)
 - Supports load of data from different code pages
- ◆ SAP BW 3.5 provides a fully Unicode-enabled Web front-end
 - Unicode texts can be displayed in analyses and reports
- ◆ SAP BW 3.5 provides Unicode-enabled MS Windows-based components with restrictions
 - For MS Windows-based BW components (Query Designer, Web Application Designer, BEx Excel front end), only texts of the code page of the logon language can be displayed (comparable to MDMP)
- ◆ For more information see SAP Service Marketplace alias /bw → InfoIndex → Unicode

■ Compatibility

- ◆ Unicode is supported for
 - MS SQL Server
 - ORACLE 9.2
 - IBM DB2 / UDB, DB2 / AS400
 - Max DB

SAP BW 3.5 and Unicode

■ Restrictions

- ◆ **All InfoObject keys must be in 7-bit-US-ASCII (English)**
 - Do not use texts with special characters as object keys
- ◆ **MS Windows-based components are restricted to a non-Unicode client code page**
 - Every user (e.g., Russian user) can see 'his'/'her' (i.e., Russian) data correctly, but may see corrupted texts in a 'foreign' code page (e.g., German characters like 'ü' appear as '#')
 - In order to prevent corrupted texts to be written back to the database, objects (queries, query elements, work books, and web templates) should be defined in 7-bit-US-ASCII (English characters). Alternatively, these objects may only be changed in the original code page (e.g., Russian queries may only be changed in Russian code page)
- ◆ **Connection to MDMP source systems (SAP R/3) are released on project basis**

General Release Information

Information Broadcasting

Universal Data Integration

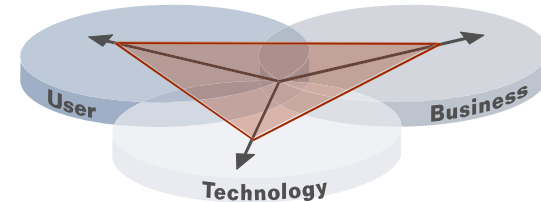
SAP NetWeaver Integration

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Unicode

Outlook



BI for the Expanded Enterprise

- Administration Cockpit
- Meta-Model Repository
- Right-time at the intersection of ETL and EAI

Active Business Intelligence

- In-line operational monitoring and real-time analysis
- Contextually-relevant event information and integrated action (BAM)
- Predictive modeling and data mining

Integrated Planning

- Planning aware design tools
- Integration of Planning and Analysis Engine
- Web and Excel based UI for manual plan data entry

Advanced user experience

- Integrated solution for formatted reporting and analysis
- Adobe integration
- BI application design in BEx Analyzer
- Ad-hoc Query for Information consumer

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