Session ID: IM204
Guidelines for Implementing SAP NetWeaver BI Business Content in a Customer System
Contributing Speakers

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Learning Objectives

After this workshop, you will:

- Be informed about the recommended general approach for implementing Business Content in a customer system
- Get support in your decision about when to implement SAP BI Business content vs. create customer content from scratch
- Be aware of the impact of enhancing and modifying SAP BI Business Content
- Get deep insight on how to install/enhance/modify SAP BI Business Content and create customer content
- Get tips particularly for implementing SAP BI Business Content in a customer system
Introduction to SAP BI Business Content

- Procedure of Implementing Business Content
- Use SAP BI Business Content
- Enhance / Modify SAP BI Business Content
- Implement Customer/Partner Content
- General Recommendations
Roles, Processes, Key Figures

- Different kinds of information required by different employees
- Planning, execution and control of the processes

Roles

Processes

Key Figures

- Strategically and operationally
- Processes are linked to each other

- Different systems and data sources
- Which key figures are important?
- Results of processes
SAP BI Business Content delivers predefined, role-based and task-oriented information models within BI.

The objective of SAP BI Business Content is to make relevant information available to specific roles within an enterprise in order to provide these users with exactly the information they need to fulfill their daily business tasks.
SAP BI Business Content: Definition

“Two-Fold Approach of SAP BI”

Data Warehousing Functions
- Information Deployment
- Data Presentation
- Data Analysis
- Data Warehouse Management
- Data Extraction & Staging

Business Content Objects*
- Roles, Tasks
- Global Views, Workbooks
- Queries, Webtemplates
- InfoProviders
- Extractors & InfoSources

* Preconfigured, but adjustable
Business Content can be used as:

- A complete / partial solution for information models
- A repository of standard requirements and modeling ideas (example and templates)
- Guideline during implementation of a solution
- Powerful learning tool
Immediate access to interpreted information
- Ready-to-use reports, data models, extractors, transformations
- Significant reduction of implementation time and costs

Consistency of operational processes with management processes
- For business professionals at all levels across all functions
- Easily extensible
- Automatic improvements to the information model
- Data consistency and integrity

Validated and comparable information
- Rich set of standard key performance indicators
- Best practice models from > 9700 installations (08/2005)

Cross-system/cross-application information
- Integration of e-Business and ERP systems
- Tight integration with mySAP Applications
- Integration with non-SAP data
- Web-enabled
Objects of the Business Information Warehouse are run in versions to enable editing, execution and delivery of different characteristics for an object in parallel.

The objects of the Business Content are delivered in version $D(elivery)$.

Changes are stored in $M(odified)$ version; data is stored in $A(ctive)$ objects.

An upgrade of the Business Content does not affect the objects that are in productive use!
Most of the delivered Content Objects include:

- **A** - Version = active
- **D** - Version = delivered
- **M** - Version = modified

Exceptions:

- Transfer structures do not have D-versions, they have shadow tables
- Roles do not have D-Versions

A-version = SAP_BWC_* (only relevant for customer systems)

D-version = SAP_BW_* (will be delivered)

Only A version objects are exported from the development system

These objects are imported into the target system into **either** the A-Version or the M-Version, depending on the object type. The M-Version objects are activated after import. Examples are:

- **A** - Version : Currency translation type, InfoObject Catalog
- **M** - Version : InfoObject, InfoCube
An upgrade to take advantage of the new features:

- Improved or enhanced information model
- New information model

Upgrading SAP BI Business Content is a functional upgrade:

- No effect on the complete Business Content with all information models
- Can be performed selectively (see step-by-step …)
Introduction to SAP BI Business Content

**Procedure of Implementing Business Content**

- Use SAP BI Business Content
- Enhance / Modify SAP BI Business Content
- Implement Customer/Partner Content
- General Recommendations
Recommended Approach For Implementing SAP BI Business Content

Define role and analyze tasks

- Role 1
- Tasks

Define content model

- Key figures?
- Reports?
- InfoCubes?
- DataSources?
- .....

Find predefined content

- Extractors, InfoCubes, DataSources...

Analyze gaps between customer requirements and Business Content

Use/enhance/modify SAP BI Business Content or implement customer Content
Top-Down Scenario:
Based on the requirements of the reports to analyze which other business content objects (data flow downwards) are needed in this scenario.

<table>
<thead>
<tr>
<th>Material</th>
<th>Month</th>
<th>Sales Amount</th>
<th>Invoice Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-100</td>
<td>06.2005</td>
<td>100,000 EUR</td>
<td>90,000 EUR</td>
</tr>
<tr>
<td>100-100</td>
<td>05.2005</td>
<td>150,000 EUR</td>
<td>100,000 EUR</td>
</tr>
<tr>
<td>......</td>
<td>......</td>
<td>...</td>
<td>....</td>
</tr>
</tbody>
</table>

Customer Requirements

Rough Content model to be defined

BI
Consolidated View of Sales and Invoice Information (DSO Objects, InfoProviders, etc)

R/3

Sales Information (DataSources, Extractors, etc)  Invoice Information (DataSources, Extractors, etc)
**Bottom-Up Scenario:**
Based on the source information to analyze which other Business Content objects (data flow upwards) are needed in this scenario.

<table>
<thead>
<tr>
<th>Order Nr.</th>
<th>Material</th>
<th>Sales Amount</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4711</td>
<td>100-100</td>
<td>100,000 EUR</td>
<td>100 PC</td>
</tr>
<tr>
<td>4712</td>
<td>100-110</td>
<td>150,000 EUR</td>
<td>50 PC</td>
</tr>
<tr>
<td>......</td>
<td>......</td>
<td>....</td>
<td>....</td>
</tr>
</tbody>
</table>

Customer Requirements

To Be Defined
Rough Content Model

Sales Order (DataSources, Extractors)

BI

Sales Order (DSO Objects, InfoProviders, etc)

Sales Order
**Mixed Scenario**

The top-down-scenario and the bottom-up-scenario cannot be totally separated in the real customer environment. Applying them in parallel makes the process of defining content model more efficient.

<table>
<thead>
<tr>
<th>Material</th>
<th>Month</th>
<th>Sales Amount</th>
<th>Invoice Amount</th>
</tr>
</thead>
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</tr>
<tr>
<td>......</td>
<td>......</td>
<td>....</td>
<td>......</td>
</tr>
</tbody>
</table>

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**Customer Requirements**

**To Be Defined Rough Content Model**

**Customer Requirements**

**BI**

Consolidated View of Sales and Invoice Information (DSO Objects, InfoProviders, etc)

**R/3**

- Sales Information (DataSources, Extractors etc)
- Invoice Information (DataSources, Extractors etc)

**Sales Order**

**Invoices**

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Find Predefined SAP BI Business Content

By using Standard Business Content or enhancing/modifying it, implementation time and TCO can be reduced.

The following channels can be used to identify the appropriate Business Content:

**Business Content Documentation: help.sap.com**
- Offers a complete description of the entire Business Content release.
- There is no 'delta' view between different Business Content release.
- Provides a detailed technical description for every object.

**Business Content List:**
- Provides the features description of Business Content development.
- Contains the new or enhanced content scenarios compared to the last release.
  - Abstract of the Business Solution
  - Description of the (new) BI Business Content
  - Main business benefit
  - Business scenarios (how the solution can be used)
- Not the same as "Development News" or "Release Notes" or documentation. The information is less technical than more business-related material.
Channels For Searching And Finding SAP BI Business Content

Release Notes:
- Provides an overview of the new, changed or deleted content objects for each application comparing to the previous content release.
- More of a technical nature rather than a business nature.

Newsletter:
- Informs customers about important/critical changes/issues for each Content area.
- Includes: NetWeaver Newsletter, could also be the newsletter which is sent from different solutions (ERP, CRM etc).

How-To Paper:
- Provides recommendation/tip/approach to modeling Customer Content. It is published in the Service Marketplace.

BI Info-Index:
- Lists specific topics. Relevant how-to-paper will also be linked here.

SAP Developer NetWork
- Provides relevant information regarding developing business content on customer side.
- Introduces the process of developing customer and partner content.
Metadata Repository:

Business Content or activated objects within a BI system can be viewed online in the Metadata Repository.

![Metadata Repository](image-url)
Channels For Searching For And Finding SAP BI Business Content

Metadata Repository:
Via “Business Content” or “Metadata Repository” tabs, menu path Extras ➔ HTML Export ➔ Create HTML…

...or use SAP Report (SE38) “RSO_REPOSITORY_EXPORT_HTML”
Channels For Searching For And Finding SAP BI Business Content

Metadata Repository Available Off-Line

1. Click on the required information
2. Select the relevant object
Channels For Searching For And Finding SAP BI
Business Content

Content Browser

The content browser is predefined Business Content which is delivered to customer as of BI Content 3.5.3 Add-On. The content browser provides reporting functionality to enable the end user to find information about customer-defined Content and SAP-delivered Content in the system. It helps to answer the following questions:

- What SAP Business Content is available in a given area?
- What SAP Business Content is in used in this Business Information Warehouse?
- What customer-defined Content exists in this Business Information Warehouse?
- Which Content objects are used in a given area?
This Web template provides:

- A user-friendly interface, including icons to indicate object types.
- Options for analyzing Content related to one role or several roles simultaneously.
- Drilldown from the role to the related objects.
- Metadata Repository information for a particular object that can be reached by clicking on the icon next to the object’s name.

### Content By Role

<table>
<thead>
<tr>
<th>Role</th>
<th>Workbook/Template Count</th>
<th>View/Query Count</th>
<th>InfoSource Count</th>
<th>InfoProvider Count</th>
<th>DataSource Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Result</td>
<td>31</td>
<td>55</td>
<td>51</td>
<td>19</td>
<td>49</td>
</tr>
<tr>
<td>Sales Manager</td>
<td>31</td>
<td>55</td>
<td>51</td>
<td>10</td>
<td>40</td>
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<tr>
<td>- Quotation Tracking per Sales Area</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>- Quotation Tracking per Sales Area</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Offers/Orders</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>- SD - Sales order</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>- MD - Offer</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<td>1</td>
</tr>
<tr>
<td>Sales Order Header Data (As of 2.0B)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2US_11_VAHDR</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>- Sales Order Item Data (As of 2.0B)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
Business Content Documentation 1)

Analysis Scenario

Business Content documentation provides the scenario description for a delivered business scenario as of BI Content 3.3 Add-On. With this description, you get an overview of delivered Content objects and will see how to apply them.

- Analysis Scenarios are assigned to each InfoArea
- Under Analysis Scenario you get the detailed technical description of each Content object
DataSource Documentation

As of BI Content 3.3 Add-On, detailed DataSource documentation is provided to the customer. With these detailed description, customers get technical insight about the structure, the logic of the DataSource and accurate information about the information source of the extraction (R/3 table and fields).
When to Use Which Channels to Find Predefined SAP BI Business Content

<table>
<thead>
<tr>
<th>Project Preparation</th>
<th>Business Blueprint</th>
<th>Realization</th>
<th>Go Live and Roll-out</th>
<th>Maintenance and Continuous Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Content List</td>
<td>Release Notes</td>
<td>Content Browser</td>
<td>Metadata Repository</td>
<td>How-to paper</td>
</tr>
<tr>
<td>How-to paper</td>
<td>BI InfoIndex</td>
<td>SAP Developer Network</td>
<td>How-to paper</td>
<td>BI InfoIndex</td>
</tr>
</tbody>
</table>

Business Content Documentation, SAP Developer Network, Newsletter
Introduction to SAP BI Business Content

Procedure of Implementing Business Content

**Use SAP BI Business Content**

Enhance / Modify SAP BI Business Content

Implement Customer/Partner Content

General Recommendations
Approach For Using Standard Business Content

Basic Settings for Source System and BI System

- Define logical system
- Assign logical system to client
- Make basic settings for workflow
- Set system change options
- Connection between SAP source system and SAP BI System

Create SAP Source System

Data Warehousing Workbench (transaction RSA1):
- Modeling → Source Systems → SOURCE SYSTEMTREE → Context Menu → Create

Install/Activate SAP BI Business Content

- Transaction RSOR to install Business Content
- Assign relevant source systems.
- Select objects that should be installed/activated; determine collection mode.
- Determine the view of the objects.
- Transfer the objects in Collected Objects.
- Check the settings for the Collected Objects with reference to the Install, Match or Copy and Active Version Available functions.
- Make settings in the selection list and Transfer
- Correct errors
How to Activate SAP BI Business Content?

Two Transfer Methods

The customer can compare the new content with the active customer version and either “install” the new version or “merge” it with the customer version.

**Match** = Changes/modification will be kept and merged with the new SAP BW Business Content version

Customizing settings to SAP BW Business Content is dominant in case, “matching” is not possible!

⚠️ Not all objects support merging!
The possible transfer method is dependent on the type of the delivered Business Content
How to Activate SAP BI Business Content

Match of SAP BI Business Content

Version

M(odified)  A(ctive)  D(elivery)

Delivery from SAP  Install BC (copy)  Modify BC  2nd match BC

2nd delivery from SAP

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How to Activate SAP BI Business Content?

Install

The SAP BI Business Content in the A-Version is overwritten completely (a copy of the new version is inserted), changes/modification which were made to the prior SAP BW Business Content are lost completely.

![Diagram showing the installation process of SAP BI Business Content, with a focus on the 'Install' tab and selected objects such as 'Purchasing' and 'AFS Purchasing'.]
How to Activate SAP BI Business Content

Business Content Objects with „match“ functionality:

- DSO Object
- InfoCube
- InfoObject
- InfoObject Catalog
- MultiProvider
- DataSource (NetWeaver2004s)
- Process chain
- Transfer Rules
- RRI InfoCube Receiver
- RRI Query Receiver
- Mining model
- Model source

For these Business Content objects, the checkbox „Match (X)“ automatically appears when collecting Business Content for activation!
How to Activate SAP BI Business Content

Business Content objects with pure „install“ functionality:

- InfoSource
- Application
- SourceSystem
- DataSource (3.x)
- Update Rule
- Transformation (NetWeaver2004s)
- InfoArea
- InfoSet
- InfoSet (Classic)
- InfoSet Query
- InfoPackage
- InfoPackage Group
- Aggregate
- Query Elements (Report) Query, structure, restricted and calculated key figures, variables
- Query View
- Report Agent Package
- Report Agent Setting
- Role
- Web Item
- Web Template
- Workbook
- Currency Translation Type
- Crystal Reports Workbooks
BI Business Content: Step-by-Step Activation

- Activation in the Data Warehousing Workbench via the Business Content tab in three steps

- Content wizard provides an end-to-end solution

- Activation is possible for only specific objects or for entire dataflow from DataSource to role

- Relevant objects from all components can be collected automatically and activated in one step

- Upon activation, entire scenario can be utilized
Business Content Activation

- Object is active, but there is a newer D-Version
- Object is active
- Object not active
Business Content Installation in Three Steps

1. Select one or several objects

2. Drag & Drop objects (or use context menu)

3. Start installation online or in batch

Start via Easy Access or transaction code (RSA1 or RSOR)

A description of the tool can be displayed in a separate window
Step 1: Available Objects

1. Select available objects with several trees
Step 1: Available Objects

1. Select available objects with several trees

- Roles
- By Types
- By Patches
- InfoPackages
Step 2: Start Collecting Objects

1. Drag & Drop objects (or use context menu)

2. Required objects are collected and displayed in the central frame.
Step 3: Start Installation of Business Content

3. Start installation on-line (or in batch)

Objects that are not yet active or outdated are installed by default.

InfoCubes, InfoObjects, ... can be matched with activated version (default).

Outdated content is marked with a date icon.

Objects already activated and identical to the delivered ones are indicated by green LED.
Installation BC: User-Specific Options

Collected objects can include required ones only or objects in the dataflow.

Select default source systems for collecting

Collect immediately after drag&drop or start manually

As of NetWeaver2004s, the option 'in data flow before' also collects the relevant DataSources:

- Transactional DataSources
- Master data of the InfoObjects contained in the InfoCube originate (characteristics of the InfoProvider as well as their display and navigation attributes)
When to Use SAP BI Business Content?

SAP recommends that you use SAP BI Business Content objects in the following cases:

**Business blueprint and realization:**
- Customer requirements do match to the predefined Business Content
  You can install Business Content for using them directly or as the basis for the enhancement upon customer requirements.

**After go live and continuous improvement**
- After upgrade of a content release
  You may consider installing/reinstalling content objects with a reference to release notes to adapt or migrate the existing custom development. This may save in ongoing maintenance costs.
- After installation of a Content Support Package
  You may consider installing/reinstalling relevant content objects with a reference to support package notes that are delivered with each Content Support Package. These notes contain information on why certain Business Content objects are being redelivered.
When to Use SAP BI Business Content?

As of NetWeaver2004s BI, you can run Content Analyzer to be informed about the objects in which there is a difference between the customer active version and SAP-delivered version. This functionality provides the decision support about whether you need to install/reinstall the content objects in support package.
Dos And Don’ts For Using SAP BI Business Content

Business Content Objects are **highly integrated**; you should be comfortable with the procedures of collecting and installing Business Content.

- **Do not activate SAP BI content objects unless you know you want them** (e.g. activating the whole InfoArea); some objects have a large number of references so that the object can’t be deleted once it is activated.

- **Before activating Business Content**, you should consider whether you need to switch on the BC component (D&B, IS-OIL etc). If you switch on the BC component after you have already activated content objects, you need to manually set the 'install' or 'merge' flag for activating business content again. For those objects which do not have the 'merge' mode, the active version of objects could be overwritten!

- **Don’t activate Business Content in 'Batch' mode** if you need to use the 'match' mode to merge the content version and customer version. With 'Batch' mode the customer version will be overwritten by content version!

- **When activating content**, make sure you do so in the right order; we suggest:
  - You can activate the content via a role using **data flow before**. Objects which are in data flow before (queries, InfoProviders, Update Rules, InfoSources, etc) will be collected and activated.
  - You can use the “bottom-up” approach, using the data flow as orientation (first the data source, then up through the InfoSource, the info provider, and finally the query elements). For this approach, you need to know exactly which objects are in the data flow.
  - Use the **in data flow before and after** option only if you want to collect and install a small number of objects.
Introduction to SAP BI Business Content

Procedure of Implementing Business Content

Use SAP BI Business Content

**Enhance / Modify SAP BI Business Content**

Implement Customer/Partner Content

General Recommendations
How to Enhance SAP BI Business Content

DataSource

Extractor

Transaction Data
Master Data
Texts
Hierarchies

Enhance DataSource

Enhance InfoSource

Enhance InfoProvider

Adjust Update Rule/Transformation*

Adjust Transfer Rule/Transformation*

Extract Structure

InfoSource
(Not Mandatory as of NetWeaver2004s)

Enhance Query

* As of NetWeaver2004s
Options For Enhancing DataSources

Option 1: Customer append on the extraction structure updated with SAPI customer function

Option 2: Customer append on the communication structure updated with LIS customer functions: only relevant for DataSources which are available in Logistic Customizing Cockpit

Option 3: Customer append on the R/3 table updated with application user exit
Option 1: Enhancing DataSource with Generic SAPI Function Modules

Enhancement of Standard Extractor in SAP R/3 in Two Steps:

1. Enhance extraction structure using an append structure
   ■ Extraction Structures that are available in Logistic Cockpit: SE11
   ■ Other Extraction Structures: RSA6
2. Funktion module enhancements
   ■ Transaction: CMOD
   ■ Project -> Create

SAP offers the standard enhancement RSAP0001 with four different function modules:
   ■ Transaction data: EXIT_SAPLRSAP_001
   ■ Master data: EXIT_SAPLRSAP_002
   ■ Texts: EXIT_SAPLRSAP_003
   ■ Hierarchies: EXIT_SAPLRSAP_004

Please note:
   ■ This option can be applied to every DataSource.
   ■ The content of enhanced fields is not visible in delta queue. These will be updated during the upload into BI.
   ■ You can run Extractor Checker (transaction RSA3) for test purposes to verify whether these enhanced fields were correctly updated.
   ■ A delta of these enhanced fields cannot be extracted to BI (only the after image can be extracted to BI).
   ■ When changing an extraction structure, all data containers in the corresponding data flow have to be empty!
Option 2: Enhancing DataSources via Logistic Customizing Cockpit

**Customer Append:**
SAP offers the standard enhancement (e.g. MCS10001) for DataSources that are connected to the logistic customizing cockpit (EXIT_SAPLMC*).

- **E.g. in SD area:**
  - Header data: EXIT_SAPLMCS1_001
  - Position data: EXIT_SAPLMCS1_002

**Please note:**
- This option can only be applied to DataSources which are available in the Logistic Customizing Cockpit.
- Fields, that are dynamically calculated during transaction can not be enhanced via the above function modules.
- Delta (before and after image) can be extracted into BI.
- When changing an extraction structure, all data containers in the corresponding data flow have to be empty!
Option 3: Enhancing DataSources via enhancing the R/3 table

Enhancement of Standard Extractor via R/3 table:

1. Enhance R/3 table (e.g. VBAP) using an append structure
   - Transaction: SE11
2. Apply standard user exit to update these enhanced fields

Enhanced fields can be automatically transferred into the communication structure.
You need to run transaction LBWE to transfer these fields from communication structure into extraction structure.

Please note:

- This option can be applied to every DataSource.
- Enhanced fields, that are only relevant for statistical calculation (BI) are also visible in the standard R/3 table.
- Delta can be extracted into BI (before and after image).
- When changing an extract structure, all data containers in the corresponding data flow have to be empty!
Enhancements For Non-SAP OLTP Systems

Sourcing from a Non-R/3 OLTP System

- Procedure is the same for non-R/3 OLTP master data and transactional data
- InfoObjects and InfoSources can be created in the BI system
- InfoSource must match the file structure definition
- No metadata synchronization is available between BI and the external file
An upgrade of the Business Content does not affect the objects that are in productive use! To benefit from a new development and the correction of SAP BI Business Content, the metadata has to be reactivated with the new version of Business Content.

Modification of SAP BI Business Content, with a few exceptions, does not influence the ability to update in the future!

SAP BI Business Content is easily extensible to adapt it to your own requirements!

Business Content versioning is an ongoing maintenance consideration with each new SAP BI release.
Decision Tree: When to Enhance/Modify Business Content vs. Create Customer Own Content?

Which transfer mode do these objects have?

- Merge
- Install

Do you enhance transactional data or master data?

- Transactional Data
- Master Data

Which kinds of Enhancements?

- Simply changing attributes of characteristics
- Changing compounding objects of characteristics
- Changing data type, reference objects of characteristics
- Changing key figures

Which object Types are they?

- Above InfoProviders (Queries, Web templates etc)
- Below InfoProviders (Update Rules, Transformation, InfoSources)

Copy or create customer objects

Enhance or modify SAP BI Business Content objects. Further automatic content installation should not be done!!

Apply Enhancement/Modification

- Above InfoProviders
  - Adjustments for related content objects have to be done manually!
- Below InfoProviders

Copy Business Content objects or create customer objects

Apply Enhancement/Modification
Do’s And Don’ts for Copying Business Content

If there is a reason to copy rather than use the original object (e.g. objects do not have the ‘merge’ functionality), follow these guidelines:

- Do not copy anything before the InfoSource. The standard DataSource should be applied wherever possible because it usually contains complex process knowledge and requires high development effort.

- InfoObjects (e.g., customer, material, etc) are critical. Please use the original InfoObjects of SAP BI Business Content to ensure that you can always get the most current version by activating these objects after upgrade or support packages and you can get the most flexibility in using SAP BI Business Content whenever you want.

- Please use InfoProviders (DSO, InfoCubes, etc) from SAP BI Business Content as far as possible. Since InfoProviders have ‘match’ functionality, so they can be easily enhanced or modified.

- You can copy queries from Business Content to your own object for further enhancement and modification.
Do’s And Don’ts for Enhancing/Modifying Business Content

Enhancing Transaction Data:

- After enhancing InfoSources and update rules, no automatic content installation should be done for these two object types!

Enhancing Master Data:

- If you would like to change the reference object of Master Data, or change the data type of the content objects, please be careful! This will change the key of the master data. In this case, SAP suggest you copy and create customer objects to avoid unexpected errors.

- If you change the basic settings of key figures (e.g. unit, currency, aggregation etc) and then activate the predefined Business Content which contains these key figures (e.g. InfoProviders, InfoSources etc), you will get an activation error. In this case you need to adjust the change in predefined Business Content and activate these objects manually.
Top-Down Scenario:

Customer would like to compare the delivered quantity and billed quantity based on the item level

<table>
<thead>
<tr>
<th>Delivery</th>
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</table>

Customer Requirements

Rough Content model to be defined

BI

Consolidated View of Delivery and Invoice Information (DSO Objects, InfoProviders, etc)

R/3

Delivery Information (DataSources, Extractors, etc)

Invoice Information (DataSources, Extractors, etc)
Specification And Design

<table>
<thead>
<tr>
<th>Delivery</th>
<th>Delivery Item</th>
<th>Invoice</th>
<th>Invoice Item</th>
<th>Delivered Quan</th>
<th>Invoiced Quan</th>
<th>Overall Delivery process status</th>
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</table>

Delivery Data + Billing Data

Can be transferred from communication structure via transaction LBWE

Create customer append and update it with SAPI customer function

BI

R/3

Delivery Item Data 2LIS_12_VCITM

Billing Document Item Data 2LIS_13_VDITM
Implementation Steps

Prerequisite:
DataSources and related business Content Objects have been already activated in R/3 and BI:

- Transfer field VGTYP from communication structure to extraction structure via Logistic Customizing Cockpit and then activate DataSource 2lis_13_VDITM.
- With transaction se11 to create customer append for field ZGBSTA on the extraction structure.
- Use transaction CMOD to create a project. If the project is already available, please assign the development to the project.
- Use function module EXIT_SAPLRSAP_001 to update field ZGBSTA.
- Activate the project.
- Activate the DataSource via Logistic Customizing Cockpit (LBWE) or DataSource Maintenance (RSA6).
- Replicate DataSource 2lis_13_vditm into BI.
- Create two DSO Objects which are connected to InfoSource 2lis_12_vcitm and 2lis_13_vditm.
- Create one consolidated DSO object based on two line-item DSO Objects.
- Create Query based on the consolidated DSO Object.
Introduction to SAP BI Business Content

Procedure of Implementing Business Content

Use SAP BI Business Content

Enhance / Modify SAP BI Business Content

Implement Customer/Partner Content

General Recommendations
Scenario Description

Several subsidiaries of your company have extended requirements for reporting.

After analyzing these requirements, you conclude that an enhancement of the existing central data model in the SAP Business Information Warehouse is appropriate.

You want to deliver the newly developed Content to the subsidiaries in a straightforward way. To do this, you use the SAP Add-On Assembly Kit.

Each subsidiary can decide which of the enhancements it wants to use productively. In addition, you want to maintain the Content as cost-effectively as possible. To achieve this you decide to develop deliverable Content objects in the SAP Customer Content.
## Content Delivery at the Partner Site

### Partner Content System (Headquarter)

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- **create**
- **activate**
- **change**

### Subsidiary

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</tr>
<tr>
<td>D(elivery)</td>
<td></td>
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</tr>
</tbody>
</table>

- **Content activation**
- **change**

---

Export (D Object)

Import
Content Delivery at The Partner Site

Partner Content System (Headquarters)

Export (D Version)

Subsidiary

InfoCube /ABC/IC1

InfoObject 0MATERIAL

InfoObject /ABC/IO01

Import

InfoCube /ABC/IC1

InfoObject 0MATERIAL

InfoObject /ABC/IO01
Definition And Benefits

Content that customers or consultancy partners of SAP Business Information Warehouse deliver to their business areas or customers themselves is referred to as **Customer Content or Partner Content**. The concept and technical conversion of customer and partner content are largely similar.

**Advantages:**

- Good handling of dependencies between SAP Content and Partner Content during creation of delivery
- Development of Business Content in D versions
- During import, changed objects are not overwritten
  - A version and M version
- Comparison with A version possible during Content installation
  - Avoids loss of data e.g.: when fields are lengthened, etc.
- Creation of delivery transports
- Option of certifying Partner Content
Steps

Required steps for developing certified Partner Content

- Registration for certification
  mailto: icc@sap.com
- Prerequisites for development
- Development of Content
- Test, documentation, translation
- Certification of the content
- Support
- Sales and pricing
- Delivery with Add-On Assembly Kit
Prerequisites: Namespace

Namespaces in the SAP Business Information Warehouse

- SAP namespace (objects starting with 0)
- Customer namespace (objects starting with A-Z)
- Registered namespaces (/ABC/...)

SAP Business Content objects are delivered in the SAP namespace in the D version. In order to be able to use these objects, they must be activated. It is possible to make enhancements in the SAP namespace.

- Advantage: After an upgrade the objects will be compared/merged automatically or manually when they are activated.
- Disadvantage: With some object types, customer-specific enhancements may be lost after an upgrade or an SAP correction.
Prerequisite: Namespace

SAP objects can be copied to the **customer namespace** or to the **registered customer namespace** after activation and then enhanced.

- **Advantage:** After upgrade and activation these objects will not be modified.
- **Disadvantage:** Corrections or upgrades will not be applied to these objects automatically and have to be done manually (can be very time-consuming).

It is also possible to create your own objects in the D version in the **customer namespace** or in the **registered customer namespace**.

- **Prerequisite:** System has to be configured as development system.
- **Advantage:** These objects (D version) can be imported into other BI systems as transports and do not overwrite the A version in the target system.
- **Disadvantage:** The objects have to be activated.
Prerequisite: Namespace

Namespace for the development of BI objects

- Reserving two namespaces in BI, SAP Note 401778
- Reserving a namespace in OLTP, SAP Note 084282

As of 3.0A Support Package 9, a RSNSPACE maintenance transaction exists which can be used to maintain BI namespaces.

Both the development namespace and the generating namespace must be changeable.
Prerequisite: System Landscape
Prerequisite: Setting up The System as Content System

Prerequisite: All required Business Content Objects have to be active

Change field IS_CONTSYST of table RSADMINs to 'X' with

- Transaction code: RSOCONTENT
- Available with SP15 for BI 3.0B or SP9 for BI 3.1 Content

RSOCENTENT

SE16: View RSADMINsv
Prerequisite: Setting up The System as Content System

To activate Business Content after this setting you need a special user

- For this user the system behaves like a normal (non-content) system
- Assign the parameter RSOISCONTENTSYSTEM with value SAPCE to the user (transaction SU01)

We recommend switching on the standard transport organizer

- E.g new objects are also recorded on requests – object collector not necessary.
- AWB ⇒ Transport Connection ⇒ Edit ⇒ Transport ⇒ Switch-on Standard

The system must not be switched back after objects have been created.
Development: Recommendations and Restrictions

Recommended Approach:
- Think about your reporting purpose.
- Identify data sources.
- Define a data model.
- Write a specification and design document.
- Use naming conventions.
- Define specific test cases and use generic test cases from SAP.
- Use check tools (BI Content Analyzer).
- Use information sources such as documentation and SDN.

Restrictions:
- SAP BI Content objects (D versions) cannot be changed.
- RSA2 for dataSource development is not available in the source system.
- Integration of own documentation is not possible.
Certification

General Framework
- Certification by department Integration and Certification Center (ICC)
- Fee: 5000 EUR (EMEA) or 8000 USD (Americas)
- Certificate issued and the tag line (logo) „SAP certified integration“ awarded

Requirements for certification
- Delivery transport does not contain any SAP objects
- Delivery with Add-On Assembly Kit
- Installation and activation of Content without errors
- Test execution is confirmed by partner
- Complete documentation available
- Support is offered, maintenance strategy is published
- Release strategy is published

Display of Partner Content
- Partner Content displayed by SAP in the Online Partner and Product Directory
Delivery: Add-On Assembly Kit (AAK)

**Features**
- Tools for creating deliveries
- Transactions for import already available in customer systems
- Import possible without access at operating-system level

**Benefits**
- Definition of installation prerequisites and installation sequence
- Simplified maintenance and consolidated distribution of functional enhancements
- Visibility of delivered software release
Development and maintenance are performed in the corresponding development and maintenance systems.

The **Software Delivery Composer** collects and checks transport requests in the consolidation system and enters the objects into one delivery request.
Delivery: AAK – Software Delivery Assembler

The **Software Delivery Assembler** selects import conditions for the delivery request and converts it into an OCS file.

The OCS file is either copied to a CD or to a file server.

Import with transaction SAINT/SPAM.
Introduction to SAP BI Business Content

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Implement Customer/Partner Content

General Recommendations
Planning

- Supports role assessment
- Supports gap analysis
- Supports communication among stakeholders

Streamlined planning and decision support, resulting in better foundation for project success

Tip: Define a business blueprint for SAP BI when you define one for the application. Define information which you want in reports before you configure the application.
Content in Action: Reducing TCO During Implementation

Pilot
- Speeds up pilot development

Implementation
- Speeds up application configuration and development
- Supports cross-use and phased use

Testing
- Predefined content is already checked against and optimized for cross-component interdependencies

Faster configuration and development – earlier ROI

Tip: When deciding whether to copy or use an original SAP BI content object, consider the object type
Content in Action: Reducing TCO During Operation

Go-live and roll out
- Speeds up development of training materials
- Improves speed of learning

Smooth roll-out process

Maintenance and continuous improvement
- Supports monitoring of operations
- Enables optimization of solutions
- Provides continuous, synchronized updates

Tip: Take advantage of SAP BI demo content, templates, and style sheets, as well as portal layouts and themes when developing training materials

Reduced maintenance effort and increased operational efficiency
General Recommendations – Object Type

Business Content Includes:
- Roles
- Web templates
- Crystal Reports
- Workbooks
- Queries
- Data mining models
- Variables
- Data targets
  - InfoCubes/MultiProviders
  - Data Store Objects
- InfoSources
- InfoObjects
- Process chains
- Datasources
- R/3 extractor programs
- ............

When should I implement Business Content vs. create my own from scratch?
Use/enhance the SAP BI Business Content DataSources as far as possible:

- If R/3 Standard Business Processes are implemented in customer system
- First, look at the DataSource...
  - The easiest way to get information quickly into the BI is to use the existing Content DataSources which sit on top of existing R/3 Business Processes.
  - The SAP BI content data sources usually fit to Business Requirements and if they are not a perfect fit, they can be easily enhanced.
General Recommendations – InfoSources

Use SAP BI Business Content InfoSources as far as possible when:

- Business Content DataSource is already in use
- Non-SAP DataSource is in use and you can feasibly map to the existing Transfer Structure.
- InfoSources which are based on NetWeaver2004s technology provide ‘Match’ functionality which will makes adaption of custom development much easier and more comfortable.
- If you modified Business Content 3.x InfoSources, please be careful with automatic content installation after installing the upgrade or support package.
Use/enhance SAP BI Business Content InfoProvider as far as possible (InfoCube, Data Store Objects etc):

- Business Content InfoSource for your business process is already in use.
- Requirements exist for an InfoProvider for which you wish to use a standard best practice model.

Use the SAP BI Business Content InfoProvider (InfoCube, Data Store Objects) as a template starting point when the:

- SAP BI Business Content InfoSource for your business process is already in use yet there are modifications which are easily accommodated.
- You wish to use an example template, a starting point that is very well developed.
### General Recommendations – InfoObjects

**Use/enhance SAP BI Business Content InfoObject as far as possible when:**
- Requirements exist for an InfoObject to which you wish to use a standard best practice model for.
- DataSource of this InfoObject is already in use.
- Basis settings of this InfoObject match to the business requirements

**Use SAP BI Business Content InfoObjects as a template when:**
- Some critical changes (e.g. data type, reference object) need to be made to a characteristic
- Settings for a key figure (unit, aggregation etc) do not match the business requirements
General Recommendations – Queries

Use SAP BI Business Content Queries when:
- Piloting initial capabilities of BI
- Get to know the look and feel BI queries.
- Business requirements are covered by existing queries

Use SAP BI Business Content Query as a template when:
- Business requirements are to develop a report very similar to an existing query, be quick off the starting block in getting to know the look and feel BI queries.
General Recommendations
When And Why to Use The Standard

Get Content running quickly to gain experience.
- By using all layers of the Business Information Warehouse you will gain familiarity with the product at all levels of the BI Platform developing product knowledge quickly.

Lower your implementation costs!
- Quick implementations using SAP BI Business Content with minimal customization cut back drastically on costs for an initial implementation or a pilot.

Basic Business Content does not fully support your business requirements
- In this case, Business Content is a great starting point for your implementation; you can activate the existing content and modify it very easily to meet the needs of your business

So, if there is predefined SAP BI Business Content to be leveraged, use it!
SAP recommends the following procedure of implementing Business Content in a customer system:
- Define tasks/projects/roles
- Identify the needed information (reports, etc) to accomplish defined tasks/projects/roles
- Search for and find the predefined SAP BI Business Content
- Use/enhance Business Content or create customer own content

You can use different channels depending on the stage of your project to search for and find predefined SAP BI Business Content.

Business Content has different version. The customer version of Business Content objects are not affected after installing upgrade or support packages.

When deciding whether to copy or use/enhance/modify SAP BI Business Content object, consider the object type.

Customers and partners can develop and deliver their own content using SAP namespace.

In general, SAP recommends you use or enhance Business Content objects which are in the dataflow from DataSources to InfoProviders. You can use Business Content query/Workbook/Web template as a template to create your own objects based on the individual business requirements.
SAP Business Intelligence

Timely access to relevant information has always been critical to business success. Now it is even more important, with the widespread use of the Internet, mobile and wireless data collection technologies such as RFID, and the subsequent increase in near data sources. As a result, companies have amassed huge amounts of data in an effort to understand their business, improve performance, and build stronger relationships with employees, customers, and partners.

SAP Business Intelligence (BI) makes it easy to extract meaning from data. With a comprehensive set of tools, planning and simulation capabilities, and data warehousing functionality - delivered through sophisticated and user-centric, enterprise portal technology - SAP BI provides a coherent, comprehensive solution. And means you can use SAP BI to integrate data from across the enterprise and beyond, and then you can transform it into practical, timely business information to drive sound decision making, tactical action, and solid business results.

SAP Business Intelligence provides features and functionality to support a variety of business processes and strategic initiatives, including:
- Strategic planning and analysis
- Financial planning and analysis
- Customer and supplier profitability
- Operational excellence
- Customer relationship management
- Sales and marketing

SAP Business Intelligence is a component of SAP NetWeaver™, the open integration and application platform. SAP BI brings together a powerful business intelligence platform, a comprehensive set of tools, planning and simulation capabilities, and data warehousing functionality - delivered through sophisticated and user-centric, enterprise portal technology to provide a coherent, comprehensive solution. This means you can use SAP BI to integrate data from across the enterprise and beyond, and then you can transform it into practical, timely business information to drive sound decision making, tactical action, and solid business results.

Related topics:
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
- SAP Business Information Warehouse (BI)
SAP BI Business Content Details:

- General Information
- ...developed by Customers and Partners
- SAP Analytics
- Solution content
- Industry Content
BI Content 3.5.3 Add-On Details:

- Business Content Support Packages
- Business Content List
- Availability

BI Content 3.5.3 Add-On

More flexible Add-On Strategy

Please note that BI Content Add-On is not a complete technology release like SAP BI. Since SAP BW 3.5 release, a delta upgrade of the Content Add-On version of the SAP BW 3.5 Content technology release is not mandatory anymore to apply the BI Content 3.5.3 Add-On. It is also possible to upgrade directly from SAP BW 2.0B, 2.1C, 3.0B release and SAP BW 3.1 Content including BI Content 2.2 Add-On or BI Content 3.2 Add-On to BI Content 3.5.3 Add-On. For more detailed information about the patching and possible upgrades, please see the PFCI BI Content Add-On Strategy.

What’s new in BI Content 3.5.3 Add-On?

For BI Content 3.5.3 Add-On about 20 BW Business Content Scenarios have been either developed/newly enhanced and improved in the following areas:

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<th>Industry Solutions</th>
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<td></td>
<td>Public Sector</td>
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<td></td>
<td>Utilities</td>
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</table>

For detailed information please see the [PFCI BI Business Content List](#).
BI Content

Business Content is delivered as an add-on to SAP BW. The name is SAP BI Content 3.5.3 Add-on SP02. This will be referred to as Business Content below.

Purpose

Business Content is a pre-configured set of role and task-relevant information models based on consistent metadata in the SAP Business Information Warehouse. Business Content provides selected roles within a company with the information they need to carry out their tasks.

This information model includes integral roles, workbooks, queries, InfoSources, InfoCubes, ODS objects, key figures, characteristics, update rules, and extractors for SAP R/3, mySAP.com Business Applications, and for other selection applications.

Business Content can:

- be used in particular industries without being modified
- be modified, ensuring you can work with it to any degree of detail
- serve as a template or an example for customer-defined Business Content

Moreover, Demo Content, which includes example data and can be used as display material, is available to you with the SAP Business Information Warehouse.

Notes on Implementation

On one hand SAP Business Information Warehouse's comprehensive Business Content enables a quick and cost-effective implementation. On the other hand, it provides a model that can be used as a guideline during implementation using experience gained from other implementations.

Features

SAP Business Information Warehouse delivers pre-configured objects under the collective term "Business Content". These objects speed up the implementation of the SAP Business Information Warehouse because they deliver complete solutions for Business Information requests.

Business Content includes:

- RSAG extractor programs
- DataSources
- Process chains
- InfoObjects
- InfoSources
- Data targets (InfoCubes and ODS objects)
- variables
- Data mining models
- Queries
- Workbooks
- Crystal Reports
- Web templates
- Roles
Developing Partner Content: Documentation

Using a Namespace for the Development of BW Objects

Use
To avoid naming conflicts occurring with a customer’s local objects, customer content has to be developed in its own namespace. You can either use your own namespace or an agreed upon namespace of the standard customer namespace (A to Z).}

1. Scenario: Your own namespace for the development of customer content
We recommend using your own namespace named for customer content development in the form of ADDC. To designate a BW object that was developed in such a namespace, enter the technical name of the object together with the namespace.

For example, an ABAP object can have the technical name ADDC_MATERIAL.

The use of a special namespace for the development of customer content is optional for customers.

2. Scenario: Standard namespace for the development of customer content
As a customer, you can also develop customer content in the standard customer namespace (A to Z). In this case, however, you have to make sure that the content objects and the namespace objects are in a different namespace.

You can define your standard namespace as that, for example, A to O is reserved for customer content development, and P to Z is reserved for the development of preloaded objects.

In the standard namespace, the standard customer namespace 1 to 2 is available.

In the following, we will explain how you can set up and use your own namespaces for the development of customer content in the case of the recommended first scenario.

Prerequisites
To apply for a namespace, you need an ABAP development license (ABAP Development Workspace License).

You can find more information about the process of applying for a namespace in SAP Note 14002.

Procedure
1. Apply for a development namespace on the Service Marketplace at Internet address services.sap.com/namespace.
2. Apply for a development namespace, also apply for a “generation namespace”. You apply for this with the same process as applying for a development namespace.
   - The name of the generation namespace must follow these rules:
     - The name may have a minimum of seven digits including the suffix (“”).
     - The name must start with the letter “B” and the name may only consist of numbers.
     - The description text starts with “BRAGEN”. The namespace is specified in which this one is assigned.
     - “BRAGEN” generation namespace for ABAP/CompaDPC.
   - The shorter the name of the generation namespace, the more significant characters you have available for the technical name of the BW object.
3. Relocate the development namespace and the generation namespaces in BW and the OLTP system.

This is done by entering the namespace and the sap_license as the names of the tables for your development system. From Transaction TOOL (transaction ESE5), choose Authorization —-> Dialog/Change Namespaces. The screen View Namespaces on the Display”/Change/Namespaces (in the OLTP system, the path specifications can differ depending on the release).

In contrast to the development namespace, you enter the generation namespace only with the role C/customer. Thus you only need the sap_license.
Developing Partner Content: SDN

Reporting

Summary
This Management Summary is a short introduction to Reporting and Analytics with SAP Business Information Warehouse (SAP BW) capabilities as well as to Business Intelligence Content (BI Content) for SAP BW.

By SAP AG
36 Apr 2004

Introduction
The reporting, analysis, and interpretation of business data is of central importance to a company in guaranteeing its competitive edge, optimizing processes, and enabling it to react quickly and in line with the market.

Business intelligence with SAP BW
As a core component of SAP NetWeaver™, the SAP Business Information Warehouse (SAP BW) provides data warehousing functionality, a business intelligence platform, and a suite of business intelligence tools that enable businesses to achieve these goals. Relevant business information can be integrated, transformed, and consolidated in SAP BW with the tools provided. SAP BW facilitates the reporting, analysis and integration of this information, as well as its distribution. Businesses are able to make well-founded decisions and determine targeted automation activities on the basis of this analysis. With the comprehensive predefined information models delivered for different roles in a business (BI Content), SAP BW increases the usability of analysis functions and facilitates a quick and cost-effective implementation.

Data Warehousing
Data warehousing in SAP BW represents the integration, transformation, consolidation, cleanup and storage of data. It also incorporates the extraction of data for analysis and interpretation. The data warehousing process includes data modeling, data extraction and administration of the data warehouse management processes.

Platform
The Business Intelligence platform serves as the technological infrastructure to support information access and comprehensive analytics. It provides various analytical technologies and functions. These include the OLAP processor, Business Planning and Simulation, and special analysis processes such as Data Mining, and the Reporting Agent.

Sale
The SAP BW business intelligence suite, the Business Explorer, provides flexible reporting and analysis tools for strategic analyzers, operational reporting and decision-making support within a business. These tools include query, reporting and analysis functions. Users can evaluate old and current data in varying degrees of detail and from different perspectives - on the Web and also in MS Excel. The Business Explorer allows a broad spectrum of users access to information in the SAP BW using the Enterprise Portal, the Intranet (Web application design), or mobile technologies (mobile telephones with WAP or IVR clients, capability, and personal digital assistants).

Content
With BI Content, SAP delivers pre-configured, role- and task-oriented information models and reporting scenarios for SAP BW that are based on consistent metadata. For selected roles within a company, BI Content provides the information that they require to fulfill their tasks. The information models delivered cover practically all business areas and integrate content from almost every SAP application, as well as from additional selected external applications.

As part of the SAP NetWeaver architecture, SAP BW draws from and utilizes the capabilities of the other components for business intelligence usage. The sum of the functionality of SAP BW and the contribution of other components of SAP NetWeaver form a platform that represents the next major step in the evolution of business intelligence.

Timeline & Roadmap

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Overview: Resources For SAP BI And Portal Content

http://service.sap.com/bi

http://service.sap.com/ep-content

http://www.iviewstudio.com

http://www.sdn.sap.com
Further Information

Public Web:

www.sap.com
SAP Developer Network: www.sdn.sap.com ➔ Business Information Warehouse
SAP Customer Services Network: www.sap.com/services/

Related SAP Education Training Opportunities

http://www.sap.com/education/
Questions?

Q&A
Feedback

Please complete your session evaluation.

Be courteous — deposit your trash, and do not take the handouts for the following session.

Thank You!