Agenda

1. Market Requirements
2. Definition
3. Usability
4. Demo Content/SAP NetWeaver – Demo Model
  BI Content
5. BI Administration Cockpit and Technical Content
6. BI Content Lifecycle Management
7. Upgrade and Patching
8. Versioning Concept
9. BI Content Enhancing
Business Drivers and Challenges

- Utilize your information assets
- Empower your employees
- Speed, speed, speed

- Casual
- Decision Support

- Avoid information overload
- Master complexity & change
- Master fragmentation and inconsistency
Consequences for Information Systems

- Shorter implementation time with fewer resources
- High quality of information
- Sophisticated decision support
- Coverage of entire business processes
- Immediate, single-point access to all relevant information regardless of the source
1. Market Requirements

2. **Definition - Business**

3. Usability

4. Overview

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10. BI Content Enhancing
BI Content’s objective is to make relevant information out of the box available to specific roles within an enterprise so as to provide these users with exactly the information they need to fulfill their daily tasks within their business.
Several industry specific developments from Financial Services, Insurance, Retail, Defense Forces & Public Security and the SAP Global Trade Services were newly delivered or enhanced.

In addition the BI Content Support Packages 2, 4, 6, 8 and 9 for SAP NetWeaver 7.0 BI Content Add-On 3 have been providing an update on or new Business Contents objects.

The description of the BI Content offered can be referred to in the online documentation:
Customers benefit from BI Content in many ways:

- Customers use SAP NW BI Content to gain analytical insight of business processes.
- Standardised and process related analytical information is reliable source for Process Benchmarks.
- BI Content saves customers a lot of implementation costs.
BI Content – Business Definition
Roles, Processes, Key Figures

Processes
Strategically and operational
Processes are linked with each other

Key Figures
Different systems and data sources
Which key figures are important?
Results of processes

Roles
Different kind of information required by different employees
Planning, execution and control of the processes
BI Content in a Nutshell

### Technical Framework
- SAP Portal
- Task Workers & Analysts
- Composition
- Analytical Engine
- In-Memory Acceleration
- Data Warehouse & MDM
- SAP ETL

### Predefined Content Objects
- Business Packages
- Roles
- Predefined Business Queries
- UI patterns (Web reporting templates...)
- Predefined TRex Aggregates
- Datapersistance and Datamodel (Infoproviders and dimensions)
- Extractors, Transformations and Process Chains ...

### Predefined Business Intelligence Solutions
- Customer Relationship Management
- Supplier Relationship Management
- Supply Chain Management
- Product Lifecycle Management
- Financials
- Industry Solutions
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Immediate access to interpreted information
- Ready-to-go reports, data models, extractors, transformations
- Significant cut down 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

Cross-system/cross-application information
- Integration of ERP systems
- Tight integration with SAP Business Suite
- Integration with non-SAP data
- Web-enabled
Example: Predefined Management Cockpit
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SAP Demo Content delivers sample data and demonstration scenarios alongside BI Content Metadata.

- Activation in a few steps
- Quick demonstration scenarios from different business areas
- First insights around the Business Information Warehouse

- DemoContent objects all have technical names beginning with "0D_", for separating this Content area from company’s Business Content.

- SAP Demo Content is not designed for productive use. But the objects can be used as templates for structuring Content at a later date.
Available SAP Demo Content Areas:

- SAP Purchasing
- Profitability Analysis (CO-PA)
- SAP Demo Scenario Financial Accounting
- SAP Demo Scenario Production Planning
- SAP Sales Overview
- SAP Sales and Distribution

- InfoSources
- InfoCubes
- Queries
- Web-Templates
SAP NetWeaver – Demo Model
BI Content

The new Demo Model (part of the technical Content and available with SPS 16) comprises content in the area of Business Intelligence (BI). Here we provide ready-to-use BI InfoProviders, InfoObjects, and Queries. The BI InfoProviders are filled with up-to-date sales data respectively sales planning data. Detailed information can be found in SDN https://www.sdn.sap.com/irj/sdn/nw-demomodel
SAP NetWeaver – Demo Model
BI Content

Example: Sales Analysis Dashboard

Actual / Plan Revenue

- Sales Organization: New York
- Material Group: Flat Screens
- Actual / Plan Values

Actual / Plan Revenue last 6 months

- Bar charts for Actual and Plan revenue from June 2007 to December 2007

Actual / Plan Revenue YTD

- Bar chart for Actual and Plan revenue for New York

Benchmarks

- Drilldown by Country
- Drilldown by Product
- Geographical Infosystem

Revenue Shares

- Bar charts for revenue shares from June 2007 to December 2007

Revenue YTD

- Table with Sales Organization and Actual Revenue
  - New York: 46,398,049.00 EUR
  - San Francisco: 47,730,038.00 EUR
  - Berlin: 52,134,843.00 EUR
  - London: 46,988,562.00 EUR
  - Paris: 55,586,014.00 EUR
SAP NetWeaver – Demo Model
BI Content

Example: Sales Planning Dashboard
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The BI Content holds two kinds of content:

Technical Content

- Part of BI Delivery
- Patched with BI Support Packages (part of SAP NetWeaver SP Stacks)
- Enhancements delivered with BI SPs (e.g. SAP NW Demo Model with BI SP 14/NW SPS16)

Business Content

- Developed by Business Suite Applications
- Delivered with the BI Content software
- Patched with the BI Content software
BI Administration Cockpit provides a central point of entry and makes available cockpits and dashboards that provide real-time monitors and runtime statistics. It provides context-specific access to comprehensive reports and applications that help you identify and analyze issues.

It allows you to navigate to the relevant BI systems, transactions and queries to analyze system performance and resolve issues without your needing to explicitly log on to any system.
BI Administration Cockpit and Technical Content - Benefits

- Evaluate the fundamental functional areas of the Business Information Warehouse!
- Track the status of BI objects, BI operations, and more!
- Optimize the performance of BI activities!
- Manage BI systems from one location and decrease the total cost of ownership (TCO)!
BI Administration Cockpit and Technical Content - Interface
Since Release BW 3.5 it is possible to use the BW Statistics to evaluate the fundamental functional areas of the Business Information Warehouse.

BW statistics provides you with the following options that allow you to evaluate data from both the OLAP processor and warehouse management. You can:

- Get an overview of how InfoProviders, InfoObjects, InfoSources, source systems, queries, and aggregates are used
- Analyze system performance and improve it
- Improve the way in which aggregates are selected and used and reduce the effort of updating them
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Continously evolve and support relaiable analytical insight of your application to your customers!

- The Customers use SAP NW BI Content to gain analytical insight of Business Processes.
- Information models contain role and task related analytical information.
- Information models (also known as Data models) are based on object related and consistent meta data.
- Analytical information can cover every level of information detail / information aggregation and cross-applicational integration.
- Analytical information can be implemented as BI Content and deployed to customers.
- BI Content can cover full ETL szenario: Data extraction/- aquisition, integration and enrichment.
- BI Content can be selectively activated by customers.
- BI Content can be changed and patched/upgraded without accidentally overwriting BI Content adaptations at customer side
Phases of BI Content Lifecycle

SAP NetWeaver BI allows to develop Business Content for BI (BI Content) that fulfills the principles of the described Business Content lifecycle.

- BI Content authoring (SAP, Partners & Customers)
- Business setup (Customer)
- Operations (Customer)
- Change Management (Customer)
Phases of BI Content Lifecycle – Business Content Authoring

- **Content Development**: use existing content development tools (e.g. Data Warehouse Workbench, BEx tools).

- **Scenario Authoring**: BI Queries can be attached to BI Roles.

- **Documentation**: BI Content Development System (of SWC BI_CONT) has direct integration with SAP Help Portal Systems.

- **Translation**: BI Content Objects have multilanguagual text tables.

- **Packaging & Shipment**: Allow to collect all business content objects belonging to an analytics scenario or role.
Phases of BI Content Lifecycle – Business setup

- **Scoping**: BI Content can be explored in the Meta data repository of NW BI.

- **Content Activation**: BI Content can be selectively activated with all cross-references with BI Content activation tool (RSOR).

- **Content Adaptation**: BI Content Objects can be adapted by customers without modifying SAP BI Content version.

- **Content Transport**: BI Content Objects are connected to Transport framework.
Phases of BI Content Lifecycle – Operations

- **Data Extraction & Staging** is part of preconfigured information models.

- **Data Staging and Reporting performance** can be monitored using the NW BI Technical Content.
Phases of BI Content Lifecycle – Change Management

- **Patch / Upgrade (SAP):**

  BI Content activation tool allows to selectively patch or upgrade productively used *(and potentially adapted)* BI Content objects without accidentally overwriting customer adaptations.
Solution Life Cycle and Management Tasks

**Content Development**
- Content Development
- Authoring
- Templates
- Software Logistic
- Merge / Compare

**Implementation**
- Blueprint
- Content Installation
- Content Configuration
- Content Activation
- Content Transport

**Change Management/Continuous Improvement**
- Software Logistics
- Configuration

**Operations**
- Data Staging and Reporting
  performance via
  the technical
  Content in the Adminockpit
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The BI Content addon is delivered in several releases for one SAP NetWeaver product version. The last BI Content release is maintained until the end of maintenance of the SAP NetWeaver product version.

For the product version SAP NetWeaver 2004 including BW 3.5, three BI Content versions have been build and released to deliver the latest BI Content to the customers. The last BI Content release - BI Content 3.53 - is maintained until the end of maintenance of the product version (SAP NetWeaver 2004).

For the product version SAP NetWeaver 7.0 including the enhancement packages, several BI Content versions have been build and released:
- BI Content 7.02 (out of maintenance)
- BI Content 7.03 (maintained)
- BI Content 7.04 (newly released)

It is planned to build and release additional BI Content versions to provide the customers with new Content development, without the need to upgrade the SAP NetWeaver release (e.g. BI Content 7.05).

See the official SAP Maintenance Strategie https://websmp102.sap-ag.de/~sapidb/011000358700000847152007.pdf (Content releases: Chapter 2.3.2 page 18)
All BI Content release 7.0x can run on SAP NW 7.0x including the EnhP releases. The decision on the release combination depends on the kind of business scenario.
Using BI Content with ERP Enhance Package 4, because of new functionalities
Three possible channels for ordering the BI Content Add-On Software

- The upgrade software for BI Content Add-Ons will be available for download from the SAP Service Marketplace
  -> [www.sap.com/swdc](http://www.sap.com/swdc)
  (SAP Software Distribution Center → Download → Installations and Upgrades → SAP NetWeaver → SAP NETWEAVER → SAP NETWEAVER 7.0 → BI Content for SAP NetWeaver → BI CONT 7.03)

- The upgrade software for BI Content Add-Ons can be ordered via customer message -> component: **xx-ser-swft-ship**

- The upgrade software for BI Content Add-Ons can be ordered via Software catalogue -> alias: **swcat**
Support Packages

Dependencies

There is no automatic dependency between BI Content Add-On support packages and BI ABAP support packages. However, we recommend that you implement the latest BI ABAP support package when implementing BI Content Add-On support packages. As the BI ABAP support package are delivered in the SAP NetWeaver Support Package Stacks, we recommend to implement the latest SAP NetWeaver Support Package Stack.

Download

SAP Service Marketplace www.sap.com/swdc

Download ➔ Support Packages and Patches ➔ SAP NetWeaver ➔ SAP NETWEAVER ➔ SAP NETWEAVER 7.0 ➔ BI Content for SAP NetWeaver...
The BI Content delivered is fully documented

BI Content objects and documentation are translated into 27 languages

Documentation is available online: http://help.sap.com/saphelp_nw70/helpdata/en/3d/5fb13cd0500255e10000000a114084/frameset.htm
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Objects of the Business Information Warehouse are run in versions to be able to edit, execute and deliver different characteristics for an object in parallel.

- The objects of the BI Content are delivered in version D(elivery).
- Changes are stored in M(odified) version;
- Data is stored in A(CTive) objects.

**Versioning Concept**

Version

- M(odified)
- A(CTive)
- D(elivery)

Delivery from SAP

Install BC
Versioning Concept - Objects Particularity

Most of the delivered BI Content Objects dispose of:

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

Exceptions:

- Transferstructures do not have D-versions, they have shadow tables
- Roles do not have D-Versions
  - A-version = SAP_BWC_* (only for customer systems relevant)
  - 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 **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
BI Content Delivery - Upgrade

An Upgrade to take advantage of the new features:

- Improved or enhanced information model
- New information model

Upgrading BI Content corresponds to a functional upgrade:

- No effect on the complete BI Content with all information models
- Can be performed selectively (see step-by-step …)
Activating a new Version of BI Content

Activation of BI Content

Before BI Content can be used productively, it has to be “activated”

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.

Not all objects support merging!

The possible transfer method is dependent on the type of the delivered Business Content!
Activating a new Version of BI Content

Installation of BI Content

- The BI Content in the **A** - Version will be overwritten completely (a copy of the new Version is inserted)
- Changes/modification which were done to the prior BI Content will be lost completely.

Version

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

Delivery from SAPobra do como um assistente útil. Não indaguei.
**Activating a new Version of BI Content**

**Match of BI Content**

- Changes/modification will be kept and merged with the new BI Content version
- Customizing settings to BI Content is dominant in case, “matching” is not possible!

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</table>

- delivery from SAP
- install BC (copy)
- modify BC
- 2nd delivery from SAP
- 2nd match BC
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BI Content Enhancing

.... SAP BI Business Content doesn’t fit to the requirements ?

.... What happens when SAP BI Business Content has to be adjusted ?

.... Will adjustments to standard delivered BI Business Content influence future update facilities of BW Business Content ?

.... What has to be considered when planning customizing to BI Business Content ?
BI Content Enhancing

- An upgrade of the BI Content does not affect the objects which are in productive use! To benefit from a new version of BI Content, the meta data have to be reactivated with the new version of BI Content.
- BI Content is easily extensible to adapt it to own requirements!
- Customizing of BI Content has, except some exceptions, no influence on future update facilities!
- Exception: BI Content Objects with no “match” functionality: copy the relevant Business Content Objects into a new namespace before customizing!
- BI Content versioning is an ongoing maintenance consideration with each new NetWeaver BI release