

SAP BW

Lesson 06: Modeling Part 3 – BI Content

Introduction



- Business Content is a preconfigured information model based on industries and the roles within them.
- SAP offers a predefined information model that helps to control and optimize the individual process areas both within and outside of the company.
- It collects and structures information and prepares it for further use.
- BI Content facilitates faster implementation of BI in your company
- Immediate access to Information
 - Ready to use reports, data models, extractors and transformations
 - Significantly reduced implementation times and costs
- Consistency of Operational and Management Processes
 - Easily Extended
 - Data consistency and integrity
- Validated and Comparable Information
 - A wide range of KPIS
 - Best Practice models >9,700 installations (As at August 2005)
- Cross system/Cross Application Information
 - Integration of e-business and ERP systems
 - Integration with my SAP applications
 - Integration with non-SAP data



BI Content Object types

Business Content includes the following objects:

- SAP and non-SAP extractors
- Datasources (extraction structures)
- InfoObjects
- Transformations
- InfoProviders (for example, InfoCubes and Datastore Objects)
- Queries/Workbooks
- Templates (Web-based reporting)
- Roles



Leveraging BI Content

There are three ways a customer can leverage BI Content. If any of these three ways are chosen, your project will be implemented much faster than a generic BI project, and with a much higher probability of success:

- **Use BI Content without any adjustments**

Not likely; this happens perhaps 10% of the time

- **Change delivered BI Content**

Unlike other SAP products, versioning allows both a customer version and SAP version of the same object, and they can be different.

- **Copy BI Content**

In this option, BI Content is used as a starting point (a template). New objects are created in the customer name space that are no longer linked to the BI Content (this is the way most SAP products work).



Role-Based and Industry-Based Content

Business Content contains application-specific and industry-specific content. Application-specific content includes data from the following areas:

- Customer Relationship Management
- Supplier Relationship Management
- Supply Chain Management
- Product Lifecycle Management
- Financials
- Human Resources
- Exchanges (oil- and gas-related)



Role-Based and Industry-Based Content

Industry-specific content includes data from the following areas:

- Industry Solutions
- Aerospace & Defense
- Apparel and Footwear
- Automotive
- Chemicals
- Consumer Products
- Distributor Reseller Management
- Healthcare
- Insurance
- Media
- Pharmaceuticals
- Oil & Gas
- Public Sector
- Retail
- Real Estate



Advantages

- Faster because of reduced project runtimes
- Able to map complex business scenarios
- Integration scenarios
- Less time and effort on development
- Reduced personnel resources
- Able to schedule shorter timeframes
- Faster results with pilot projects and the use of standard functions
- Fast evaluation of concepts in the blueprint phase
- Intensive training of the project group and end users at the very beginning of the implementation phase
- Very early user integration



Metadata Repository

- Metadata means “**data about data**”.
- Metadata is the descriptive technical information about the objects used to build the application.
- For Example: Metadata about a InfoCubes would include the names of the InfoObjects and dimension tables used in the InfoCubes, as well as the date it was designed and the last person who changed the design. It would not include a record in the InfoCubes, as that is data, not metadata.
- When all the metadata tables are collected in a group, we get a Metadata Repository.
- To look at the objects and the relationship between them, we have a Metadata Repository browser tool.



Comparing the Model with BI Content

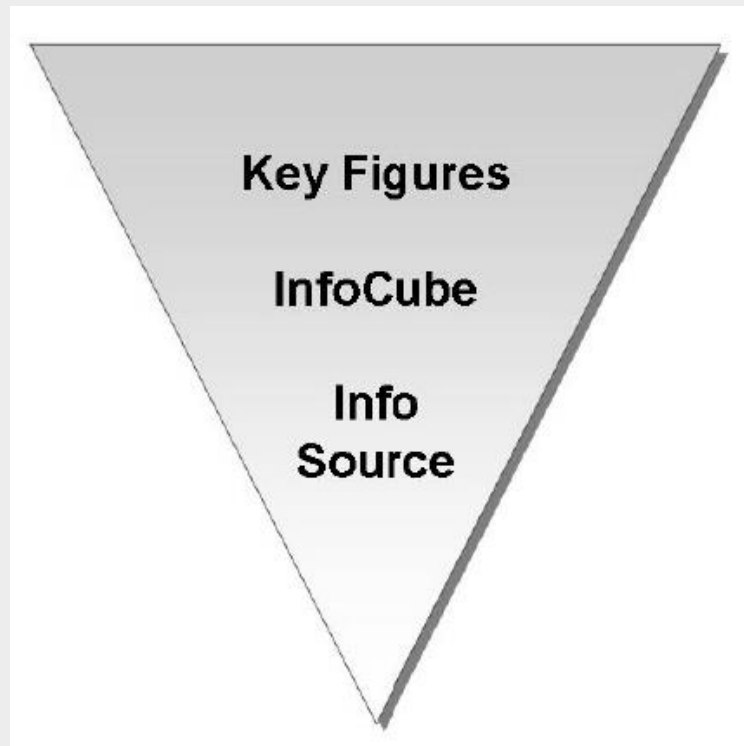
Checking BI content is ongoing process that lasts until you finish creating a dimensional model. If you want to work with BI content, we recommend you proceed as follows:

- First define the tasks and roles of your employees. Determine the necessary key figures or information that your employees require to fulfill their tasks.
- For this you can use role based BI content. You can also use the demo content for this step as template. It may be very helpful.
- Using information that you acquire in step one, define data model for your requirements.
- Compare the results of your requirement analysis & data model with your BI content. Usually you perform a top down comparison, that is, you search for key figures, reports and cubes in Business content that correspond to your requirements.
- Depending on the object type, you can extend(modify) the Business Content, use it as a copy template for your own objects, or create your own objects in your namespace, irrespective of business content.



Key-Figure-Based Approach (Top-Down)

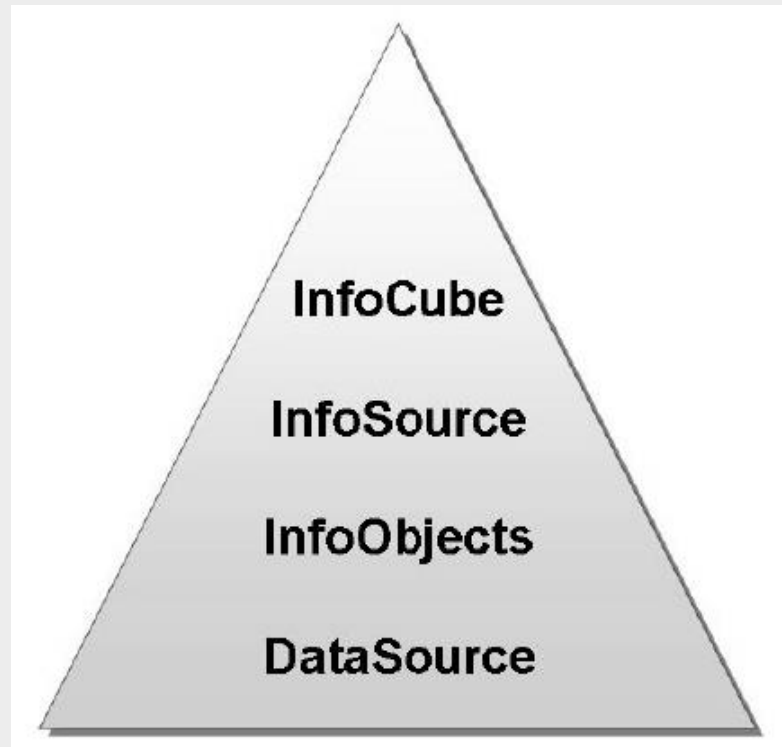
- On the basis of report requirements, analyze which Business Content Objects (Downward data flow) are required for the scenario.





DataSource Approach (Bottom-Up)

- On the basis of source information, analyze which Business Content Objects (Upward data flow) are required for the scenario.





BI Content Activation

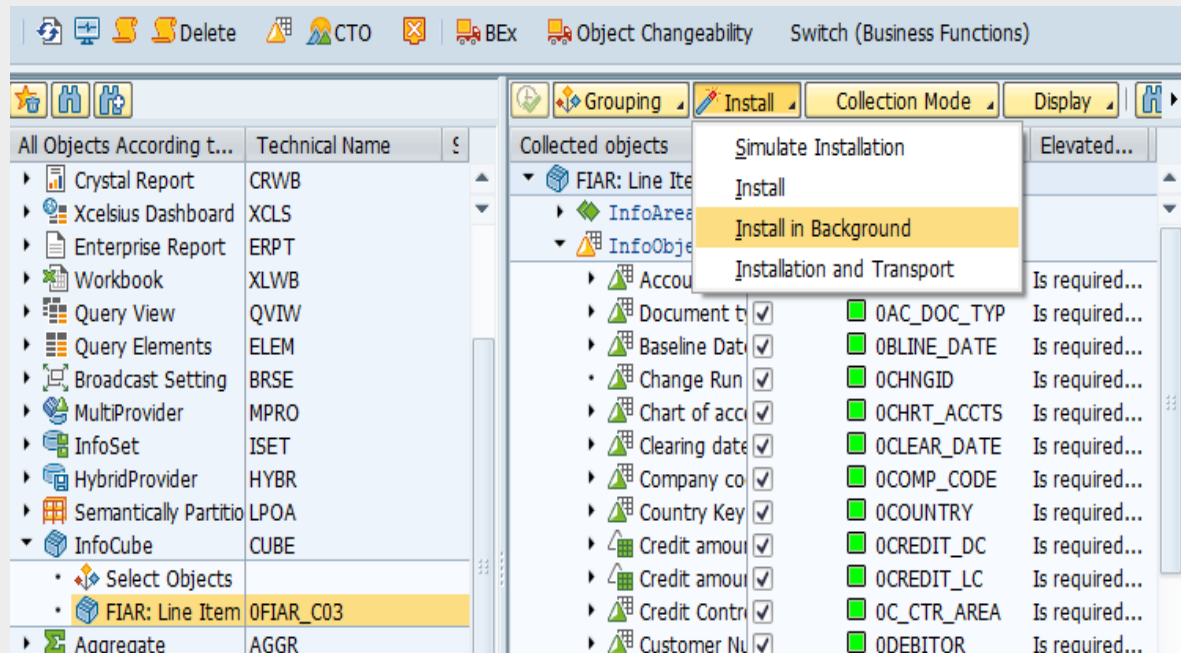
- Objects found in Metadata Repository, that fit perfect to our application needs, needs to be activated first.
- BI allows the maintenance of three different versions of the same object.
- The only version that is actually involved in the storage of data is the active version.

| Version | Meaning |
|------------|--------------------|
| D(elivery) | BI Content version |
| A(active) | Active version |
| M(odified) | Modified version |



BI Content Activation

- The actual process of activating BI Content is greatly simplified by using BI Content administration via the BI Content button on the Data Warehousing Workbench.
- Find the object Type-> select the object (like cube), then drag is on right side with required grouping and then install in background.





BI Content Activation - Groupings

Groupings gather together all of the objects of a single area:

- **Only Necessary Objects:** Only those additional objects that are needed to activate the objects that you have selected are included (minimum selection)
- **Data Flow Before:** All the objects that pass data on to another object are collected
- **Data Flow After:** All those objects that get data from the initial object are collected.
- **Data Flow Before and Afterwards:** All the objects that both deliver and receive data are collected.
- **Security for System Copy:** With this setting you can collect only some of the objects for a transport request; this request can be added again after a system copy has been made.



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Steps to Activate BI Content

1. Navigate to the Data Warehousing Workbench to install BI Content (selection of objects, settings for the transfer, and starting the transfer).
1. Assign relevant source systems.
2. Group objects to be included, and determine the mode of collection for the objects.
3. Determine the view of the objects from which you wish to start your installation.
4. Transfer the objects in Collected Objects.
5. Check the settings for the Collected Objects with reference to the Install, Match, or Copy and Active Version Available functions.
6. Make settings in the selection list and transfer and Correct errors.

NOTE: The active version is overwritten with the delivery version if the match indicator is not set and the install indicator is set



BI Content Analyzer

- BI Content Analyzer is used to analyze BI Content objects in detail.
- Check programs previously identified some errors and inconsistencies in these objects.
- You can observe the results of such a check from various different views and therefore easily determine any problems that exist.

Features

- You can then schedule check programs to analyze your BI systems based on their data
- You can view the results of all check programs included in the results area of BI Content Analyzer.
- BI Content Analyzer only shows you the objects that have errors.
- You can either analyze the results immediately in the BI system or using the BI reporting functions.
- BI Content Analyzer itself has extensive reporting options.



BI Content Browser

- The Content Browser is BI Content delivered by SAP.
- You can use the Content Browser to analyze your BI Content objects.
- This Content provides a reporting function that enables end users to obtain information about the customer-defined content and also the SAP-delivered content in the system

Overview of each InfoArea with a drilldown function for each InfoProvider












| InfoProviders organised by InfoArea | Technical Name | Active InfoProviders | Active Business Content InfoProviders | Active Customer-Defined InfoProviders |
|---|----------------|----------------------|---------------------------------------|---------------------------------------|
| Overall Result | | 1,077 | 539 | 138 |
| ▶ A/TEST_ALERTS | | 1 | | 1 |
| ▶ A/TEST_DA | | 2 | | 2 |
| ▶ A/TEST_IS | | 1 | | 1 |
| ▶ Achim Seubert - Administrator Cockpit | | 3 | | 3 |
| ▶ Computing Center Management System | | 10 | 10 | 0 |
| ▶ Content Browser | | 1 | 1 | 0 |
| ▶ Cross-Application Components | | 34 | 34 | 0 |
| ▶ Customer Relationship Management | | 209 | 209 | 0 |
| ▶ External Market Data | | 2 | 2 | 0 |
| ▶ Financial Supply Chain Management | | 12 | 11 | 1 |
| ▶ Credit Management | | 12 | 11 | 1 |
| ▶ A/OCMDM_ID | | 1 | | 1 |
| ▶ A/OCMDM_DS04 | | 1 | 1 | 0 |
| ▶ A/OCMDM_DS05 | | 1 | 1 | 0 |
| ▶ Analysis and Simulation | | 1 | | 0 |
| ▶ Collective Processing Runs | | 1 | 1 | 0 |
| ▶ Credit Management Extract Name | | 1 | 1 | 0 |
| ▶ Credit Profile | | 1 | 1 | 0 |
| ▶ Credit Profile | | 1 | | 0 |
| ▶ Credit Profile (Period) | | 1 | 1 | 0 |
| ▶ Credit Profile (Period) | | 1 | 1 | 0 |
| ▶ Credit Risk Analysis | | 1 | 1 | 0 |
| ▶ Liability | | 1 | | 0 |
| ▶ Financial Management & Controlling | | 142 | 141 | 1 |

- This Content provides a reporting function that enables end users to obtain information about the customer-defined content and also the SAP-delivered content in the system.
- In the Content Browser, SAP delivers a role with its corresponding queries. It also delivers an InfoCube with a data flow.

BI Content Browser



▼ Content By Role

| Role | Workbook/Template Count | View/Query Count | InfoSource Count | InfoProvider Count | DataSource Count |
|--|-------------------------|------------------|------------------|--------------------|------------------|
| Overall Result | 31 | 55 | 51 | 19 | 49 |
|  ▼ Sales Manager | 31 | 55 | 51 | 19 | 49 |
|  ▼ Quotation Tracking per Sales Area | 1 | 2 | 4 | 1 | 4 |
|  ▼ Quotation Tracking per Sales Area | 1 | 1 | 4 | 1 | 4 |
|  ▼ Offers/Orders | 1 | 1 | 4 | 1 | 4 |
|  ▶ SD - Sales order  | 1 | 1 | 1 | 1 | 1 |
|  ▶ MD- Offer | 1 | 1 | 1 | 1 | 1 |
|   Sales Order Header Data (As of 2.0B) | 1 | 1 | 1 | 1 | 1 |
|  2LIS_11_VAHDR | 1 | 1 | 1 | 1 | 1 |
|  ▶ Sales Order Item Data (As of 2.0B) | 1 | 1 | 1 | 1 | 1 |