

Ignite knowledge, ideas, connections

Best Practices with IBM Cognos Framework
Manager & the SAP Business Warehouse

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Information Management



Agenda

- Objective
- Interoperability
- Prerequisites
- Where to model and leverage SAP BW
 - i. Cognos Framework Manager
 - ii.SAP BW Queries
- How to simulate SAP BW Hierarchy selection variable
- Summary



Objective

- General tips and tricks to improve use of metadata from SAP BW with IBM Cognos 8 Framework Manager
 - Like any general guidance not everything is black & white
 - The context & specificity always dictates the 'proven practice'

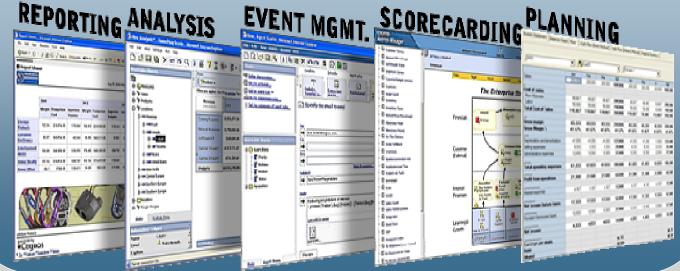
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Interoperability









FRAMEWORK MANAGER









Prerequisites

- General familiarity with terminology and use of IBM Cognos 8
 - Framework Manager
 - Cognos 8 Studios
- General familiarity with the SAP Business Information Warehouse
 - InfoProviders
 - BW Queries



Where to model and leverage SAP BW

Where is Metadata Modelling done?

i. Cognos Framework Manager



ii. SAP BW Queries





*Not all Metadata Modelling is done in Framework Manager

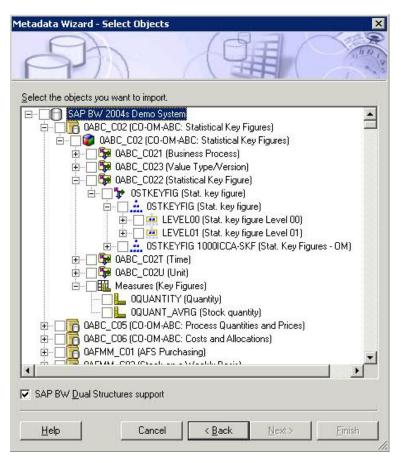
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I. Cognos Framework Manager

Makes Metadata available for C8 Studios:

- Connection to BW data source
- Content to be included in a Cognos package from BW Queries
- 3. Package to be published for use by user community







I. Framework Manager – Import Guidelines

Select All vs. Select "Just What you Need"

- ✓ Limit selection just to what is needed
- ✓ Size import based on probable use cases
- ✓ Start small

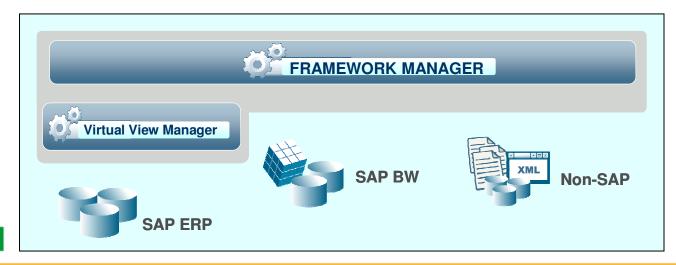


I. Framework Manager – Database View modelling tool

Think of BW Query Designer as Database View modelling tool for SAP BW data

Exceptions:

- Virtual View Manager to manage SAP ERP data
- > Framework Manager to manage non-SAP data



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I. Framework Manager – Overrides SAP BW Variables

Sometimes default settings are not appropriate, Framework Manager allows to override certain variable settings

- Showing Key & Caption (useful for compound characteristics)
- Prompt Type
- Default Values

AP BW Variables	
OSALEORG(Sales organization)	
Name	[0SALEORG]
Caption	
Selection Type	complex
Entry Type	optional
Default Low Value	
Default High Value	
Description	
SAP BW Variable Type	characteristic
Prompt Type	pickList
Use Default Value	false
Show Key and Caption	false
Initial Number of Pick List Values	0
Use As Key Date	false
■ ODIVISIO(Division)	
■ 0S_MAT(Material (Selection Options, Optional))	
□ OS_CUSTO(Sold-to party (optional entry))	
□ 0I_CALMO(Calendar Month/Year)	

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I. Framework Manager – Database View

Think of BW Query as the database view of SAP BW

REPORTING ANALYSIS

SUBSTITUTE OF THE PROPERTY OF THE PROPERTY

IBM Cognos 8

Framework Package

Metadata publishing tool – select and publish content from one or multiple data sources

Acts as a form of "data base view" to filter / pre-process data from "Select All" to "Select What You Need".

Framework Manager

BW Query

BW Query Designer

SAP BW

Cognos. software

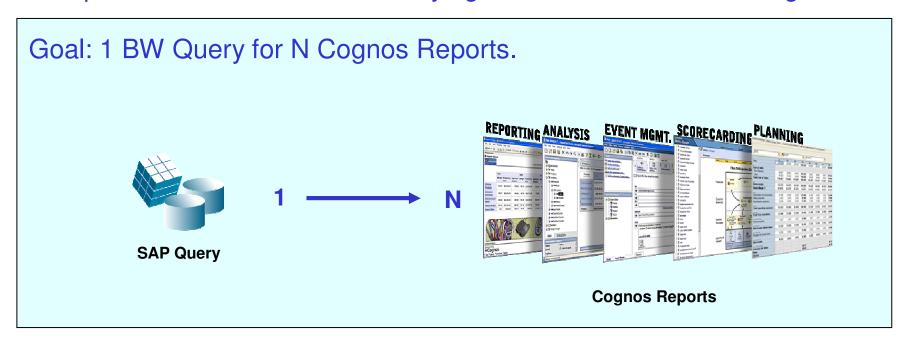
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II. SAP BW Queries

Modelling from the BW Query / Database View perspective:

- Database modelling completed during InfoProvider design.
- Expose BW characteristics & key figures for Framework Manager.

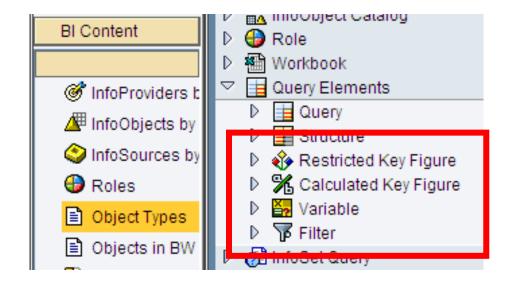




II. Leveraging SAP BW Queries – Points to Think About

Leveraging BW Query allows use of:

- Calculated Key Figures
- Restricted Key Figures
- Variables
- Filters





II. Leveraging SAP BW Queries – Calculated and Restricted Key Figures

- Not stored at InfoProvider level
- Push query processing back to SAP BW server
- Reduce result set sent back to Cognos Server

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II. Leveraging SAP BW Queries – Variables and Filters

BW Variables and Filters:

- Use as much as possible
- Processing will be done by SAP BW server

BW Variables

- Mandatory or Optional BW Variables
 - If optional in BW Query they can still be set as mandatory in the Cognos report
- BW Variables will automatically generate prompts in Cognos.
- Hierarchy Selection Variables are not supported but can be simulated.

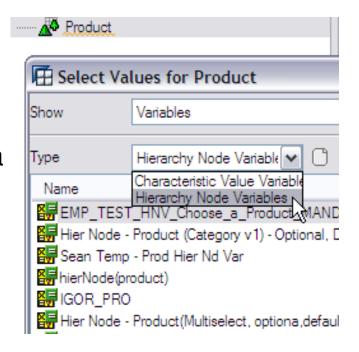




How to simulate SAP BW Hierarchy selection variable

What is SAP BW Hierarchy selection variable

- Defined at the level of BW characteristic
- Aggregate and group the characteristic data in different ways
- Allow users to choose a specific hierarchy node from a dynamically generated list





How to emulate SAP BW Hierarchy selection variable

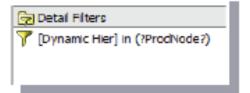
1. Create a Calculation using Prompt Tokens



2. Create a Value Prompt Page with Static Choices



3. Create a Filter on the Hierarchy



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Summary

- Cognos Framework Manager
 - Minimal modelling for SAP
 BW as opposed to other relational data sources
- SAP BW Query Design Considerations
 - Variables, filters,
 calculated/restricted key
 figures, etc





Next Step . . .

- Start small with one subject area
- Expand what you have learned in your environment to other subject areas







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