

# SAP BPC

## SAP BPC Classic Overview



# Course Objective

What to expect from this training:

- EPM and its related products, BPC Architecture, creating and configuring Models using security profiles



# BPC Classic

1. EPM introduction
2. BPC Architecture
3. Environment
4. Dimension
5. Model
6. BPF
7. BPC Security

# EPM?



EPM: Enterprise performance management is a part of Business process management which ensures all the operations are in a closed-loop across different aspects of the enterprise.



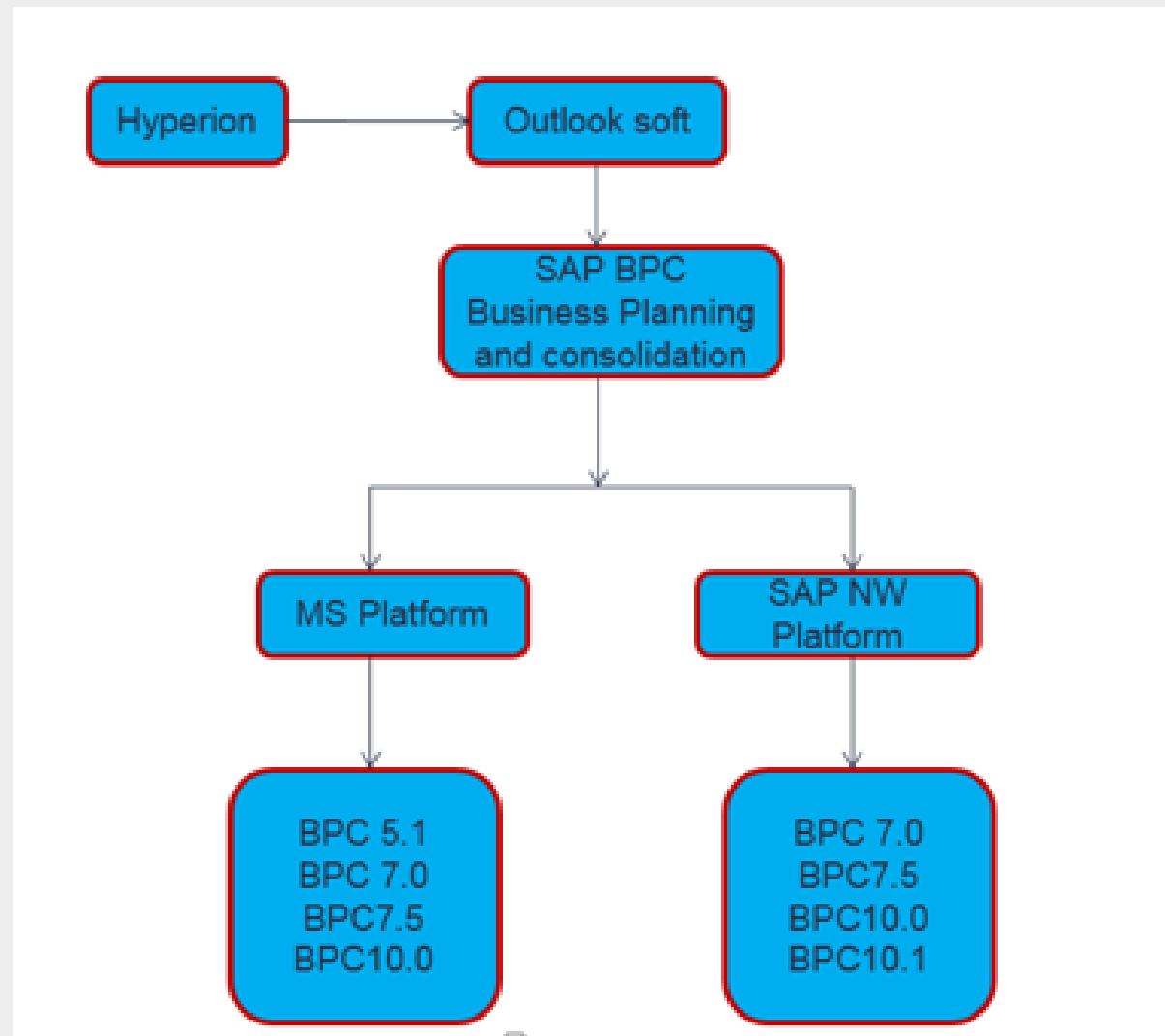


# SAP EPM - Products

- Business Planning and Consolidation
- Financial Consolidation
- Inter company
- Strategy Management
- Financial Information Management
- Disclosure Management
- Profitability and Cost Management
- Notes Management
- Spend Performance Management
- Supply Chain Performance Management
- Sustainability Performance Management



# BPC Product Roadmap



# SAP BW vs BPC Terminology



SAP BI Net Weaver	SAP BPC
Info Area	Environment
Info cube/ Multi Provider	Model
Characteristic Info objects: Ex: 0Customer, 0Vendor, 0Employee, 0Calday, 0FiscPeriod	Dimensions Notes : There is formal limitation of having up to 20 dimensions in an application. More than 20 dimensions are allowed but only with significant performance hits which always depend on the situation.
Characteristic Values: Ex: Customer C100,C101 Employee E100,E101 Cal day 20120712,20120713	Member
Attributes Ex: 0Customer has its dependant IOs like 0ACCNT_GRP 0COUNTRY 0BPARTNER	Properties
Key Figure Info Object	Measure/ Signed Data/ Amount Notes 1) We can use only one key figure info object in any BPC application 2) Measures are time related views of transaction data such as Period, Quarter to date and Year to date.



# Model Dependency-Relationship

- Planning Application----- Depends on ----- Rate Application
- Consolidation Application----- Depends on ----- Ownership Application
- Generic Application----- Generic Non Reporting
- (Reporting-HR/ Maintenance Planning) ----- (Head count Etc. )

## Reporting Application:-

- Planning
- Consolidation
- Generic

## Non-Reporting Application (Supporting Models for Reporting Application –Normally Reporting will be performed)

- Rate
- Ownership
- Generic

Note:-Mandatory Fields are C/E/A/T



# BPC Environment



**Learning and  
Development**

Enabling development,  
impacting growth.

INSIGHTS & DATA



# Creating a New Environment:

- When you create a new Environment, you must choose which parts of the source Environment you would like to copy to your target Environment.
- This action pane displays the records used in the existing Environment you specified in the previous step. Using the check boxes, select all the records that you want to copy to the new Environment. These include:

- ☐ Data in Models
- ☐ Web Documents
- ☐ Documents
- ☐ Journal Template

Records to Copy:

- ☒ Data in Models
- ☒ Web Documents
- ☒ Documents
- ☒ Journal Templates

- When an Environment is copied, Data in Models Web Documents, Documents, Journal Template can be copied from the Source Environment.
- The copy process is scheduled as a background job.
- If an error occurs during the copy process, a rollback will take place which clears all created objects up to that point.



# Setting Environment Status:

- You can check or change the status of an Environment. The available statuses are "Available" and "Unavailable." Some administration tasks automatically set the Environment to unavailable. You can also make it unavailable manually.
- In the message box, enter informative text that will be displayed when users try to login.
- The Environment status can be set to either "Available" or "Unavailable".
- A custom message can be created that will inform users that the Environment is unavailable.
- It is recommended to include the date and time in the message which will indicate to the users when they can log back on.

Planning and Consolidation

TRAINERWB.

Preferences

Home

Administration

Administration of BPC\_TRAINING\_WB

[Back to Administration](#)

Manage All Environments

Copy

Delete

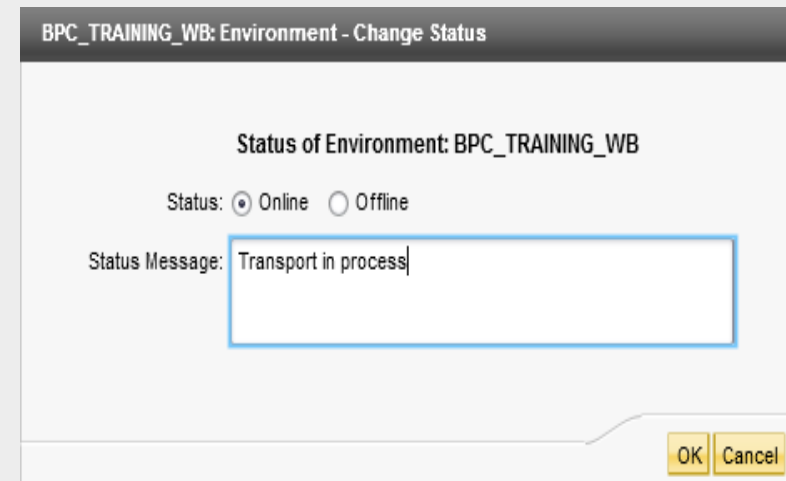
Change Status

Change Description

User Activity

Set Template Version

ID	Description	Connected	Status
BPC_TRAINING_WB	Training environment for WB team - Suresh D.		Online
HSS_Planning	BPC HSS Sample Environment		Online



**BPC\_TRAINING\_WB: Environment - Change Status**

Status of Environment: BPC\_TRAINING\_WB

Status: ☒ Online ☐ Offline

Status Message:

OK Cancel



# Set Template Version:

- If you have made changes to any of the dynamic templates for reports or schedules, you can force an update of template files by changing the template version. Therefore, clients that log on to the environment receive the new templates. Updating the template version number will force an update of the template files to the clients.
- You can set template versions by choosing Manage All Environments, selecting an environment, then choosing "Set Template Version". Increment template versions by 1.

The screenshot shows the 'Planning and Consolidation' interface with the 'Administration' tab selected. A modal dialog titled 'BPC\_TRAINING\_WB: Environment - Set Template Version' is open. The dialog displays the 'Template Version: BPC\_TRAINING\_WB' and the 'Environment ID: BPC\_TRAINING\_WB'. A text input field for 'Version' contains the value '1.000'. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

ID	Description	Status
BPC_TRAINING_WB	Training environment for V	Online
HSS_Planning	BPC HSS Sample Environ	Online



# Delete Environments:

- Deletion of Environments is available through the Admin Console.
- You should be extremely careful, as once an Environment is deleted, it is not coming back.
- This slide describes how to delete an Environment.
- The delete is permanent and cannot be reversed.

The screenshot shows the 'Planning and Consolidation' section of the Admin Console, specifically the 'Administration' tab for 'BPC\_TRAINING\_WB'. The 'Manage All Environments' page displays a table of environments. A 'Confirm Deletion' dialog box is open, asking for confirmation to delete the selected environment, 'HSS\_Planning'.

ID	Description	Status
BPC_TRAINING_WB	Training environn	Online
HSS_Planning	BPC HSS Sample	Online

**Confirm Deletion**

Are you sure you want to delete the selected environment? This action cannot be undone.

OK Cancel



# User Activity

- User Activity is the replacement to “Who is online”.
- This means, it will log end user as well as Administrator behavior.

Home Administration x

Administration of BPC\_TRAINING\_WB

[Back to Administration](#)

Manage All Environments

Copy Delete Change Status Change Description User Activity Set Template Version

ID	Description	Conn...	Status
BPC_TRAINING_WE	Training environm		
HSS_Planning	BPC HSS Sample		

BPC\_TRAINING\_WB: User Activity

Refresh

Logon Date	Environme...	User ID	IP Address	Activity Time	Model	Module
2015-05-15	BPC_TRAINING	TRAINEE07	10.76.81.47	19:35:30		PC Web Client
2015-05-18	BPC_TRAINING	TRAINEE04	10.74.164.15	11:28:38		PC Web Client
2015-05-18	BPC_TRAINING	TRAINERWB	10.76.80.117	13:41:41		PC Web Client
2015-05-18	BPC_TRAINING	TRAINERWB	10.76.118.116	15:06:03		PC Web Client
2015-05-18	BPC_TRAINING	TRAINEE06	10.76.80.85	19:52:25		PC Web Client



# Terminology: Dimensions

- Dimensions consist of members.
- If the members of the dimension are arranged in a hierarchical order, the relationship between members is described with terms such as Parent, Child, and Sibling.

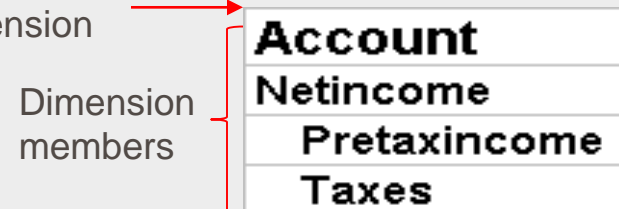
Flat dimension



<b>Category</b>
<b>Actual</b>
<b>Budget</b>
<b>Forecast</b>

Dimension Members

Hierarchical  
Dimension

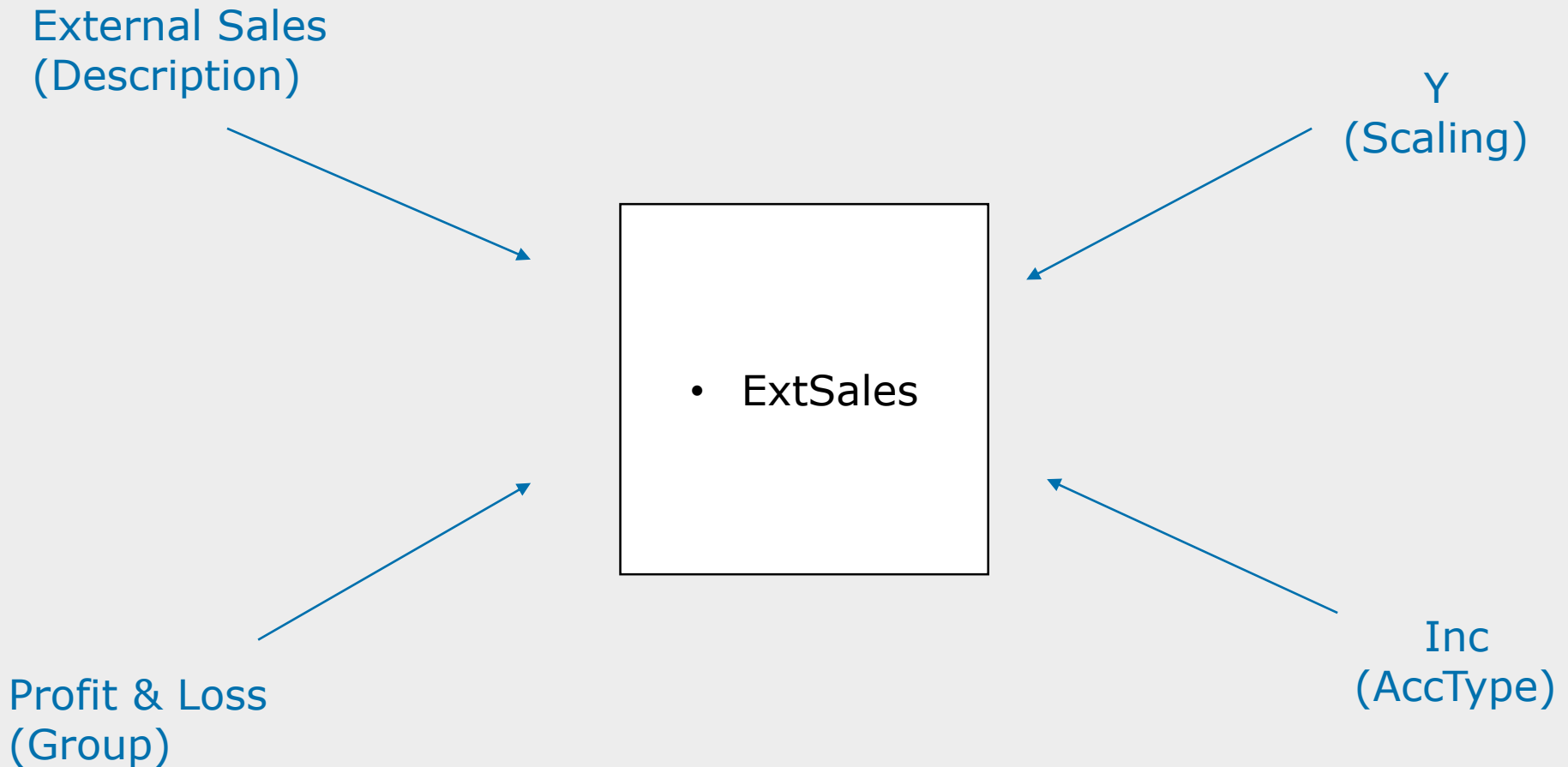


<b>Account</b>
<b>Netincome</b>
<b>Pretaxincome</b>
<b>Taxes</b>

Dimension members



# Terminology: Properties







# Dimension Types(1)

- Dimension Types define a specific role the dimension plays in an SAP Business Planning and Consolidation Model.
- Required in every Model:
  - A = Account type dimension
  - C = Category type dimension
  - E = Entity type dimension
  - T = Time type dimension
- Required in each Environment:
  - R = Currency type dimension
  - Needed to validate currencies entered in the Entity dimension.
  - Does not have to be part of any Models within the set.



# Dimension Types(2)

- Required for Intercompany Eliminations:

I = Intercompany

G = Group

S = Sub table

D = Audit Trail

- You can also create additional dimensions as needed:

Un = User Defined dimension type. For each user defined dimension you create, the number (n) will be incremented. For example, U1, U2, U3, etc.



# Creating Dimensions:

- Dimensions are added at the Environment level in the dimension library folder.
- These dimensions becomes shared dimensions that are available for use in any Model in the Environment.
- Click on the Dimension Library in the Web Admin. This opens the available tasks.
- Select "New" to build a new dimension.

Note: A dimension that is used in an Model cannot be deleted.

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PreferencesHelp

HomeAdministration

Administration of BPC\_TRAINING\_WBManage All Er

Dimensions and Models

Dimensions

Models

Security

Rules

Business Process Flows

Features

Dimensions

+ NewEdit MembersEdit StructureDeleteCopyProcess

ID	Description	Type	Status	
ACCOUNT	Account	Account - A		
ACC_TEST	ACC_TEST	Account - A		
ASS_ACCOUNT	Account	Account - A		
ASS_CATEGORY	Category	Category - C		
ASS_ENTITY	Entity	Entity - E		
ASS_PRODUCT	Product	User-defined - U7		
ASS_RPTCURRENCY	RPTcurrency	Currency - R		
ASS_TIME	ASS_TIME	Time - T		



# Creating Dimensions (1 of 3)

➤ To create a new dimension:

- Click "Add a new dimension".
- Specify the dimension name and add a dimension description.
- Choose the Dimension Type.
- Specify the reference dimension (if applicable).
- Flag whether you would like to enable Time Dependent Hierarchies.
- Specify your dimension properties (i.e. BI Attributes) on the Properties screen.

The screenshot shows the 'Administration of BPC\_TRAINING\_WB' interface. The left sidebar contains a tree view with 'Dimensions and Models' expanded, showing 'Dimensions' and 'Models'. The main area displays a table of dimensions. A 'Copy a Dimension' dialog box is open, showing the 'Dimension Source' as 'ACCOUNT' and 'Account - A'. The 'ID' field is set to 'PL\_ACCOUNT' and the 'Description' field is set to 'PL Account'. The dialog has 'Copy' and 'Cancel' buttons.

ID	Description	Type	Status
ACCOUNT	Account	Account - A	●
ACC_TEST	ACC_TEST	Account - A	●
ASS_ACCOUNT	Account	Account - A	▲
ASS_CATEGOR			
ASS_ENTITY			
ASS_PRODUCT			
ASS_RPTCURE			
ASS_TIME			
AS_ACCOUNT			
AS_CATEGOR			
AS_ENTITY			



# Creating Dimensions (2 of 3)

- You can then add your properties here.
- If you flagged your dimension as time dependent, you can define which property is stored as time dependent within your SAP NetWeaver BI system. Time dependency stores a validity date for master data. You should model a property called "INACTIVE" to flag a property as inactive or to end date the property. For time dependent hierarchies, you should create a node called "INACTIVE" and move members to this node to end date them.
- Click "Add a New Dimension" in the Action Pane when you are finished adding properties.

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Home Administration

Administration of BPC\_TRAINING\_WB

Save Close

Structure of Dimension: BP\_ACCOUNT Go To: [Members](#)

Type: Account - A

Referential Integrity for: RATETYPE NONE

☐ Allow Member Formulas

☐ Time-dependent Hierarchy

Description: Account

**Properties**

Add Remove

ID	Name	Number of Characters
1 ACCTYPE	Account type	3
2 RATETYPE	Rate type	32
3 SCALING	Scaling	1

**Hierarchies**

Add Remove

Name	ID
1 PARENTH1	PARENTH1



# Creating Dimensions (3 of 3)

- The dimension and properties you create can be seen within the SAP NetWeaver BI Data Warehousing Workbench (transaction RSA1 or RSD1).
- All technical names are generated based on a naming convention in SAP Business Planning and Consolidation.

The screenshot displays the SAP NetWeaver BI Data Warehousing Workbench interface. On the left, a tree view lists various dimensions under the 'Provider' node, including BP\_MODEL, Consolidation, JG\_PLANNING, Ownership, Planning, Planning\_B, Rates, SH\_PLANNING, SK\_PLANNING, SR\_PLAN, ACCOUNT, ACC\_TEST, ASS\_ACCOUNT, ASS\_CATEGORY, ASS\_ENTITY, ASS\_PRODUCT, ASS\_RPTCURRENCY, ASS\_TIME, AS\_ACCOUNT, AS\_ACCOUNT, AS\_CATEGORY, AS\_ENTITY, AS\_PRODUCT, AS\_RPTCURRENCY, AS\_TIME, and AUDITTRAIL. The main area shows the configuration for the 'BP\_ACCOUNT' dimension. The 'Characteristic' is set to '/CPMB/CODX8XI'. The 'Long description' and 'Short description' are both 'BP\_ACCOUNT'. The 'Version' is set to 'Active', and the 'Object Status' is 'Active, executable'. The 'Attributes' tab is selected, showing a table of navigation attributes.

Attribute	V...	Long description	Ty.	T...	O...	N...	A...	T...	Navigation att. de
/CPMB/ACCTYPE		Account type	NAV		0				ACCTYPE
/CPMB/CALC		Calculated member flag	NAV		0				CALC
/CPMB/HIR		HIR	DIS		0				
/CPMB/RATETYP		Rate type	NAV		0				RATETYPE
/CPMB/SCALING		Scaling	DIS		0				



# Member Sheets:

- Member Sheets are where the members of each dimension (and the member properties) in your Model are maintained.
- Member Sheets are displayed in Web admin as below.
- When you create a new dimension, a Member Sheet is automatically created, with column headings for every property that has been defined using “Manage dimension property”.

Member Name

Members

The screenshot shows a web application interface for 'Administration of Z\_Env\_Training'. It features a navigation bar with 'Home' and 'Administration' tabs. Below the tabs are buttons for 'Save', 'Save and Process', and 'Close'. The main content area is titled 'Members of Dimension: INPUTCURRENCY' and includes a toolbar with 'Delete', 'Revert', 'Recently Deleted Members', 'Display', and 'Export to CSV'. A table lists four members with their IDs, descriptions, entities, and multipliers.

	ID	Description	ENTITY	Multipl...	REPOR...
1	AED	UAE Dirham		M	
2	AFN	Afghani		M	
3	ALL	Lek		M	
4	AMD	Armenian Dram		M	



# Maintaining Dimension Members (1)

- If you select a dimension and click on Edit Member.

Administration of E-ent Training

▼ Dimensions and Models

Dimensions

Models

▼ Security

Users

Teams

Task Profiles

Data Access Profiles

► Rules

► Business Process Flows

► Features

**Dimensions**

+ New Edit Members Edit Structure Delete Copy Process

ID	Description
INPUTCURRENCY	Currency
PEP_CATEG	Category
PEP_CC1	Cost Center
PEP_CE	Cost Elements
PEP_DS	Data Source
PEP_HR	Accounts for HR Plan
PEP_JOBAND	Job Level
PEP_MKT	Markets
PEP_RPTCURRENCY	Reporting Currency
PEP_TIM	Time
R_ACCOUNT	Rate Account
R_ENTITY	Rate Entity

Save Save and Process Close

**Members of Dimension: INPUTCURRENCY**

Delete Revert Recently Deleted Members Display Export to CSV

	ID	Description	ENTITY	Multipl...	REPOR...
1	AED	UAE Dirham		M	
2	AFN	Afghani		M	
3	ALL	Lek		M	
4	AMD	Armenian Dram		M	
5	ANG	Netherlands Antillian Guilder		M	
6	AOA	Kwanza		M	





# Creating Hierarchies:

- Hierarchies can be defined for any/all dimensions, but are not required.
- This property does not appear in the property list in “Maintain dimension property”.
- To define a hierarchy: add the PARENTHn property as a column directly in a dimension member sheet via “Maintain dimension elements”.
- You can have more than one hierarchy within the same dimension, for example:

---The PEP\_JOB BAND BAND1 reports to the parent REGULAR defined in the PARENTH1 column.

---The PEP\_JOB BAND BAND10 reports to the parent CONTRACT defined in the PARENTH1 column.

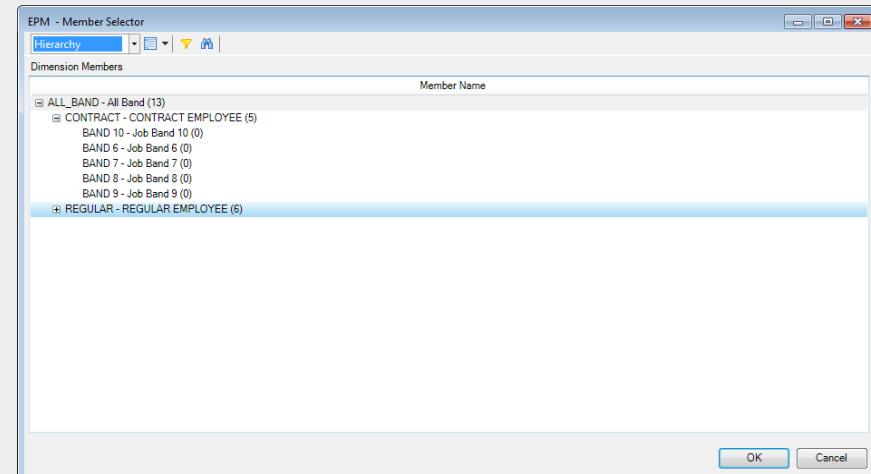
Administration of Z\_Env\_Training

Save Save and Process Close

Members of Dimension: PEP\_JOB BAND

Delete Revert Recently Deleted Members Apply Hierarchy Order Display Export to CSV

ID	Description	Scaling	H1
1	ALL_BAND	All Band	
2	BAND 1	Job Band 1	REGULAR
3	BAND 10	Job Band 10	CONTRACT
4	BAND 11	Job Band 11	REGULAR
5	BAND 2	Job Band 2	REGULAR
6	BAND 3	Job Band 3	REGULAR
7	BAND 4	Job Band 4	REGULAR
8	BAND 5	Job Band 5	REGULAR
9	BAND 6	Job Band 6	CONTRACT
10	BAND 7	Job Band 7	CONTRACT
11	BAND 8	Job Band 8	CONTRACT
12	BAND 9	Job Band 9	CONTRACT
13	CONTRACT	CONTRACT EMPLOYEE	ALL_BAND
14	REGULAR	REGULAR EMPLOYEE	ALL_BAND





# Processing Dimensions:

- When you process a dimension, you can choose to process Just “Save” or “Save and Process”.
- This means that when you process a dimension, the values to save back to the master data of the SAP NetWeaver BI InfoObject are taken from the web sheet you currently have open on your client machine.

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Home Administration

Administration of BPC\_TRAINING\_WB

Save Save and Process Close

Members of Dimension: AS\_ACCOUNT Go To: Structure of Dimension: AS\_

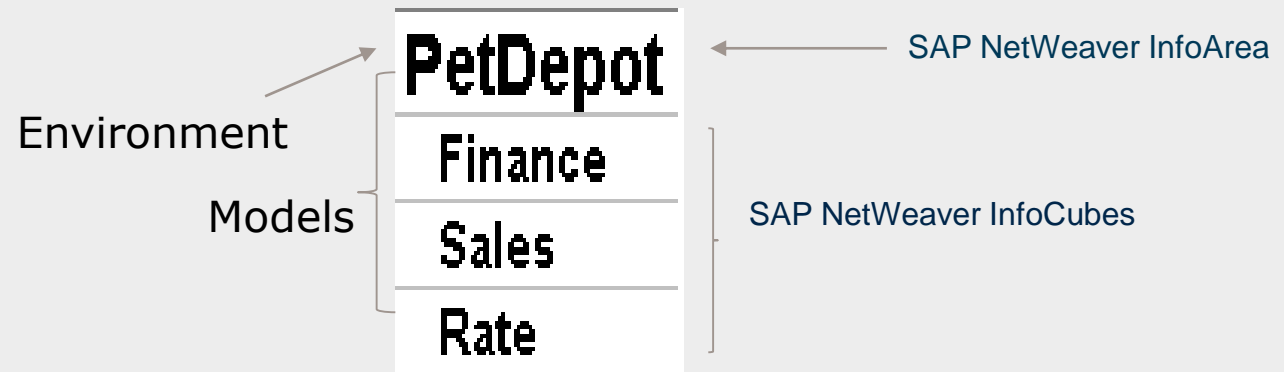
Delete Revert Recently Deleted Members Apply Hierarchy Order Display Export to CSV View: List

	ID	Description	Accou...	BAL_F...	INC ST_...	Rate ty...	Scaling	TOP_P...
1	AGT_COMM	Agent commission	EXP					TOP_PER
2	DISCOUNT	discount	EXP					TOP_PER
3	NETREVENUE	net revenue	EXP			AVG		TOP_PER
4	QTY	QTY	EXP					TOP_PER
5	REVENUE	revenue	EXP					TOP_PER
6	SPL_DISCOUNT	special discount	EXP					TOP_PER
7	TOP_PER_UNIT	Top per unit	EXP					
8	U_COST	cost per unit	EXP					TOP_PER
9	U_PRICE	unit price	EXP					TOP_PER
10	VAR_COSTS	variable costs	EXP					TOP_PER



# Models:

- An Model is a functional unit used for a particular purpose
- Examples: Finance Model or Sales Model
- In SAP NetWeaver BI, an Model is approximately equivalent to a cube.



- Models may share dimensions with other Models within the same Environment, or have dimensions that are unique.



# Web Admin – Models

- The Admin user is able to add, copy, delete and modify an Model.

**Planning and Consolidation** | TRAINERWB .

Home

Administration

Administration of BPC\_TRAINING\_WB

Dimensions and Models

Dimensions

**Models**

Security

Rules

Business Process Flows

Features

**Models**

New Edit Delete Copy | Optimize

ID	Description
ASS_PLAN	PLANNING
AS_MODEL	As Planning
BP_MODEL	BP MODEL
Consolidation	Consolidation
JG_PLANNING	JG Planning
Ownership	Ownership
Planning	Planning
Rates	Exchange Rates



# Web Admin – Model Options

- If you select an individual Model level on the left, the Action Tab will display tasks relevant for that Model: Edit, Delete or Optimize.

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Home Administration

Administration of BPC\_TRAINING\_WB

▼ Dimensions and Models

Dimensions

**Models**

► Security

► Rules

► Business Process Flows

► Features

### Models

New Edit Delete Copy | Optimize

ID	Description
ASS_PLAN	PLANNING
AS_MODEL	As Planning
<b>BP_MODEL</b>	<b>BP MODEL</b>
Consolidation	Consolidation
IC Planning	IC Planning



# Modifying an Model:

- During modifying an Model, it is possible to add/remove dimensions.

The screenshot shows a web application interface for 'Administration of BPC\_TRAINING\_WB'. It has two tabs: 'Home' and 'Administration'. The 'Administration' tab is active. Below the tabs, there's a 'Change type' button. The main content area is divided into two panels. The left panel, titled 'Dimensions in the model', contains a table with columns 'ID', 'Description', 'Type', and 'Sec...'. The table lists six dimensions: BP\_ACCOUNT (Account - A), BP\_CATEGORY (Category - C), BP\_ENTITY (ENTITY - E), BP\_PRODUCT (PRODUCT - User-defined - U), BP\_RPTCURREN (CURRENCY - R), and BP\_TIME (TIME - T). The 'BP\_ENTITY' row has a checked checkbox in the 'Sec...' column. The right panel, titled 'General Settings', contains fields for 'Description' (BP MODEL), 'Type' (Financial), 'Exchange Rates' (Defined in Model "Rates"), and 'Data Entry Mode' (PER - Periodic). Below this, there's a section 'Features Used with the Model' with 'Work status' (Off) and 'Data Audit' (On).

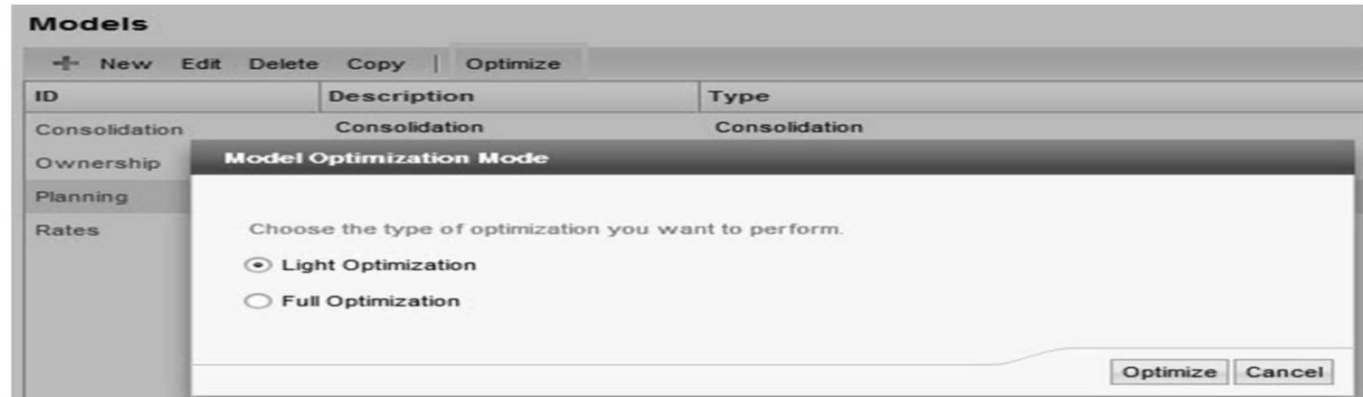
ID	Description	Type	Sec...
BP_ACCOUNT	Account	Account - A	<input type="checkbox"/>
BP_CATEGORY	Category	Category - C	<input type="checkbox"/>
BP_ENTITY	ENTITY	Entity - E	<input checked="" type="checkbox"/>
BP_PRODUCT	PRODUCT	User-defined - U	<input type="checkbox"/>
BP_RPTCURREN	CURRENCY	Currency - R	<input type="checkbox"/>
BP_TIME	TIME	Time - T	<input type="checkbox"/>

- Dimensions can't be added if they would violate the standard rules (i.e. required types, duplicates, etc.)
- Dimensions can't be removed if there are dependent settings on them, like Work Status.
- Each Model should have at least four dimensions; Account, Category, Entity and Time.



# Model Optimization

- Optimize will run a number of technical steps on the SAP NetWeaver BI InfoCube in an attempt to improve performance. There is no rule of thumb for how often to run optimizations, but as data volumes grow over time, it is recommended to run optimize periodically.
- There are two different types of optimize available:
  - **Light Optimization:** Closes the open request, compresses without Zero-Elimination and indexes the cube, and updates database statistics for the BW InfoCube.
  - **Full Optimization:** Will perform the same operations as Light Optimization, but will also check the NetWeaver BW data model. If the data model can be improved, Full Optimization will do so, and this could take a long time to run (for cubes with large data volumes).





# Model Types:

## REPORTING

- **Financial**: performs management consolidation functions, such as currency conversions, intercompany eliminations, etc.
  - - Must reference a Rate-type Model.
- **Consolidation**: performs legal consolidations. Similar to Financial Models, but with legal consolidation rules instead of management.
  - - Must reference an Ownership-type Model and a Rate-type Model.
- **Standard**: has no special requirements (other than to include the four minimally required dimensions – customized)

## Driver and Rates

- **Rate**: stores exchange rates that support currency conversions for reporting Models.
  - Must include a Currency-type dimension to store the exchange rates by currency.
- **Ownership**: Stores information such as the consolidation methods, ownership percentages, and group rollup information used for legal consolidation.
- **Generic**: has no special requirements (other than to include the four minimally required dimension -customized).





# Referencing Models & Business Rules:

- When you create an Model, you will be asked to select the necessary reference Models.
- The drop down lists will automatically populate with the available choices for the reference Model.
- When applicable, you can also choose the business rules that you want to apply to the Model.

## Financial

The 'New Model' dialog for Financial models shows the 'Model Type' tab selected. The 'Reporting' section has 'Financial' selected. The 'Options' section has 'Data Entry Mode' set to 'PER - Periodic' and 'Model Containing Exchange Rates' set to 'Rates'. The 'Drivers and Rates' section has 'Exchange Rates', 'Ownership', and 'Generic' all unselected. The bottom navigation bar shows 'Previous', 'Next', and 'Cancel' buttons.

## Consolidation

The 'New Model' dialog for Consolidation models shows the 'Model Type' tab selected. The 'Reporting' section has 'Consolidation' selected. The 'Options' section has 'Data Entry Mode' set to 'PER - Periodic', 'Model Containing Exchange Rates' set to 'Rates', and 'Ownership Model' set to 'Ownership'. The 'Drivers and Rates' section has 'Exchange Rates', 'Ownership', and 'Generic' all unselected. The bottom navigation bar shows 'Previous', 'Next', and 'Cancel' buttons.

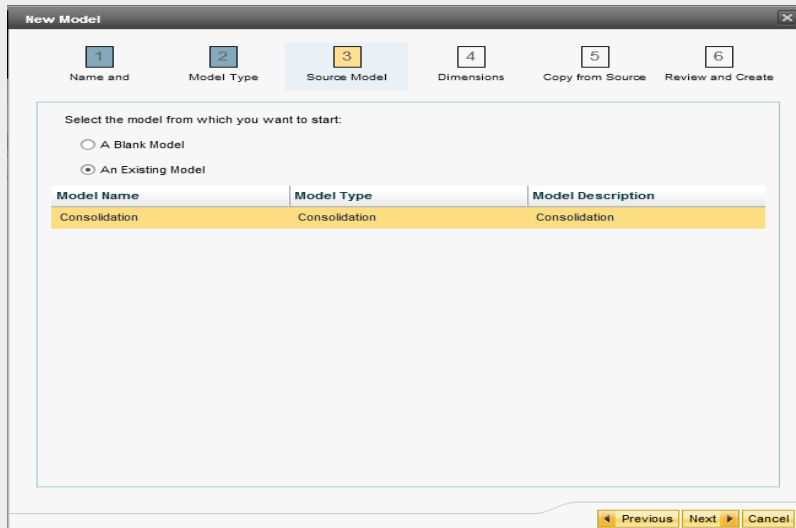
## All others

The 'New Model' dialog for All others models shows the 'Model Type' tab selected. The 'Reporting' section has 'Standard' selected. The 'Options' section has 'Data Entry Mode' set to 'PER - Periodic'. The 'Drivers and Rates' section has 'Exchange Rates', 'Ownership', and 'Generic' all unselected. The bottom navigation bar shows 'Previous', 'Next', and 'Cancel' buttons.



# Assigning Dimensions to Models:

- When you creating an Model, you can choose whether to copy the same dimensions as per the source Model you selected as a template, or whether you want to change the dimensions.
- You will then be presented with the below screen allowing you to add or remove dimensions. You can also flag a dimension as "Secured", which means security can be controlled through Member Access Profiles.



**New Model**

1 Name and 2 Model Type 3 **Source Model** 4 Dimensions 5 Copy from Source 6 Review and Create

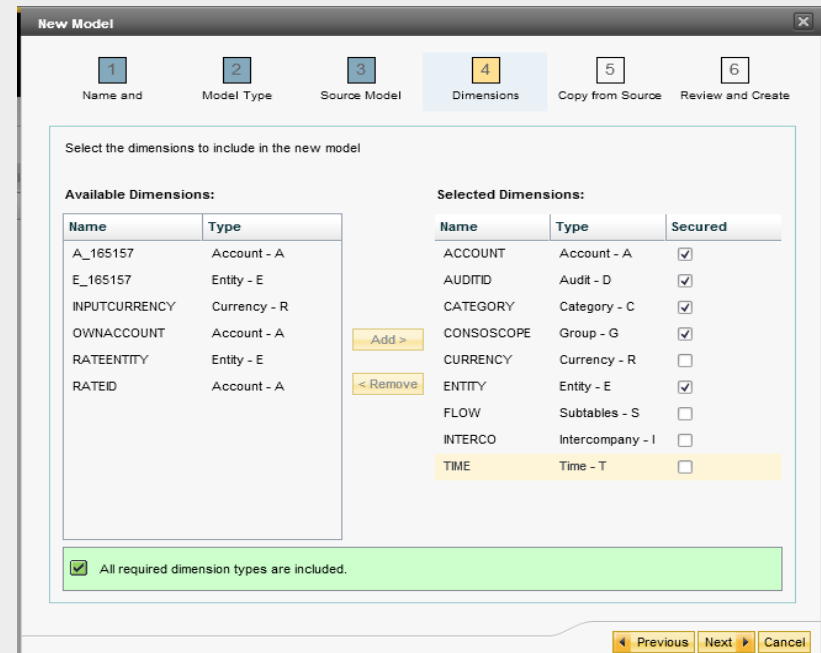
Select the model from which you want to start:

☐ A Blank Model

☒ An Existing Model

Model Name	Model Type	Model Description
Consolidation	Consolidation	Consolidation

Previous Next Cancel



**New Model**

1 Name and 2 Model Type 3 Source Model 4 **Dimensions** 5 Copy from Source 6 Review and Create

Select the dimensions to include in the new model

**Available Dimensions:**

Name	Type
A_165157	Account - A
E_165157	Entity - E
INPUTCURRENCY	Currency - R
OWNACCOUNT	Account - A
RATEENTITY	Entity - E
RATEID	Account - A

Add >

< Remove

**Selected Dimensions:**

Name	Type	Secured
ACCOUNT	Account - A	<input checked="" type="checkbox"/>
AUDITID	Audit - D	<input checked="" type="checkbox"/>
CATEGORY	Category - C	<input checked="" type="checkbox"/>
CONSOSCOPE	Group - G	<input checked="" type="checkbox"/>
CURRENCY	Currency - R	<input type="checkbox"/>
ENTITY	Entity - E	<input checked="" type="checkbox"/>
FLOW	Subtables - S	<input type="checkbox"/>
INTERCO	Intercompany - I	<input type="checkbox"/>
TIME	Time - T	<input type="checkbox"/>

☒ All required dimension types are included.

Previous Next Cancel



# Back-end Info Providers:

- InfoProvider definitions for an SAP Business Planning and Consolidation Model can be seen in SAP NetWeaver using transaction RSA1.

InfoProvider	1	InfoCube data model	Techn.name
VIRIDOR ENVIRONMENT FOR BUILD	/CF ▲	▼  BP_MODEL	/CPMB/COIRMMA
Centrica BPC	/CF ▼	▶  BP_TIME	/CPMB/COIRMMA1
Training environment for WB team - Suresh D.		▶  BP_ACCOUNT	/CPMB/COIRMMA2
•  ASS_PLAN	/CF	▶  BP_ENTITY	/CPMB/COIRMMA3
•  AS_MODEL	/CF	▶  BP_PRODUCT	/CPMB/COIRMMA4
•  BP_MODEL	/CF	▶  BP_RPTCURRENCY	/CPMB/COIRMMA5
•  Consolidation	/CF	▶  BP_CATEGORY	/CPMB/COIRMMA6
•  JG_PLANNING	/CF	▶  Data Package	/CPMB/COIRMMAP
•  Ownership	/CF	▶  Key Figures	1KYFNM
•  Planning	/CF	▶  Navigation Attributes	1ATTRIBUTE

- Transaction RSDCUBE provides more information about the cubes.



# Secure Flag:

- For any given dimension assigned to the Model, you can secure the dimension by selecting the dimension and the clicking on the Secured Check box.
- For secured dimensions assigned to the Model, you must grant read/write/denied access to the dimension by using Data access profiles (details will be discussed in the Security section).
- Now Read/Write access is controlled entirely in the Data Access Profiles.

# Introduction to Business Process Flow:



- Business Process flow is method of defining a business process within the context of SAP BPC.
- A BPF guides end –user with predefined process:
  - Data controls
  - Sequential process steps
  - Process tracking and communication
- BPF is focused on the collection and verification of data required to complete a business process successfully.

# Key benefits of Business Process Flows:



- Helps with coordination
- **Web based user Interface**
- Status and Tracking
- **Guided Navigation**
- Email Notifications
- **Steps can be reopened**
- Steps can be reviewed by higher authorities
- **Workstatus Integration**

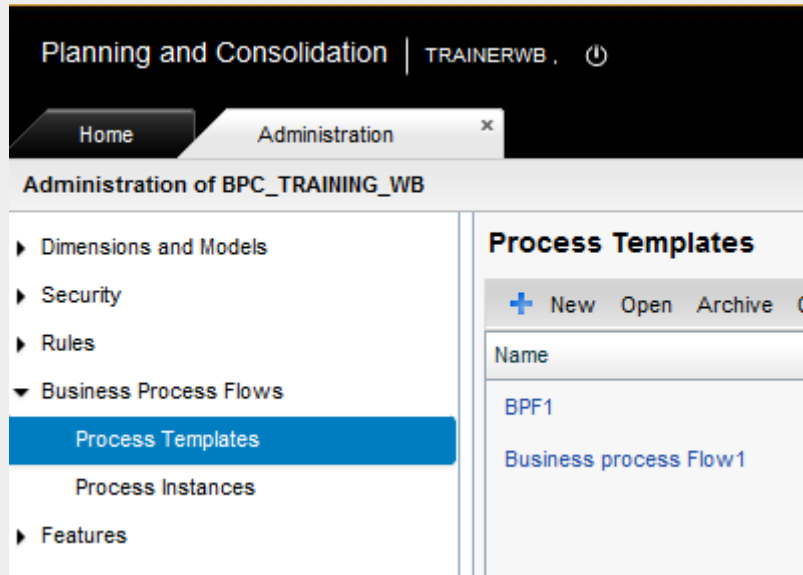


# Functions:

- There are two major functions in BPF:
  - BPF Template - A process template is the specification of a single enterprise-wide business process, containing tasks that can span across the various modules of Planning and Consolidation.
  - BPF Instance - is an iteration of a process template that is in active use.



# BPF Template:



- To create a new BPF Template ( BPF2)
- Select Process Templates ☐ click New
- Enter the Process Information in the Process Settings Tab.

Save

Close

### Process Template: BPF2

Process Settings

Activities

Name:

BPF2

Description:

Business Process Flow

Model and Dimensions

Select the model and process context of this process; each time the process is launched, the user is asked to provide values for the dimensions:

Model:

SH\_PLANNING

Dimensions:

SH\_TIME

Process Monitors

Process Monitors are the users who can monitor all the instances created from this template.

When an instance is created, one of these users will be given the responsibility of finalizing it.

Users:

TRAINERWB



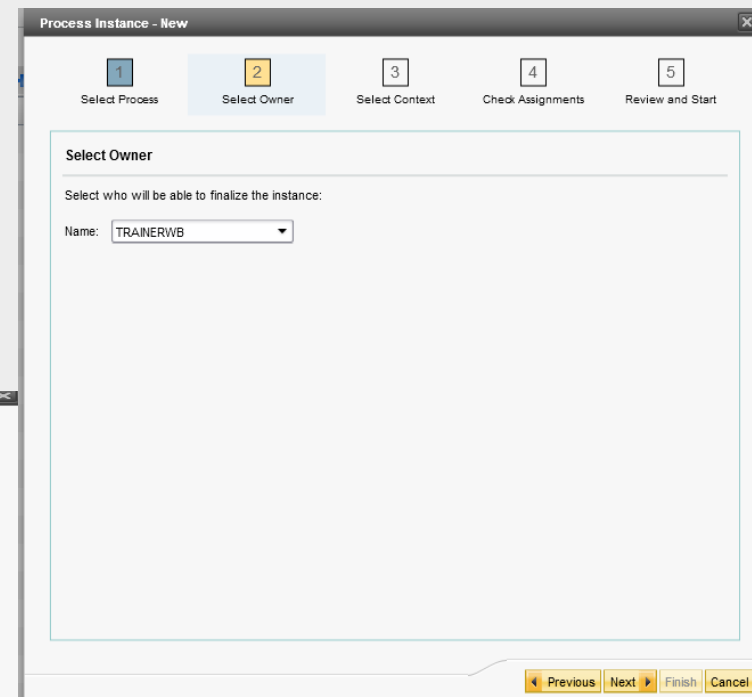
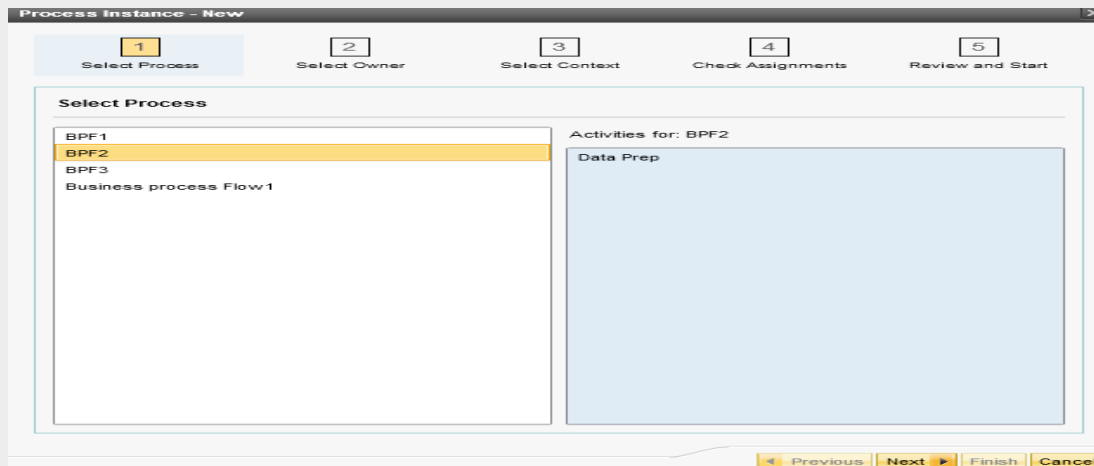
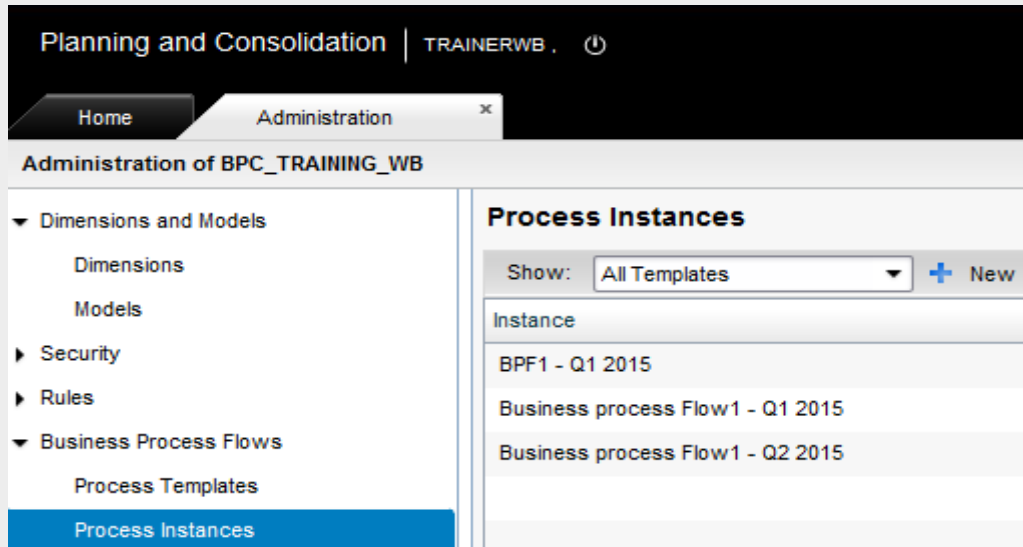


# BPF Instance:

- BPF Instance - is an iteration of a process template that is in active use.
- Steps involved in creating a new Process Instance are:
  - Click New
  - Select a Process
  - Select Owner
  - Select the Context
  - Check Assignments
  - Review and Start



# Steps to create Process Instance:





# Executing a BPF:

- In Home Page go to Activities → Select the activity
- In Details Section click on the activity → Activity work space will open to perform the actions. Have to open each Data prep activity HQ/AUSTRALIA/CANADA etc. in sequence and can complete the steps

Home

Administration

Start Page

Activities

Process Monitor

Library

Documents

Consolidation Central

Audit

Activities

Show: All

Refresh

Process	Context	Action Required	Completion	Process Manager
BPF1	Q1 2015		8 / 8	TRAINERWB
Business process Flow1	Q1 2015		2 / 2	TRAINERWB
Business process Flow1	Q2 2015		0 / 2	TRAINERWB
BPF2	Q1 2015		0 / 8	TRAINERWB

Details: BPF2 - Q1 2015

Show: All

Open

Actions

Reopen

Refresh

Name	Context	Action Required	Status	Assignees
Data Prep	HQ	To Perform	Open	TRAINERWB
Data Prep	AUSTRALIA	To Perform	Open	TRAINERWB
Data Prep	CANADA	To Perform	Open	TRAINERWB
Data Prep	GERMANY	To Perform	Open	TRAINERWB
Data Prep	INDIA	To Perform	Open	TRAINERWB
Data Prep	JAPAN	To Perform	Open	TRAINERWB
Data Prep	SINGAPORE	To Perform	Open	TRAINERWB
Data Prep	USA	To Perform	Open	TRAINERWB



# SAP BPC - Security

Security in SAP BPC system is defined using two components – Authentication and Authorization. Authentication defines who can access system and data, while Authorisation tells the level of access for each authenticated user.

SAP BPC security is based on access profiles and task profiles. When you don't assign task profiles to users or teams, no access to BPC tasks will be provided. Thus you have to assign access to members of a secured dimension.

BPC Security provides the following key functions –

- ☐ Add Users
- ☐ Add Teams
- ☐ Add Task Profiles
- ☐ Add Member access profiles



# SAP BPC – Security

To manage the above function, logic to BPC administration and go to security

The screenshot shows the SAP BPC Administration interface. At the top, the header reads "Planning and Consolidation | BPCUSER2 . ⏻". Below this, there are two tabs: "Home" and "Administration". The "Administration" tab is active, showing the "Administration of shruti" page. On the left side, there is a navigation menu with the following items: "Dimensions and Models" (expanded), "Dimensions", "Models", "Security" (highlighted with a black arrow), "Users", "Teams", "Task Profiles", "Data Access Profiles", "Rules", "Business Process Flows", and "Features". The main content area on the right is titled "Security" and contains four sections: "Users" (with the description "Add users to the environment and manage their access rights."), "Teams" (with the description "Set up teams of users with the same access rights."), "Task Profiles" (with the description "Set up profiles that allow tasks to be performed, and assign them to users and teams."), and "Data Access Profiles" (with the description "Set up profiles that allow access to data in models, and assign them to users and teams.").



# SAP BPC – Security

There are four tabs under Security –

**Users** – This is used to add users to the environment and manage access rights.

**Teams**- You can add users with the same access rights to the same team.

**Task Profiles** – This is used to set up profiles that allow tasks to be performed and assign them to users and teams.

**Data Access Profiles** – This is used to set up profiles that allow access to data in models and assign them to users and teams.

To Add/Edit/Delete any of the objects under Security, select the object as shown in the following screenshot

People matter, results count.



## About Capgemini

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