Microsoft

Introducing Microsoft® Office PerformancePoint™ Server 2007

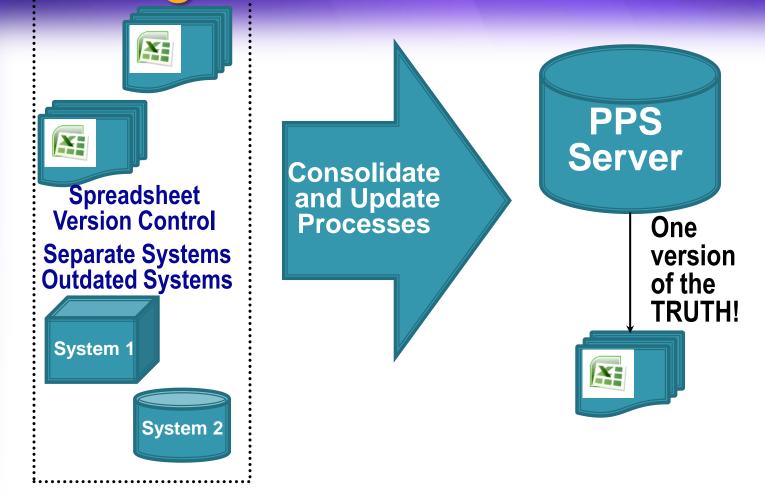
Agenda

- Overview of PPS
- Dimensions & Multi-dimensionality
- The PPS Life Cycle, and Introduction to PPS Applications
- Model Sites, Models, Model Types, and Model Properties
- Dimensions, Members, Member Sets, Member Views, and Member Properties
- Data Integration
- Users, Roles, and Security
- Forms and Reports in PPS Excel Add-In
- Financial Intelligence
- Calculations: Business Rules, and Jobs
- Process Management: Cycles and Assignments

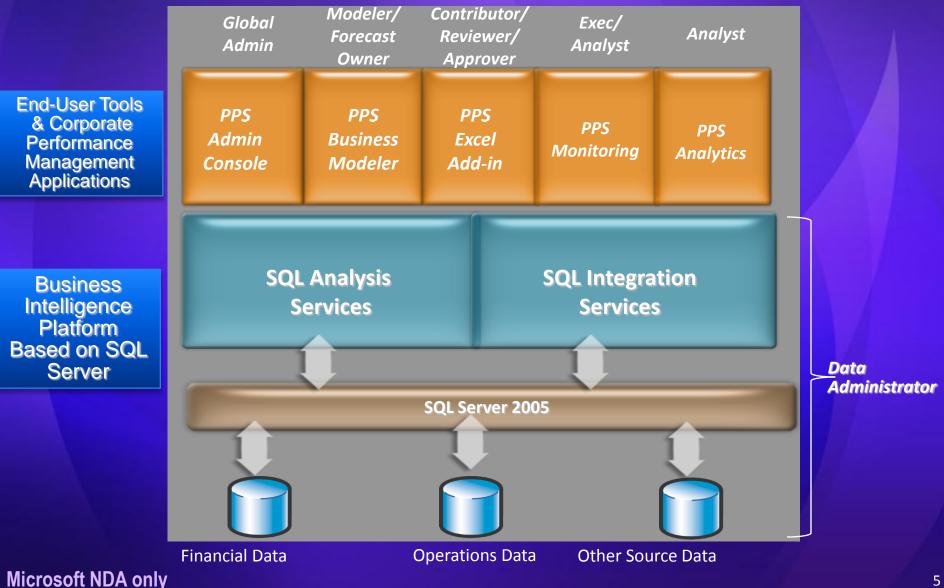
What is PerformancePoint Planning

- Planning, Budgeting & Forecasting
- Reporting (Management and External)
- Modeling (Visualizing your data)

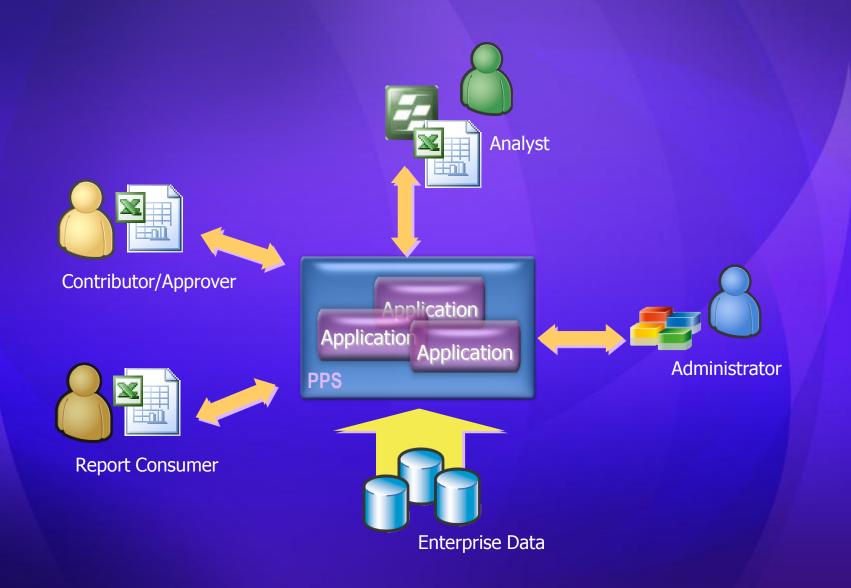
Why Change from the current Planning Process?



PPS: What Is It?



PPS: What Does It Do?



Dimensions & Multi-Dimensionality

Dimensions & Multi-Dimensionality

Dimensions

- Dimensions represent how data is accessed.
- Usually represent a person, place, thing, or concept.
- Answers the who, what, when, or where part of a question.
- Presents the "how" or "by" part of a question.
- Multi-Dimensionality (Models)
 - Combination of dimensions to store and communicate data

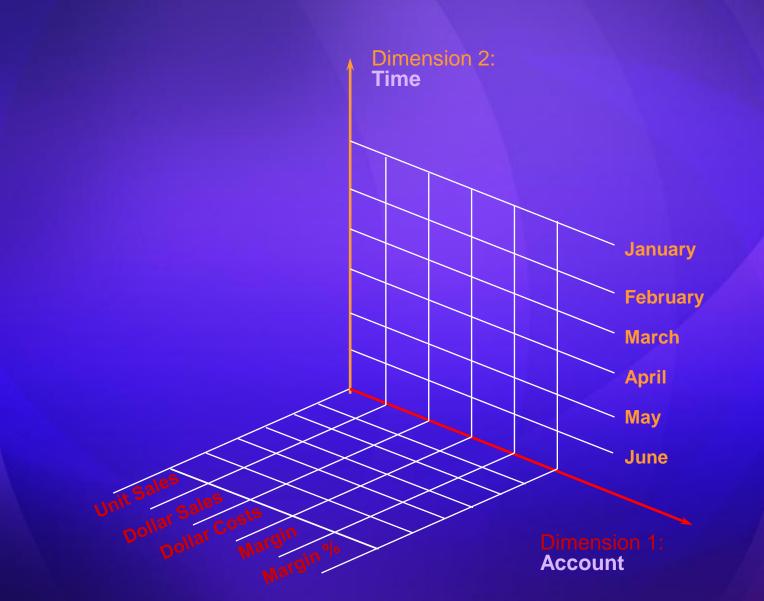
Dimensional Attributes

- Hierarchy A structure within a dimension that represents the organization of data grouped in levels of most general to most specific.
- Member Represents a specific value contained within a Dimension or Hierarchy.
- Level Denotes "how far down" a level is in the hierarchy
- Leaf Denotes lowest level member in a hierarchy
- Non-Leaf A member of the hierarchy which has one or more children

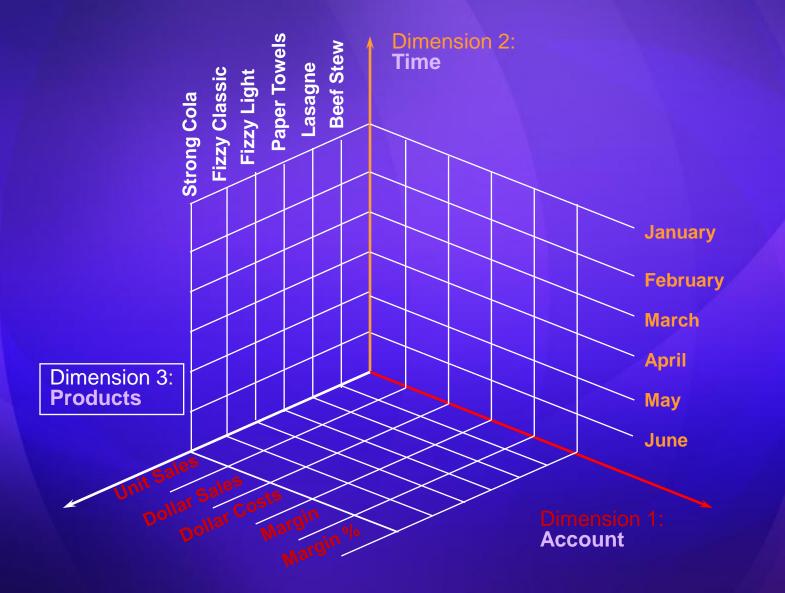
1 Dimension



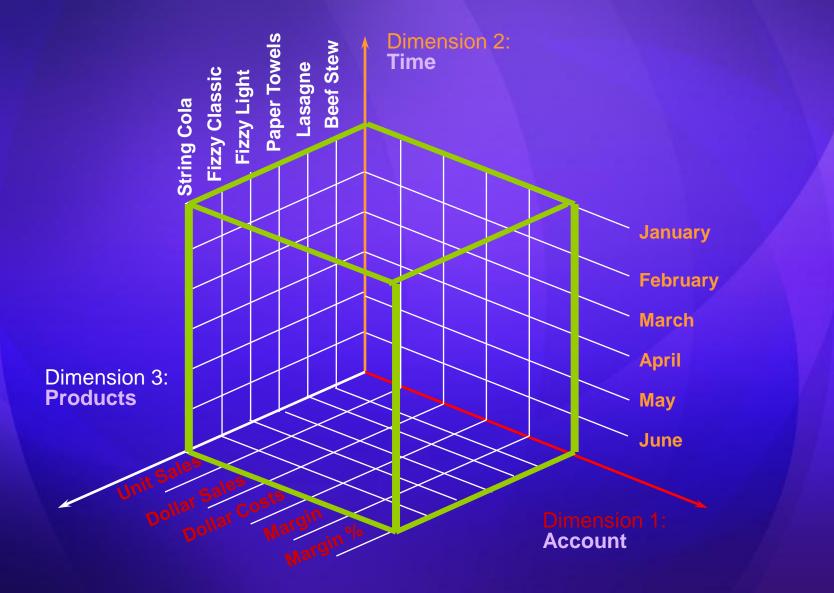
2 Dimensions



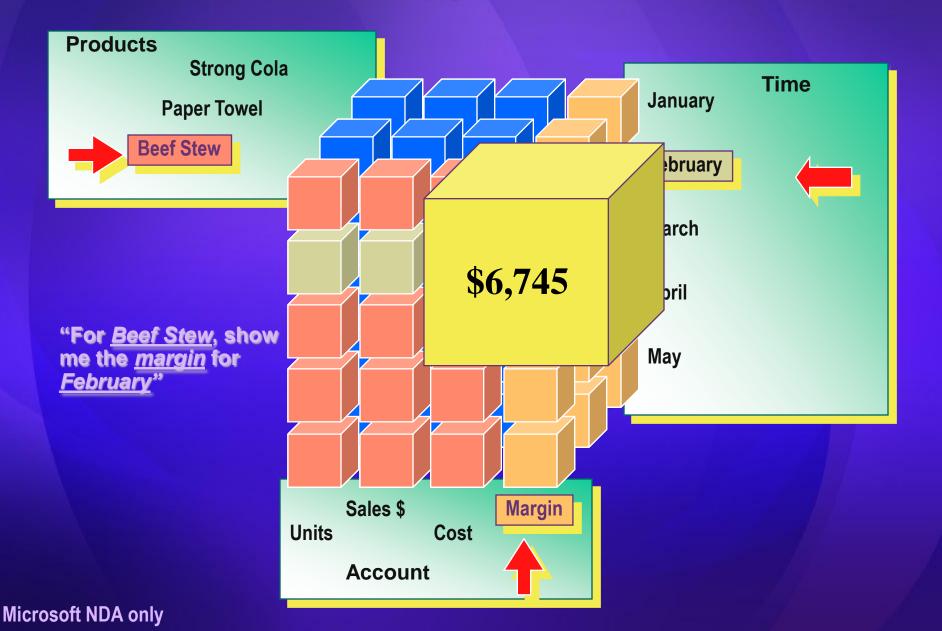
3 Dimensions



Model



OLAP - An Example

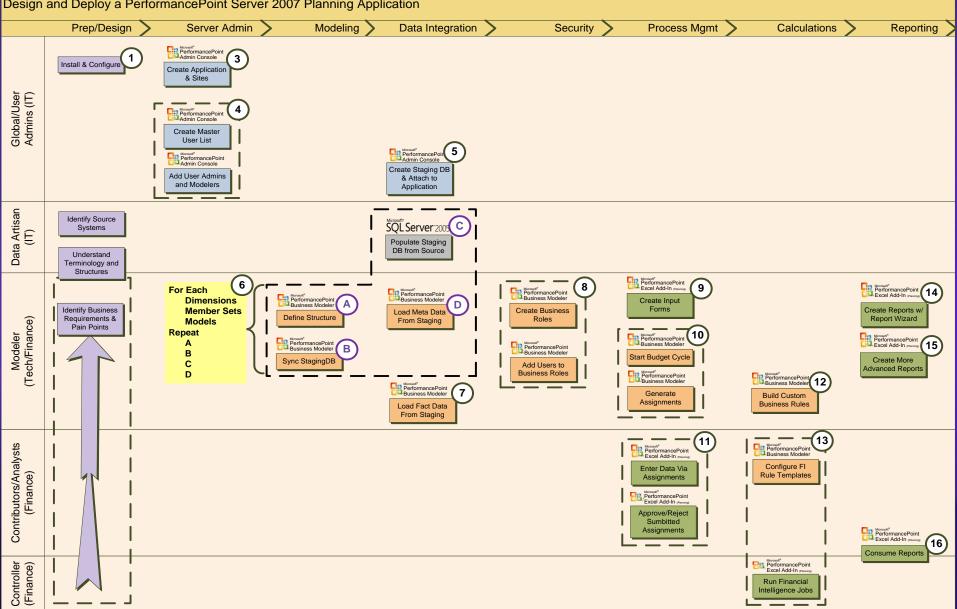


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The PPS Life Cycle, and Introduction to PPS Applications

PPS Design/Deploy Life Cycle

Design and Deploy a PerformancePoint Server 2007 Planning Application



PPS Design/Deploy Life Cycle

- Install PPS Software
- Create Application (AppDB & StagingDB) in Admin Console
- Create Admin Users in Admin Console
- Setup Initial Model structure in Modeler
 - Creation of Dimensions, Hierarchies and Model structures
- Sync to StagingDB to mirror table structure of AppDB
- Load Dimensions, Hierarchies & Model facts to StagingDB using SSIS
- Run Validations to ensure data in StagingDB is valid
- Load Dimensions, Hierarchies & Model facts from StagingDB to App DB
- Create & Deploy Model Site to Create AS cubes for all Models
- Create Rules to perform calculations
- Create Excel Input Templates and Reports
- Define Security for Roles and Business Users
- Define Workflow (Cycles and Assignments)
- Users Input Data and Review output

PPS Business Modeler

📴 Rules_Application (Rules_Applications_1) - PerformancePoint Planning Business Modeler						
File Edit View Go Actions Help						
Workspace Browser «	Rules_Applications_1					
 iii Site Summary Models ↓ Dimensions 	About this mo	del site			Workspace Actions Site Tasks	» *
 Forms and Reports Process Management Security and Roles Associations 	Connection	Server: Application: Model site: Label: Description: Parent model site:	http://ar004-12:46787/ Rules Application Rules Applications 1 Rules Applications 1		 Create an Application Create a Model Subsite Delete Application Delete Model Subsite Save Model Site 	
	Models	Models total: Shared: Checked out by current user:	8 8 2		Deploy Model Site Close Model Site	
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	Forms and Reports	Templates: Operational Reports:	0			
	୍ଦିର ୯ _୦ ଏ Process Management	Cycles: Assignments: Jobs:	0 0 3			
	Security and Roles	Users: Business Roles:	0 0			
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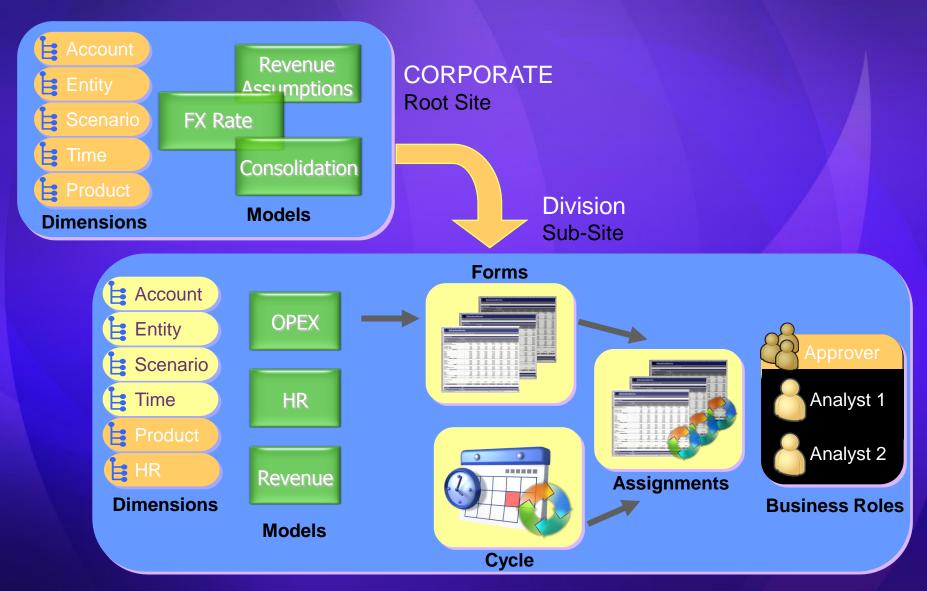
PPS Excel Addin

Completed Model.xlsx @ Rules_Application - Microsoft Excel												
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Planning Administration Console

PerformancePoint System Admini	istration Console - Microsoft Internet Explorer				
File Edit View Favorites Tools Help					
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Address 🕘 http://ar004-12:46788/Default	t.aspx		👻 🛃 Go		
PerformancePoint [™] Planning Admi	Server 2007 CTP 2 nistration Console		Ca.Office		
	Connection		Help?		
Connection	Type the path to the server to which you want	to connect:			
Applications	Location:				
Model Sites	http://ar004-12:46787/	Connect			
Users	Status: Connected to the computer runn	ing PerformancePoint Server.	3		
Global Administrator Role					
User Administrator Role					
Data Administrator Role					
Modeler Role					
Session Settings					
Auditing					
Logging					
Asynchronous Service			v		
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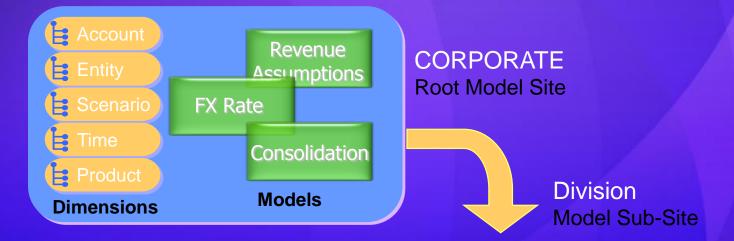
PPS Applications



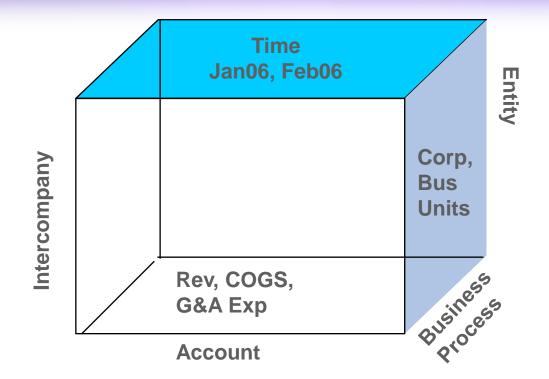
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Model Sites, Models, Model Types, and Model Properties

Model Sites and Sub-Sites



Models



Model Types

- Global Assumption Model
- Exchange Rate Model
- Financial Models
 - With Shares
 - Without Shares
- Generic Models

Name the Model	
Select Data Source and Type	 Create a new model.
Define Dimensions and Member Sets	C Create model by using data source view (DSV) file
Specify Assumptions (Optional)	C Create model by copying from an existing model:
Review and Create	
	Select a type: Generic Model Global Assumption Model Exchange Rate Model Financial model with shares calculations Financial model without shares calculations
	< <u>B</u> ack Ne <u>x</u> t > Einish

Assumptions – Store in Assumptions Models Baseline Data Implemented through Models

a Ex	Expenditure Assumptions					
Su	Summary Model Properties Business Rules					
	General					
	Name	Expenditure Assumptions				
	Label	Expenditure Assumptions				
	Description					
	Model type	Global Assumption Model				
	Shared	True				
	Last processed date					
	Checked out by	PPSPRE-CTP1\Administrator				
	Current period	Year2004				
	Parent model site	ASH_Corporate				

Model Properties

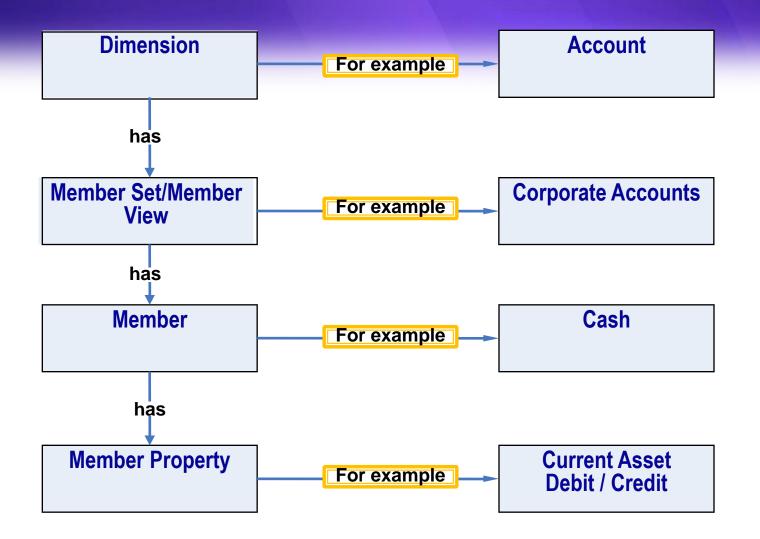
- Model Properties (Variables) linked to the Model
- Can be accessed during calculations (Business Rules)
- Dynamically Updated

Corporate Costs					
Summary Model Properties	Business Rules				
-	_				
😨 😭 🗙	😨 😁 🗙				
Label	Description	Туре	Value		
	-	-	-		
Enable annotations		True/false (boole	True		
🔣 Enable line item details		True/false (boole	True		
🔣 Enable offline cube		True/false (boole	True		
🔣 Dimension Data Has Changed		True/false (boole	False		
🛛 🙀 Dimension Structure Has Cha		True/false (boole	False		
😽 Model Data Has Changed		True/false (boole	False		
😽 Model Structure Has Changed		True/false (boole	False		
🔩 Export location		Text (string)	Default_Outboun		
😨 Enable model export		True/false (boole	True		
🔩 Default currency		Member of dimen	[Currency].[All Me		
📆 FXF	FXF Flow	Member of dimen	[Flow].[All Membe		
📲 FXO	FXO Flow	Member of dimen	[Flow].[All Membe		

Microsoft

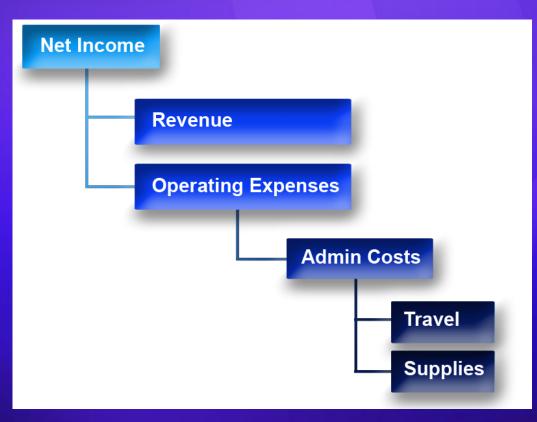
Dimensions, Members, Member Sets, Member Views, Member Properties

Dimensions



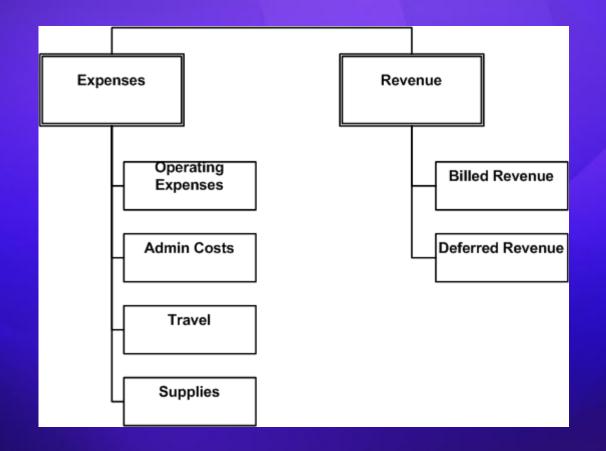
Member Sets (Hierarchies)

A Member set is Defined by a set of Members of a Dimension organized in a hierarchy based on specific grouping needs.



Member View

A Member View is Defined by all Members of a Dimension or Member Set organized in a Hierarchy based on a specific Member Property



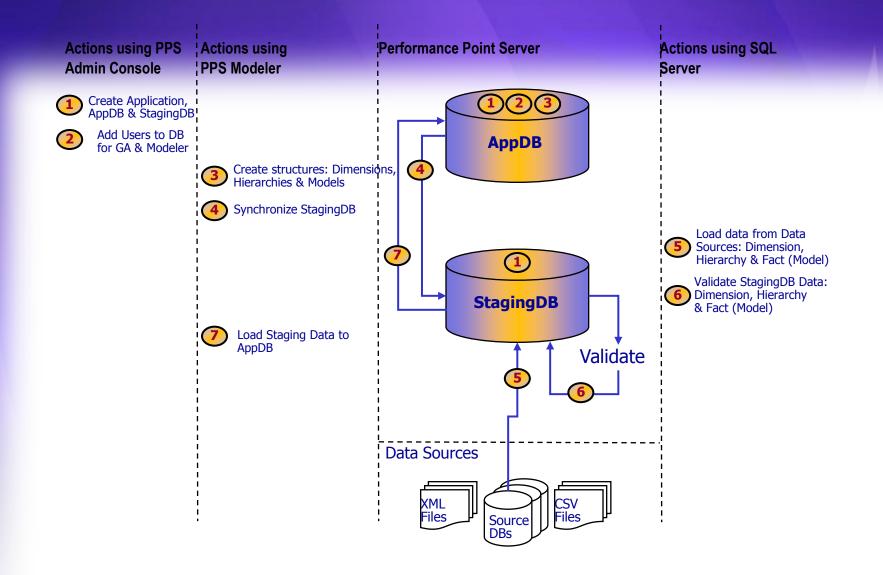
System-Generated Dimensions by Model Type

Model Type	Pre-Defined Dimensions
Generic Model	Scenario, Time
Assumptions Model	Scenario, Time
Exchange Model	Scenario, Time, Source Currency, Exchange Rate, Destination Currency, Entity
Financial Model With Shares Calculation	Scenario, Time, Account, BusinessProcess, Entity, TimeDataView, Flow, Consolidation Method, Owned Entity
Financial Model Without Shares Calculation	Scenario, Time, Account, BusinessProcess, Entity, TimeDataView

Microsoft

Data Integration

Data Integration Flow



Microsoft

Users, Roles, and Security

Security in PPS – Role Based

Role-Based Security in PPS

- Administrative Roles
- Business Roles

Users and Roles: GA, UA, DA, Modeler, and Business Roles

Microsoft[®]



Forms and Reports in PPS Excel Add-In

PerformancePoint Add-in for Excel

	В	С	D	E	F	G	Н	I
1	Subsidiary Score	ecard Goals for F	Y2008: F	rance				
2	Link to Scorecard Metric Definitions				* denotes Sv	stem Generate	ed Child Memb	er
3								
4								
5								
6								
7								
8								
9	Currency	USD 🔻						
10	Account	BMO▼						
			France			Monaco		
11								
12			High	Target	Low	High	Target	Low
13			Value					
14	% of Partners Engaged in	FY2008	4.00	22.00	1.00		2.00	
15	Marketing Campaigns	Q1 FY2008	1.00					
16		Q2 FY2008	1.00	10.00				
17		Q3 FY2008	1.00	10.00				
18		Q4 FY2008	1.00					
19	BIF Investment as a % of	FY2008	4.00	22.00	1.00		2.00	
20	Total Optimizing	Q1 FY2008	1.00					
21	Opportunities Investment	Q2 FY2008	1.00	10.00				
22		Q3 FY2008	1.00	10.00				
23		Q4 FY2008	1.00					

Financial Intelligence

Calculations: Business Rules, and Jobs

Business Rules and Rule Sets

Corporate Costs					
Summary Model Properties Business Rules					
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Name	Label	Description	Туре	Status	
	•	-	-		
a1_CorpCost_Fcst_Personnel	a1_CorpCost_Fcst_P		Procedural	Active .	
CC_Fost_Bonus	CC_Fcst_Bonus		Assignment	Active	
CC_Fcst_Benefits	CC_Fcst_Benefits		Assignment	Active	
CC_Fcst_PRTax	CC_Fcst_PRTax		Assignment	Active	
a2_CC_PctGrowth_Forecast	a2_CC_PctGrowth_F		Procedural	Active	
CC_PctGrowth_Fcst_Level04	CC_PctGrowth_Fcst	Use two rules to group	Assignment	Active	
CC_PctGrowth_Fcst_Level05	CC_PctGrowth_Fcst		Assignment	Active	

Business Rule Types

Rule Type	Usage			
Assignment	Assigns values to cells in the cube and writes the value back to the fact table. An assignment rule performs the operations specified on the right side of the equal sign (=), and stores the result in the location specified on the left side of the equal (=) sign, as per the Scope statement.			
Allocation	Distributes the source value across a specified member set called the target. Allocation rules include single-model allocation, PullCrossModelAllocation, and PushCrossModelAllocation.			
Definition	Calculate values "on the fly" as the values are requested in an Excel Form. These values are not stored in the cube. This rule type is suited to calculate Variances or Variance Percent.			
Variable	Assignment statement to update the value assigned to a model property.			
Currency	Converts currency values from one exchange rate to another			
Intercompany Reconciliations	Balances transactions that occur between different partner entities in a parent company			
Consolidation	Consolidates account data in a multi-company scenario. There are two kinds of consolidation processes: with shares calculation, and without shares calculation. Both kinds include currency conversion and elimination of intercompany transactions. Consolidation with shares calculation also includes calculating percent consolidation and minority ownership.			
Outbound	Delivers data to an external target.			

Rule Implementation

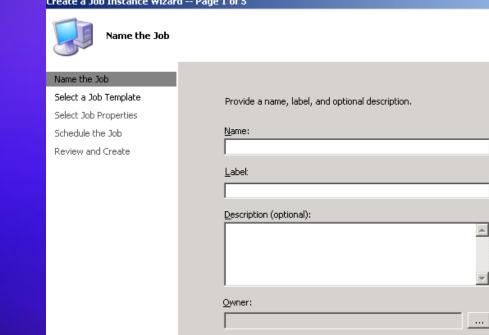
Implementation	Permitted Rule Types	Usage	
MdxQuery	 Assignment Rules Allocation Rules PushCrossModelAllocation PullCrossModelAllocation 	Rules are written in PerformancePoint Expression Language (PEL). The target subsystem generates MDX query language that is executed against both the cube and fact table at rule runtime.	
SQL	Assignment RulesAllocation Rules	Rules are written in PEL. The target subsystem generates SQL code from the rule that is executed against both the cube and fact table at rule runtime.	
Outbound	 Outbound Rules 	•Rules are written using the PEL Scope Editor to define the data to be exported from the cube. Outbound rules are generally run as jobs.	
General	 Variable Rules 	Assignment statement to update the value assigned to a model property.	
NativeMDXQuery (Special)	 Assignment Rules 	Rule is written in native MDX that is executed against the fact table and cube at rule runtime.	
NativeSQL (Special) • Assignment Rules		Rule is written in SQL code, rule is run as a direct pass-through to the SQL database, executing only against the fact table.	

Rule Set Types

Rule Set Type	Permitted Rule Types	Usage		
Procedural	Allocation rules Assignment rules Variable Rules	 Rules that perform allocations Rules that perform user-defined calculations Rules that assign values to model properties 		
Automatic	Assignment rules	Rule executes automatically when the cube reprocesses.		
Definition	Definition rules	Calculations that be calculated every time that the model is deployed, and become part of the model definition. This rule set type does not create Fact records, only values in the Cube.		
Outbound	Outbound rules	Use this rule set type to export data to an external target.		
Currency	Currency rules	Use this rule set type to perform currency conversions from local currency to the Parent's reporting currency.		
Intercompany Reconciliation	Intercompany reconciliation rules	Use this rule set type for eliminating transactions between related entities.		
Consolidation	Consolidation rules	Rule set type for rules that create elimination entries for a financial model with (or without) shares calculation.		

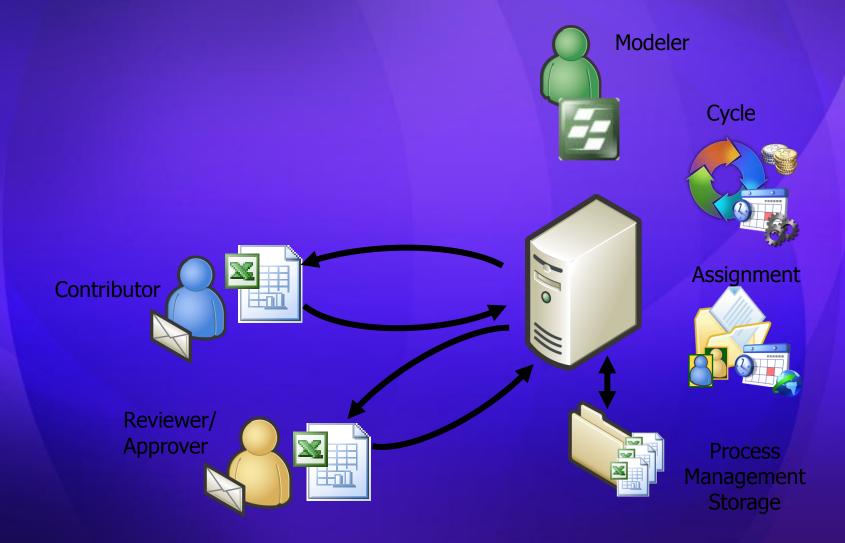
Jobs

A Job is an automated system task, such as loading data, running Rule Sets, or sending Notifications

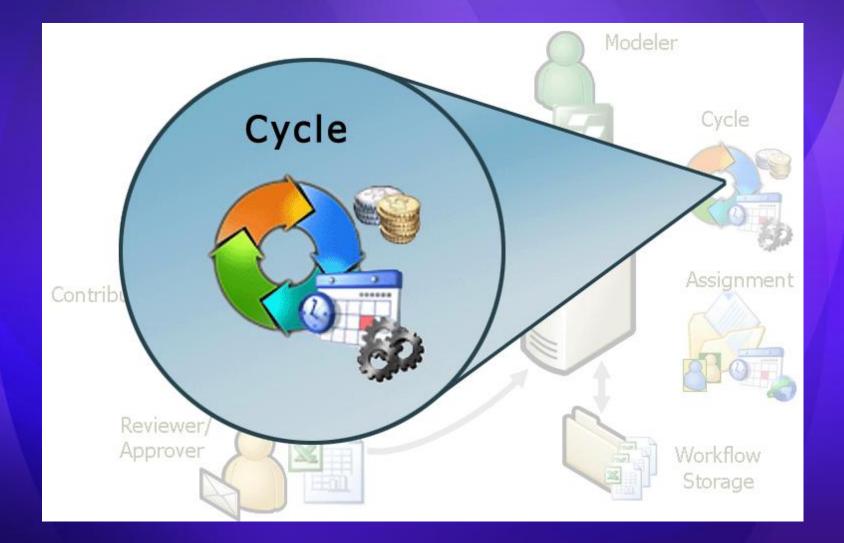


Process Management: Cycles and Assignments

PerformancePoint Process Management



Cycles

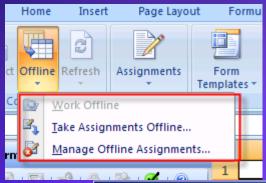


Assignments

- The Assignments action pane is the default action pane of the PerformancePoint Add-in for Excel.
- You can use the action pane to
 - Open Assignments
 - View Assignment details
 - Save
 - Submit
- The Assignments action pane contains a toolbar and two sections.

PerformancePoint	× • • •		
More Assignments		Debt Input-Nov06_1	
Take Assignments Offline Details Name: Status: Deadline:	Name: Status: Deadline:	SP Debt Input-Nov06_1 Started 12/2/2006 2:05:48 AM	
Filter submissions of this form: Actions: Include Workbook More Details	Actions: Save Include		
Assignments			

Offline



Download Assignments

The following is a list of assignments for which you are a contributor. Select the assignments you want to download to your local computer so that you can view them or enter data while offine.

3	8

Application	Assignment	Status	Deadline
Alpine_Ski_House	SP Debt Input-Nov06_1	Started	12/2/2006 2:05:48 AM

Details..

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Questions