Alternatives

ADD, EDIT AND DELETE ALTERNATIVES

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- Add Alternatives from predefined sets of Alternatives
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- Delete Alternatives
- Change Alternatives Color
- Non-categorical Attributes
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In a decision model, where one alternative is selected, alternatives represent possible courses of action. In a PPM (project portfolio management) model, alternatives represent candidate projects for funding and execution.

Alternatives can be viewed, added, edited, deleted, sorted, and exported to the clipboard from **DEFINE MODEL > Review/Refine Model >** <u>Alternatives</u> screen.

Add Alternatives

When the alternatives list is empty, the Add Alternatives and Add from predefined sets of Alternatives buttons are displayed.

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Multiselect 🔂 Add	🔹 🚺 🖬 Delete 🖉 🔲 Du		\$ Sor	Expor	Cost Risk		
				₽ ₽ 	Search		
Index Infor Alter	rnatives						
		Add Alternative	s		×		
		E Add alterna	atives one at a time	e or paste from clip	oboard		
		Search Add alterr	natives from predef	ined sets of altern	atives		
			Cancel				
							Edit description
Shortcuts 📝	Advanced mode is	OFF				© 2007-2020 Expert C	Version: 6.1.000.38334

Clicking Add alternatives one at a time or paste from clipboardwill display a dialog box:

Add Alternatives		
		+ 🛍
Alternative Name	Description	
AS/400 Replacements		î
Cisco Routers		î
Customer Service Call Center		Ê
Desktop Replacements		Î
EMC Symmetrix		Î
Firewall and Antivirus Licenses		

Here you can either:

a) enter one or more elements, along with brief descriptions (a simple form of arinformation document which you can modify later using the Edit description or i buttons).

b) The **Paste from Clipboard** button will paste elements that have been previously placed on the clipboard into the hierarchy. These elements can be placed on the clipboard in a variety of ways:

- 1. By copying from adjacent rows or columns in an Excel spreadsheet
- 2. By copying from adjacent rows or columns in a Word document
- 3. By copying from a tab-delimited text file, where the tab is used to separate the element name from the element description.

If you have existing alternatives, you can position to one of the alternatives and then click Add **Ansert Alternatives Below** to have them appear below the alternative currently selected.

Multise	elect 💽	Add - Delete Duplicate 🗐 Attributes 💠 Sort -					
	Add Alternatives one at a time or paste from clipboard Insert Alternatives below						
Index	Info Ad	d Alternatives from predefined sets of Alternatives					
[08]	0	AS/400 Replacements					
[03]	0	Cisco Routers					
[17]	0	Customer Service Call Center					
[13]	0	Desktop Replacements					
[04]	0	EMC Symmetrix					
[12]	0	Firewall and Antivirus Licenses					

Add Alternatives from predefined sets of Alternatives

Alternatives can also be added from predefined sets of Alternatives. This is determined by the site administrator.

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Alternative Sets	Please sele	📩 Download	Search			
light Security	Alternatives	Description				
Portfolio Optimization	Redesign Transponders	Transponder redesign requires securing the entity to ensure it cannot be turned off	deliberately by terrorists a			
exual Harassment Policy	Remote Flight Controls	Remote flight control of airbourne aircraft is similar to technologies used by NASA t	o send signals to the Spa			
S Cities	Reinforced Cockpit Doors	Requires the reengineering and structural modification of all cockpit doors on exisit	ng and deployed aircraft a			
S States	Evasive Pilot Action	Evasive pilot action includes those airbourne maneuvers used to throw hi-jackers and terrorists off guard and				
Solales	Pressurization Loss	Intentional cabin pressurization loss includes intended blackout of passengers and	terrorists while oxygen rer			
	Solid Cockpit Bulkhead	Solid cockpit bulkhead requires the complete reengineering of the access to the cockpit from the outside of the				
	Air Marshals	Incorporates the deployment and use of trained and armed Federal air marshals or	selected domestic flights			
	Train Flight Crew	Includes the development and deployment of a comprehensive training program for	all airline personnel and			
	Train Security Checkpoint Perso	Includes the qualification training and retraining certification of airport security person	onnel at all domestic airpo			
	Arming Pilots/Crew	Includes the complete training and arming of flight crews (namely the pilot and co-p	ilot, and navigator, as ava			
	Stun Guns	Implement the use of stun guns through formal training applications at each airline	and to train all affected ca			
	Screen 100% checked luggage	Includes provisions to screen all checked luggage and other baggage 100% by mo	st sophisticated screening			
	No Carry-on Luggage	Reduce or prohibit the practice of allowing carry-on luggage from entering the aircra	aft main deck and cabin. F			

Simply select from the alternative sets at the left and then check the alternatives that you want to add to the model.

Alternatively, you can also create new models fromModel Templates which has predefined objectives and alternatives.

Add Alternatives from Datagrid

In addition to adding Alternatives from the Alternatives page, you can upload a .xlsx file with the list of Alternatives to the Datagrid (Collect Input > DataGrid)

See the video below to demonstrate the two ways of adding the alternatives:

Your browser does not support HTML5 video.

Delete Alternatives

Alternatives can be deleted one at a time, or, by checking the events to deleteseveral at one time.

HINT: It is advisable to **save a copy of the model** before deleting many elements, in case you want to save a copy of your model before the deletion. However, if saving a copy of the model is not desired and you want to undo some changes, you can use the **Model Snapshots** feature to revert the model to what it was before the changes.

Change Alternatives Color

You can change the Alternatives Color from the DEFINE MODEL >Alternatives page:

- 1. Click the column chooser
- 2. Select "Colors" to show the Colors column
- 3. Type in the HEX color code on the cell or use the color picker for each alternative

Θ	MAN	AGE MOD	ELS D	EFINE MODEL COLLECT INPUT	SYNTHESIZE	ALLOCATE	DASHBOARDS	REPORTS		🖹 O C 🕄
₽ A	dd -	i Delete		Duplicate Attributes 🖨 S	ort •	C	1 Q Search.			AS/400 Replacements
		Index	Infor	Alternatives	ΞT		Color			· ·
:		01	0	AS/400 Replacements			#FFCC0	0	*	
		02	0	Cisco Routers	3		N			Column Chooser ×
:		03	0	Customer Service Call Center	-					
:		04	0	Desktop Replacements						Index
		05	0	EMC Symmetrix				R: 255	~	
:		06	0	Firewall and Antivirus Licenses				G: 204		
:		07	0	Iron Mountain Backup Service				B: 0		Disabled?
:		08	0	Laptop Replacements				#: ffcc00		
		09	8	Mobile Workforce Pocket PCs				#: ffcc00		Cost
		10	0	Oracle 9i Upgrade			ок	Cancel		P.Failure
:		11	0	PeopleSoft Upgrade			#000000	00.000		
		12	0	Plumtree Corporate Portal			#339966			

SORT (RE-ORDER) ALTERNATIVES

Alternatives can be sorted:

- 1. Permanently where the order will be saved and applied throughout the application; OR
- 2. Temporarily where the sorting is only on the Alternatives screen and can be reset.

Sorting, which can be saved in the model, is done by dragging and dropping an element to the desired position in the list; or by using the **Sort** button where you can sort the elements in the list by name or priority, ascending or descending, as shown below:

Multis	elect	 ↔ Add •
Index	Infor	Alternatives
[01]	0	AS/400 Replacements
[02]	0	Cisco Routers
[03]	0	Customer Service Call Center
[04]	0	Desktop Replacements
[05]	0	EMC Symmetrix
[06]	0	Firewall and Antivirus Licenses
[07]	0	Iron Mountain Backup Service
[08]	0	Laptop Replacements
[09]		Mobile Workforce Pocket PCs
[10]	1	Oracle 9i Upgrade

Sorting done by clicking the column name on the Alternatives Grid is only temporary and can be reset using the 2 reset button:

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				2	Q Search
	Index	Infor	Alternatives	Cost	Time Frame 🕫 🖤
8	01	0	AS/400 Replacements	990	Long
8	02	0	Cisco Routers	500	Short
8	03	•	Customer Service Call Center	980	Medium
8	04	0	Desktop Replacements	800	Long
8	05	6	EMC Symmetrix	4220	Short
8	06	0	Firewall and Antivirus Licenses	120	Long
8	07	0	Iron Mountain Backup Service	430	Medium
8	08	0	Laptop Replacements	1340	Long
÷	09	0	Mobile Workforce Pocket PCs	230	Medium
8	10	0	Oracle 9i Upgrade	1890	Long
8	11	0	PeopleSoft Upgrade	1670	Medium
8	12	0	Plumtree Corporate Portal	1345	Long
8	13	8	ProServe System Upgrade	2300	Short
8	14	0	Sales Force Laptops	150	Medium
8.	15	0	SRDF Site/Service	3440	Long
			Thin Client Implementation	2100	

Note: Sorting by drag-and-drop is not available when the grid is sorted by column.

CATEGORICAL AND NON-CATEGORICAL ALTERNATIVE ATTRIBUTES

Alternatives Attributes can be managed in the DEFINE MODEL > Review / Refine Model, Alternatives page.

Alternative attributes allow you to specify text, numeric, Boolean, or categorical attributes for Alternatives.

Attributes for alternatives can be specified and used for various purposes, such as filtering the alternatives in the Synthesize results and constraining the solution or managing balance and coverage inportfolio optimization.

Click

E Attributes to manage alternative attributes.

Non-categorical Attributes

You can add non-categorical attributes of type String, Boolean, or Floating point.

Clicking the Attributes button will open the Manage Attributes dialog box as shown below, which lists the alternative attributes in the model.

Here we will enter the Attribute Name, then select the attribute type and (optional) default value. Non-categorical attributes can be String, Floating Point, Integer, and Boolean.

M	anage Attributes									
	Attributes:									
	Attribute Name	Туре		Categories / Default value	Action					
		Categorical	~		Ð					
					Close					

From the example below, we will add an attribute named "FTE_Hours" as a Floating point with a default value 20.

Manage Attributes			Ť				
Attributes:							
Attribute Name	Туре	Categories / Default value	Action				
FTE_Hours	Floating point 🗸	Default value: 20	•				

Press the Enter key or click **1** to save. The added attribute is displayed as a row in the Manage Attributes grid shown below. A new row will also be displayed where you can add another attribute.

Manage Attributes					
		Attributes:			
Attribute Name		Туре	Categories / Defaul	t value	Action
FTE Hours	ø	Floating point	20	ø	Ī
		Categorical 🗸	•		•
					Close

You can edit the added (or existing) non-categorical attribute and its default value by clicking the pencil icon to the right of the element you want to modify.

Manage Attributes				
		Attributes:		
Attribute Name		Туре	Categories / Default value	Action
FTE Hours 🖕 🕳 🚍 🚍 🚍	ø	Floating point	20 🔶 🗕 🖉 🥒	Ē

You can delete an attribute by clicking the delete button.

The added attribute is also displayed as a new column in the Alternatives grid. You can change the attribute value for each alternative by clicking on a cell for a given alternative and typing in the desired value.

Index	Information	Alternatives	FTE_Hours
#01	0	01. Cloud Migration (Vendor selected in separate model)	20
#02	0	02. Cisco Routers	20
#03	0	03. Desktop Replacements	20
#04	0	04. EMC VMAX Enterprise Storage	20

Categorical Attributes

You can add categorical attributes by clicking the same Attributes button, which will open the manage attributes dialog box.

Enter the attribute name (Time Frame) and select "Categorical."

Manage Attributes					
		Attributes:			
Attribute Name		Туре	Categories / Default value Actio		Action
FTE Hours	ø	Floating point	20	ø	Ē
Time Frame		Categorical 🗸			•

Pressing Enter or clicking the **1** button will save the attribute and will open another dialog box where you can add the categories (e.g. Long, Medium, Short).

Manage Attributes					_	
	Edit Categories					
A	С	ategory	Is Default	Action	alue	Action
FTE		Long		e 🖉	6	× 💼
Time	Ν	/ledium	✓	e 🖉	6	۵ 🕈
		Short		e 🖉 🖉		
				Close		Close
						0.030

Check the "Is default" check box to specify a default category code for that category.

The added attribute is displayed as a row in the Manage Attributes dialog box as shown below. You can edit the attribute name and the categories by clicking the pencil icon to the right of the attribute name and the categories.

Manage Attributes					
		Attributes:			
Attribute Name		Туре	Categories / Default valu	e	Action
FTE Hours	A	Floating point	20	A 1	Î
Time Frame	A	Categorical	Long, Medium, Short	ø	Î
		Categorical 🗸			Ð

The added category is also displayed as a new column in the Alternatives grid. To assign a category to alternatives, select from the drop-down menu:

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Index	Information	Alternatives	FTE_Hours	Time Frame 🕒 🖡
#01	0	01. Cloud Migration (Vendor selected i	20	Medium
#02	0	02. Cisco Routers	20	Long
#03	0	03. Desktop Replacements	20	Medium Short
#04	0	04. EMC VMAX Enterprise Storage	20	Medium
#05	0	05. Firewall and Antivirus Licenses	20	Medium

You can also add a new category and assign it to an alternative by typing the category name in the combo box and then pressing the enter key.

A confirmation prompt will appear, as shown below. Click Yes.

Confirmation			
Do you want to add a n	ew category "Not D	efined" and asso	ociate it with this alternative
	Yes	No	

You can use alternative attributes to filter the Alternatives Grid, Alternatives Chart, Dynamic, Performance Analysis, Gradient, 2D and Head-to-head sensitivities.

DISABLE ALTERNATIVES

Disabled Alternatives are hidden from the evaluation and results screens. Any existing judgments before disabling an alternative will be excluded from the computation of results.

The Project Manager can disable alternatives from the DEFINE MODEL > Review/Refine Model > Alternatives page:

) G	MAN	IAGE MOI		DEFINE MODEL COLLECT INPUT	SYNTHESIZE	ALLOCATE	DASHBOARDS	REPORTS
.	Add 🚽	📋 Dele	te 📕	Duplicate Attributes 🖨 S	Sort 🝷			
						2	Sear	rch
		Index	Infor	Alternatives			≡	Disabled?
		01		AS/400 Replacements				✓
Ξ		02	0	Cisco Routers				
8		03	0	Customer Service Call Center				
8		04	6	Desktop Replacements				
8		05	•	EMC Symmetrix				
8		06	•	Firewall and Antivirus Licenses				
в		07	0	Iron Mountain Backup Service				
н		08	0	Laptop Replacements				
в		09	•	Mobile Workforce Pocket PCs				
8		10	•	Oracle 9i Upgrade				
8		11	•	PeopleSoft Upgrade				
8		12	0	Plumtree Corporate Portal				
8		13	0	ProServe System Upgrade				

On the "Disabled?" column, check the corresponding checkbox(es) for the alternative(s) you want to disable.

