

Alternatives

ADD, EDIT AND DELETE ALTERNATIVES

In this page:

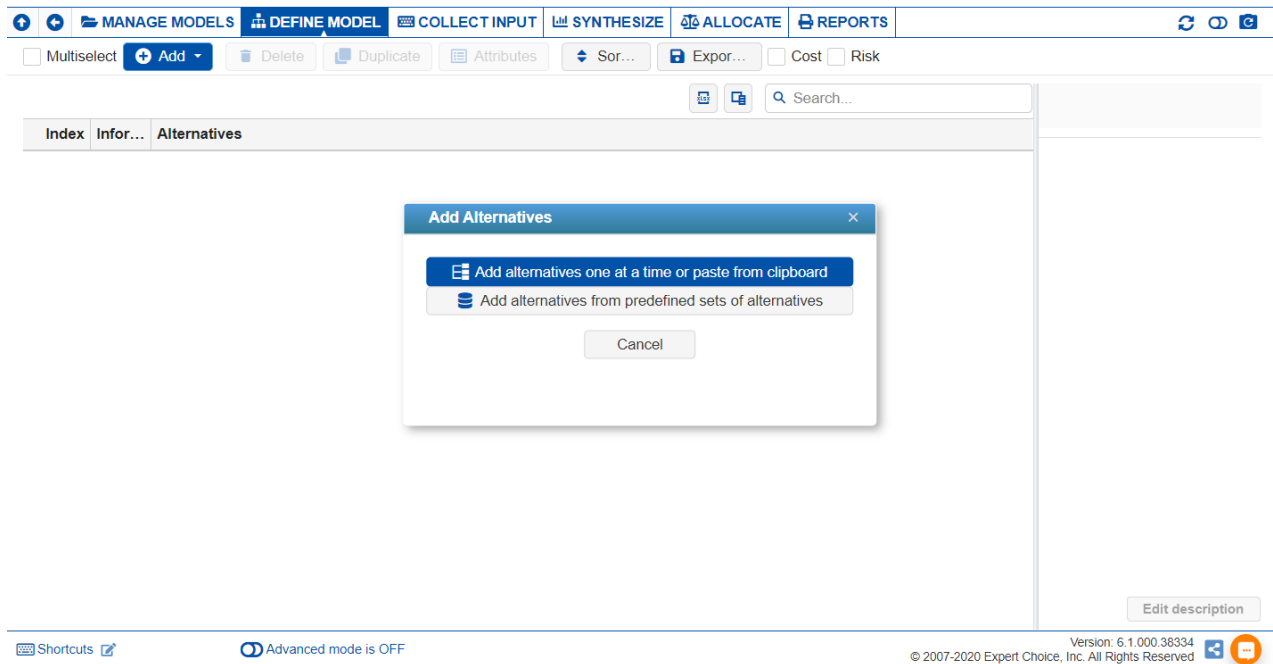
- Add Alternatives
- Add Alternatives from predefined sets of Alternatives
- Add Alternatives from Datagrid
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- Non-categorical Attributes
- Categorical Attributes

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.

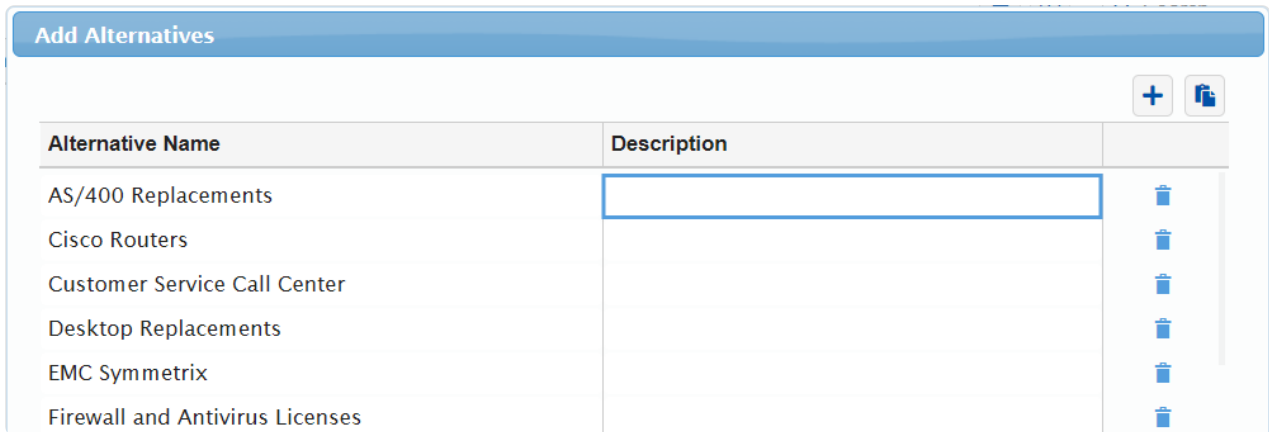
Alternatives can be viewed, added, edited, deleted, sorted, and exported to the clipboard from **DEFINE MODEL > Review/Refine Model > Alternatives** screen.

Add Alternatives

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




Clicking **Add alternatives one at a time or paste from clipboard** will display a dialog box:



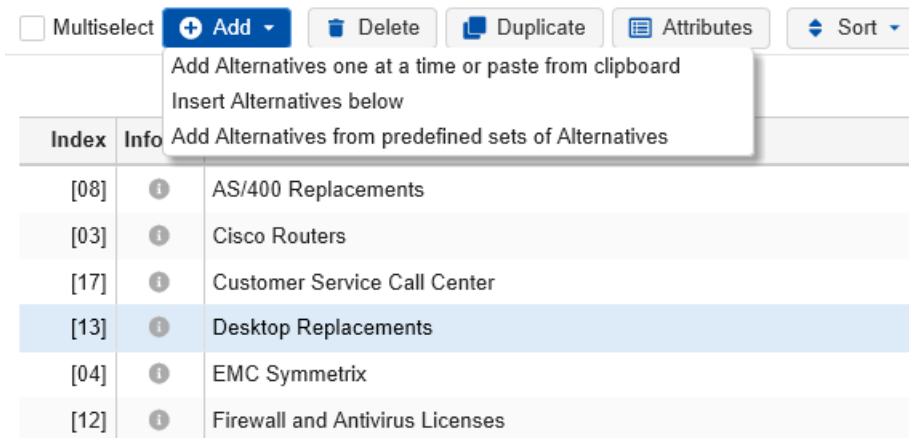
Here you can either:

a) enter one or more elements, along with brief descriptions (a simple form of an information 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:

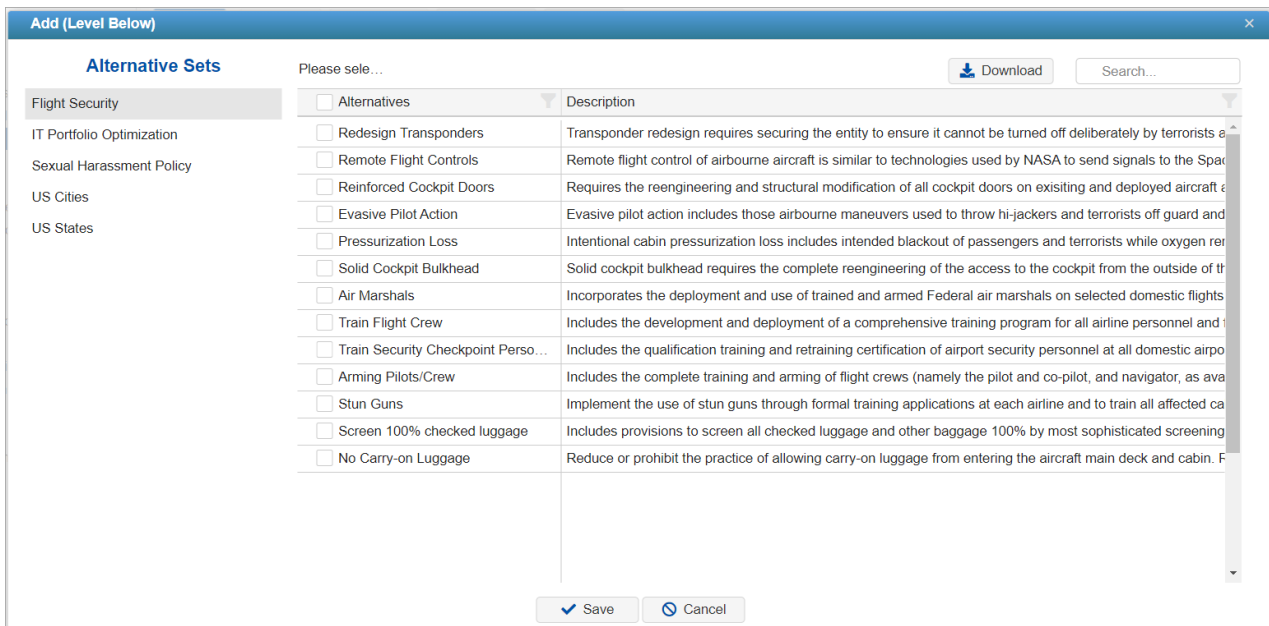
1. By copying from adjacent rows or columns in an Excel spreadsheet
2. By copying from adjacent rows or columns in a Word document
3. By copying from a tab-delimited text file, where the tab is used to separate the element name from the element description.

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



Add Alternatives from predefined sets of Alternatives

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



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 from [Model 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

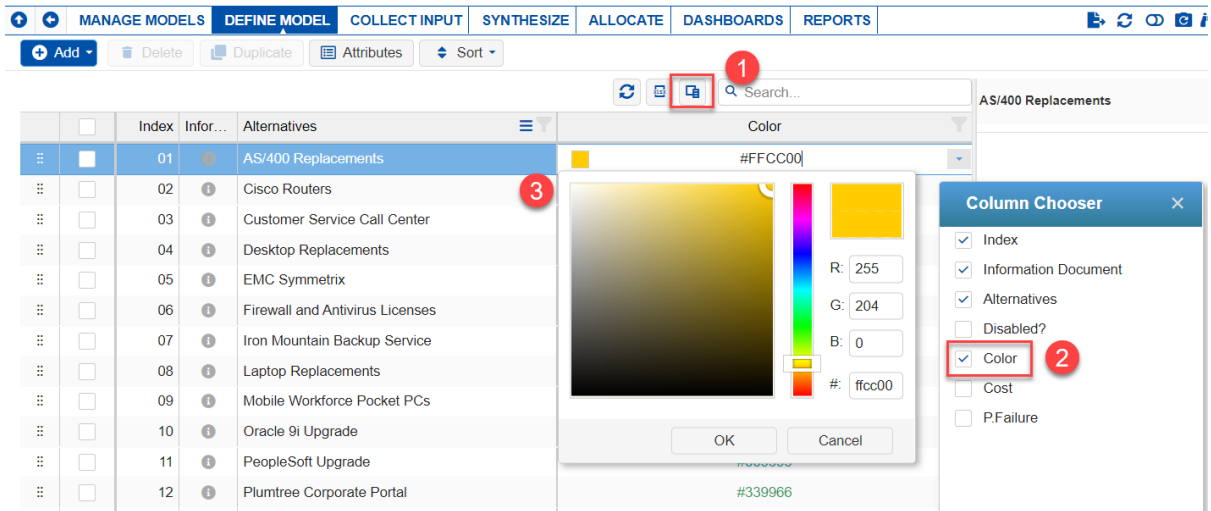
Alternatives can be **deleted** one at a time, or, by checking the events to delete, **several at one time**.

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

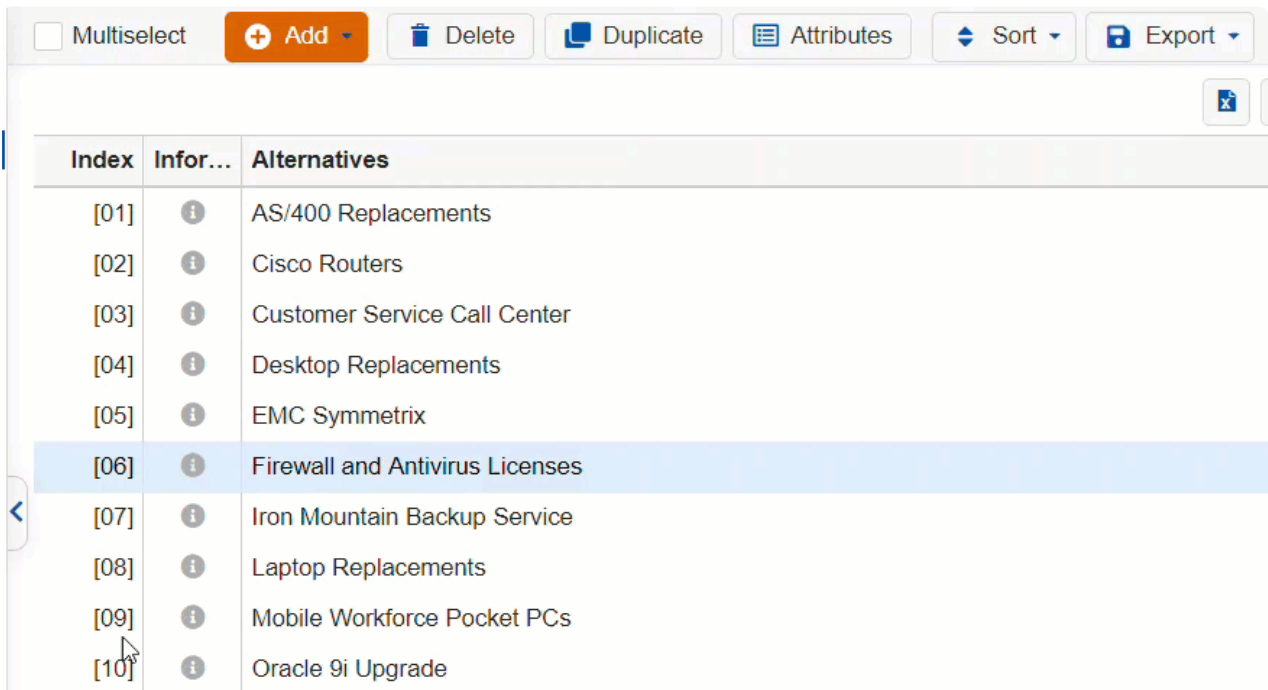


SORT (RE-ORDER) ALTERNATIVES

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:



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

	<input type="checkbox"/>	Index	Info...	Alternatives	Cost	Time Frame
::	<input type="checkbox"/>	01	i	AS/400 Replacements	990	Long
::	<input type="checkbox"/>	02	i	Cisco Routers	500	Short
::	<input type="checkbox"/>	03	i	Customer Service Call Center	980	Medium
::	<input type="checkbox"/>	04	i	Desktop Replacements	800	Long
::	<input type="checkbox"/>	05	i	EMC Symmetrix	4220	Short
::	<input type="checkbox"/>	06	i	Firewall and Antivirus Licenses	120	Long
::	<input type="checkbox"/>	07	i	Iron Mountain Backup Service	430	Medium
::	<input type="checkbox"/>	08	i	Laptop Replacements	1340	Long
::	<input type="checkbox"/>	09	i	Mobile Workforce Pocket PCs	230	Medium
::	<input type="checkbox"/>	10	i	Oracle 9i Upgrade	1890	Long
::	<input type="checkbox"/>	11	i	PeopleSoft Upgrade	1670	Medium
::	<input type="checkbox"/>	12	i	Plumtree Corporate Portal	1345	Long
::	<input type="checkbox"/>	13	i	ProServe System Upgrade	2300	Short
::	<input type="checkbox"/>	14	i	Sales Force Laptops	150	Medium
::	<input type="checkbox"/>	15	i	SRDF Site/Service	3440	Long
::	<input checked="" type="checkbox"/>	16	i	Thin Client Implementation	2100	Short

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 in portfolio optimization**.

Click  **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.

Manage Attributes

Attributes:

Attribute Name	Type	Categories / Default value	Action
<input style="width: 90%;" type="text"/>	Categorical ▼		+

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

Manage Attributes

Attributes:

Attribute Name	Type	Categories / Default value	Action
FTE_Hours	Floating point ▼	Default value: <input style="width: 60%;" type="text" value="20"/>	+

Press the Enter key or click 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	Type	Categories / Default value	Action
FTE Hours		Floating point 20	
<input style="width: 90%;" type="text"/>	Categorical ▼		+

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	Type	Categories / Default value	Action
FTE Hours	Floating point	20	

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		01. Cloud Migration (Vendor selected in separate model)	20
#02		02. Cisco Routers	20
#03		03. Desktop Replacements	20
#04		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	Type	Categories / Default value	Action
FTE Hours	Floating point	20	
Time Frame	Categorical		

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

Manage Attributes

Attributes:

Attribute Name	Type	Categories / Default value	Action
FTE Hours	Floating point	20	
Time Frame	Categorical	Long, Medium , Short	

Edit Categories

Category	Is Default	Action
Long	<input type="checkbox"/>	
Medium	<input checked="" type="checkbox"/>	
Short	<input type="checkbox"/>	
<input style="width: 100%;" type="text"/>		

Close

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:

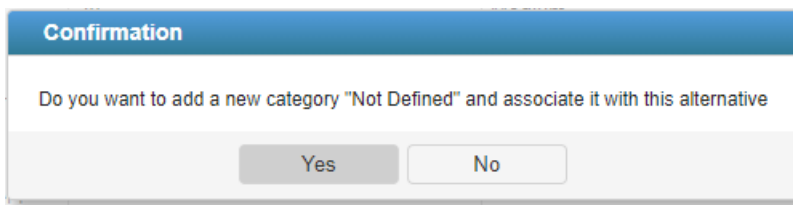
Attribute Name	Type	Categories / Default value	Action
FTE Hours	Floating point	20	
Time Frame	Categorical	Long, Medium , Short	
<input style="width: 100%;" type="text"/>	Categorical		

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:

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



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:

MANAGE MODELS							DEFINE MODEL	COLLECT INPUT	SYNTHESIZE	ALLOCATE	DASHBOARDS	REPORTS
<input type="checkbox"/>	Index	Infor...	Alternatives				Disabled?					
<input checked="" type="checkbox"/>	01		AS/400 Replacements				<input checked="" type="checkbox"/>					
<input type="checkbox"/>	02		Cisco Routers				<input type="checkbox"/>					
<input type="checkbox"/>	03		Customer Service Call Center				<input type="checkbox"/>					
<input type="checkbox"/>	04		Desktop Replacements				<input type="checkbox"/>					
<input type="checkbox"/>	05		EMC Symmetrix				<input type="checkbox"/>					
<input type="checkbox"/>	06		Firewall and Antivirus Licenses				<input type="checkbox"/>					
<input type="checkbox"/>	07		Iron Mountain Backup Service				<input type="checkbox"/>					
<input type="checkbox"/>	08		Laptop Replacements				<input type="checkbox"/>					
<input type="checkbox"/>	09		Mobile Workforce Pocket PCs				<input type="checkbox"/>					
<input type="checkbox"/>	10		Oracle 9i Upgrade				<input type="checkbox"/>					
<input type="checkbox"/>	11		PeopleSoft Upgrade				<input type="checkbox"/>					
<input type="checkbox"/>	12		Plumtree Corporate Portal				<input type="checkbox"/>					
<input type="checkbox"/>	13		ProServe System Upgrade				<input type="checkbox"/>					

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

Note: If you cannot see the "Disabled?" column, use the column chooser  to show the column.

Note: No judgments will be deleted when an alternative is disabled.
