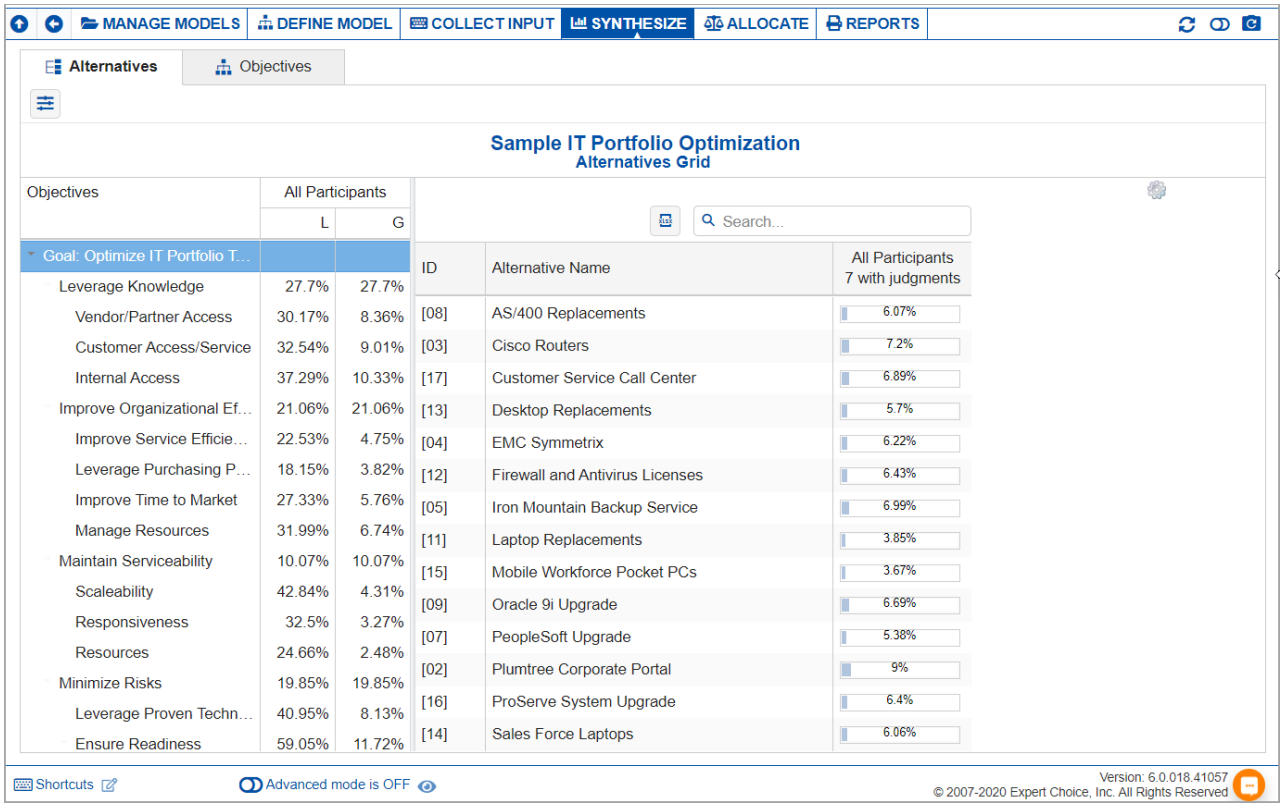
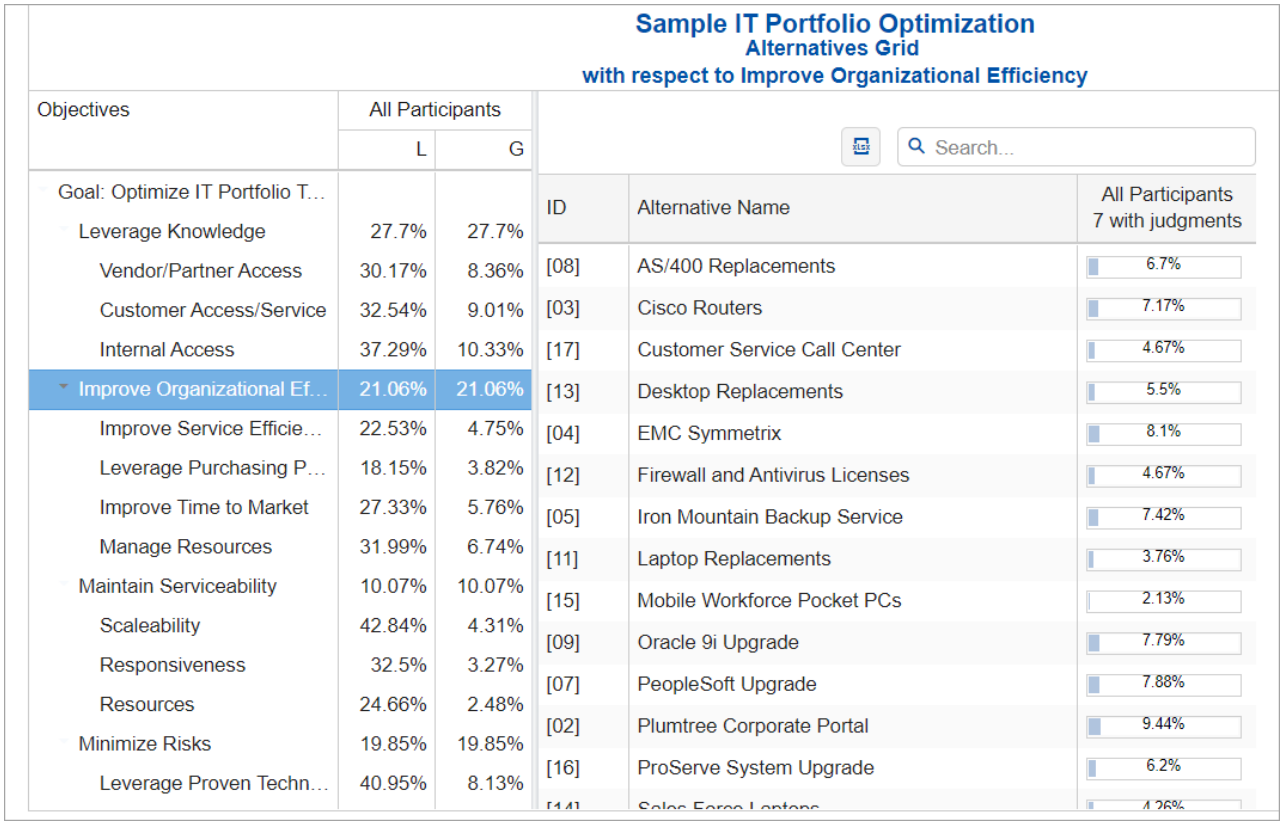
Alternatives Grid

Overview

The **Alternatives Grid** page shows the alternative priorities with respect to the decision goal for All Participants. These priorities are based on the normalized right eigenvector of the geometric average of the judgments for all participants who have roles for measures derived with pairwise comparisons, and for the arithmetic averages of priorities derived from ratings, utility curves, step functions, or direct input. This aggregation is known as **Aggregating Individual Judgments,** or **AIJ,** and is the default aggregation method.



By selecting an element in the hierarchy other than the goal, you can see the results with respect to (WRT) this element rather than the overall results with respect to the goal.



Sample IT Portfolio Optimization
Alternatives Grid
with respect to Improve Organizational Efficiency

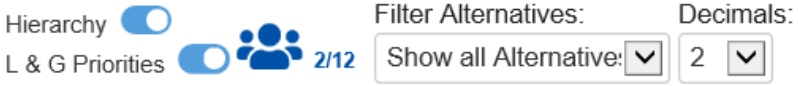
Objectives	All Participants L	All Participants G
Goal: Optimize IT Portfolio T…		
Leverage Knowledge	27.7%	27.7%
Vendor/Partner Access	30.17%	8.36%
Customer Access/Service	32.54%	9.01%
Internal Access	37.29%	10.33%
Improve Organizational Ef…	21.06%	21.06%
Improve Service Efficie…	22.53%	4.75%
Leverage Purchasing P…	18.15%	3.82%
Improve Time to Market	27.33%	5.76%
Manage Resources	31.99%	6.74%
Maintain Serviceability	10.07%	10.07%
Scaleability	42.84%	4.31%
Responsiveness	32.5%	3.27%
Resources	24.66%	2.48%
Minimize Risks	19.85%	19.85%
Leverage Proven Techn…	40.95%	8.13%

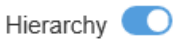
Search...

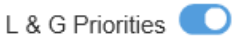
ID	Alternative Name	All Participants 7 with judgments
[08]	AS/400 Replacements	6.7%
[03]	Cisco Routers	7.17%
[17]	Customer Service Call Center	4.67%
[13]	Desktop Replacements	5.5%
[04]	EMC Symmetrix	8.1%
[12]	Firewall and Antivirus Licenses	4.67%
[05]	Iron Mountain Backup Service	7.42%
[11]	Laptop Replacements	3.76%
[15]	Mobile Workforce Pocket PCs	2.13%
[09]	Oracle 9i Upgrade	7.79%
[07]	PeopleSoft Upgrade	7.88%
[02]	Plumtree Corporate Portal	9.44%
[16]	ProServe System Upgrade	6.2%
[14]	Sales Force Laptops	4.26%

The grid above shows all the alternatives priorities with respect to the selected node Improve Organization Efficiency.

Click  to show the toolbar options *(showing and hiding the toolbar is being remembered)*.



Toggle  to show/hide the objectives hierarchy/tree at the left.

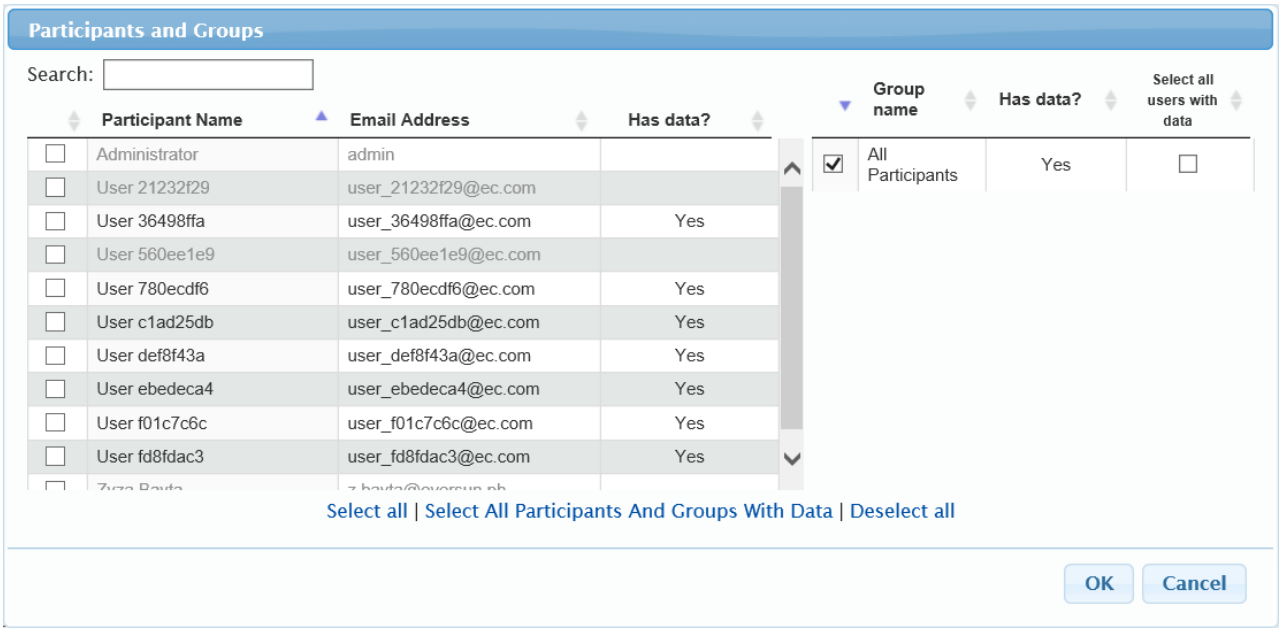
Toggle  to show/hide the Local and Global objectives priorities on the objectives hierarchy/tree.

Select Participants and Groups

You can choose to display results for individual participants or another group by clicking  .

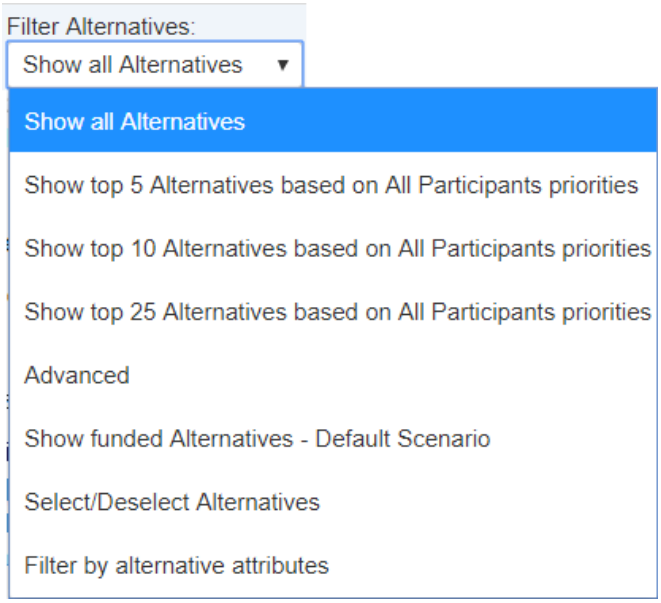
The fraction in the image above designates the selected/total number of participants and groups.

Clicking the button opens a window listing the participants and groups in the model. You can select more than one user or group. Simply check the participants and groups you want to see results.

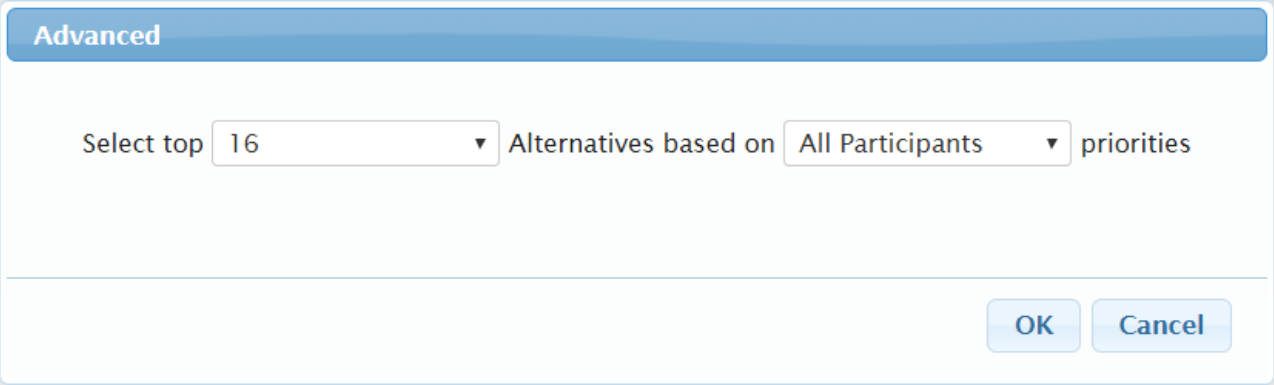


Filter Alternatives

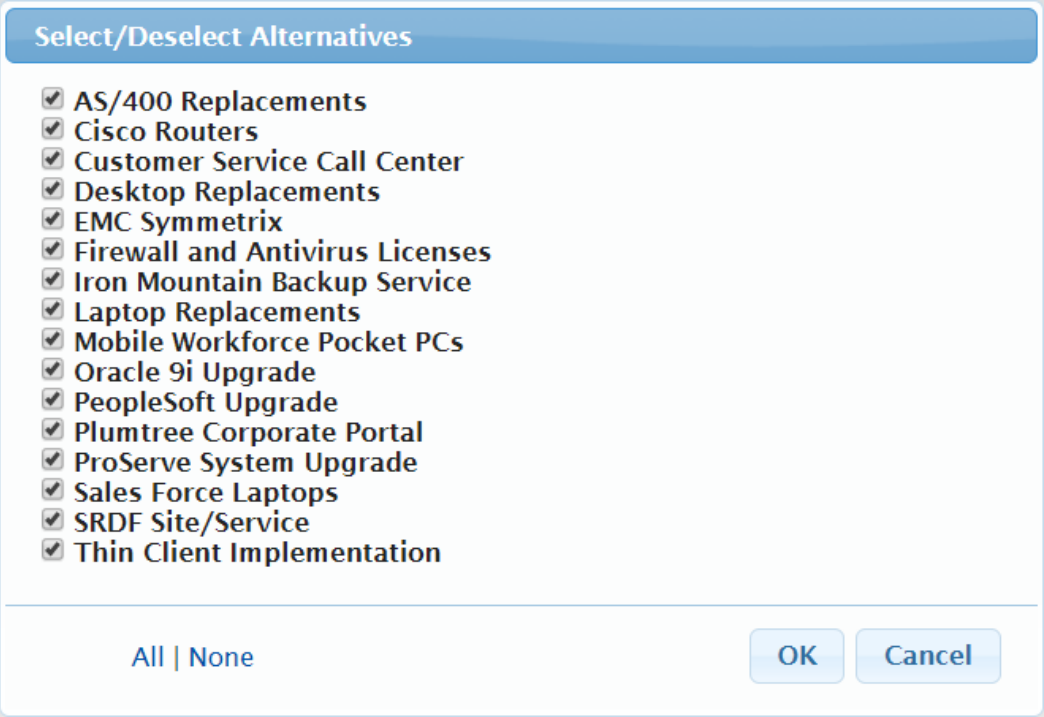
By default, all alternatives are displayed.



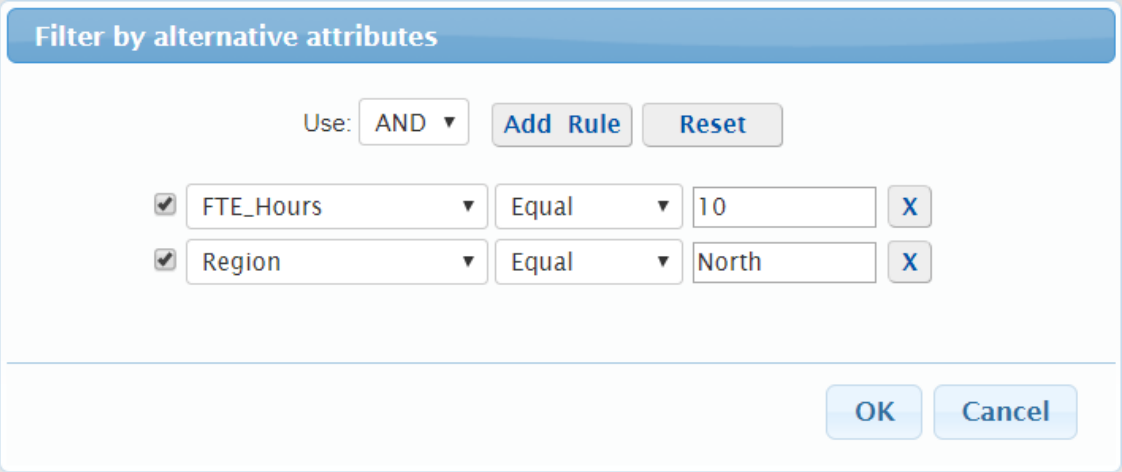
- Show top N Alternatives. Select to display the top 5, 10, or 25 alternatives based on the "All Participants" group priorities.
- Advanced. Allows you to specify the top N based on the selected participant or group.



- Show funded alternatives from the active Resource Aligner scenario.
- Select/Deselect Alternatives.



- Filter by Alternative Attributes specified on the Alternatives page.



Change Alternatives Color

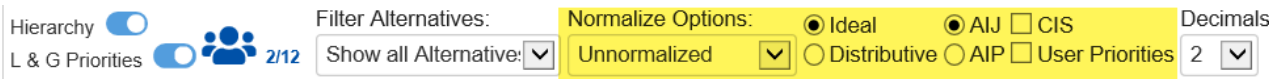
You can change the Alternatives color from the Alternatives Grid and Dynamic Analysis page; and the Objectives color from the Objectives Grid page.

From Grid, simply click or right-click the alternative or objective priority bar/cell, and then choose a color from the color picker:

ID	Alternative Name	All Participants 7 with judgments
[08]	AS/400 Replacements	52.74%
[03]	Cisco Routers	61.76%
[17]	Customer Service Call Center	60.38%
[13]	Desktop Replacements	49.19%
[04]	EMC Symmetrix	52.77%
[12]	Firewall and Antivirus Licenses	56.75%
[05]	Iron Mountain Backup Service	59.98%
[11]	Laptop Replacements	32.78%
[15]	Mobile Workforce Pocket PCs	32.71%
[09]	Oracle 9i Upgrade	57.69%
[07]	PeopleSoft Upgrade	45.32%
[02]	Plumtree Corporate Portal	77.52%
[16]	ProServe System Upgrade	55.37%
[14]	Sales Force Laptops	53.12%

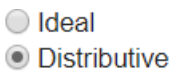
DIDN'T SEE THE OPTION YOU ARE LOOKING FOR? Try enabling the **Advanced Mode** switch at the bottom of the page; this will show the **advanced options on this page**.

When the Advanced mode is ON, you will see the advanced options on this page:



Ideal and Distributive Synthesis

Results can be computed as an **Ideal** mode (default) or D**istributive** mode synthesis.



Originally, AHP had only one synthesis mode – later called the "distributive" synthesis mode. A distributive synthesis distributes priorities from the goal down through the alternatives and is analogous to dividing priorities in a pie chart, which is intuitive for decision-makers to comprehend. The sum of the global priorities for each alternative with respect to each covering objective represents the overall priority of that alternative. The priorities have ratio scale properties (as well as, of course, interval and ordinal properties), which means that they can be used in making a choice or in allocating resources. This synthesis operation can be thought of as distributing the goals priority of 1.0 to the alternatives under consideration, and is today called the distributive synthesis mode. Originally, this was the only synthesis mode of AHP. Critics of AHP pointed out situations where a different synthesis mode is more appropriate.

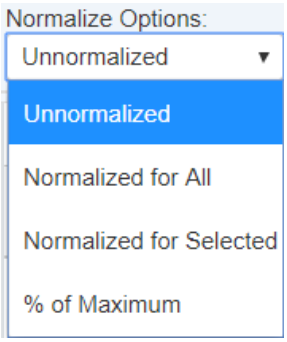
Aggregating Individual Priorities (AIP)

Clicking the **AIP** check-box will show results based on aggregating individual priorities, known as AIP, instead of aggregating individual judgments (AIJ). When AIP is checked, overall alternative priorities are computed for each participant and then an average of these priorities is computed.

NOTE: Due to the nature of AIP, objectives charts, objectives grid, and all sensitivity analysis pages are disabled when AIP is selected.

Normalization Options

By default, the results are Normalized. When the advanced mode is ON, you can select to display results as follows:



- **Unnormalized:** The priority is the sum of the products of each covering objective's global priority times the priority of the alternative with respect to each covering objective. If an alternative has a priority of 1 for every covering objective, it will have an unnormalized priority of 1 and is referred to as an ideal alternative. Note: "Unnormalized" is not available and not applicable when using Distributive mode.
- **Normalized for All:** Sum to 1 for all the alternatives
- **Percentage of Maximum:** The alternative with the highest priority is 1 and all others are a percentage of this
- **Normalized for Selected:** Sum to 1 for the selected alternatives

Combined Input Option (CIS)

If the Combined Input Option (CIS) is ON, then results for individuals are computed by combining the priorities derived from judgments/ratings for which they had roles, with the combined results for any parts of the model where they did not have a role.

Apply User Priorities

If priorities (weights) have been specified for participants, you can use the "User Priorities" check box which enables you to apply or ignore these priorities in calculating the results.