# **Alternatives Chart**

The Alternatives Chart page displays the same priorities as the Alternatives Grid.

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# Alternative Charts Overview

By default, the Columns chart is displayed. The column chart below shows the alternative priorities with respect to the overall Goal.

You can view other chart formats when Advanced mode is enabled.



Clicking another objective node on the Objectives hierarchy at the left will show the chart for the alternatives with respect to that

node.



From the above, we can see the Alternatives with respect to the Objective "Improve Organization Efficiency."

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#### You can hide the Objectives Hierarchy at the left using



You can select one or more participants or groupsusing the

icon.

If more than one chart is available, pagination is displayed at the bottom of the page:

· Charts per page (left) - select how many charts to display per page

• Pagination (right) - paginate or select the page to display

# Non-advanced Mode options (Normalization, Rotate, Legend, Sort, etc.)

Various options are displayed on the toolbar at the top of the charts. Depending on a chart type, options may only be available for a specific chart type.



- 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 the 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).
- Rotate Click the rotate button to rotate the chart by 90 degrees at a time.





#### All Participants

• Legend - show or hide the Legend.

#### Legend

- AS/400 Replacements
- Cisco Routers
- Customer Service Call Center
- Desktop Replacements
- EMC Symmetrix
- Firewall and Antivirus License:
- Iron Mountain Backup Service
- Laptop Replacements
- Mobile Workforce Pocket PCs
- Oracle 9i Upgrade
- PeopleSoft Upgrade
- Plumtree Corporate Portal
- ProServe System Upgrade
  SRDF Site/Service
- Sales Force Laptops
- This Oligat Isophore antatis
- Thin Client Implementation
- Components Show or hide the alternative components. See more detailshere.

#### Components

• Sort - sort chart by priority, name, or none (default: none).

Sort by Priority

- Sort None
- Sort by Name
- F Sort by Priority

• Export - export as png, SVG, pdf, or multiple pdf.

Export	
Export Chart Settings	
PNG	SVG
PDF	Multipage PDF
Can	cel

• Legend Position - can be auto, right, or bottom of the chart (default: Auto). Legend position is only enabled when the Legend is displayed.





• Decimals

Decimals



#### • Font

Select from the Font size dropdown (14 as the default).

14 - Default 🔻	Auto font size
8	
10	
12	
14 - Default	
16	
18	
20	

The Auto font size check box is only applicable for column charts

• Grid View

This option is available for all chart types (except for Stacked Bars) when more than one participant or group is displayed. This allows you to display the charts in grid view (multiple columns) when ON, or a single column when OFF.



# **Alternatives Chart with Components**

You can show the column charts with components by toggling the show (or hide) components

Alternative Charts with Components show the priority of each alternative divided into sections showing how much of the priority is due to its preference with respect to each of the objectives.

button.



Hovering on a specific component will highlight that element for all the alternative bars. A tooltip will also be displayed to see its details -- ([Participant or Group Name]: Percentage Priority Alternative Name) as shown below:



**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**.

# **Advanced Mode Options**

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



### 1. Chart Types

More chart formats are available in the advanced mode.

Columns
Pie Pie
C Donut
Columns
Stacked bars
<u> </u>

The Columns chart is selected by default. You can select from other chart types available. The selected chart format on the advanced mode will be remembered when you switch back to the non-advanced mode.





Stacked bars

6.07 AS/400 Replacements
7.20 Cisco Routers
6.89 Customer Service Call Center
5.70 Desktop Replacements
6.22 EMC Symmetrix
6.43 Firewall and Antivirus Licenses
6.99 Iron Mountain Backup Service
3.85 Laptop Replacements
6.69 Oracle 9i Upgrade
5.38 PeopleSoft Upgrade
9.00 Plumtree Corporate Portal
6.40 ProServe System Upgrade
6.06 Sales Force Laptops
5.22 SRDF Site/Service
8.23 Thin Client Implementation

#### 2. Filter Alternatives

By default, all alternatives are displayed.

Show all Alternative:	
Show all Alternatives	
Show top 5 Alternati	
Show top 10 Alternat	
Show top 25 Alternat	
Advanced	
Select/Deselect Alter	

You can display the top 5, 10, or 25 alternatives based on the "All Participants" group priorities.

### 3. Labels

Show or hide chart labels or objectives names on the chart. When hidden, only the priorities are shown on the chart. To compensate for the loss of labels, you can choose to show the legend instead.



#### 4. Group by Users

Group by Users is available for Column charts when multiple users or groups are selected. By default, this option is ON. When Group by Users is OFF, the chart is grouped by element or node.

### 5. 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 or ratings for which they had roles, with the combined results for any parts of the model where they did not have a role.

### CIS

#### 6. Apply User Priorities

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

#### 🗹 User Priorities

#### 7. Include Ideal Alternative

Include ideal alternative

#### 8. Ideal and Distributive Synthesis

Results can be computed as an**Ideal** mode (default) or Distributive mode synthesis. In most cases, the selected synthesis mode has very little, if any, impact on the results. Read the section below for more information.

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.

The **ideal synthesis mode** of AHP was introduced for situations where the introduction of new alternatives to a decision might using the distributive synthesis mode - cause the ranks of existing alternatives to change, even when none of the judgments with respect to the original alternatives are changed. There are some situations where it is reasonable for the ranks of existing alternatives to change, and others where it is not.

For even more information, seehttps://comparion.knowledgeowl.com/help/ideal-and-distributive-synthesis-closed-and-open-systems

#### 9. Aggregating Individual Priorities (AIP)

Selecting AIP from the Combined Mode drop-down will show results based on aggregating individual priorities, known as AIP, instead of aggregating individual judgments (AIJ). AIJ is the default. When AIP is selected, overall alternative priorities are computed for each participant and then an average of these priorities is computed.

#### Combined Mode



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