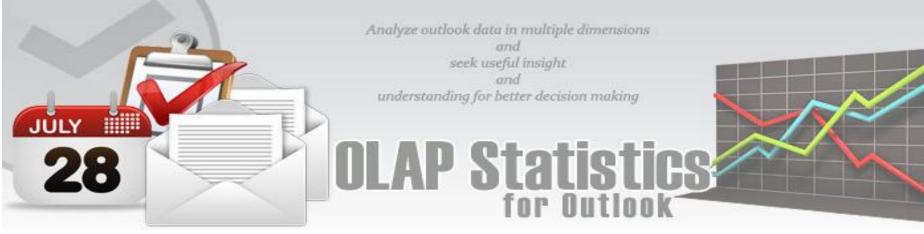


## Welcome to OLAP Statistics and Reporting for Microsoft Outlook

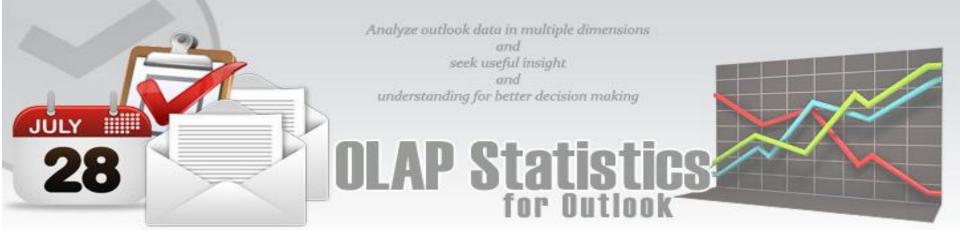
Enabling Business Intelligence (BI) - OLAP add-in for Microsoft<sup>®</sup> Outlook<sup>®</sup> that makes it very easy and effortless to analyze your ever-growing Outlook and Exchange data in multiple dimensional views and get useful insights and sense out of your emails, appointments or tasks.

This is an elaborate help documentation that will guide how to work with OLAP Statistics for Outlook.



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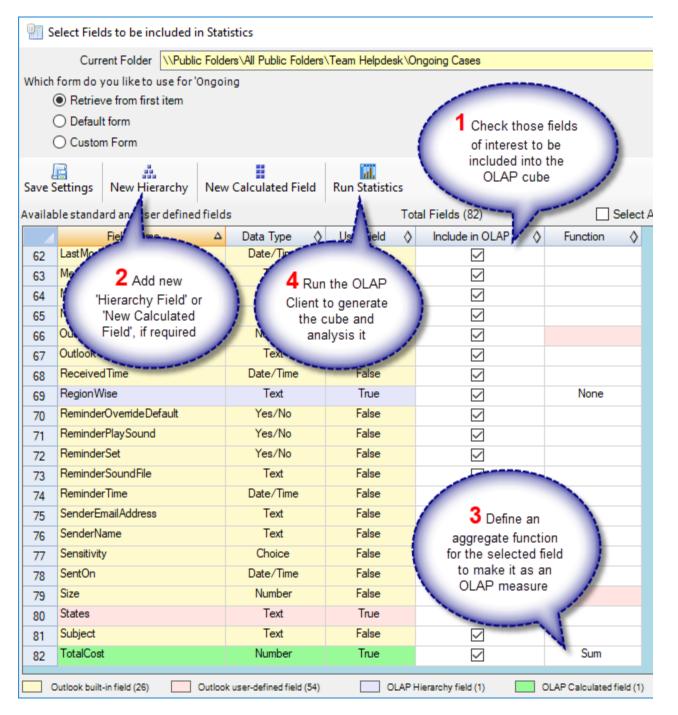
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#### **1. Introduction**

**OLAP Statistics and Reporting** for Microsoft<sup>®</sup> Outlook<sup>®</sup> enables you to select both Outlook and user-defined custom fields of interest, and then explore them in a multi-dimensional grid, graph or chart view with the capability of complex calculations, trend analysis and sophisticated data modeling, all from inside your Outlook.

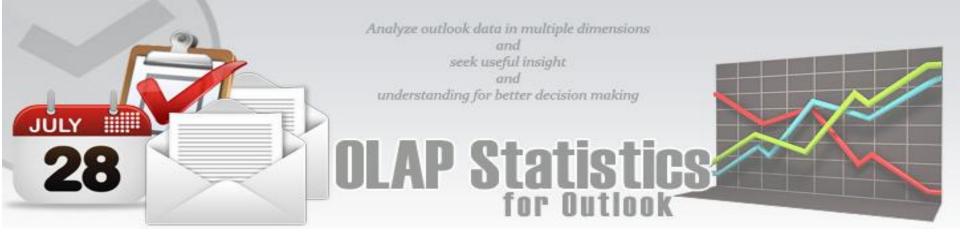
The tool supports the ability to explore large complex data sets and allows displaying in grids, charts and graphs and support most common operations such as pivoting, drill down/slice and dice, filtering etc.



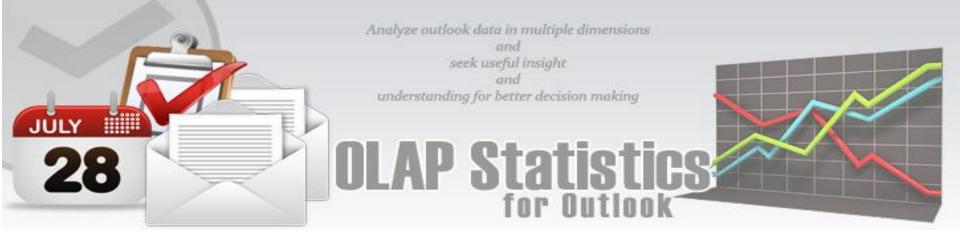
**Reporting made easier** - The statistical tool's simplistic point-and-click interface ensures that you easily achieve the high-level views of information you require. Additionally, the OLAP client makes creating reports destined for different management levels a simple task - eliminating managers' dependence on IT personnel.

**Printing capabilities** - you can print your report to share it with others using the built-in Print Preview window. You can tune your page/printer settings before printing. Also, if you feel like sharing the report through the net or by email you can easy export it to a wide range of formats including PDF, XLS, CSV, JPG, etc.

**Copy to Clipboard** - Select any data range in Chart/Grid and copy to clipboard. Then you'll be able to paste it in an Office program for further analysis. You can also paste the chart like a picture to illustrate your investigations. This greatly simplifies the task of creating detailed, data-rich documents.



**Save Reports in file** - At any stage, you can save the report and distribute it to another person for analysis by network or email, so when the recipient gets the file he can open it and see the same OLAP slice.

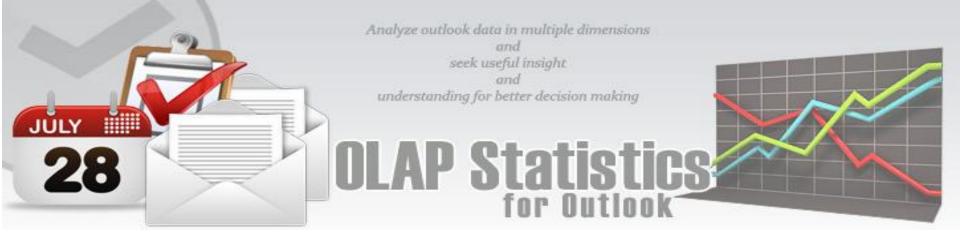


#### 2. Features

Listed below are some of the salient features available on OLAP Statistics and Reporting for Microsoft Outlook.

- ✓ Works with most of the version of **Microsoft Outlook** 2007, 2010, 2013 and 2016.
- Support almost **all data types** used in Microsoft Outlook items.
- Supports user defined custom fields as well as built-in Outlook fields
- Supports the following functions for Measures Count, Distinct Count, Max, Min, Average, Sum etc.
- Choose your own fields from the Outlook folder/items and set them as measures or dimensions for the OLAP cube.
- Supports most of the common OLAP operations including slice and dice, drill down, roll up, and pivoting on the cube.
- Supports date/time fields to be summarized or broken down to year, month, day, week, hours, minutes etc.
- Create your own composite hierarchy. E.g. Country > State > City
- Create your own calculated member involving computational relationship. Eg. Total Sales = (UnitPrice X Quantity) + Freight
- ✓ **OLAP Grid** and **Chart** with highly interactive, customizable and user-friendly interface.
- Save the pivot details to file (\*.olapreport) to make it easy for later retrieval and use without requiring to start from scratch.
- Support offline cube (to \*.offlinecube in compressed or uncompressed format) for use in disconnected mode.
- Complete control over the export settings of the grid/chart reports.
- Export grid/chart reports as BMP, GIF, JPEG, PNG, TIFF, TXT, CSV<sup>1</sup>, PDF<sup>2</sup>, HTML, XML, XLS<sup>3</sup>
- Share pivot details, reports, offline cube, cube schema files among team members to facilitate collaboration.
- Supports **POP**, **IMAP**, **Exchange mailbox** and **Public folders**, and even local PST.
- Unicode Support
- Print Preview tool
- ✓ No requirement of MS Excel, MS Access or Analysis Server
- Special **MSI installer** available for enterprise wide deployment (upon request)

<sup>1</sup>Comma Separated Values <sup>2</sup>Adobe Portable Document <sup>3</sup>Microsoft Excel Document



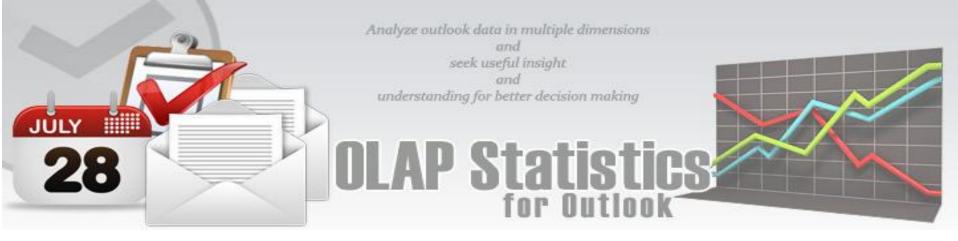
#### 3. Requirements

To work with OLAP Statistics and Reporting for Outlook, you would require the followings

**Operating Systems** - Windows 10, 8, 7, Vista.

**Outlook version** – 2007, 2010, 2013, 2016 (both 32-bit and 64-bit are supported)

Note: Microsoft Access as such, is not required to be installed on the system, for this software to work.



#### 4. Why use OLAP techniques on your Outlook data?

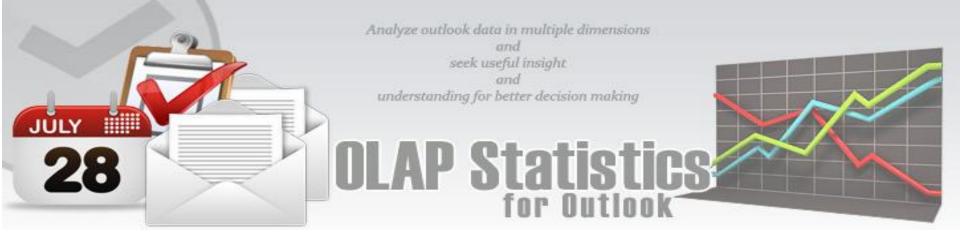
Though Outlook views are excellent way of presenting information in a more obvious way in folder, it does not give you the summarization of data that one needs often, to see broader trends based on aggregated data, and to see these trends broken down by any number of variables.

Given that the generalization of information using Outlook views are constrained by a few fields (or dimensions) at a time, it is hard to fully evaluate a complex set of answers without the ability to inspect each dimension in detail, while at the same time, preserving context eliminating all guesswork.

**OLAP Statistics & Reporting** for Microsoft Outlook is perfectly suited for this purpose and allows you to define any field as the measure with different function - *sum, count, distinct count, maximum, minimum* etc., against which statistics is to be executed. Real strength of this OLAP tool is its ability to examine and view data in ways not ordinarily possible. By allowing varying levels of granularity during data inspection and visualization a lot of information can be revealed that would otherwise be hard to attain. Now it's easier than ever to spot new trends and discover unknown problems in your data flow.

#### With OLAP Statistics & Reporting for Microsoft Outlook, you can

- Interact with your data and investigate relationships within the data with simple navigation tools. OLAP Statistics also provides context, relevance and visualization of the data
- Run query and get the result within seconds. OLAP Statistics usually provides for very fast query performance.
   The usual OLAP query is returned in within 4 seconds.
- Run complex calculations on the OLAP cube to provide aggregated data
- Easily create your own analytic views. OLAP Statistics makes it very easy to create new "views" of the data.
   There are no complex joins to create.
- Combine your data in any order they desire, at any level of summarization, and over several time periods.

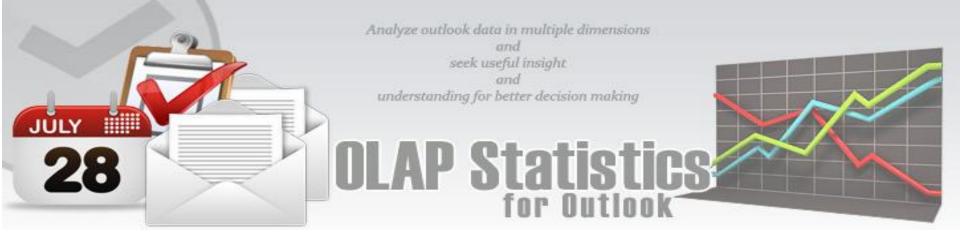


#### 5. Specify fields to be included in the OLAP cube

The OLAP Statistics toolbar is available on every Outlook folder. With the first button, you can select which fields of the folder items are to be included in the OLAP cube. You can define numeric and currency field as the measure with different function - *sum, count, distinct count, maximum, minimum* etc., against which statistics is to be executed.

	\$ ∓		Ong	oing Cases - Public Folder	s - Outlook
File	e Home Send / Re		View Help	AssistMyTeam OLAP	🛛 Tell m
Def OLAP	fine Fields Statistics istMyTeam OLAP (5.1.0.22)	4	*********		
🕛 S	elect Fields to be included in	Statistics			
	Current Folder \\Public	Folders\All Public Folder	s\Team Helpdesk\C	Ingoing Cases	
( ( ( (	form do you like to use for 'O <ul> <li>Retrieve from first item</li> <li>Default form</li> <li>Custom Form</li> </ul> Settings New Hierarchy	ngoing New Calculated Field	Run Statistics	1 Check those f of interest to k included into t OLAP cube	he )
	ble standard and ser defined		1	tal Fields (82)	Select
62 63 64 65 66 67	Field Incompared Field Incompared	Client the	n the OLAP to generate cube and alysis it	Include in OLAP ♦	Function 🔇
68	ReceivedTime	Date/Time	False		
69	RegionWise	Text	True		None
70	ReminderOverrideDefault	Yes/No	False		
71	ReminderPlaySound	Yes/No	False		
72	ReminderSet	Yes/No	False		
73	ReminderSoundFile	Text	False		
74	ReminderTime	Date/Time	False		
75	SenderEmailAddress	Text	False	3 Define an	
76	SenderName	Text	False	aggregate functio	n
77	Sensitivity	Choice	False	for the selected fie	eld 🕴
78	SentOn	Date/Time	False	to make it as an OLAP measure	
79	Size	Number	False	OLAP measure	1
80	States	Text	True		5
81	Subject	Text	False		
82	TotalCost	Number	True	$\checkmark$	Sum

By default, the first option 'Retrieve from the first item' is selected, and what it does is, to probe the first item of the folder and automatically seek out all the available fields, including any number of user defined custom fields. It is recommended that you stick with this option of displaying the fields, unless, you want to retrieve Outlook specific fields only (second option) or want to use a particular custom form out of many defined for that Outlook folder (third option).



As seen in the screenshot above, user-defined fields are distinctly highlighted for easy recognition. For example, ProjectCode, ProjectCost, ProjectCountry, ProjectManager, ProjectPoints are user-defined fields in this task folder. You can also add new OLAP fields - a composite (also known as hierarchy) or a calculated field, based on the existing member fields of Outlook. E.g. Project Total Cost and Projects per Country. OLAP fields are also colored differently for easy recognition (e.g. green).

New Hierarchy to pop up the dialog below. Up to five (5) levels of parent-child To add a new hierarchy, click members are supported to form a hierarchy. For example, we have defined a new hierarchy 'Projects per Country' having the members ProjectCountry >ProjectCode >ProjectManager, all user-defined Outlook fields of the task folder.

Add new composite dimension	
Give a name to this new dimension	
Projects per Country	Update
Specify fields for the hierarchy composite dimension Eg. Country > State > City	Cancel
ProjectCountry	
ProjectCode 🗨	
ProjectManager 🗨	
<b>_</b>	
Note: You need to specify at least 2 fields to create a composite hierarcy dimension	1

ñ.

New Calculated Field and this dialog box would appear. For example, below, we To define a calculated member, click have added a new calculated member 'Project Total Cost' that performs a computational operation involving (ProjectCost \* TotalWork), where ProjectCost being a user-defined field whereas TotalWork is a built-in task field in Outlook.

Add new calculated men				
Give a caption for this calcu	lated member			
Project Total Cost			([ProjectCost] * [TotalWork])	
Select 1st field *	operator*	Select 2nd field*	operator	
ProjectCost	▼ MULTIPLY	TotalWork		-
* Required fields	<ul> <li>1st Precedence</li> </ul>		C 1st Precedence	
				Update Cancel

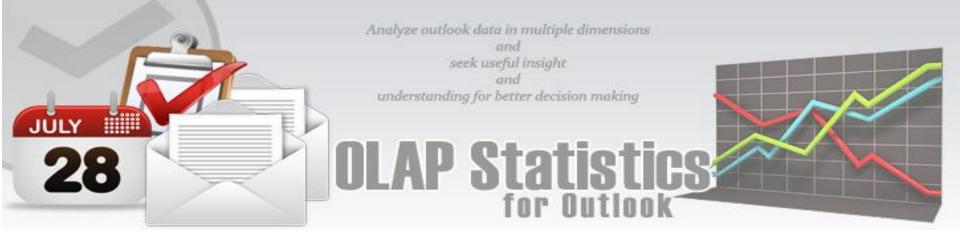
Hierarchy and calculated members will have a green background in the grid, to distinguish from the fields of the tables. To re-edit existing hierarchy or calculated members, just double-click the corresponding row to popup the dialog box, with all the previous settings in place.

To define a measure - Once you have chosen which fields or dimensions to include in the statistic, you can select aggregate functions such as count, distinct count, sum, average, maximum or minimum for those numeric or currency fields, so as set them as 'measures' in the OLAP cube, such that, statistics can be generated across other fields, based on the value of the 'measure' fields.

#### To generate a cube and analyze it, click



and that will run the OLAP client tool. At the same time, selected fields and their aggregate functions (if defined) are all saved for that specific Outlook folder so that next time, when you launch the fields selection box or run statistics directly, it will show the same selected fields, and other composite/calculated fields, if you have added any.



#### 6. Understanding the OLAP Client User Interface

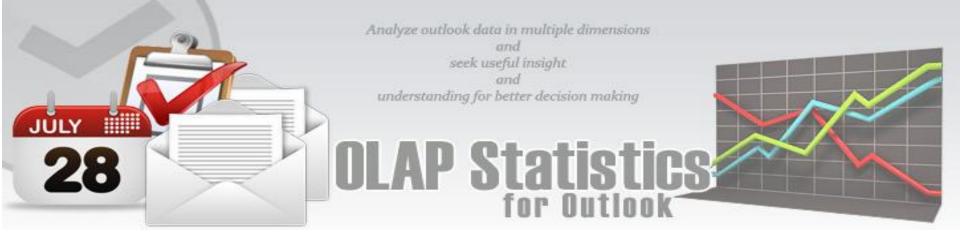
The OLAP tool is the main interface for analyzing the cube and generating reports. This tool consists of the Grid and Chart Views with a high level of customizable user interface and interaction.

🗰 OLAP Statistics and Re	porting for Out	look															
File Views																	
🥶 Open Offline Cube   🚮 Open View   🛗   🔯 Reset Chart/Grid 🛛 🛣 Sync Chart/Grid																	
Grid Grid Chart																	
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Measures	ProjectManager	•				C	Column	is area									
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Creation Time	ProjectManag		Total						-								
DateCompleted	Status																
Last Modification Time Outlook Fields Actual Work BillingInformation Card Data Categories Companies Complete Contact Names Conversation Index Conversation Topic Rows area	Completed Not Started	70,000,00 60,000,00 50,000,00 20,000,00 10,000,00 70,000,00 50,000,00 50,000,00 50,000,00 50,000,00															
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Outlook Folder: \\Personal Folder	s\Tasks																

#### The Files Menu

All the important export/import of cubes and reports are included in this menu.

File	Views
Ē	Open Offline Cube
<b>6</b>	Open Report View
	Save Report View
볞	Save Report View As
	Save to Offline Cube (Uncompressed)
	Save to Offline Cube (Compressed)
	Close Cube 5
	Exit



## **1** Open Offline Cube from file

While generating a live cube from Outlook always provides the advantage of analyzing live data, often, you might be away or disconnected from the network.

In such scenario, you have the option of connecting to an offline cube, which was previously generated and saved to your local folder using this utility. An offline cube file has the extension .*offlinecube* and can be either in compressed or uncompressed format. An offline cube gives the same functionality as that of a live cube (which is generated from the Outlook data at real time), except that the data in the offline cube is only current to the time the cube was saved to file. This provides the flexibility to continue analyzing the cube and writing reports etc, while you are on the move.

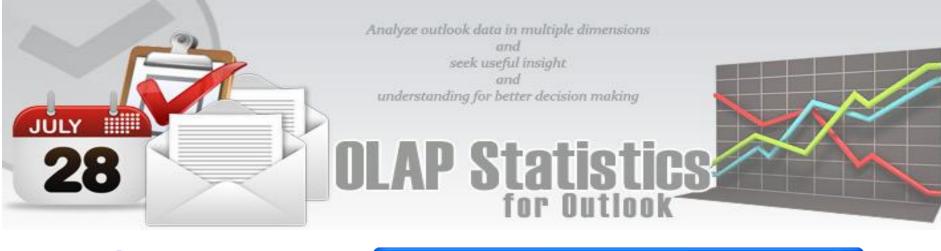
Open		? 🗡
Look in:	: 🗁 Offline cubes 🛛 🕑 🗊 🕬 🛄 🗸	
My Recent Documents	Orders.offlinecube Conders_Details.offlinecube	
Desktop		
My Documents		
My Computer		
<b></b>	File name:	Open
My Network	Files of type:     Offline Cube file (*.offlinecube)	Cancel

## Open Report View from file

2

Once a particular snapshot of the statistics is achieved, you may want to save it for future reference or share it among your team members. A report view is the current state of the statistics in the Grid/Chart working area, with specific member fields on the pivot panels (Rows and Column areas) and measure fields in the values area. It has a file extension '.olapreport'.

Open								?	
Look in:	🗀 My Reports		*	G	ø	ø	•		
My Recent Documents	Quantity in sto		preport						
My Documents									
My Computer									
	File name:	Timeline forTotal Sales.ola	preport			*		Open	
My Network	Files of type:	OLAP Report View (*.olap	report)			*		Cance	



## Save report view to file

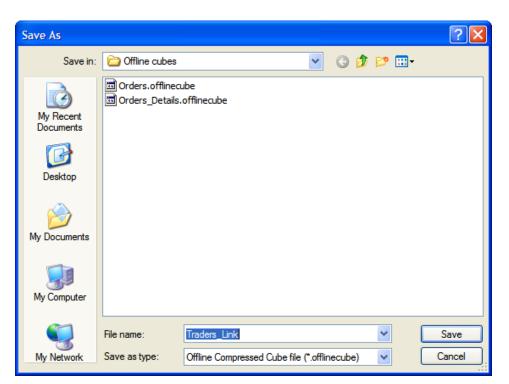
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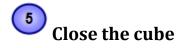
If you want to share a report view with others, you can simply save the current report (state of the statistics along with the pivot details) to a file folder of your choice - could be a network folder also.

Save As						? 🔀
Save in:	🚞 My Reports		✓ G	) 🗊 🛙	• 🖽 🕈	
My Recent Documents Desktop My Documents	Quantity in sto Region Wise Sa Sales per Comp	per Customer and City.olapr ck per Supplier.olapreport les Report.olapreport any.olapreport al Sales.olapreport	eport			
My Computer						
	File name:	Stock per Product			*	Save
My Network	Save as type:	OLAP Report View (*.olapre	port)		*	Cancel

## **4** Save to Offline cube

If you have loaded a live cube from Outlook, you have the option to save the entire cube data to a file (with the extension .offlinecube) for offline use, when you are disconnected from Outlook or network. Offline cube can be saved in compressed or uncompressed format, the former option being able to reduce the file size considerably.





This option closes the cube from the OLAP Statistics and free up the memory for loading another cube.



Analyze outlook data in multiple dimensions and seek useful insight and understanding for better decision making



#### View Menu

1

Contains actions that you can perform on the current report view.

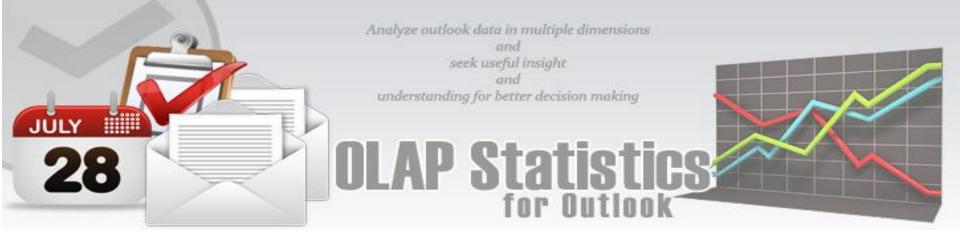


## ) Reset Chart/Grid

Empty all the member fields from the pivot as well as the data from the working area of the chart/grid. This is useful if you want to start over on a new report view.

## 2 Synchronize Chart/Grid

This option allows you to reflect the state of the statistics between the Grid and the chart. It is particularly useful, for example, when you have built up a grid with aggregated data but want a more visual representation of the statistics in form of graphs and bars. Also note that, the synchronization will be done to the other part (grid or chart) based on the current interface. For example, if you are in the grid view, and if you pressed 'Synchronize Chart/Grid' it would read the state of the Grid view and impart the same state (same members and measures) to the Chart view and vice versa. Each of the Grid and Chart view can be worked independently as long as you don't press this synchronize option.



#### **OLAP Components**

Let us explore some of the main components that make up the OLAP tool.

🛱 OLAP Statistics and Reporting Client										
[ 1] n Cul 2] ema 🗓 Open View   🔛   🔯 Reset Chart/Grid   🔝 Sync Chart/Grid										
Columns area			<b>–</b> 1	x	Values 👻 🕂 🗙					
	4 Columns =	re3			Total Sales					
	Columns a									
🗄 💕 📓 - 🔚 - 🖂	🛕 🗈 🖾 🗇	📰 + 💓 +			5					
Measures			Total Sales							
Orders_ShipCou ¥	Orders_ShipRegion ¥	Orders_ShipCity Y			Values					
Portugal			\$12,465.80	^	Values					
Germany			\$244,619.93							
USA	AK	Anchorage	\$16,323.55							
		AK	\$16,323.55							
	WA	Seattle	\$29,070.70							
		Walla Walla	\$357.00		Rows area 🔍 🗣 🗙					
		Kirkland	\$1,571.20		Region Wise 🛛 🍸					
		WA	\$30,998.90	-						
	NM	Albuquerque	\$52,243.41		4					
		NM	\$52,243.41		Rows area					
			\$12,487.85							
	CA		\$3,488.92	×.						
Filter area					↓ ↓ ×					
Item Filter d	escription									
Region Wise All membe	rs except Venezuela, France,	Canada, Ireland, Brazil, Sw	eden, Italy, Spain	n, An	gentina 👩 🛅 🐺					
	View   H. No Reset	View Measures Chart/Grid Sync Chart/ Columns area Measures Columns a Measures Orders_ShipCou Orders_ShipRegion Portugal Germany USA VIA VIA VIA NM WY OR ID CA Filter area Item Filter description	View	View Main and the second se	View Measures Chart/Grid Sync Chart/Grid  Columns area					

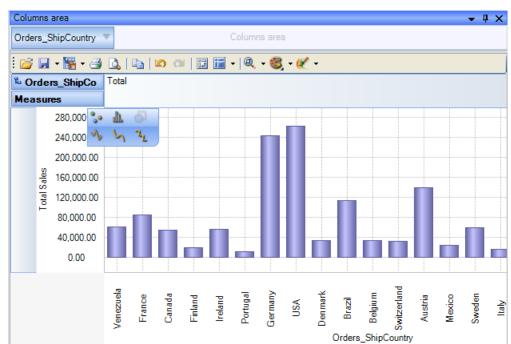
#### Grid Chart panel

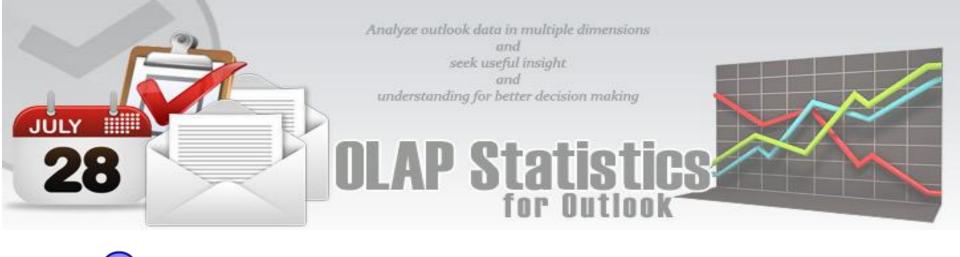
1

The OLAP Grid control is comprised of a multi-dimensional table with expandable nodes. These nodes group and display data according to the hierarchies used to define the measures and dimensions upon which the underlying data has been organized. Unique features of control allow for building the OLAP-reports of the exceptional level of complexity. In tandem with the OLAP Chart, the OLAP Grid provides an ideal means of clearly conveying data to the user.

#### 2 OLAP Chart panel

While the OLAP Grid allows working with numbers, the OLAP Chart allows representing the data graphically. This gives you and your team members a unique opportunity to analyze their business data visually, dealing with charts rather than numbers, which is much easier to perceive.







The panel contains the Cube structure - measures and hierarchies as a tree. The measures are grouped in the set, displayed in the branch. All the rest of the tree nodes are the dimensions that contain hierarchies. To select a measure for display you need to drag-n-drop it to the Measures panel or the data area. To select a hierarchy for display – drag-n-drop it to the hierarchy area or the pivot panel (rows or columns area).



- Measure
- 🧕 Dimension
- Attribute hierarchy
- 👬 Multilevel hierarchy
- Measures are grouped in the Measures category.
- Hierarchies are sorted into folders dimensions. If there's only one dimension in a hierarchy, it will be displayed in the tree root.

Both hierarchies and measures have their own menus. Right click will call the context menu that gives you an option to place the element where you like. You can also filter the selected element (see Filtering hierarchies and measures) or place it to the selected panel.

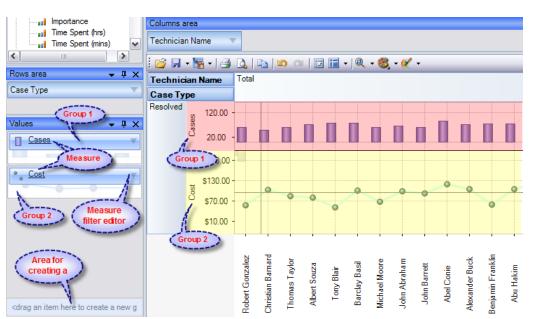


A pivot table lets user design the report online by dragging and dropping measures, dimensions and levels into the pivoting panels. Note that the column panel may contain no more than one (!) measure. Panel elements can be dragged with the mouse to other panels. To filter elements, press the Filter button (see Pivot panel view) or use the appropriate items from the context menu.



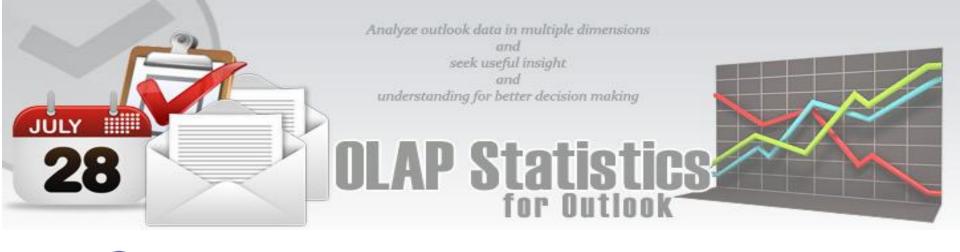
#### Measure panel

Measure panel consists of groups of measures that make up the charts' vertical axes (see Measure panel components). Each group of measures corresponds to a set of charts in the data area. Groups of measures are situated in the main part of the panel.



You can drag measures from one group to another, or extract measures from groups to delete them. To create a new group, you need to drag a measure to a place on the panel not occupied by another group or to the <drop an item to create a new group> panel.

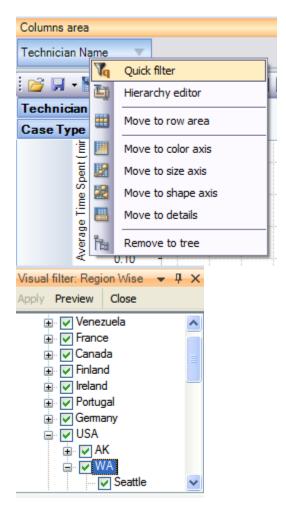
Clicking a mouse button on measures will call the context menu. From here, you can move a measure to one of the pivot panels or to the modifiers axis or assign a measure filter. Also, you can assign the marker type of a chart point and its color.



### Filters, Groups, and Sorting

6

The statistical tool allows for easy selection on what data you want to see and what you don't. You can apply powerful filters to anything including hierarchy members, and measure values, thus leaving out the unimportant data. You can sort the data to see, for example, the top 10 values and then you can gather the rest values into a single group, so you only have what you really need.



The panel is applicable for quick filtering of elements. You can filter just one hierarchy or one measure at once. To assign a quick filter, use the context menu. Quick filtering of a hierarchy is a simplified version of the Hierarchy filtering editor. You can show or hide hierarchy members, while selecting them from the Hierarchy tree. All the changes will be displayed in the Grid upon checking the "Preview" button. If a non-empty filter is assigned, it will be shown in the Filter panel. To delete a filter, select the "All Members" node and choose the "Delete filter" command on the Filter panel.

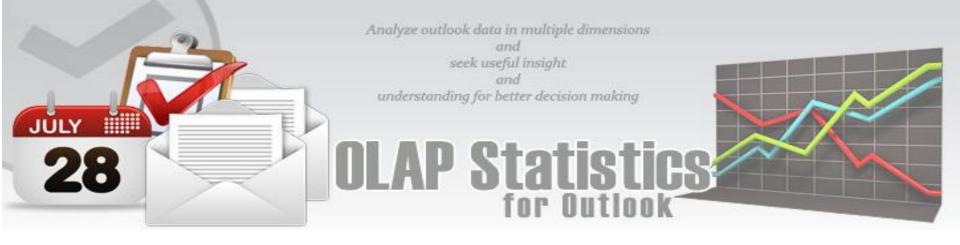
Quick filtering of measures is a fine way to hide some of the values in the Chart. It doesn't mean you create a measure filter in the Filter area. Repositioning of the trackbar sliders will be reflected with a slight delay (~0.4 second), you can set its threshold values in the input boxes. To clear a filter, check the "Clear" button.

#### Filter panel

The filtered elements (hierarchies and measures) are automatically transferred to the Filter panel. To assign a filter, you have to move an element to the Filter panel. If the element hasn't been filtered the appropriate editor will be called (Hierarchy Filter Editor for hierarchies and Measure Filter Editor for measures). In the Filter panel, you can call the Filtered Element Editor individually for each element.

Filter area		↓ ↓ ×
ltem	Filter description	
Region Wise	All members except Venezuela, France, Canada, Ireland, Brazil, Sweden, Italy, Spain, Argentina	🏝 🐼

On the hierarchy levels' captions area panels you can find the Hierarchy Editor buttons . If the button looks like this , it means that there are hidden members in the hierarchy. Pressing the button calls the Hierarchy Editor.



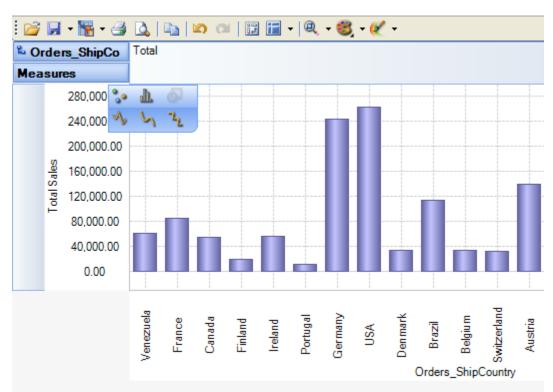
#### 7 Working Area

The OLAP-slice data is displayed in working area. In its upper part there is a menu for the quick access to the frequently used commands<sup>2</sup>. The rest is occupied by the current OLAP-slice and consists of the following parts - Cube Axis headers, Cube Axes, Data Axes, Data Axis headers, Chart Panes

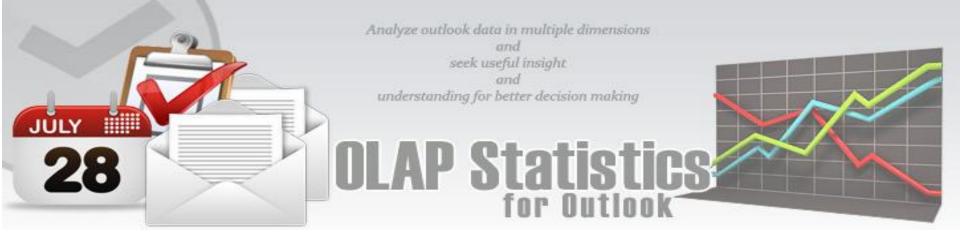
Grid Working Area

: 🚰 🖵 - 🔚 -   🚑 💁   🖎 🔎   🗔 🖬 -   🗶 -							
Measures	Total Sales						
Orders_ShipCountr							
У							
Venezuela		\$60,806.99	^				
France		\$85,488.61					
Canada		\$55,329.30					
Finland		\$19,776.45					
Ireland		\$57,311.14	=				
Portugal		\$12,465.80					
Germany		\$244,619.93					
USA	AK	\$16,323.55					
	WA	\$30,998.90					
	NM	\$52,243.41					
	WY	\$12,487.85					
	OR	\$30,392.38					
	ID	\$115,663.79					
	CA	\$3,488.92					
	MT	\$1,947.24					
	USA	\$263,546.04	~				

Chart Working Area



After a particular snapshot of the statistics is achieved, you have the options to save the pivot settings to file, for accessing the same snapshot in future, in a click. If you need to share or publish the statistical findings, export it to image, PDF, Excel etc., or print it.



#### 7. Working with OLAP Grid

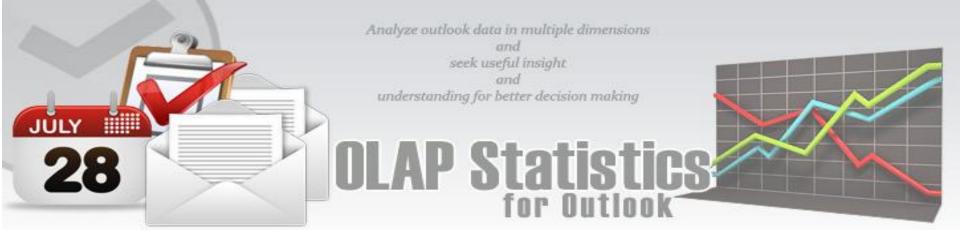
The OLAP Grid view is comprised of a **multi-dimensional table** with expandable nodes. These nodes group and display data according to the hierarchies used to define the measures and dimensions upon which the underlying data has been organized. In tandem with the OLAP Chart view, the OLAP Grid view provides an ideal means of clearly conveying data to the user. **It is highly navigable and quickly provides detailed information to the user**. The speed with which data recall occurs and the strong formatting the grid enforces ensure data is always presentable and easily understandable. Consequently, OLAP Grid views can easily be ported to spreadsheet applications for report compilation purposes.

OLAP Statistics and Rep	oorting Client						
File Views Help							
💷 Open Cube Schema 📠 🤇	Open View 🏻 🛗	© Reset Chart/Grid	Sync Chart/Grid	4			
Grid 📊 Chart							
	Columns area					Ψ×	Values 🔷 🕂 🗙
🖃 🔐 Measures 🔥	Measures 🔻		Columns area				Total Sales 🔍
Count	: 🗠 🖂 . 🖳 .	🛃 🚨   📭   🖍	~ I 🖻 🚍 _ 🚺				
Quantity							
Total Sales	Measures			Total Sales	Descent of		
				Value	Percent of Grand Total		Values
in to Available Fields in to Order Date	Orders_Ship T Country	Orders_Ship ¥ Region	Orders_Ship Y City				
E to Region Wise	Germany	Unknown	ony	\$244.619.93	27.90%	^	
Orders_ShipCit			Germany	\$244,619.93	27.90%		
Orders_ShipCo Orders_ShipRe	USA	AK	Anchorage	\$16,323.55	1.86%		
Orders_ShipRe			AK	\$16,323.55	1.86%		Rows area 👻 🕂 🗙
		WA	Seattle	\$29,070.70	3.32%		Region Wise 🌱
Visual filter: Region 👻 📮 🗙			Walla Walla	\$357.00	0.04%		
Apply Preview Close			Kirkland	\$1,571.20	0.18%		
😑 🔽 All members 📃			WA	\$30,998.90	3.54%		Rows area
🔄 🛄 Venezuela		NM	Albuquerque	\$52,243.41	5.96%		
France			NM	\$52,243.41	5.96%		
i Canada i Canada		WY		¢12 //87 85	1 //2%	*	
	Filter area						<b>→</b> ♯ ×
🗄 🔽 Portugal	Item Filt	er description					
Germany	Region Wise All me	embers except Venezu	ela, France, Canada,	Ireland, Brazil, S	weden, Italy, Sp	ain, Ar	rgentina 🛍 ᡀ
⊡ ⊽ USA ⊕ ⊽ Denmark ⊻							

Additionally, the OLAP Grid view allows users to effortlessly add and remove categories, filter and sort categories, and **drill up** or **drill down** on data using powerful built-in menus. One of the greatest benefits this affords is that it allows users to explore, navigate and refine data until the desired snapshot is achieved. Once in place this snapshot can then be reflected in a complementary chart. This is possible as OLAP operations in Grid view can be synchronized with Chart view. These two data views can then be deployed side-by-side or on top of one another.

#### Data Visualization

- Unicode support.
- Simultaneous display of several different measures in the Grid.
- Simultaneous drilling down based on different parameters: up to the nearest child, up to the next level, up hierarchy.
- Saving and restoring the current OLAP-slice.
- Hierarchy members grouping (including multilevel and parent-child hierarchies).
- Separate sorting on different hierarchy levels. Possibility to override any sorting method.
- Ascending or descending sorting based on the cell values in any column of the Grid.



- Filtering of hierarchy members with or without applying these filters to the OLAP calculations.
- Auto filtering of the hierarchy members depending on their values in the Grid. Major/minor members selection, either based on their rank or on the Pareto principle.
- Replacing hierarchy members by drag-n-dropping them within the Grid.
- Auto sizing of cells depending on their contents.
- Flexible export to MS Excel, HTML, GIF, JPG, PNG, BMP, CSV, TXT, PDF formats.

#### **Operating the OLAP-slice**

The OLAP-slice data are displayed in a table, whose appearance may be amended to some extent. For operating the current OLAP-slice there are the following functions available:

- 1. Navigation
- 2. Selecting and copying data
- 3. Drilling, sorting and moving hierarchy members
- 4. Operating context menus
- 5. Filtering data
- 6. Editing data
- 7. Setting the column width

1. Navigation - You can easily navigate the data using the keyboard:

Button	Action		
Home	Move to the first cell of the row		
End	Move to the last cell of the row		
PageUp	Move one page up		
PageDown	Move one page down		
Ctrl+Home	Move to the top left cell		
Ctlr+End	Move to the bottom right cell		

Using the mouse, you can scroll the table up and down.

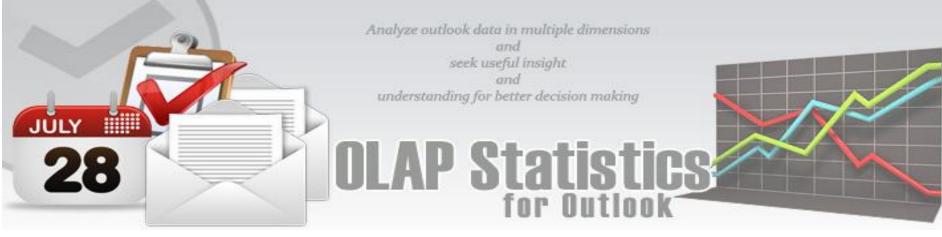
Mouse Action	Component Action	
Scrolling the mouse wheel	Vertical scrolling of the table	
Scrolling the mouse wheel with the Shift button held down	Horizontal scrolling of the table	

2. Selecting and copying data - The data area in the component can be selected like everything else in Windows:

- Select all the cells pressing Ctrl+A;
- Capture the area with the mouse;
- Change the boundaries of the selected area with direction buttons, holding down the Shift button.

You can copy the data from the selected area to the clipboard by pressing Ctrl+C. If there's no selection, pressing these buttons will copy the whole OLAP-slice to the clipboard.

**3.** Drilling, sorting and moving hierarchy members - To perform the drilling of the hierarchy members press buttons on the Grid cells. If there's only one drilling button in a cell, then, instead of pressing it, you can double-click the cell itself. By default, the drilling buttons are shown only in the cells under mouse. To see all the buttons, press the Ctrl button. The last cells in the column area of the hierarchy members allow showing the sorting direction. A pointer that indicates the descending order of data illustrates it. You can manage the sorting modes by single clicking on the cells of the specified area: they are changed cyclically [descending sorting] -> [ascending sorting] -> [no sorting].



Case Type Y		Resolved	Total
Problem Category 🔻	¥		
- Accessories	Apple Wireless Mouse	25.82	25.82
	Time Capsule	19.90	19.90
	Airport Base Station	17.15	17.15
	Apple Wireless Keyboard	16.42	16.42
	Apple TV	16.07	16.07
	Accessories	95.35	95.35
Services	Complains	22.72	22.72
	Loyalty Scheme	17.42	17.42
	AppleCare	17.17	17.17
	Sales	14.75	14.75
	Apple Rental	10.77	77 10.77
	Buy Back Scheme	8.73	8.73
	Services	91.55	91.55

**4. Operating context menus** -The context menu, called by right clicking a table cell, partly duplicates the OLAP-slice control functions.

Case Type	•••••	🚽 Resol	ved
		Show totals first	
Problem Ca	~	Show totals last	
Accessories		Don't show totals	25.82
	~	Default sorting	19.90
		Sort ascending	17.15
		Sort descending	16.42
		Aggregate all hierarchy members	16.07
	~	Aggregate visible members only	95.35
Services			_91.55
Applications		Drill all down	84.45
Music Players		Drill all up	20.57
	35	Clear filter	20.40
	ł,	Filter on captions	18.65
		Show empty cells	18.62
			_78.23
Notebooks	24	Create new group	14.83
	E2	Copy selection	14.82
	≦₿	Conditional formatting	-13.73 43.38

#### Hierarchy levels' menu

There is a list of commands available in the context menu of the hierarchy levels' area

Command	Function		
Show totals first	Show the aggregated cells before all the rest		
Show totals last	Show the aggregated cells after all the rest		
Don't show totals	Do not show the aggregated cells		
Default sorting	Range hierarchy members by default		
Sort ascending	Range the hierarchy members by values from the bottom to the top		
Sort descending	Range the hierarchy members by values from the top to the bottom		
Aggregate all hierarchy members	Aggregate all the hierarchy members (including hidden)		
Aggregate visible members only	Aggregate the visible hierarchy members only		



Analyze outlook data in multiple dimensions and seek useful insight and understanding for better decision making



# OLAP Statistics

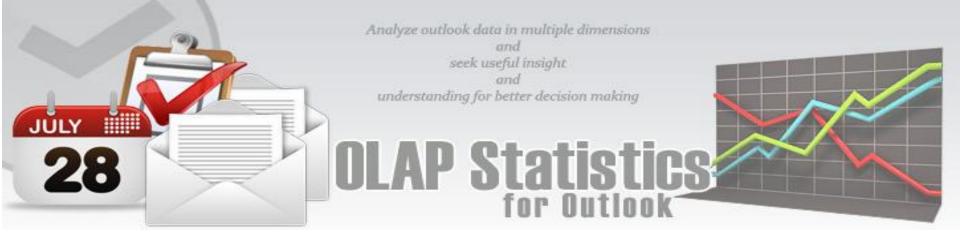
Drill all down to the next hierarchy		
Drill all down to the next level		
Drill all down to the same-level children		
Collapse all the elements of this level		
Remove any applied filters		
Set the filter for measures		
Show the cells with no aggregated values		
Create a new group. It will appear at the first level of the hierarchy		
Copy the selected area to clipboard		
Show the Conditional formatting menu		

#### Hierarchy members' menu

Case Type	Y	Resolved
Problem Cate	gory 🔻 Problem Type 💌	•
Accessories		95.35
Services	Drill down to the next level	91.55
Applications	Hide this member	84.45
Music Playe 🏹	Hide all members except this	20.57
Υ.	Hide all members below this	20.40
	Show only the top	18.65
	Show only the bottom	18.62
7		78.23
Notebooks 🚇	Filter on captions	14.83
<b>2</b>	Create new group	14.82
Pa		13.73
E a	Copy selection	43.38
Operating S	Conditional formatting	39.75
Mobiles	iPhone	21.92

The functions of the hierarchy members' area menu:

Command	Function
Drill down to the next hierarchy	Open the node up to the next hierarchy in the current area, ignoring all the lower levels of the current hierarchy
Hide this member	Hide the member
Hide all members except this	Hide all the members of the hierarchy, except the selected one
Hide all members above this	Hide all the members of the hierarchy above the selected one
Hide all members below this	Hide all the members of the hierarchy below the selected one
Show only the top	Show the top elements of the level. Their number is specified in the sub-menu. If you specify a percent value there, then the picking of members will be such that their total value does not exceed the one, specified in the sub-menu. You can choose a threshold value from those offered in the appropriate menu item or set your own one, selecting Other from the menu.
Show only the bottom	Show the bottom elements of the level. Their number is specified in the sub- menu. If you specify a percent value there, then the picking of members will be such that their total value does not exceed the one, specified in the sub-menu. You can choose a threshold value from those offered in the appropriate menu item or set your own one, selecting Other from the menu.
Filter on captions	Set the filter for measures
Create new group	Create a new group on the current level
Copy selection	Copy the selected area to clipboard



Conditional formatting

Show the Conditional formatting menu

#### The menu for groups of hierarchy members

Case Type Y			Resolved	
Problem Category 🔻	Prob	lem Type 🛛 🔻	<b>.</b>	
Accessories	Apple \	Wireless Mouse	25.82	
	Time C	Capsule	19.90	_
	A	Hide this member	**	1
	Δ 📲	Hide all members ex	cept this	
	Δ 📲	Hide all members ab	ove this	ł
	1	Hide all members be	low this	ł
Services		Show only the top	+	I
Applications		Show only the botto	om 🕨	I
Music Players	if if	Filter on captions	•	
	il 🞑	Create new group		ł
	if 🕞	Copy selection		
Notebooks	N ≦5	Conditional formatti	ng 🕨	

#### The context menu that appears above the group cell:

Command	Function
Hide this member	Hide the selected member
Hide all members except this	Hide all the hierarchy members except the selected one
Hide all members above this	Hide all the hierarchy members above the selected one
Hide all members below this	Hide all the hierarchy members below the selected one
Show only the top	<ul> <li>Show the top elements of the level. Their number is specified in the sub-menu. If you specify a percent value there, then the picking of members will be such that their total value does not exceed the one, specified in the sub-menu.</li> <li>You can choose a threshold value from those offered in the appropriate menu item or set your own one, selecting Other from the menu.</li> </ul>
Show only the bottom	<ul> <li>Show the bottom elements of the level. Their number is specified in the sub-menu. If you specify a percent value there, then the picking of members will be such that their total value does not exceed the one, specified in the sub-menu.</li> <li>You can choose a threshold value from those offered in the appropriate menu item or set your own one, selecting Other from the menu.</li> </ul>
Filter on captions	Set the filter for measures
Create new group	Create a new group
Delete this group	Delete the selected group
Clear this group	Clear the selected group
Rename this group	Rename the selected group
Copy selection	Copy the selected area to clipboard
Conditional formatting	Show conditional formatting menu



Analyze outlook data in multiple dimensions and seek useful insight and understanding for better decision making

**P Statis** 



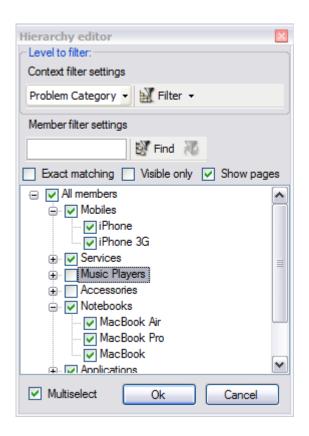
less		16.42	16.42	
		16.07	16.07	
Accessories		Sort ascen	ding 🔺	
	<b>~</b>	Sort desce	nding	
		No sorting		
ic	Ð	Filter on ca	ptions	•
	1	Show as		•
e	Ea.	Copy selec	tion	
Ausic Players	1	- hu - l		
ir	<u>≦</u> ₿	Conditiona	formatting	

The context menu that appears above the group cell:

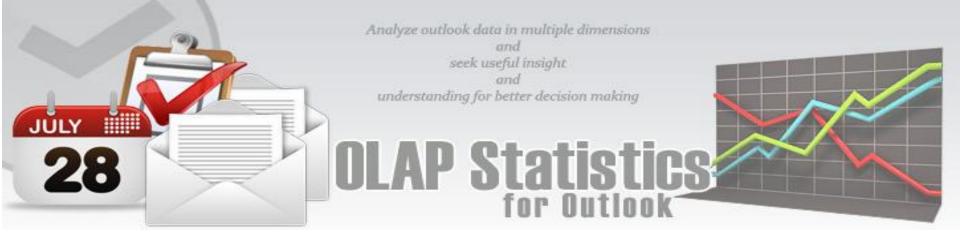
Command	Function
Sort ascending	Range the cells in the column by values from the bottom to the top
Sort descending	Range the cells in the column by values from the top to the bottom
No sorting	Remove any sorting
Filter on captions	Set the filter for measures
Hide this measures	Hide the selected measure
Show as	Specify the display mode of the current measure in the Grid: default percent aggregated value in the row percent parent element of the row percent parent element of the column percent total aggregated value
Copy selection	Copy the selected area to clipboard
Conditional formatting	Show conditional formatting menu

**5. Filtering data** - The filtered elements (hierarchies or measures) are automatically placed on the filters' panel. To start filtering, move the element to the filters' panel. In case the element has not been filtered, the appropriate editor will launch (the Hierarchy Editor for hierarchies and the Measure Filter Editor for measures). In the filters' panel, you can launch an editor for each element independently.

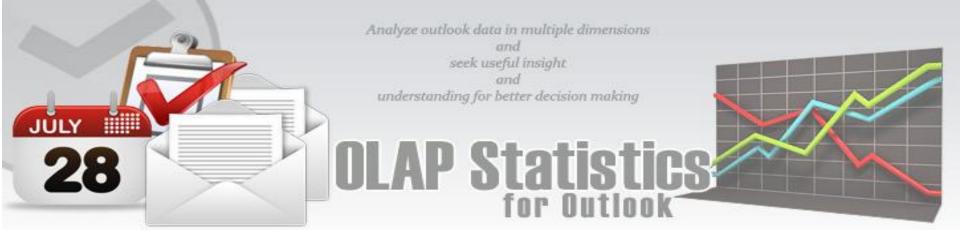
The buttons for launching the editor ( $\blacksquare$ ) are placed on the panels in the Hierarchy levels' area. If the button looks like this ( $\blacksquare$ ), it means the hierarchy had hidden members inside. Pressing the button starts the Hierarchy editor.



**6. Setting the columns' width** - You can change the width of columns in the data display area by dragging the right boundary with the mouse. If possible, these changes will be saved during other operations with the table (like drilling, sorting, etc.) To return to the original width, double click the right boundary of the column where it is visible. In case

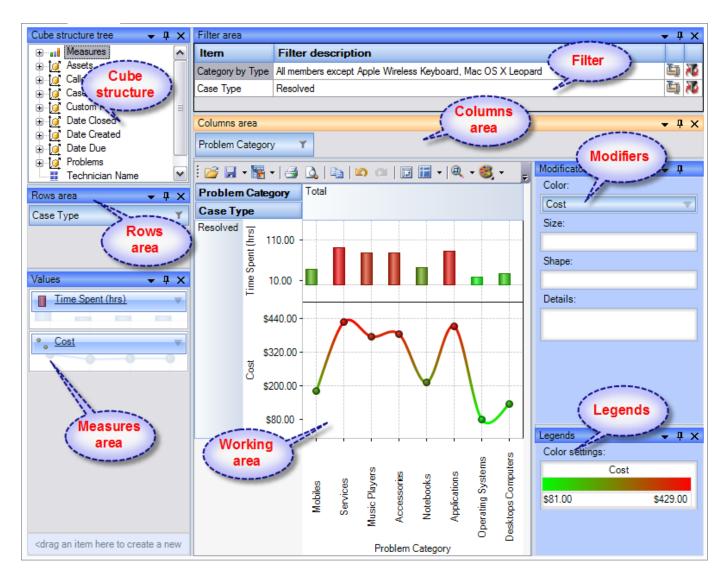


there were such changes in the table that saving the assigned width of the columns was impossible (for example, if as a result of the Collapse drilling, the column with the assigned width has disappeared), it will be set automatically. Unfortunately, if you operate a big table, calculating the columns' width takes up too much time. This is why if there are more than 10, 000 cells in your table, their width will be set to default, but it can be corrected later.



#### 8. Working with OLAP Chart

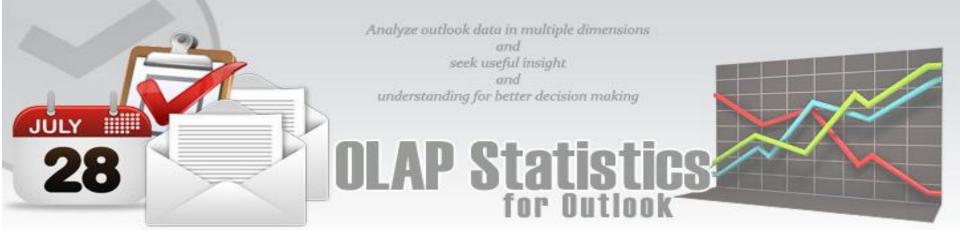
While the Grid view allows working with numbers, chart view allows representing your data **graphically**. This gives you and your team a unique opportunity to **analyze data visually**, dealing with charts rather than numbers, which is much easier to perceive. Now it's easier than ever to spot new trends and discover unknown problems in your data flow. The statistical tool will help you gain an insight into your data and make new discoveries.



#### **Tools panel**

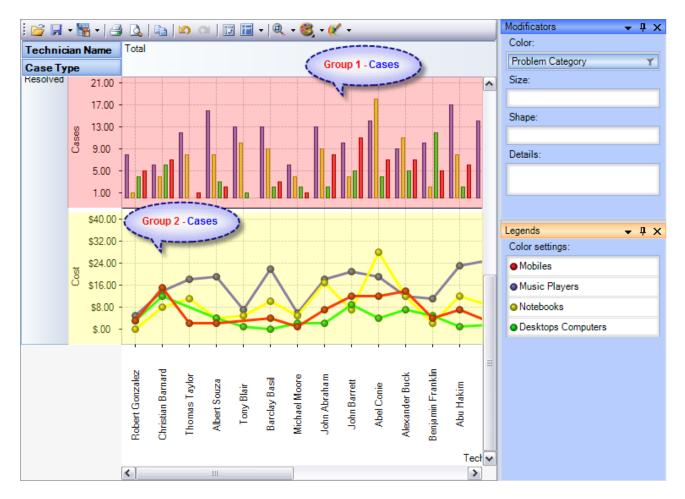
This panel houses all the frequently used operations on the OLAP chart - save, export, print and display options.

Button	Function
<b>1</b>	Load the Grid state
	Save the Grid state
*	Export OLAP-slice data
2	Print OLAP-slice data
3	Preview
	Undo
<u>a</u>	Redo
15	Switch axes
	Select the docking panels layout
Q	Set the scale of Chart display
8	Select the color palette for measures



#### **Modifier panel**

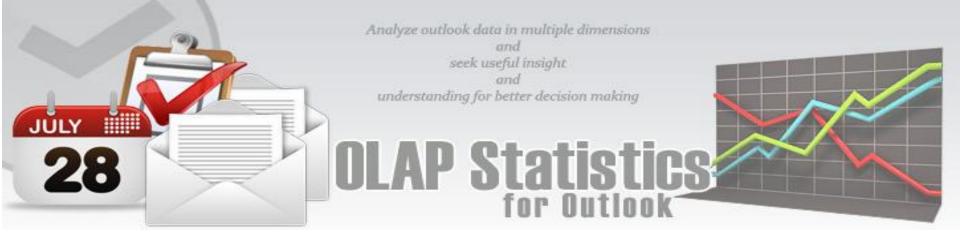
Modificators are easy and powerful options of data representation. You can choose your data be shown in different colors, using different shapes and sizes, so that you can easy distinguish them in a single graph. You can simply place a dimension or a measure on a modificator's pane and get the graph showing different values in a different manner. For example, you might place the "Problem Category" dimension on Color pane and get the Chart showing problem categories in different colors. Or you can place the "Cost" measure on Color pane to highlight the top rates of supporting the service requests. The same can be done for Shape and Size so that you can make your data perfectly distinguished.



The layout of panels and hierarchies on the Modifier panel allows you to change the appearance of the displayed slice. When an element is placed to the modifier panel (except for Details), its legend will contain the display parameters. If you modify the color and shape of an element, the appropriate parameters can be amended.

Modifier	The changes made upon placing a Chart element to the modifier area of	
Woumer	a measure	a hierarchy
	The color of the Chart elements will be chosen from the standard set of gradient colors	Hierarchy members will be painted with the colors from the current palette
Color	The elements with the minimal value will be painted with the first of the gradient colors, and the elements with the maximal value - with the last one	N/A
Size	Depending on the value of the measure the size of the Chart points will vary from the minimal to the maximal.	Hierarchy members will differ in size
Shape	Forbidden	Hierarchy members will differ in shape. If the number of hierarchy members will exceed the number of available shapes, some of them will be used more than once
Details	Forbidden	The panels will display series for all hierarchy members

If a measure is placed on the Color pane, its values range is mapped to the given colors range so that it's



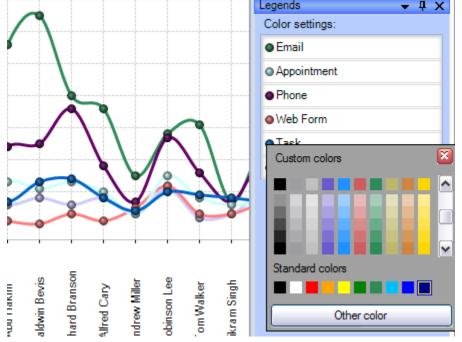
tremendously easy to spot the top/low values. If you select the discrete gradient type, you'll be able to set threshold values for filling the Chart elements. While the continuous gradient will let you evaluate the trend as a whole. To select the gradient type and tune its content, turn to the legend panel.

#### The Legend panel

The panel contains descriptions of the modified elements. The value, shape and color of a legend element can be edited.

#### Setting the Color legend

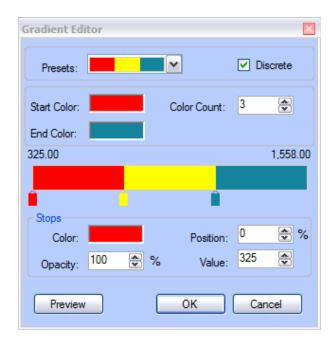
To select a color, simply double-click the appropriate element and choose a color from the pop-up editor.

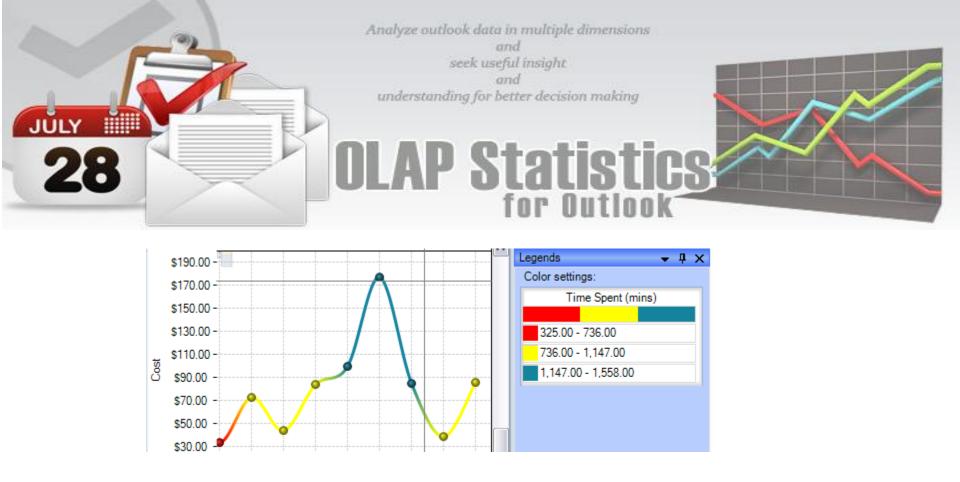


#### Setting the Gradient legend

To edit the gradient, double-click the element and tune the settings in the editor. In the Gradient Editor there are:

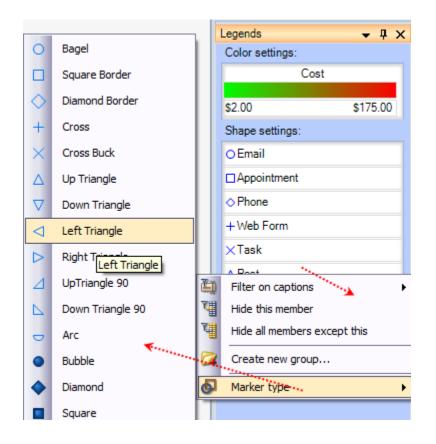
- a set of pre-made gradients;
- selecting gradient option (continuous or discrete);
- creating a gradient with a set number of intermediate colors option;
- setting threshold in per cent and measure values option;
- selecting threshold color option.

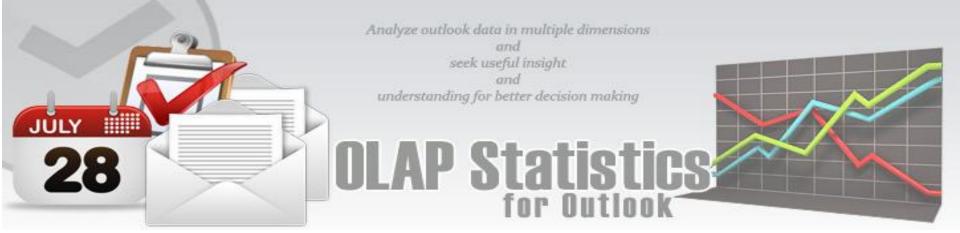




#### Setting the Shape legend

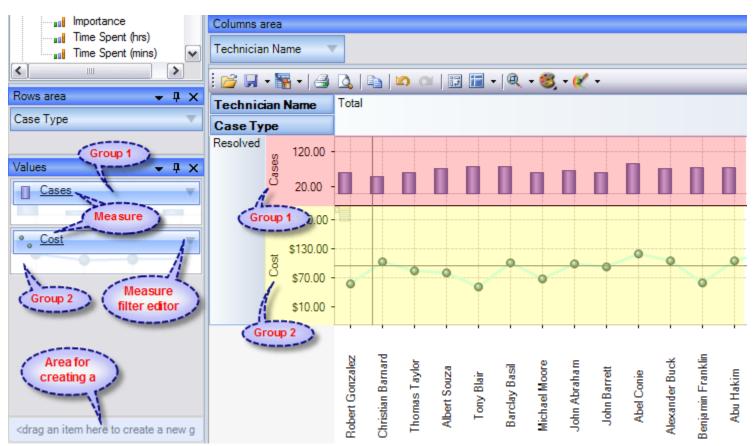
The shape selection is made through the context menu. This option is available only for points or lines Charts. If the number of hierarchy members exceeds the number of available shapes, they will be repeated.





#### **Chart Panes**

The bulk of the OLAP-slice data are placed into cells with Charts. Each measure group has its own set of panes.



Measure groups with corresponding Charts in the working area

In the upper left part of each Chart, there will appear a context menu for selecting its type.

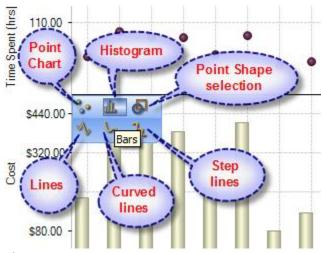
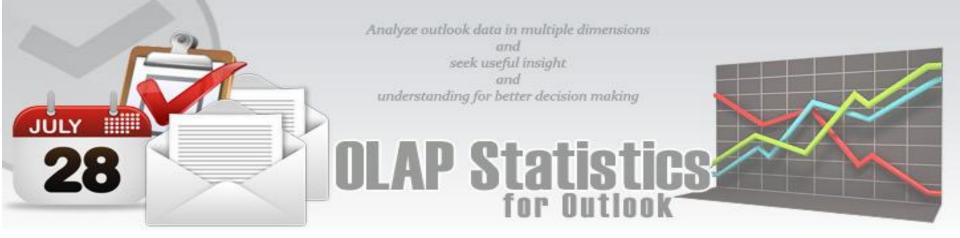


Chart type menu

The size of Charts can be changed to some extent. To expand a Chart along either one of the axes, you need to capture its boundary with the mouse and drag it. You can change the size along both axes (and return to default) through the tool menu in the upper part of the working area.

Hot keys for changing the scale		
Ctrl+* Reset Scale to 1:1		
Ctrl+Num+	Zoom In	
Ctrl+Num-	Zoom Out	



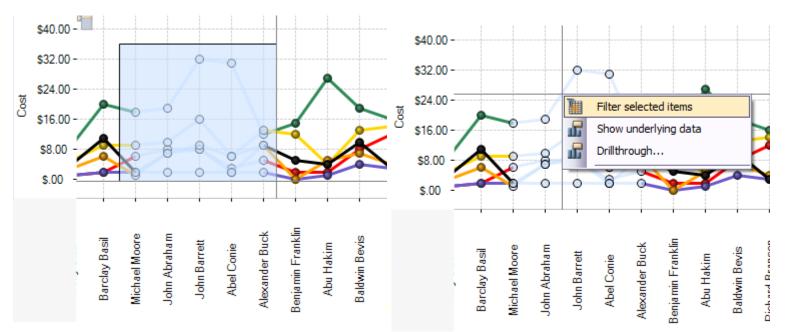
#### Navigation

If the content of the Grid exceeds the client area, the scroll bars will appear. You can scroll down the data using the mouse wheel. To scroll the Grid in the vertical direction, turn the mouse wheel, while holding Shift.

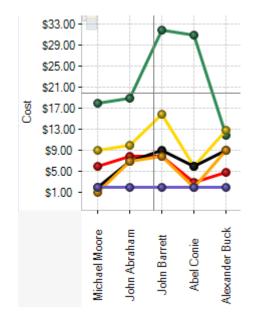
#### **Selecting Data**

You can select Chart points with the standard Windows' method. Holding down the Ctrl button, you can add selected points, holding down the Shift button, you can select the horizontal range. You can filter the Grid's points while selecting. In that case, the corresponding hierarchy members will be filtered automatically.

#### Selecting and filtering parts of Charts



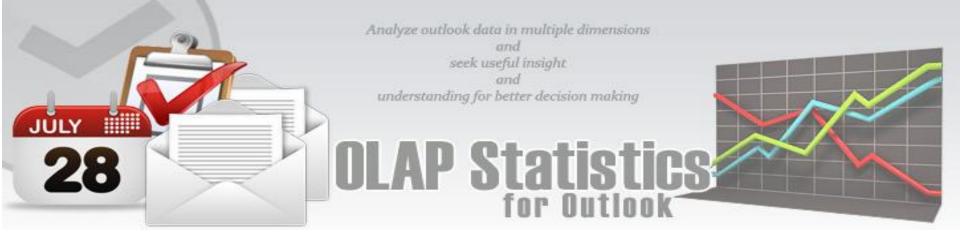
#### a. Selecting some of the Chart points



b. Selecting the Filter command

#### c. The result

Note: When moving the mouse cursor over a data axis, you are able to select a continuous range of members (if the axis is composed of them) or a range of values in Charts.



#### **Filtering hierarchies**

In case you need to collect data not from the whole Grid, but just from a part of it, the component has a few functions at your disposal: they let you select or remove elements from the slice. Also, there is a standard option of exporting data into a number of formats and printing out the content of OLAP-slices.

The simplest way of selecting data is through the context menu. When you click a hierarchy member on the Cube axis, there is a set of commands for quick operations with members:

- Hide this member
- Hide all members except this
- Hide all members above this
- Hide all members below this

#### Filter on hierarchy level

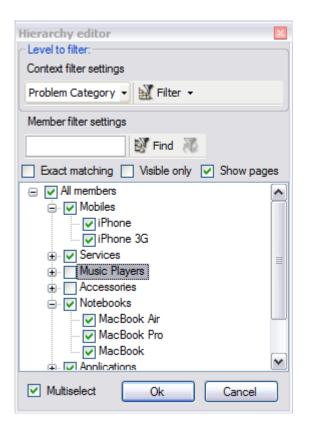
The Filter area of the Editor becomes visible only in case if filtering by hierarchy levels is available. To apply a filter to hierarchy members, you need to select a hierarchy level (if there's more than one) and assign the Filter condition in the Filter menu. In the same menu, there's a command to clear filter.

#### Filtering hierarchy members

If the search field is not empty, the "Find" command will make the component perform a search for hierarchy members, whose levels contain the specified string. You can narrow the search results by checking the "Exact matching" box.

#### Filtering a single member of a hierarchy

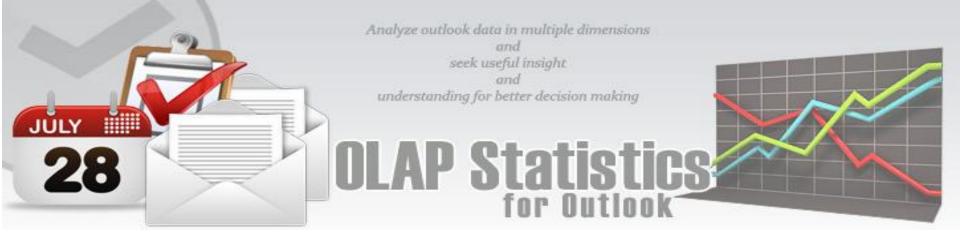
By default, the Editor is able to select any number of hierarchy members. To switch to the single-select mode, uncheck the "Multiselect" box. In that case, only one the hierarchy member with all its parents and members will be selected.



#### **Filtering measures**

There is a number of available parameters for filtering measures. In the same Editor, you can clear the filter.

Filter on value (Cases)		X
Show items only meeting the following condition:		
Exceed	300	
Restricts: Aggregated values     Fact table values		
	Ok Clear filter Cancel	]



#### 9. Visual Analysis with OLAP Chart

The visual OLAP-analysis is an advanced technology that creates graphical OLAP-data slices suitable for visual manipulation of data to reveal "hotspots", hidden interrelation between different kinds of data and form graphical reports. The screenshot below illustrates two ways of presenting the same data: textual and graphical, so that you can see the difference between them.

Category Y Sales Channel V			Bikes		Components
			Internet	Reseller	Reseller
Fiscal	v Fiscal	Fiscal v			
FY 2002	H1 FY 2002	Q1 FY 2002	\$1,453,522,89	\$2,921,481,29	\$248.561.74
		Q2 FY 2002	\$1,812,850.77	\$4,473,867.34	\$366,913.24
	H2 FY 2002	Q3 FY 2002	\$1,791,658.45	\$3,877,493,25	\$175,043.77
		Q4 FY 2002	\$2,014,012.13	\$3,745,692,19	\$375,245.57
FY 2003	H1 FY 2003	Q1 FY 2003	\$1,396,833,62	\$5,638,293.55	\$1,935,053,42
		Q2 FY 2003	\$1,327,799.32	\$5,634,535.68	\$1,123,748.72
	H2 FY 2003	Q3 FY 2003	\$1,413,530.30	\$4,605,977.35	\$450,073.29
		Q4 FY 2003	\$1,623,971.06	\$5.398.613.12	\$1,111,225.62
FY 2004	H1 FY 2004	Q1 FY 2004	\$2,569,678,24	\$7,933,502.82	\$2,521,508,59
		Q2 FY 2004	\$3,751,923.02	\$7,533,681.79	\$1,390,639,69
	H2 FY 2004	Q3 FY 2004	\$4,024,025.47	\$6,238,291.15	\$657,492,43
		G4 EY 2004	45 110 200 10	\$7 160 952 DA	41 411 519 49

Textual presentation of data is more precise, but seriously lacks clearness

The approximation of graphical presentation is easily compensated by its clearness

Graphical and textual OLAP-analysis is based on the same technology: presenting data in the form of OLAP-slice that can be pivoted (pivoting is rotation of the Cube), drilled, filtered, sorted or grouped. In addition to that, the graphical OLAP has its unique technologies, such as:

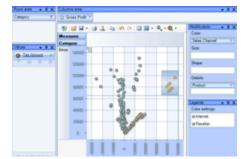
- Visual analysis and comparison of measures, using an adequate presentation of data;
- Revealing interconnections between measures in consideration of influential factors;
- Revealing clusters.



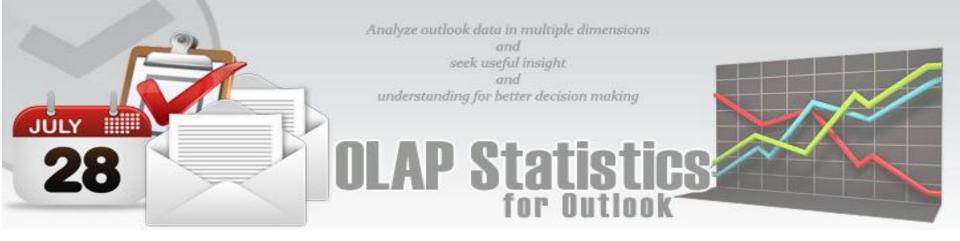
Visual comparison of two measures - Order Count and Order Quantity – in view of product categories by financial years.



Revealing correlation between Tax Amount and Gross Profit measures in view of the products divided into sales channels. As you can see, there is a clear correlation between these two measures for the products sold through the Internet, but there is none for those sold by resellers



Selection of the products that bring the most significant gross profit. Later we can apply a filter that will leave out only the elements of the selected area, or view and, if necessary, copy the information about the selected objects

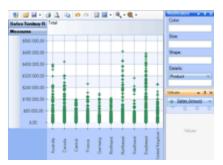


This is the easiest way of revealing hotspots in the analyzed data. With the correct way of graphic representation, an experienced analyst will evaluate the situation at a glance and make the necessary decision.





The summed up cost by products. The tree most significant regions are highlighted.

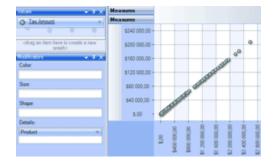


Density of distribution of the cost' summed results by department.

by half-years. Moving the mouse cursor over the point in the diagram, you can get the detailed information about it.

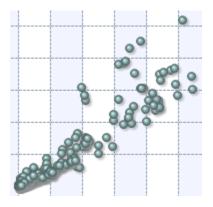
#### Revealing the interconnection between the measures in view of the inflectional factors

Using all the facilities of the graphic OLAP-analysis implies that you understand the methods of processing data OLAPslices. Placing different measure to the X and the Y axes lets you detect the correlation between the measures even with different detaining conditions. For such analysis of data, place one of the measures into the Rows area, and the second – into Columns. The detailing hierarchies are situated in the Color, Shape and Details areas. For example:

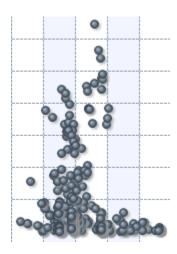


This chart presents a clear correlation between the Sales Amount and the Tax Amount measures in view of products (the Details axis), where the Tax Amount is directly proportional to the Sales Amount.

Analysis may reveal other correlation types, such as:



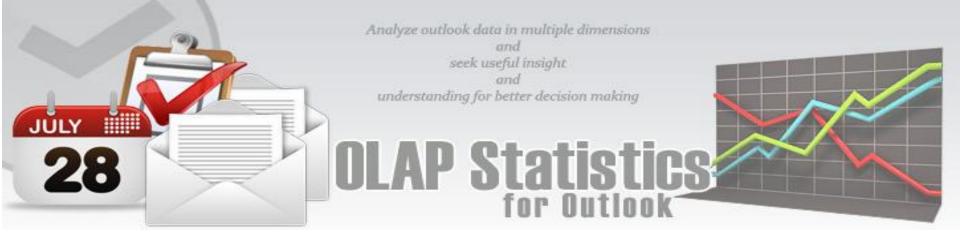
A fuzzy direct proportional relation



A fuzzy inversely proportional relation

No correlation

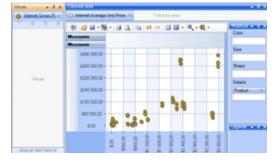
**OLAP Statistics and Reporting for Microsoft Outlook** 



#### **Revealing Clusters**

This type of analysis reveals groups of the detailed positions and their influence on the measure values.

For example, for the Internet Gross Profit and the Internet Average Unit Price measures in view of products, we get the following chart:

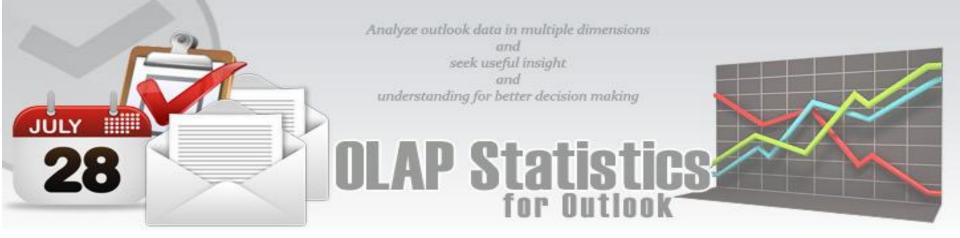


	Measures			
	Measures			
	\$480 000,00			•
	\$400 000,00			8
Show I	Underlying Data	Carlon and		
Category	Subcategory	Product	Internet Gross Profit	Internet Average Unit Price
likes	Mountain Bikes	Mountain-200 Silver, 38	444344,351	2319,990000000000
	Mountain Bikes	Mountain-200 Silver, 42	413313.236	2319.99
Silves.				
	Mountain Bikes	Mountain-200 Silver, 46	422802.5705	2319,99
Dives	Mountain Bikes Mountain Bikes	Mountain-200 Silver, 46 Mountain-200 Black, 38		2319.99 2294.99
Dikes Dikes Dikes Dikes			433891.6192	

As we can see, the points are grouped in clusters, within which they have approximately the same corresponding axis values. Select one of the groups and watch the information about the selected points (click the chart, after the area is selected, click the right button of the mouse and choose "Show Underlying data"):

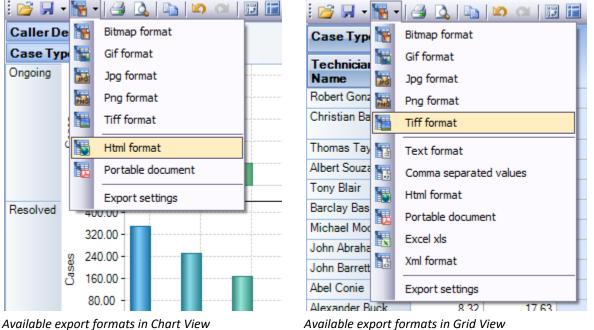


As we see, all the selected points have the same value in the "Product Category" and "Product Subcategory". Let's suppose all the other products are grouped according to the same principle. To confirm our idea, let's place the "Product Subcategory" to the color modifier and the "Product Category" – to the shape modifier.



#### **10.** Printing, exporting statistical data and charts

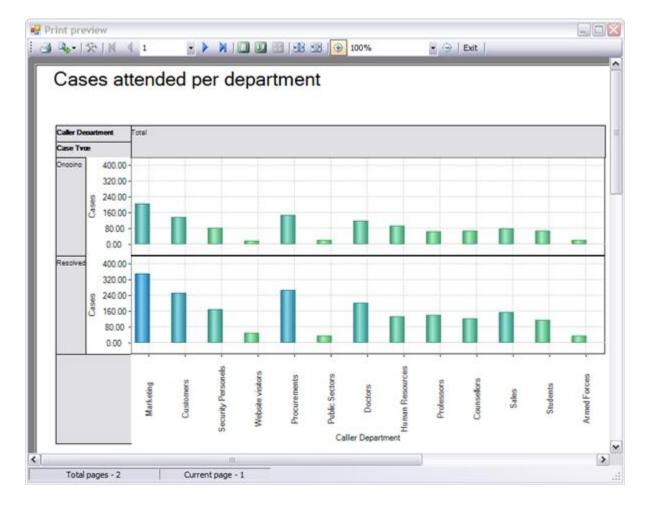
Now that you have successfully designed a report, you might want to save it for future reference or share it with others. Reuse your work! You can now save data snapshots to HTML, BMP, CSV, GIF, HTML, JPEG, PDF, PNG, TIFF, TXT, XLS and XML as a simple way of reusing your data for documents and spreadsheets. Depending on the active view (Grid or Chat), the saved file would either take the grid data or the chart.

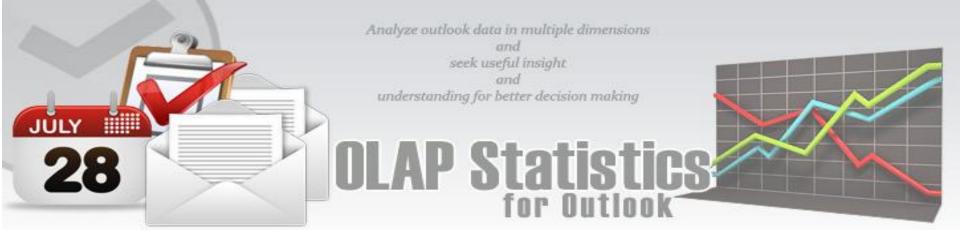


Available export formats in Chart View

#### Printing

You can print your report to share it with others using the built-in Print Preview window. You can tune your page/printer settings before printing. Also, if you feel like sharing the report through the net or by email you can easy export it to a wide range of formats including PDF, XLS, CSV, JPG, etc.





#### **Export Settings**

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This tool allows you to customize the appearance of the reports to be printed or saved to a file format. You can specify the page size, orientation, headers & footers and color of the fonts and page background.

Export settings			
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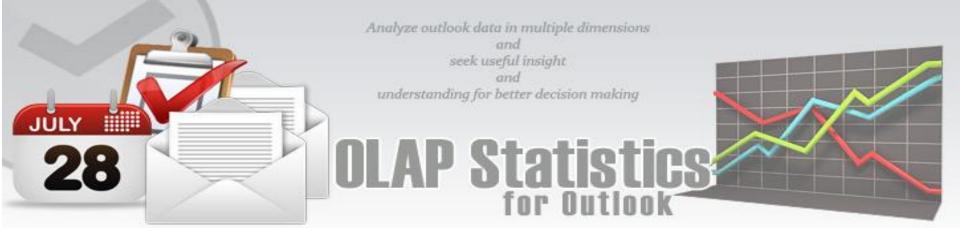
Paper size A4 210x297 mm

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Analyze outlook data in multiple dimensions and
seek useful insight and understanding for better decision making
28 OLAP Statistics
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Skins
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#### **11. Important links**

- <u>OLAP Statistics and Reporting for Outlook Home page</u> Go to the website.
- <u>Contact us</u> Ask us any question