

ESPocketBiz – Reporting Cubes

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Τεχνικό εγχειρίδιο

Ταυτότητα

Έκδοση κειμένου	2.0
Τελ. ενημέρωση	Ιούνιος 2021

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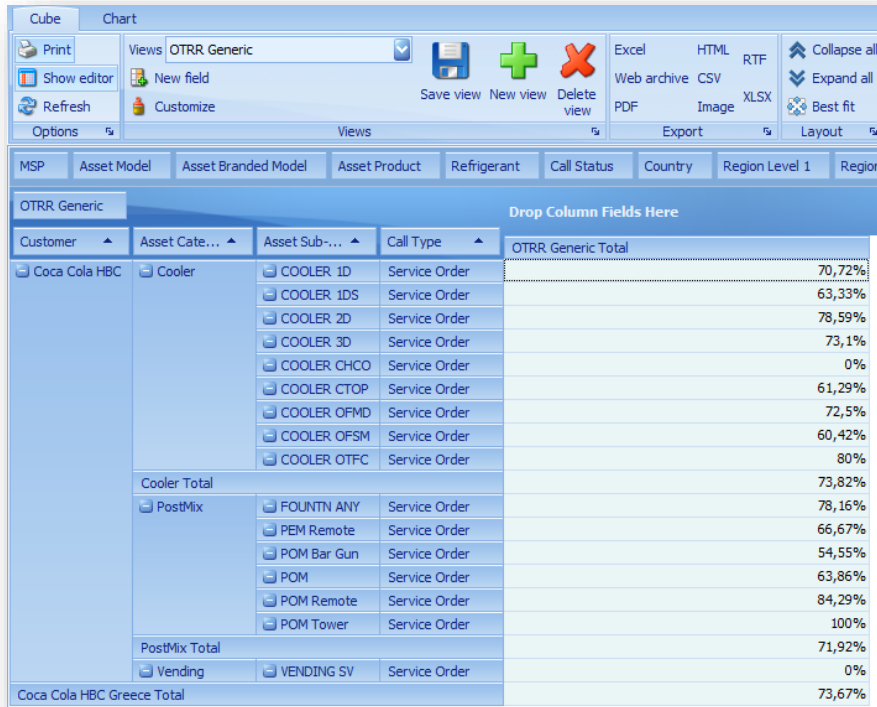
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1 General information

Analysis cubes, expand the reporting capabilities of PocketBiz and allowing dynamic data analysis. A cube is a multidimensional structure defined by its measures (facts) and dimensions. You can think of a measure as a data field, while a dimension can be represented by a column field or a row field.

The cube format is as follows:



The screenshot shows the 'OTRR Generic' cube view. The interface includes a menu bar with options like Print, Show editor, Refresh, Options, Views, Save view, New view, Delete view, Export, and Layout. Below the menu, there are tabs for different dimensions: MSP, Asset Model, Asset Branded Model, Asset Product, Refrigerant, Call Status, Country, Region Level 1, and Region. The main area displays a table with columns for dimensions and a measure. The dimensions are Customer, Asset Category, Asset Sub-category, and Call Type. The measure is OTRR Generic Total. The table shows data for Coca Cola HBC, including various cooler and postmix models, and their respective percentages.

Customer	Asset Category	Asset Sub-category	Call Type	OTRR Generic Total
Coca Cola HBC	Cooler	COOLER 1D	Service Order	70,72%
		COOLER 1DS	Service Order	63,33%
		COOLER 2D	Service Order	78,59%
		COOLER 3D	Service Order	73,1%
		COOLER CHCO	Service Order	0%
		COOLER CTOP	Service Order	61,29%
		COOLER OFMD	Service Order	72,5%
		COOLER OFSM	Service Order	60,42%
		COOLER OTFC	Service Order	80%
	Cooler Total			73,82%
	PostMix	FOUNTAIN ANY	Service Order	78,16%
		PEM Remote	Service Order	66,67%
		POM Bar Gun	Service Order	54,55%
		POM	Service Order	63,86%
		POM Remote	Service Order	84,29%
		POM Tower	Service Order	100%
	PostMix Total			71,92%
	Vending	VENDING SV	Service Order	0%
Coca Cola HBC Greece Total				73,67%

The cube offers great flexibility to end users because they can easily change the dimensions shown on the horizontal and vertical axis and define filters to the data displayed. So, the elements of the cube are the dimensions and facts.

1.1 Dimensions

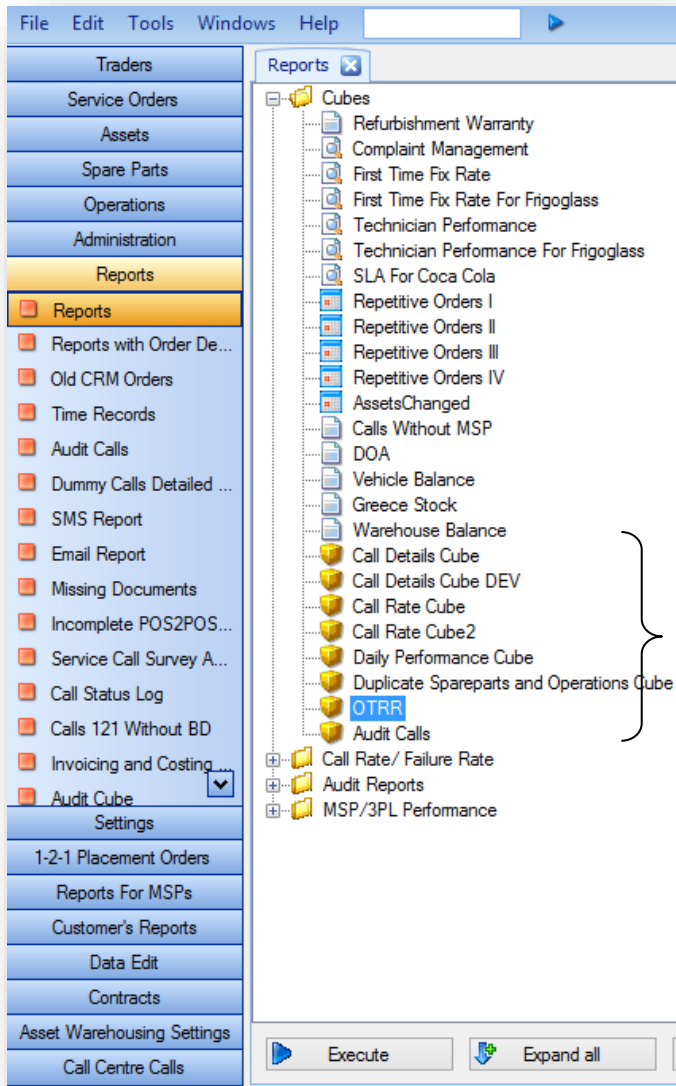
Dimensions are the characteristics of the data that we see, for example, sales dimension are the customer, date, vendor, etc.

1.2 Facts (measures)

Fact is the measured data, eg the value, the quantity, that data can be aggregated.

2 How to view a cube

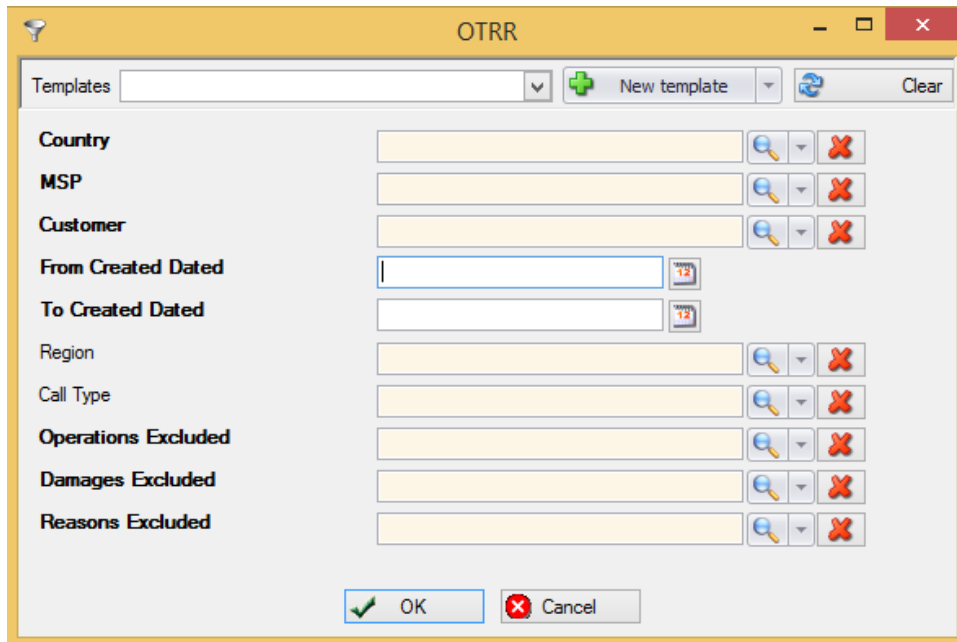
To access a reporting cube, from the left PocketBiz menu, choose **Reports / Reports**. When the Reports tab opens, press double click on the preferred cube report.



A sample list of available reporting cubes. Cubes have the  icon, left of their description.

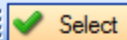
2.1 Parameters (filters data)

Before we start the analysis for this report (cube) we have to check the parameter set that are required for this report.



The previous screenshot illustrates the set of parameters that the user have to fill in order to run successfully the report. All **Bolded** parameters are **required**.

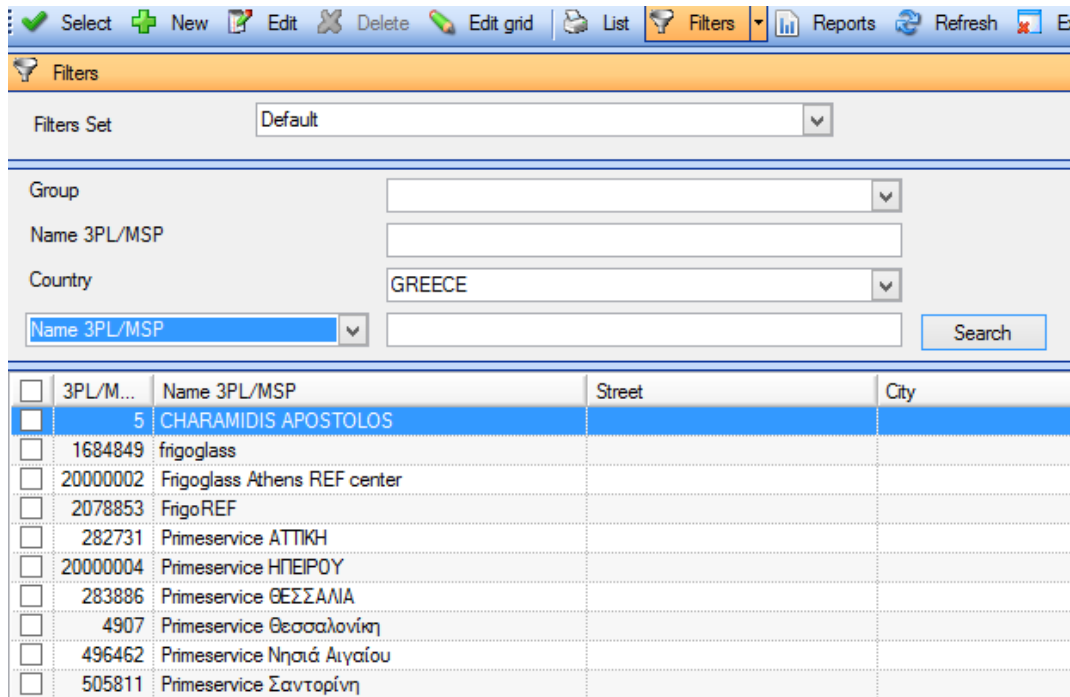
Pressing the  in the **Country** field, a list of available countries are shown and given for option. The same happens with every parameter has the magnifier icon.

      				
☐	Cou...	Country Code	Country Description	Time Zone Difference
☒	1	GRE	GREECE	3
☒	2	CY	CYPRUS	3
☐	3	ROM	ROMANIA	3
☐	4	RUS	RUSSIA	3
☐	5	BG	BULGARIA	3
☐	6	NG	NIGERIA	1
☐	7	RS	SERBIA	2
☐	8	MNE	MONTENEGRO	2
☐	9	KO	KOSOVO	2

We can **check** all the Countries we want and then by pressing “**Select**” button we will populate the next parameters by the same way.

With the button  we can delete the specific row value of the parameter.

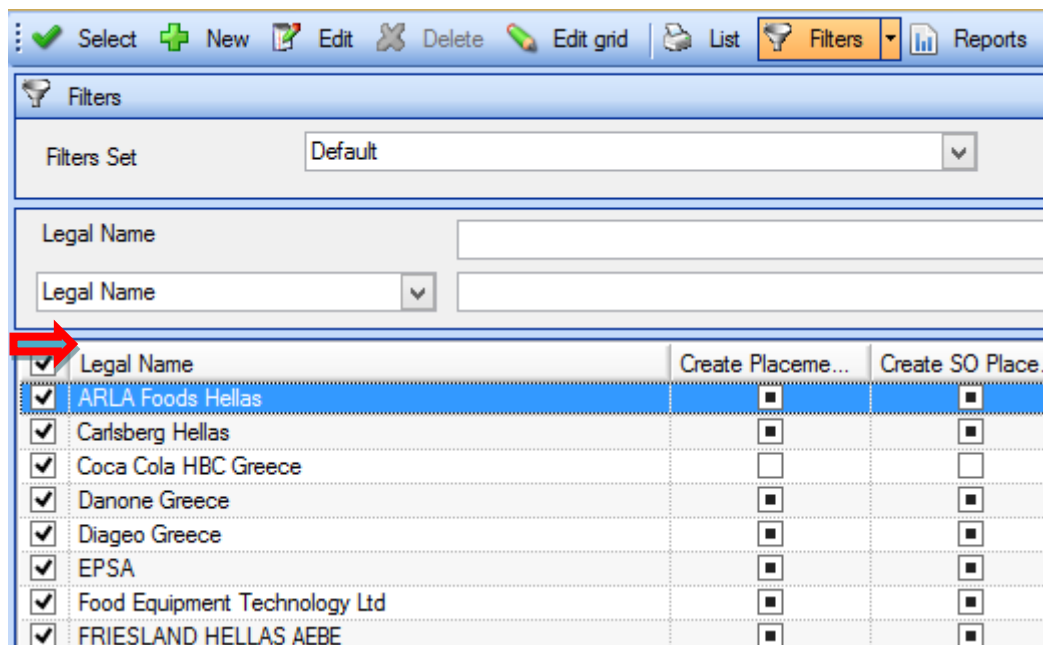
When we select to populate MSP or Customer field parameters, (due to the large number of records) a screen like the following pops up.



3PL/M...	Name 3PL/MSP	Street	City
5	CHARAMIDIS APOSTOLOS		
1684849	frigoglass		
20000002	Frigoglass Athens REF center		
2078853	FriGoREF		
282731	Primeservice ΑΤΤΙΚΗ		
20000004	Primeservice ΗΠΕΙΡΟΥ		
283886	Primeservice ΘΕΣΣΑΛΙΑ		
4907	Primeservice Θεσσαλονίκη		
496462	Primeservice Νησιά Αιγαίου		
505811	Primeservice Σαντορίνη		

The difference is that the list of data is primarily empty. We have to filter the results by populating the available filters above the list and then press the **“Search”** button. Of course we can press the Search button without filtering.

Then, we can check the preferred records or all the records in the list by checking the box in the header line.

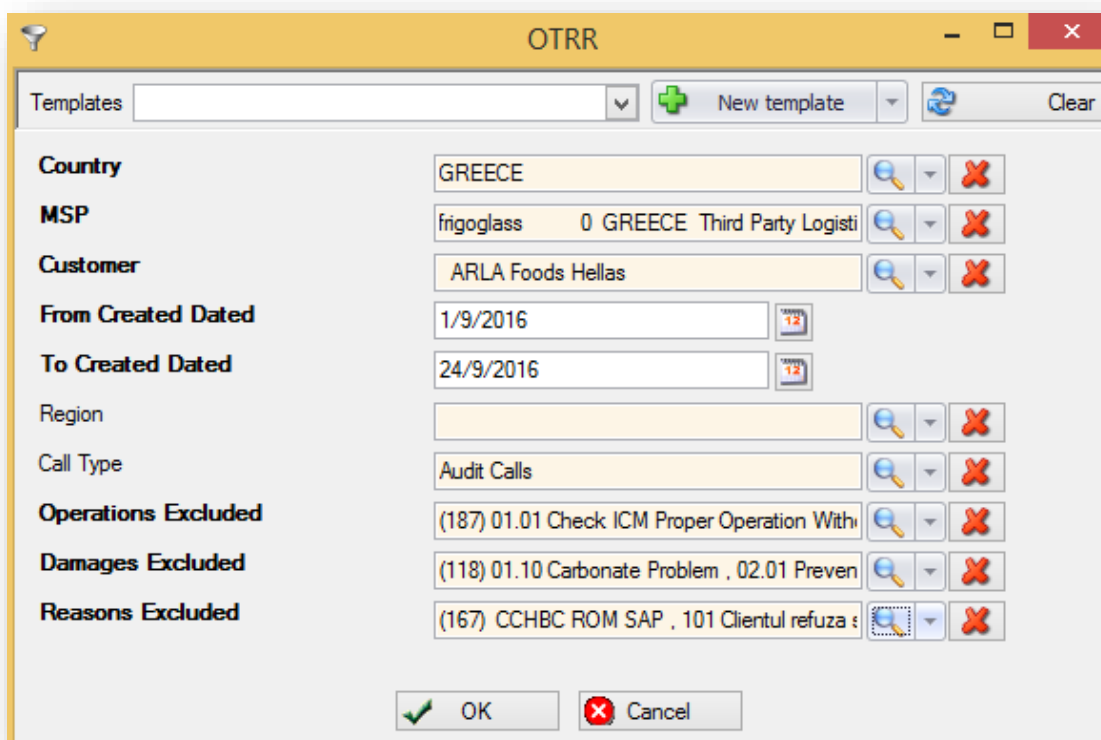


Legal Name	Create Placeme...	Create SO Place...
☒ ARLA Foods Hellas	☐	☐
☒ Carlsberg Hellas	☐	☐
☒ Coca Cola HBC Greece	☐	☐
☒ Danone Greece	☐	☐
☒ Diageo Greece	☐	☐
☒ EPSA	☐	☐
☒ Food Equipment Technology Ltd	☐	☐
☒ FRIESLAND HELLAS AEBE	☐	☐

Notice, that the **filtering is cumulative**. This means that if we choose Country:GREECE, when we click in MSP, we will see only MSP's for Greece. And if we choose MSP:Frigoglass, when we click in Customer, we will see only GREECE:FRIGOGLASS: customers.

Whats more, there are two (type of date) drop down list: **From - To Created Date**. In parameters *From/To Date* the user must set a date period within he/she wants to look the exported results.

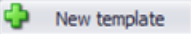
In the optional parameter which name is *Call type*, the user have to define the call types that he/she wants to see in the exported results.

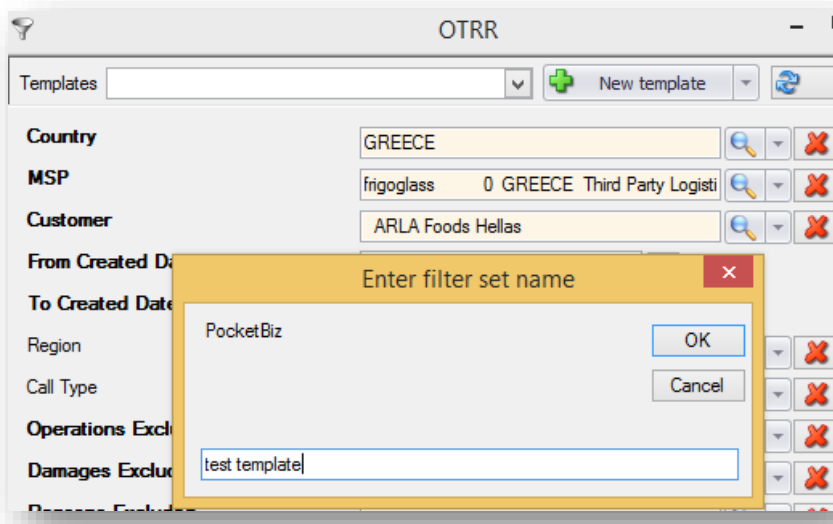


The  Clear button, clears all the fields in the parameters form.

2.1.1 Parameters Templates

2.1.1.1 New template

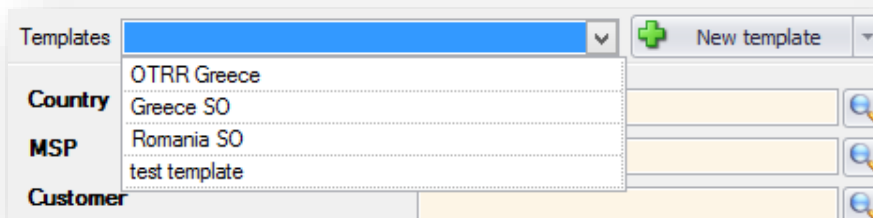
For time saving, if we have to give the same parameters regularly, we could save them in a template by pressing the **New** template button 



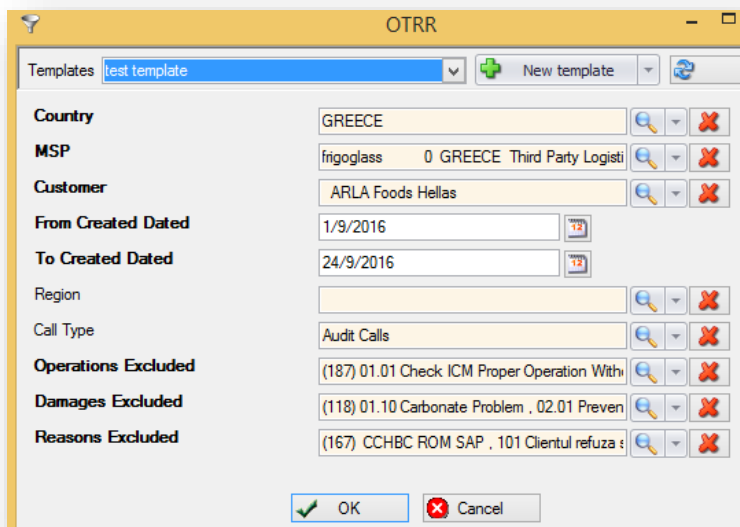
We have to give a name for this template and answering OK to the next question, if we want this template to be available to all users.

2.1.1.2 Choosing templates

We can choose to load a parameter template (specific saved values) from the drop down list named **Templates**.



After a while all fields will be populated with saved values as shown below:



The screenshot shows the OTRR window with the following fields and values:

Field	Value
Country	GREECE
MSP	frigoglass 0 GREECE Third Party Logisti
Customer	ARLA Foods Hellas
From Created Dated	1/9/2016
To Created Dated	24/9/2016
Region	
Call Type	Audit Calls
Operations Excluded	(187) 01.01 Check ICM Proper Operation With
Damages Excluded	(118) 01.10 Carbonate Problem , 02.01 Preven
Reasons Excluded	(167) CCHBC ROM SAP , 101 Clientul refuza s

Buttons: OK, Cancel

2.1.1.3 Delete or Edit templates

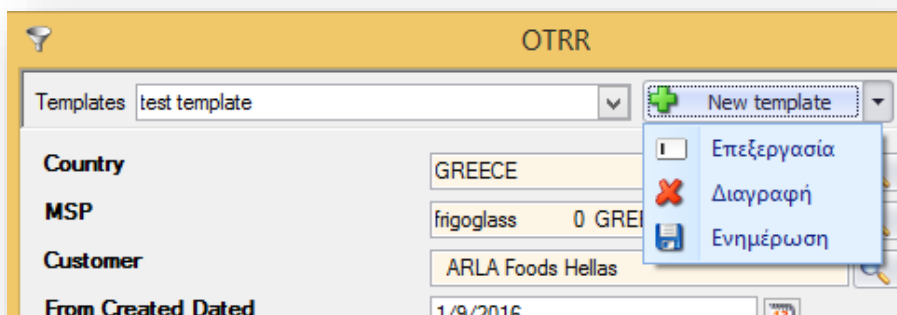
By clicking the arrow, right of the “New template” button a drop down list with 3 option appears: Edit (Please don’t use - for administrative purposes),



Delete (delete the current template, its name appears left),



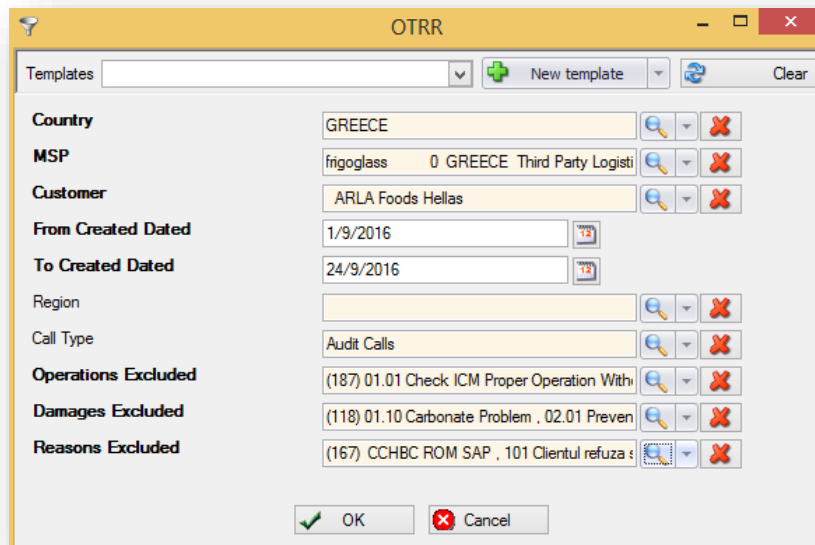
Update (saves the current changes to the current template)



The screenshot shows the OTRR window with the dropdown menu open for the 'New template' button. The menu options are:

- Επεξεργασία (Edit)
- Διαγραφή (Delete)
- Ενημέρωση (Update)

2.1.2 OTRR cube Parameters



The **OTRR (On Time Response Rates) Report**, shows a calculated percent rate (OTRR fact)

firstly aggregated per Customer, Asset Category, Asset SubCategory and Call Type

The formula varies by Country.

Note: you can see the full actual Generic expression at the end of the manual.

These entities should be included in the criteria fields (parameters):

Country: Countries (Greece, Romania etc)

MSP: Maintenance Service Providers (Frigoglass, PEK Russia etc)

Customer: Customers (CCHBC ROM, Frigoglass Servia etc)

From Created Dated: Call Creation Date (from)

To Created Dated: Call Creation Date (to)

Region: Regions L1 (16384 etc) - optional

Call Type: Call types (121 Placement, Audit etc) - optional

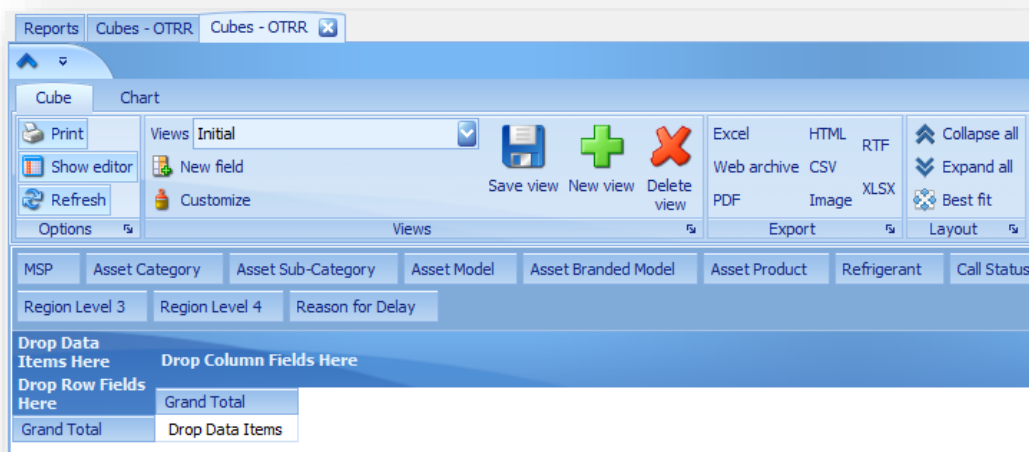
Operations Excluded: Operations list excluded from the results

(01.03 wrong call etc)

Damages Excluded: Damages list excluded from the results (01.10 carbonate problem etc)

Reasons Excluded: Reasons list excluded from the results (Asset not present etc)

Finally, we press the **OK** button and the following screen appears:



There is no data yet in the grid, cause the next step is the data layout creation.

2.2 Ribbon toolbar

In this section we will explain the four areas of the upper “ribbon toolbar”.



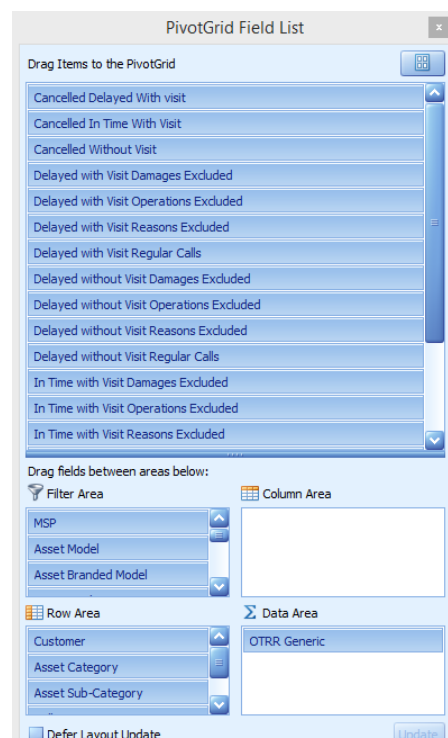
2.2.1 Options

Print: Opens a customizable print preview for printing, saving, emailing the data with current data layout.

Refresh: Refresh the data of the cube from the server. Please note, that Data are updated until the previous day.

Show editor: by clicking “Show Editor”, the PivotGrid Field List appears as the right screenshot:

For more information, see chapter Data Layout

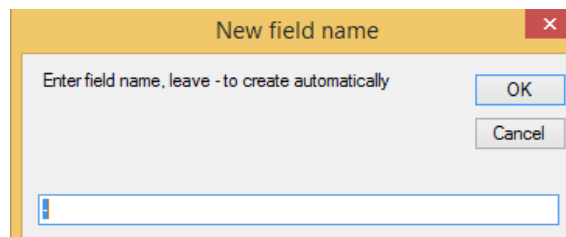
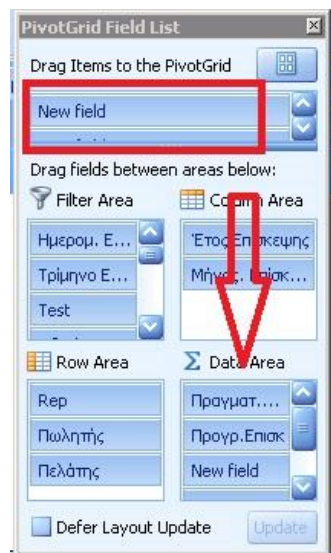


2.2.2 Views

User can create and use multiple custom views. A view is a saved snapshot of specific display setting of the Data Layout.

Views: allows to choose a specific saved view

New field: allows to create a new field with optional naming:



After its creation, it appears in filter area.

By right click on it, we can open the **Expression Editor**.. to customize it, as described in the Expression Editor chapter.

After the window of PivotGrid Field List opens, we drag and drop this field into Data Area.

Customize: customize the cube for example the appearance of data (%)

Save view: save changes of current view

New view: save changes of data layout to a new custom named view

Delete view: deletes current view

2.2.3 Export

Exports data with current layout to various file formats like Excel, Web archive, PDF, HTML, CSV, Image, RTF, XLSX

2.2.4 Layout

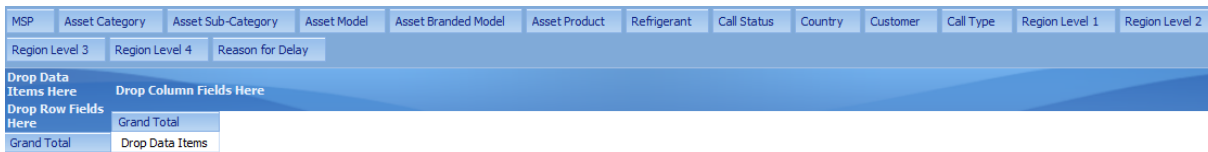
Collapse all: Hides all detail rows, displays only a row with total

Expand all: Opposite of collapse all, displays all detail rows

Best Fit: provides the ability to automatically calculate and apply the optimal width required for a column to display its entire content by changing the columns width to biggest data value, without blanks.

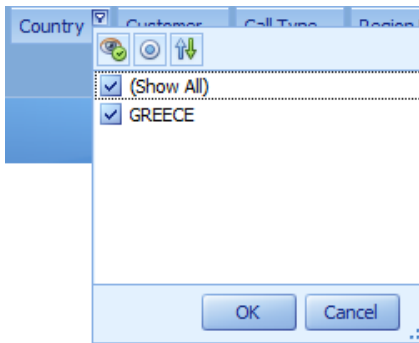
2.3 Data Layout

As we can see the empty data grid has the name “**Initial**” in the **Views** field. **Initial View** means that it has no data layout set.



Above “drop” prompts in the **Filter Area**, there are the **available fields** for dropping.. like MSP, Asset Category etc.

By the way, if we put the cursor over a field (eg Country) a filter funnel appears. With click on it, a drop down list shows the values we choosed prior in the Parameters (eg only Greece value choosen). So this is an “**extra RUNTIME**” **filtering**, maybe not so usefull. You can also invert filtering with an icon above.



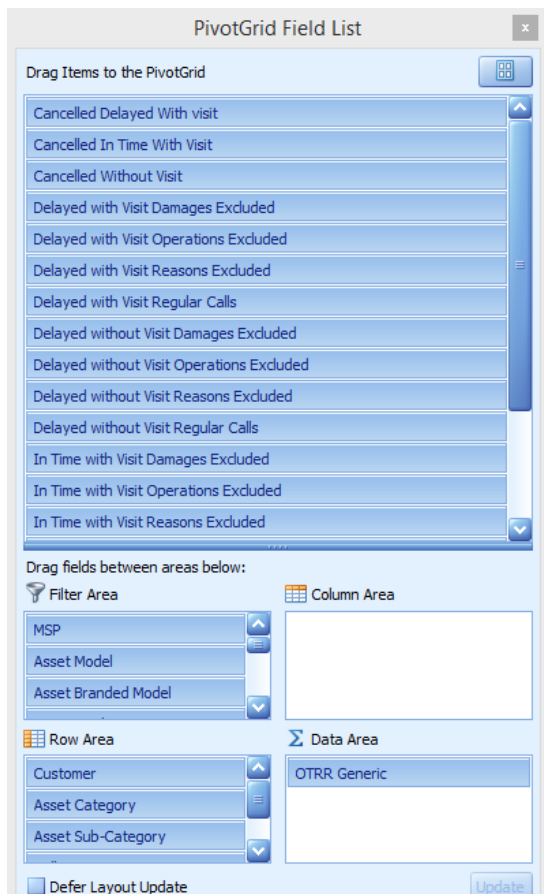
2.3.1 Data Layout Configuration

To configure the Data Layout there are two ways:

the editor, by clicking the Show Editor button and manually with drag & drop the fields to data areas.

2.3.1.1 Show Editor

When user clicks the Show Editor button, a screen like Excel Pivot table as below appears:



In the **upper** window there are all available measurement fields we could drag and drop in the lower Layout section.

To drag a field to the area that you want, click and hold the field name in the field section, and then drag it to an area in the layout section.

Use the areas section of the PivotGrid Field List to rearrange fields the way you want by dragging them between the four areas.

You can also rearrange their order in the same area, by dragging them to the position you want. To delete a field from the PivotGrid, drag the field out of its areas section.

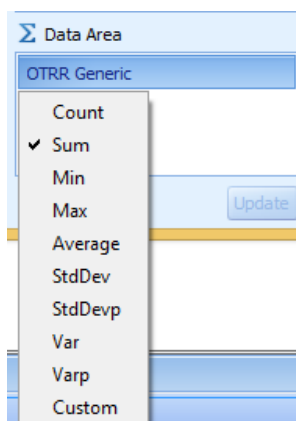
The layout section contains the Report Filter area, the Column Area, the Row Area, and the Data Area.

Filter Area: The report filter is used to apply a filter to the entire DataGrid. The filter was created already in Parameters (previous step)

Column Area: The Column Area works just like the Row Area. It lists the unique values of a field in the PivotGrid. The only difference, is that it lists

the values across the top Row. Every field that exists in this area will displays its data as column.

Row Area: The Rows Area of the PivotGrid is where we typically start when building the outline of our report. When we drag a field into the Rows area, all the unique values in that field will be displayed in the first column. The PivotGrid removes all the duplicates in the field and only displays the unique values.



Data Area: The Data Area displays the data (values) that we want to summarize in our cube report. When we drag a field into the Data Area, the PivotGrid will automatically **sum or count** the data in that field. If the data in the field contains numbers, then the sum will be calculated. If the data contains text or blanks, then the count will be calculated.

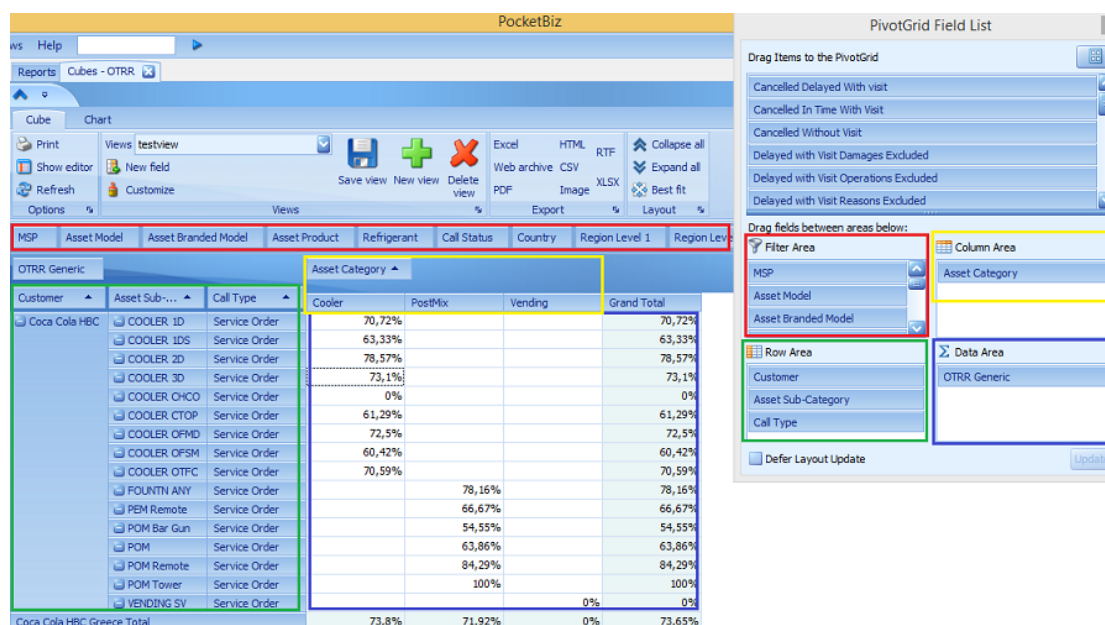
The calculation type can be changed later to other functions like Average, Max, Min, etc. (click on the desired field and a list of available functions appears - with a tick selection in front of current function)

Defer Layout Updates (Performance tip): When you need to remove/add multiple elements in a report, you can choose not to update the grid after each change, but only after you have completed all changes. This can be done with checking this option before starting and then clicking on the

Update button after you are done with your changes.

When this checkbox is checked, the “Update” button next to it becomes enabled, and now you can add, remove and move fields around without the Pivot updating itself. When you are done arranging fields, you press the Update button, and the grid does one and only one update.

The following screen using colored boxes, shows where each area of the PivotGrid is located on the report. This can be used as a guide to familiarize yourself with the different areas.



The screenshot shows the PocketBiz application interface. The main window displays a PivotGrid report for 'OTRR Generic'. The report is structured with columns for 'Customer', 'Asset Sub-Category', 'Call Type', 'Cooler', 'PostMix', 'Vending', and 'Grand Total'. The data is filtered by 'Coca Cola HBC'. The PivotGrid Field List pane on the right shows the fields being used: 'MSP', 'Asset Model', 'Asset Branded Model', 'Asset Category', 'Customer', 'Asset Sub-Category', and 'Call Type'. The fields are organized into four areas: Filter Area (red box), Column Area (yellow box), Row Area (green box), and Data Area (blue box). The 'Defer Layout Update' checkbox is checked, and the 'Update' button is visible.

Customer	Asset Sub-Category	Call Type	Cooler	PostMix	Vending	Grand Total
Coca Cola HBC	COOLER 1D	Service Order	70,72%			70,72%
	COOLER 1DS	Service Order	63,33%			63,33%
	COOLER 2D	Service Order	78,57%			78,57%
	COOLER 3D	Service Order	73,11%			73,11%
	COOLER CHCO	Service Order	0%			0%
	COOLER CTOP	Service Order	61,29%			61,29%
	COOLER OFMD	Service Order	72,5%			72,5%
	COOLER OFSM	Service Order	60,42%			60,42%
	COOLER OTFC	Service Order	70,59%			70,59%
	FOUNTAIN ANY	Service Order		78,16%		78,16%
	POM Remote	Service Order		66,67%		66,67%
	POM Bar Gun	Service Order		54,55%		54,55%
	POM	Service Order		63,86%		63,86%
	POM Remote	Service Order		84,29%		84,29%
	POM Tower	Service Order		100%		100%
	VENDING SV	Service Order			0%	0%
Coca Cola HBC Greece Total			73,8%	71,92%	0%	73,65%

Next, there are two views demonstrate a difference in the configuration layout.

In the view: **testview**, the field “Asset Category” is in the **Column Area** instead of the view: **OTRR Generic** where it is in the **Row Area**.

Print

Show editor

Refresh

Views

testview

Save view

New view

Delete view

Excel

Web archive

PDF

HTML

CSV

Image

RTF

XLSX

Best fit

Collapse all

Expand all

Options

Views

Export

Layout

MSP

Asset Model

Asset Branded Model

Asset Product

Refrigerant

Call Status

Country

Region Level 1

Region

OTRR Generic

Asset Category

Customer	Asset Sub-Category	Call Type	Cooler	PostMix	Vending	Grand Total
Coca Cola HBC	COOLER ID	Service Order	70,72%			70,72%
	COOLER IDS	Service Order	63,33%			63,33%
	COOLER 2D	Service Order	78,57%			78,57%
	COOLER 3D	Service Order	73,1%			73,1%
	COOLER CHCO	Service Order	0%			0%
	COOLER CTOP	Service Order	61,29%			61,29%
	COOLER OFMD	Service Order	72,5%			72,5%
	COOLER OFSM	Service Order	60,42%			60,42%
	COOLER OTFC	Service Order	70,59%			70,59%
	FOUNTN ANY	Service Order		78,16%		78,16%
	PEM Remote	Service Order		66,67%		66,67%
	POM Bar Gun	Service Order		54,55%		54,55%
	POM	Service Order		63,86%		63,86%
	POM Remote	Service Order		84,29%		84,29%
	POM Tower	Service Order		100%		100%
VENDING SV	Service Order			0%	0%	
Coca Cola HBC Greece Total			73,8%	71,92%	0%	73,65%

Cancelled Without Visit

Delayed with Visit Damages Excluded

Delayed with Visit Operations Excluded

Delayed with Visit Reasons Excluded

Delayed with Visit Regular Calls

Delayed without Visit Damages Excluded

Delayed without Visit Operations Excluded

Delayed without Visit Reasons Excluded

Delayed without Visit Regular Calls

Drag fields between areas below:

Filter Area

MSP

Asset Model

Asset Branded Model

Column Area

Asset Category

Row Area

Customer

Asset Sub-Category

Call Type

Data Area

OTRR Generic

Defer Layout Update

Cube

Chart

Print

Show editor

Refresh

Options

Views

OTRR Generic

New field

Customize

Save view

New view

Delete view

Excel

HTML

Web archive

CSV

PDF

Image

Export

MSP

Asset Model

Asset Branded Model

Asset Product

Refrigerant

Call Status

Country

Reg

OTRR Generic

Drop Column Fields

Customer	Asset Category	Asset Sub-Category	Call Type	OTRR Generic Total
Coca Cola HBC Greece	Cooler	COOLER ID	Service Order	70,72%
		COOLER IDS	Service Order	63,33%
		COOLER 2D	Service Order	78,57%
		COOLER 3D	Service Order	73,1%
		COOLER CHCO	Service Order	0%
		COOLER CTOP	Service Order	61,29%
		COOLER OFMD	Service Order	72,5%
		COOLER OFSM	Service Order	60,42%
		COOLER OTFC	Service Order	70,59%
	Cooler Total			73,8%
	PostMix	FOUNTN ANY	Service Order	78,16%
		PEM Remote Carbonator	Service Order	66,67%
		POM Bar Gun	Service Order	54,55%
		POM Overcounter	Service Order	63,86%
		POM Remote Carbonator	Service Order	84,29%
PostMix Total			71,92%	
Vending	VENDING SV	Service Order	0%	
Coca Cola HBC Greece Total				73,65%

Cancelled in time with visit

Cancelled Without Visit

Delayed with Visit Damages Excluded

Delayed with Visit Operations Excluded

Delayed with Visit Reasons Excluded

Delayed with Visit Regular Calls

Delayed without Visit Damages Excluded

Delayed without Visit Operations Excluded

Delayed without Visit Reasons Excluded

Delayed without Visit Regular Calls

Drag fields between areas below:

Filter Area

MSP

Asset Model

Asset Branded Model

Row Area

Customer

Asset Category

Asset Sub-Category

Data Area

OTRR Generic

Defer Layout Update

Notice, that there is also a **Total Row** for every field in the Row Area and a **Grand Total Row** at the end.

A simple drag & drop by the user, moves the selected field to different areas inside the PivotGrid Field List or outside - in the main interface.

So we can just drag & drop a field without using the PFL into an empty area (with messages like “Drop data items here”, “Drop Row fields here”, “Drop Column fields here”, “Drop Data Items”) or near to an existing field.



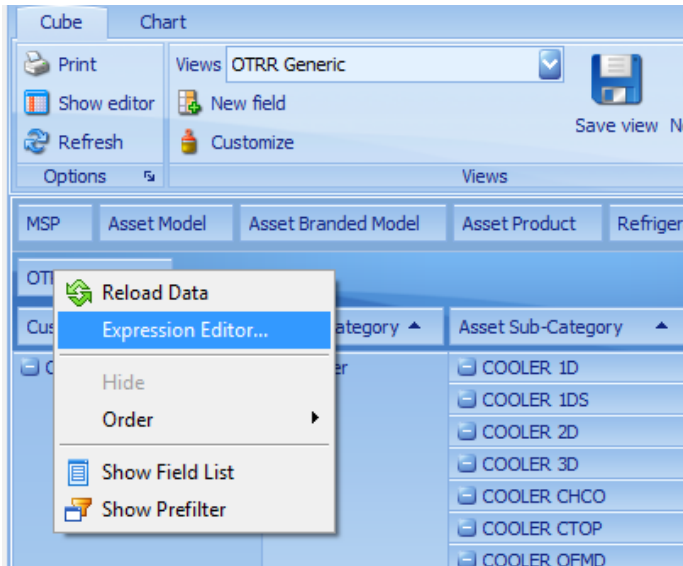
We can click on the  buttons to **Expand / Collapse** the specific data group, or the icon  to **Sort** the data ascending /descending on the specific column.



There is also an arrow button in the upper left corner . It collapse or expand the Ribbon toolbar.

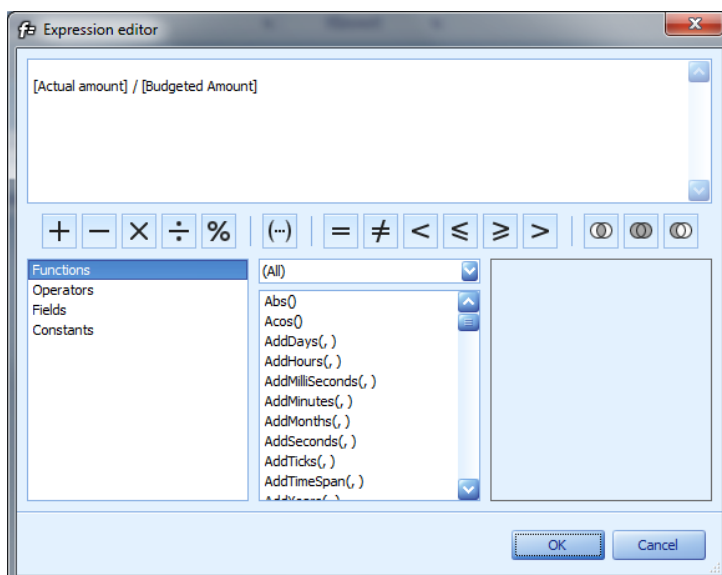
2.3.2 Expression editor

With right-click on a calculated field and select «Expression Editor» or with click to “new field” button and choose «Expression Editor», we can write any expression we want for this field.



Lets suppose that we have two facts, Actual Amount and Budgeted and we want to create a percent column (what percentage of the budgeted amount has been reached).

We wrote the following:

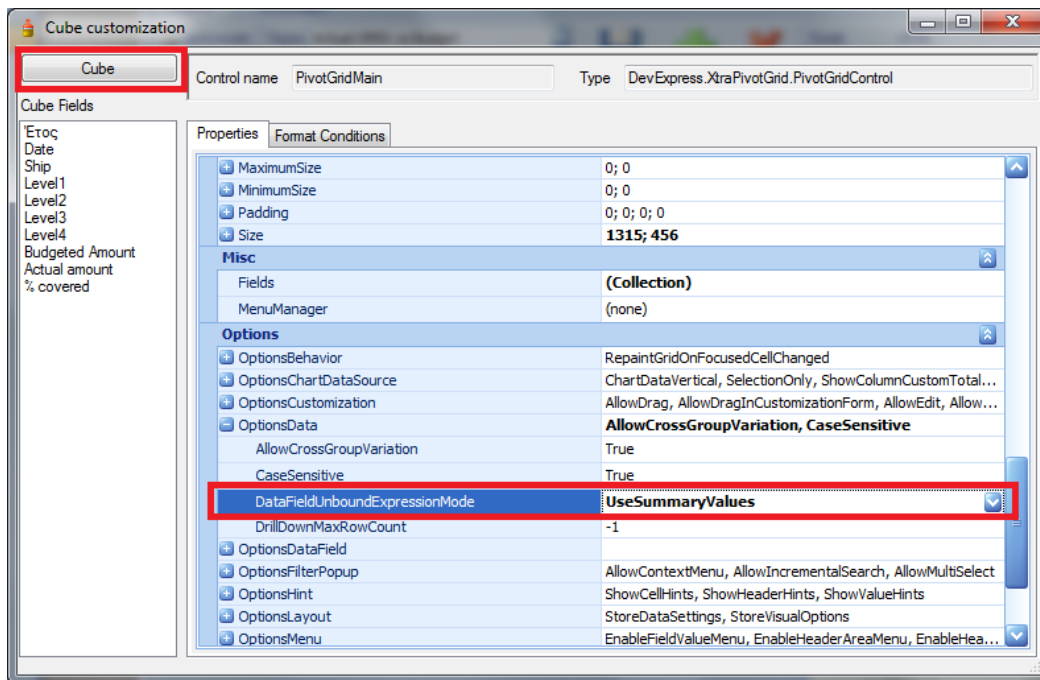


In the upper area we build the expression by clicking on Functions, Operators, Fields, Constants from the lower areas, or just typing...

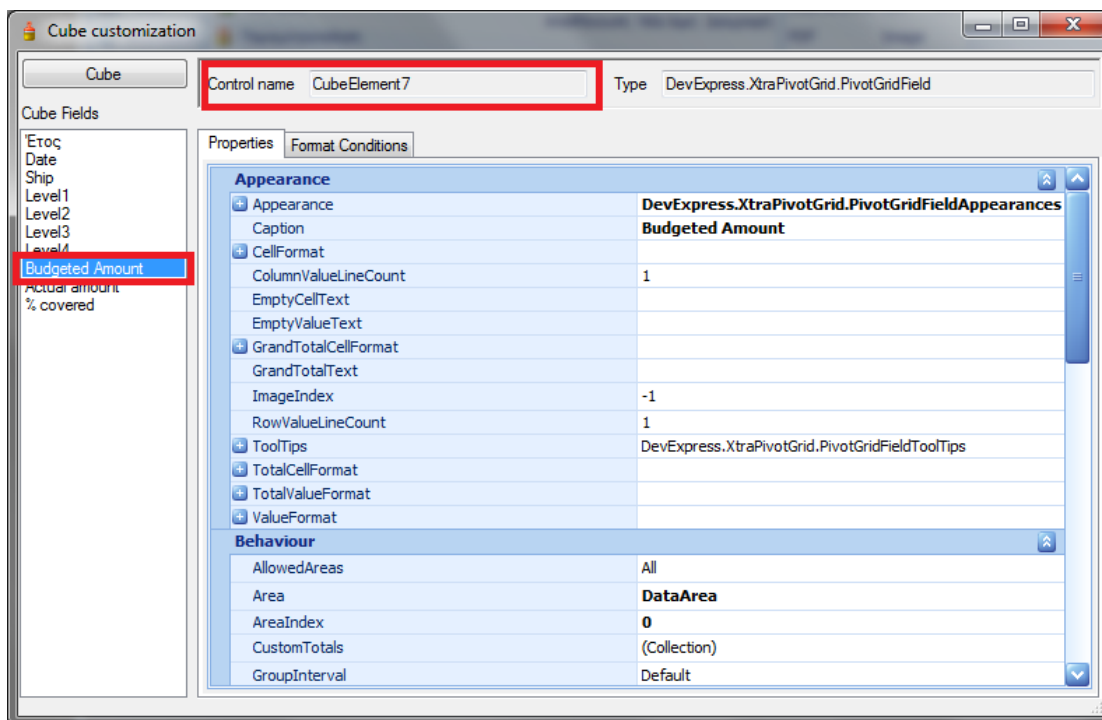
Field names must be in brackets [].

2.3.3 Customize cube

To properly display the percentage in the groups, must be set in the properties of the specific field of the cube (customize button), the option **"UseSummaryValues"**:

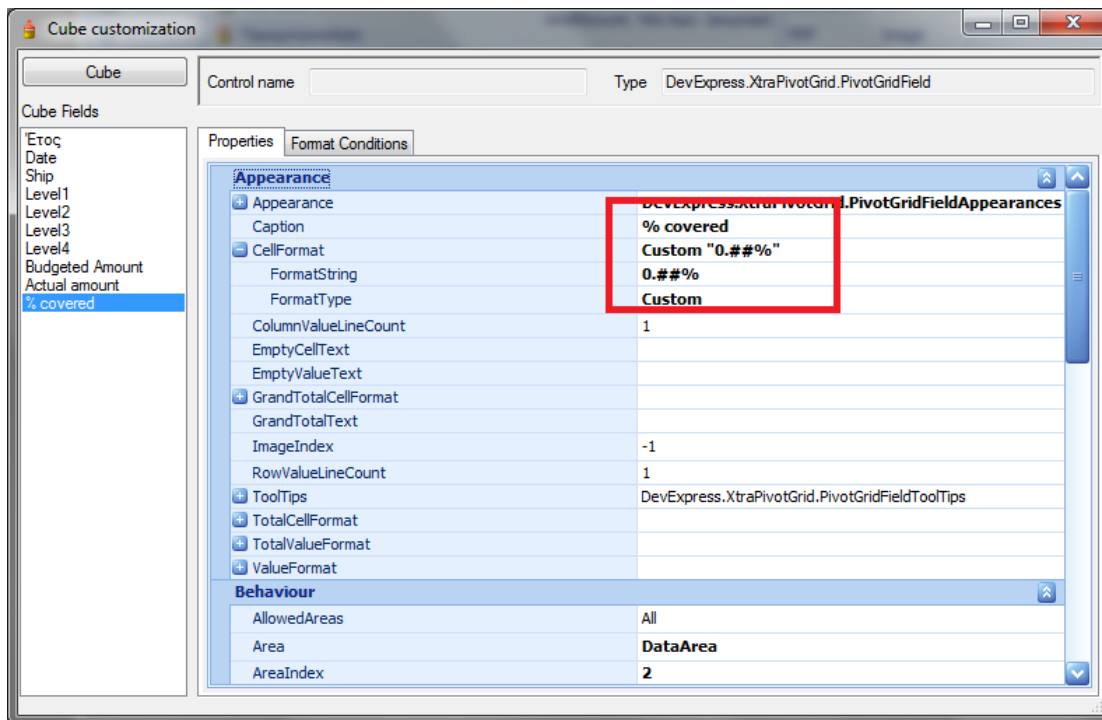


Also, after you enable the "UseSummaryValues" should write the fields using their "technical" name. This is shown at the top of the screen:

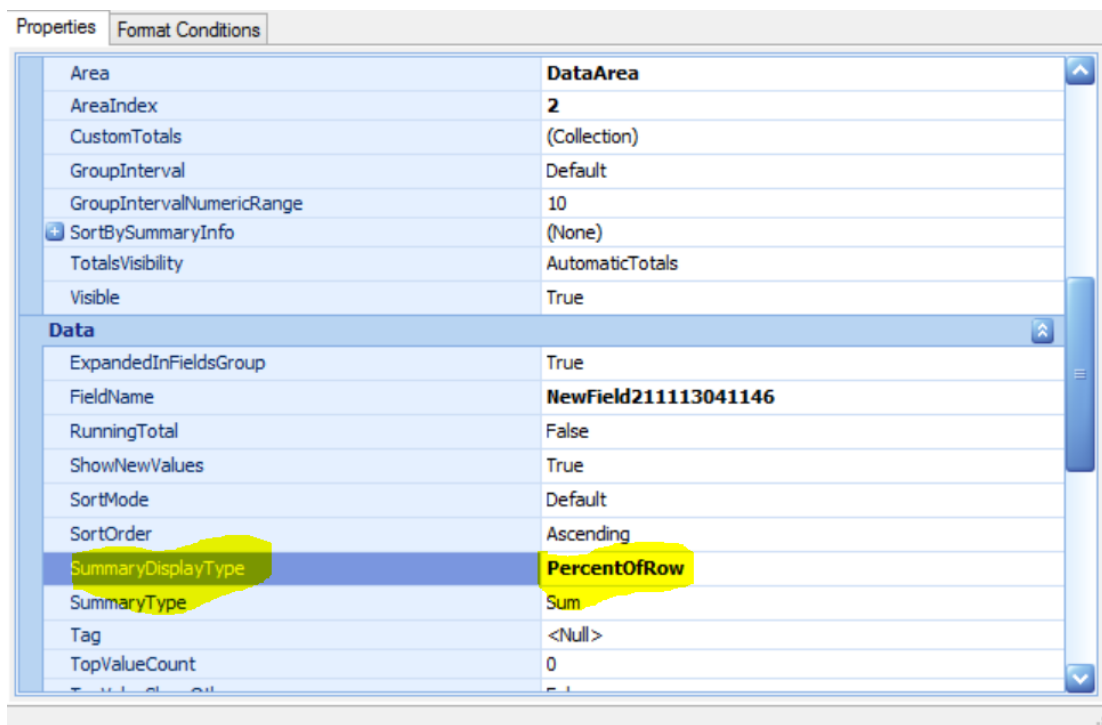


So you should write: Cube Element 8 / Cube Element 7.

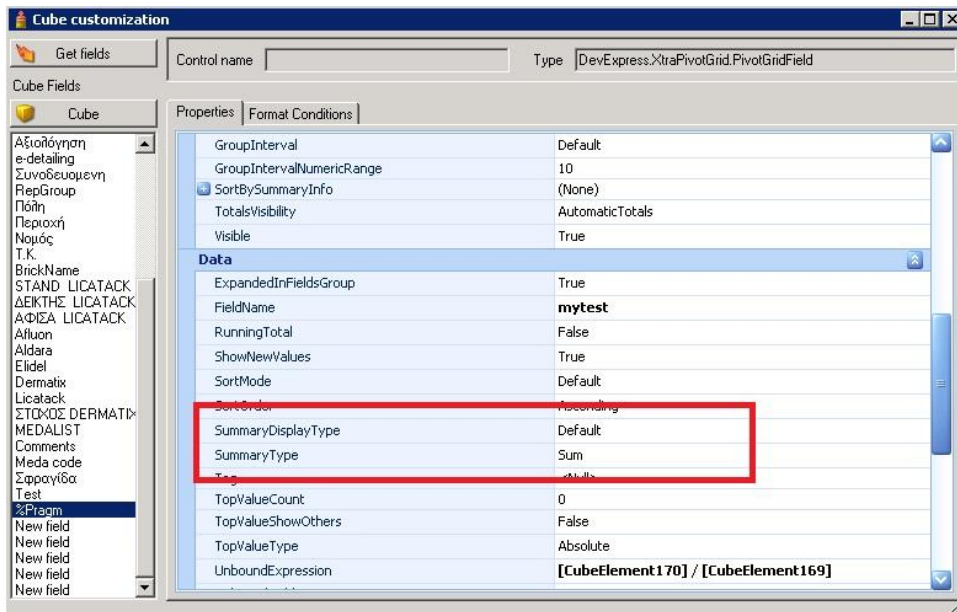
Then you have to format the column as a percentage:



If you want to set a measurable as a percentage of the total, then you should use the option **SummaryDisplayType** at the properties of the measurable:



Alternatively, use the **default** option.



2.4 OTRR Generic field expression

Below as example, is the actual **[OTRR Generic]** field expression $((x1+x2..)/\text{if}((x1+y1+x2+y2..)=0,1,(x1+y1..+x2+y2..)))$ where $x=\text{in time}$, $y=\text{delayed or}$

(ClosedInTime + Canceled InTimewithvisit / all calls created in the same period without the canceled withoutvisit) :

$(([\text{In Time without Visit Operations Excluded}] + [\text{In Time with Visit Operations Excluded}] + [\text{In Time without Visit Damages Excluded}] + [\text{In Time with Visit Damages Excluded}] + [\text{In Time without Visit Reasons Excluded}] + [\text{In Time with Visit Reasons Excluded}] + [\text{Cancelled In Time With Visit}] + [\text{In Time with Visit Regular Calls}]) / \text{if}(([\text{In Time without Visit Operations Excluded}] + [\text{Delayed without Visit Operations Excluded}] + [\text{In Time with Visit Operations Excluded}] + [\text{Delayed with Visit Operations Excluded}] + [\text{In Time without Visit Damages Excluded}] + [\text{Delayed without Visit Damages Excluded}] + [\text{In Time with Visit Damages Excluded}] + [\text{Delayed with Visit Damages Excluded}] + [\text{In Time without Visit Reasons Excluded}] + [\text{Delayed without Visit Reasons Excluded}] + [\text{In Time with Visit Reasons Excluded}] + [\text{Delayed with Visit Reasons Excluded}] + [\text{Cancelled In Time With Visit}] + [\text{Delayed without Visit Regular Calls}] + [\text{In Time with Visit Regular Calls}] + [\text{Delayed with Visit Regular Calls}]) = 0, 1, ([\text{In Time without Visit Operations Excluded}] + [\text{Delayed without Visit Operations Excluded}] + [\text{In Time with Visit Operations Excluded}] + [\text{Delayed with Visit Operations Excluded}] + [\text{In Time without Visit Damages Excluded}] + [\text{Delayed without Visit Damages Excluded}] + [\text{In Time with Visit Damages Excluded}] + [\text{Delayed with Visit Damages Excluded}] + [\text{In Time without Visit Reasons Excluded}] + [\text{Delayed without Visit Reasons Excluded}] + [\text{In Time with Visit Reasons Excluded}] + [\text{Delayed with Visit Reasons Excluded}] + [\text{Cancelled In Time With Visit}] + [\text{Delayed without Visit Regular Calls}] + [\text{In Time with Visit Regular Calls}] + [\text{Delayed with Visit Regular Calls}]))$