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Application: PeCo-Graph 4.1 and later

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1. PRELIMINARY INFORMATION

1.1. Introduction

The PeCo-Graph Data Converter is an application embedded in PeCo-Graph that converts and exports the counting data acquired by PeCo-Graph so that data can easily be used in other applications for data analysis or graphical representation.

- Data Converter can be configured to execute the conversion every time new data is downloaded to PeCo-Graph, adding automatically the new converted data to the existing files.
- Data Converter can also be executed manually to convert the required data to the export format for the first time or in order to perform tests with the data.
- Data Converter can be configured to determine the fields included in the exported files, its order and the duration of each file (one day, month or year).
- Besides the hourly counting data, any other data known by PeCo-Graph regarding the counter or the premises can be added to the export file.
- The data of each counter are exported in a file with the same name of the counter. Counters belonging to same premises are created under a parent folder with the name of such premises.

Find more information in the following chapters

1.2. Requirements and compatibility

You need a PeCo-Graph 4.1 or later version installed and working, to download data from compatible counters AX-PeCo and AX-Click.

If you have a previous version of PeCo-Graph, you simply must install the later version without uninstalling the previous one. Your configuration and counting data will remain.

Find the software and manuals at our website: www.visual-tools.com

2. CONFIGURATION OF THE DATA CONVERSION

2.1. Configuring the information of premises and counters

In **Configuration / Premises** you can add, edit or delete the **data of each shop** filling up the following fields to be included in the exported data:

- **Name:** Shop name. Mandatory data.
- **Formula** (Chain Store): Follow the end user criteria to assign names or codes. Optional data
- City, Zip, Country: Optional data

Premises

Propiedades

Name:

Address: Zip:

City: State: Country:

Formula (Chain store):

Comments:

Units

	Name	User name	IP Address:Port (By default)	Location	Type
▶	AX-Click	peco	192.168.4.33:80	Out	AX-Click
	AX-Peco	peco	192.168.1.60:99	C	AX-PeCo
	AX-Peco2	peco	192.168.9.32:80	R	AX-Peco

New Edit Delete

Variables

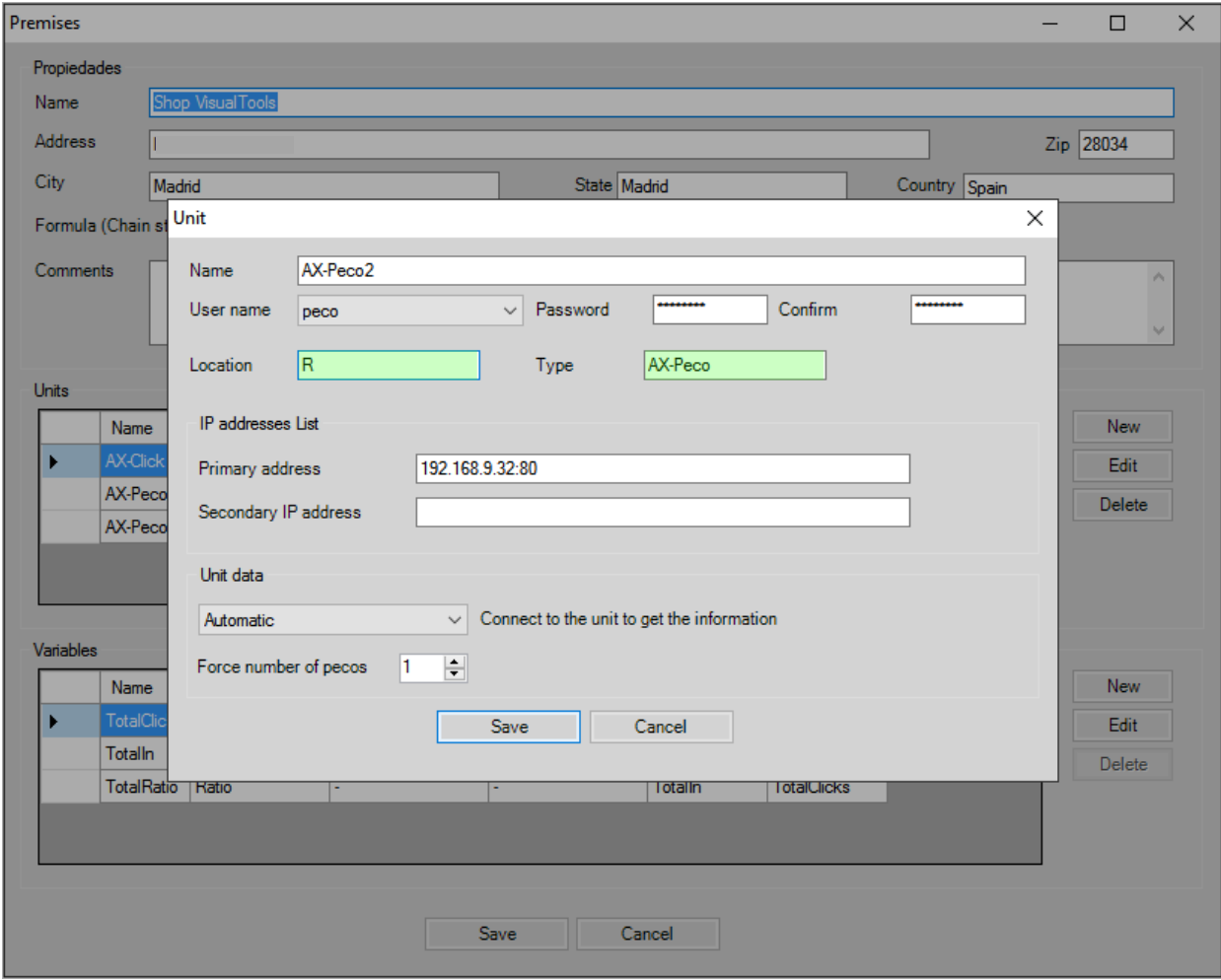
	Name	Variable type	Max valid value	Min valid value	Variable A	Variable B
▶	TotalClicks	Calculated Vars.	-	-	-	-
	TotalIn	Calculated Vars.	-	-	-	-
	TotalRatio	Ratio	-	-	TotalIn	TotalClicks

New Edit Delete

Save Cancel

In **Configuration / Premises** you can add, edit or delete the **data of the counting units** installed filling up the following fields to be included in the exported data:

- **Name:** Counter Unit name. Mandatory data.
- **Location:** Location of the counter in the shop. Follow the end user criteria to assign codes. Optional data.
- **Type:** Type of counter unit. Follow the end user criteria to assign codes. Optional data.



The screenshot shows the 'Premises' configuration window. The 'Unit' dialog box is open, displaying the following fields:

- Name:** AX-Peco2
- User name:** peco
- Password:** (masked with asterisks)
- Confirm:** (masked with asterisks)
- Location:** R
- Type:** AX-Peco
- IP addresses List:**
 - Primary address:** 192.168.9.32:80
 - Secondary IP address:** (empty)
- Unit data:**
 - Automatic:** (checked)
 - Connect to the unit to get the information:** (checked)
 - Force number of pecos:** 1

The 'Premises' window background shows the 'Propiedades' tab with the following information:

- Name:** Shop VisualTools
- Address:** (empty)
- Zip:** 28034
- City:** Madrid
- State:** Madrid
- Country:** Spain

The 'Units' table in the background is as follows:

	Name
▶	AX-Click
	AX-Peco
	AX-Peco

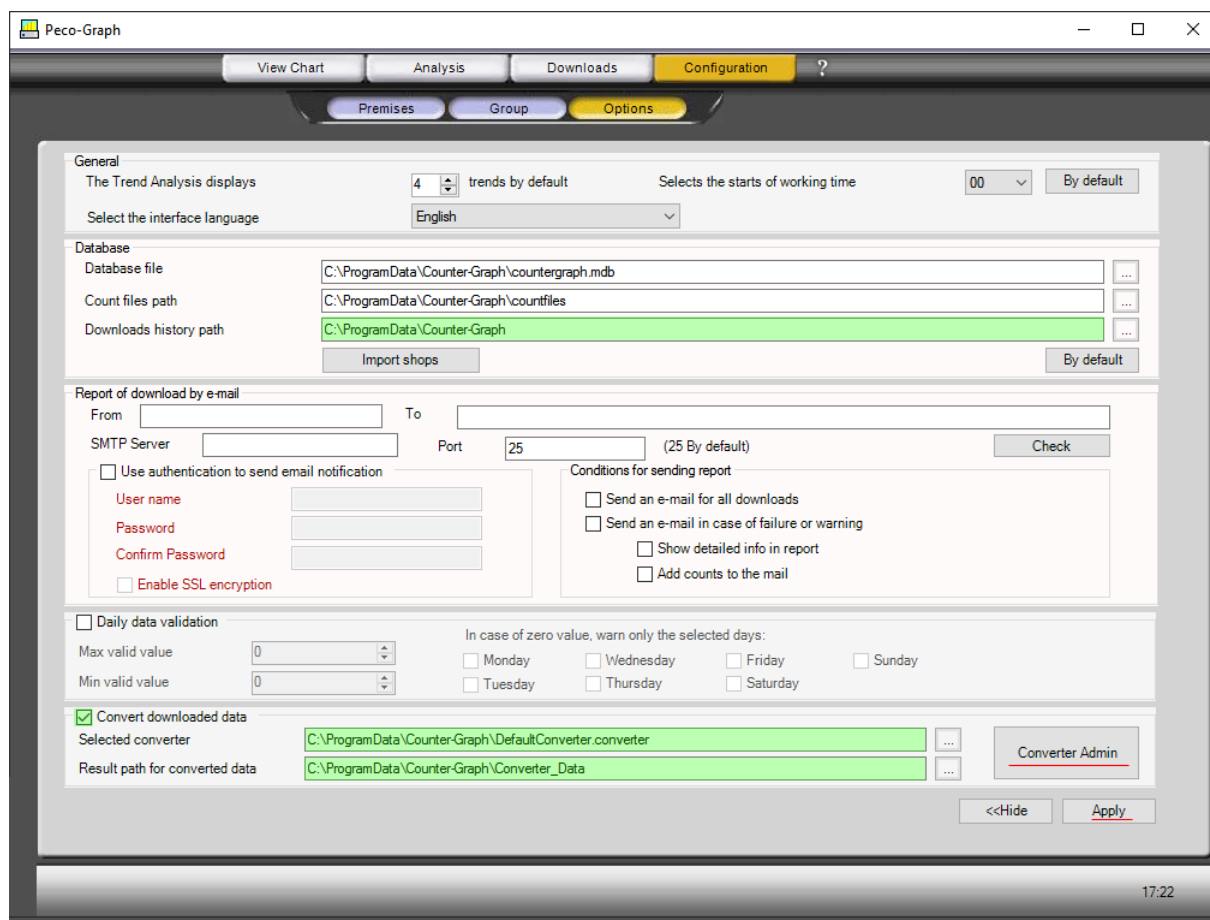
The 'Variables' table in the background is as follows:

	Name
▶	TotalClick
	TotalIn
	TotalRatio
	Ratio

2.2. Activating the Data Converter

In **Configuration / Options - Advanced** the following items related to the Data Converter can be configured:

- Convert Downloaded data:** select this option to convert data every time new data are downloaded to PeCo-Graph, adding automatically the new converted data to the existing files.
 If the download is configured as incremental, the data conversion will also be incremental, minimizing the required conversion time
- Select Converter:** give the URL of the file with the configuration of the data export. By default, `C:\ProgramData\Counter-Graph\DefaultConverter.converter`
 These configuration files can be changed using the Data Converter application as explained in following chapters.
- Result path for converted data:** enter the URL of the folder for data export. By default, `C:\ProgramData\Counter-Graph\Converter_Data`
 The converted file(s) will be written into this folder with the following structure:
`[ResultPath]\ShopName\UnitName\YYYY\`
- Click on 'Apply'** to save and apply changes.



Clicking on the '**Converter Admin**' button you can open the Data Converter pages to edit the details of the data conversion and perform the first manual conversion.

2.3. Editing the details of the converted files: fields, order and periods

The default configuration is stored in a configuration file named **DefaultConverter.converter**. If you have created another configuration file and you want to edit it, use the menu **File/Open** to do it.

For editing the conversion details, in the **Configuration / Options** tab go to the advanced section and click on the button '**Converter Admin**' to display the **Data Converter configuration window**.

The default configuration of the Data Converter includes:

Fields and order

The Data Converter is configured by default to include the following fields in this order:

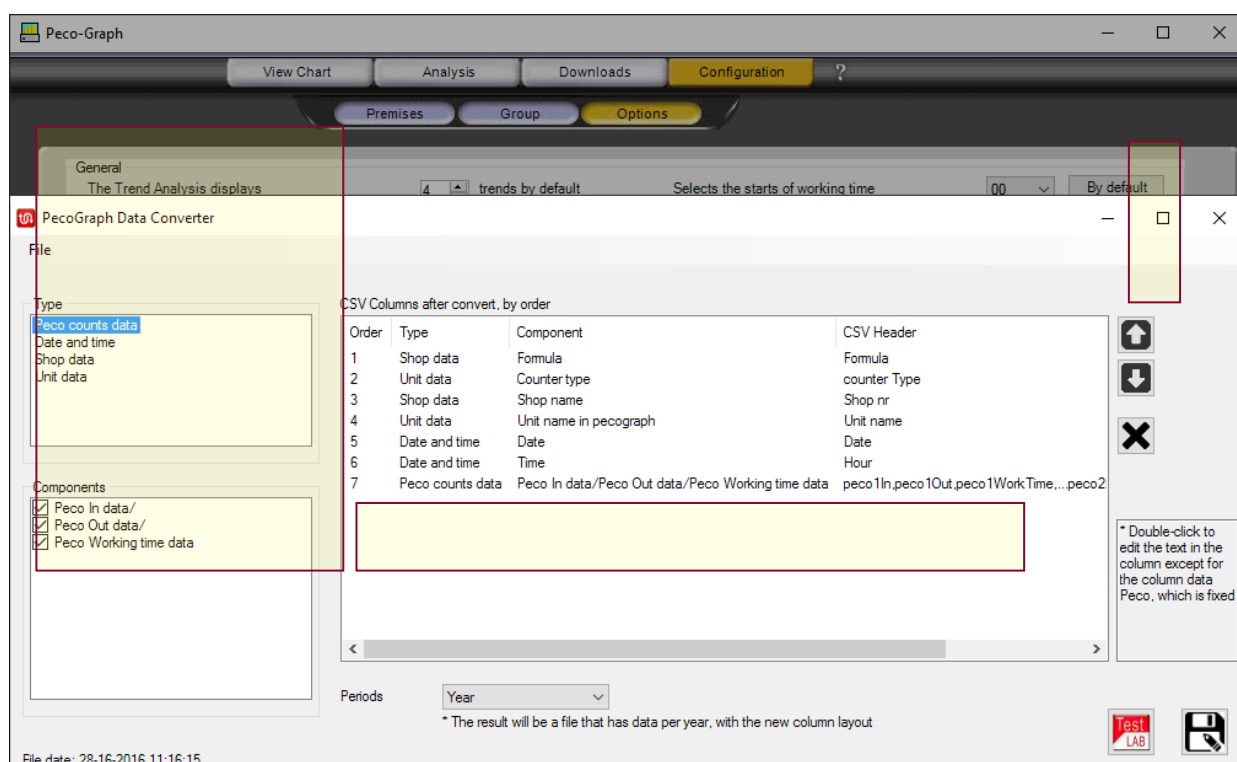
Formula, Counter Type, Shop nr, Unit Name, Counter Location, Date, Hour, Peco1In, Peco1Out, Peco1WorkTime... Some counter units support several counters. In that case, the rest of the counters are added using the same structure up to reach the maximum of the counters (Formula, Counter Type, Shop nr, Unit Name, Counter Location, Date, Hour, PecoNIn, PecoNOut, PecoNWorkTime)

Period

By default, Files are split in years.

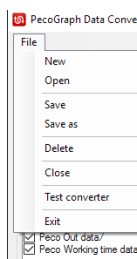
Here you can change the following details of the data conversion file:

- Fields to be included in the exported file.** Fields are grouped in types: Counting data, Date and time, Shop data and Counter data. Select the desired components by checking or un-checking the tick boxes at the left of each field.
- Order.** Short the fields in the order you want them to be shown in the exported files by using the arrows on the right.
- Period.** Select the period in which the converted files shall be spitted: year, month or day.



You can also **edit the headers** by double-clicking on the corresponding CSV header:

Order	Type	Component	CSV Header
1	Shop data	Formula	Formula
2	Unit data	Counter type	counter Type
3	Shop data	Shop name	Shop nr
4	Unit data	Unit name in pecograph	Unit name
5	Date and time	Date	Date
6	Date and time	Time	Hour
7	Peco counts data	Peco In data/Peco Out data/Peco Working time data	peco1In,peco1Out,peco1WorkTime,...peco2



To save the changes made on the configuration of the Data Converter, use the “save” option of the file menu or click on the icon that is placed on the right lower side of the window.

To save the changes made on the configuration of the Data Converter as a different Data Converter configuration, use the “save as” option of the file menu and give it a name.

2.4. Converting data for the first time

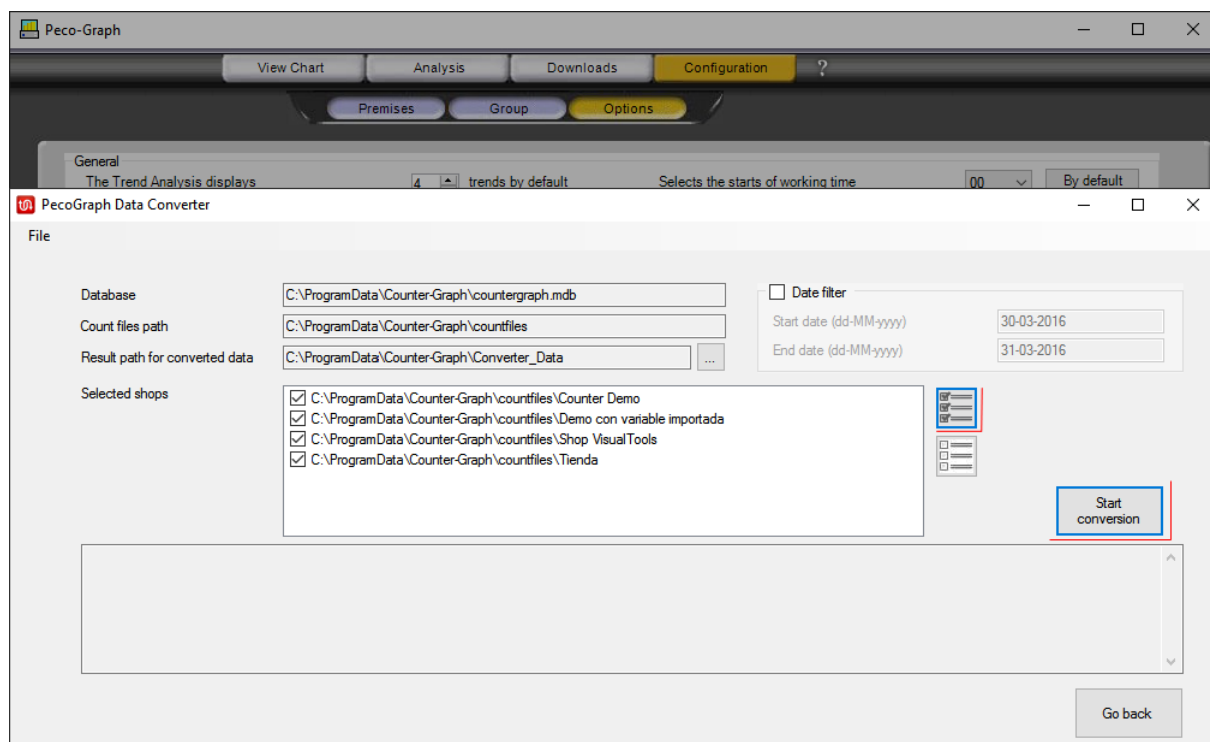
Once you have configured the conversion the first time you want to export your data, you must convert all the counting data stored in PeCo-Graph manually unless there is no counting data downloaded yet in PeCo-Graph.

For the subsequent downloads, if the check box of the option “Convert Downloaded Data” is marked, these will be converted and added to the existing conversion file automatically.

To perform the manual conversion click on the ‘**TestLab**’ Button to show the **Data Converter execution window**. Then:



- Edit the **URLs** if needed
- Select the **shops** you want to convert.
By default, none is selected.
Use the button **select all** to include all the shops in the conversion
- Select the **period of time** you want to convert (by default all available data)
- Click on the **Start Conversion** button



2.5. Exported data format

The converted file(s) will be written into the configured folder with the following structure:

[ResultPath]\ShopName\UnitName\YYYY\

By default, the **Result path** for exported data is:

C:\ProgramData\Counter-Graph\Converter_Data

File names, depending on the size of the periods selected in configuration (By default yearly), are as follows:

- Yearly: ShopName_UnitName_YYYY.csv
- Monthly: ShopName_UnitName_YYYY_MM.csv
- Daily: ShopName_UnitName_YYYYMMDD.csv

Data conversion is made in **comma separated text files (CSV)**. The first line corresponds to the **header** name of the fields. The rest of the lines contain the counting data **hour by hour**.

	A	B	C	D	E	F	G	H	I	J	K
1	Formula	Counter Type	Shop nr	Unit name	Counter Location	Date	Hour	Peco1In	Peco1Out	Peco1WorkTime	
2	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	0	0	0	100	
3	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	1	0	0	100	
4	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	2	0	0	100	
5	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	3	0	0	100	
6	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	4	0	0	100	
7	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	5	0	0	100	
8	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	6	0	0	100	
9	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	7	0	0	100	
10	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	8	0	0	100	
11	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	9	0	0	100	
12	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	10	0	0	100	
13	1	AX-PeCo	Shop VisualTools	AX-Peco	C	20160101	11	0	0	100	

- The Date format is YYMMDD
- The hour is an integer
- Counting data (In, Out and WorkingTime) are also integer
- If there are periods without downloaded data, the corresponding hourly lines will not be generated in the output file. Therefore, there may be consecutive lines in the output file with a time offset longer than an hour, which means that there is a gap in the data downloaded from the unit.