

Data Export

On-line Historical Data

PcVue® Solutions



Mastering interfaces between
#Humans
#Systems
#Connected things

Data Export

Data aggregation and export

Data Export is aimed at users who want to visualize and analyze PcVue data using the familiar features available in the Microsoft Office Suite with Microsoft Excel.

PcVue provides users with data and real-time events. Processing of these data must be reliable, secure and able to calculate key performance indicators. Using the Data Export and without programming, users are able to configure and deploy a solution of analysis based on balance sheets. The features of the Data Export tool combined with Microsoft technologies provide PcVue users with a new powerful solution to build sophisticated data spreadsheets.

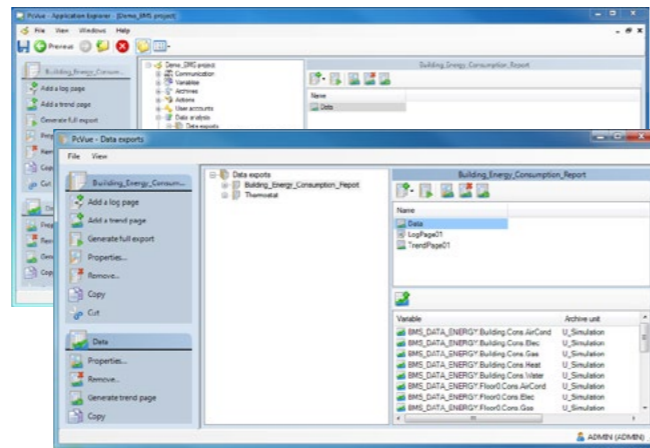
Principles

Data Export: Native and feature integrated with PcVue

Extract export data tracked according to criteria defined by the user (dates, event types, properties of the variables...).

Setting up Data Export, assessments, and data is directly realized from PcVue. Its ergonomics allows global visualization of the different elements that constitute the balance sheets.

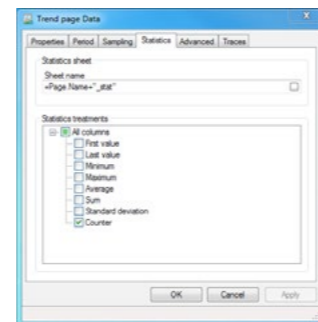
Data Export can automate extraction and export tasks to Excel from the histories of a set of variables.



Statistics page

Data Export allows to perform statistical calculations on the data. Data Export thus calculates different indicators from archived data in the historical owners and/or PcVue database.

- ✓ Number of occurrences of State
- ✓ Number of occurrences of alarm
- ✓ Duration of State
- ✓ Duration of alarm
- ✓ Sum
- ✓ Average
- ✓ Minimum
- ✓ Maximum
- ✓ Standard deviation
- ✓ ...



Formatting of statements

Data Export allows different modes of data extraction to balance sheets.

Extraction of raw data

In this mode of operation, Data Export populates the worksheet with values and timestamps stored in storage units. Data Export produces an assessment that the number of samples depends on the number of changes values recorded by PcVue

Retrieving data with sampling

In this mode of operation, Data Export populates the worksheet with values according to the second in several months configurable sampling rate. Thus, the balance sheet will always contain the same number of values for a given period

Retrieving data with sampling and synchronization

In this mode of operation, in addition to sampling, Data Export determines when each sample is taken. Synchronization allows to select the values of various data to a specific common stamps.

Balance sheets generated by Data Export are directly exploitable under Excel without the need to install Excel on the computer. For custom formatting of balance sheets, workbooks models can be defined. These models will be powered by Data Export during the generation of balance sheets. This approach allows to have full power of Excel to present the data through different tabs, charts and tables.



Generation of assessments

Data Export allows the generation mode RunTime, automatically and manual assessments.

Automatic generation

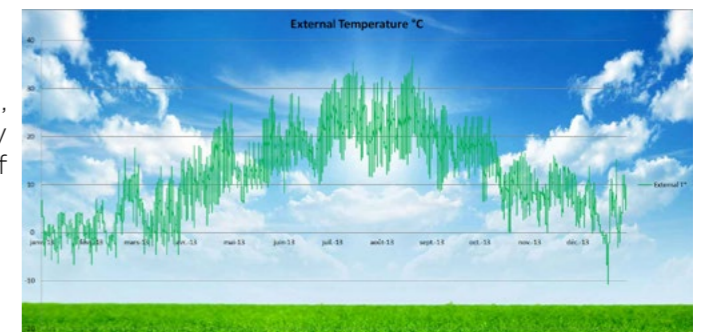
This generation mode allows to get balance sheets at the onset of an event in oversight (evolution of a State, an alarm, a tendency, planning,...). Generated assessments may use either:

- The default settings for balance sheets
- Specific timestamps start and end
- A reference time and a specific time period



Dissemination of the balance sheets

The joint use of Data Export and email sending, native functionality in PcVue, to automatically distribute the balance sheets generated a list of recipients.



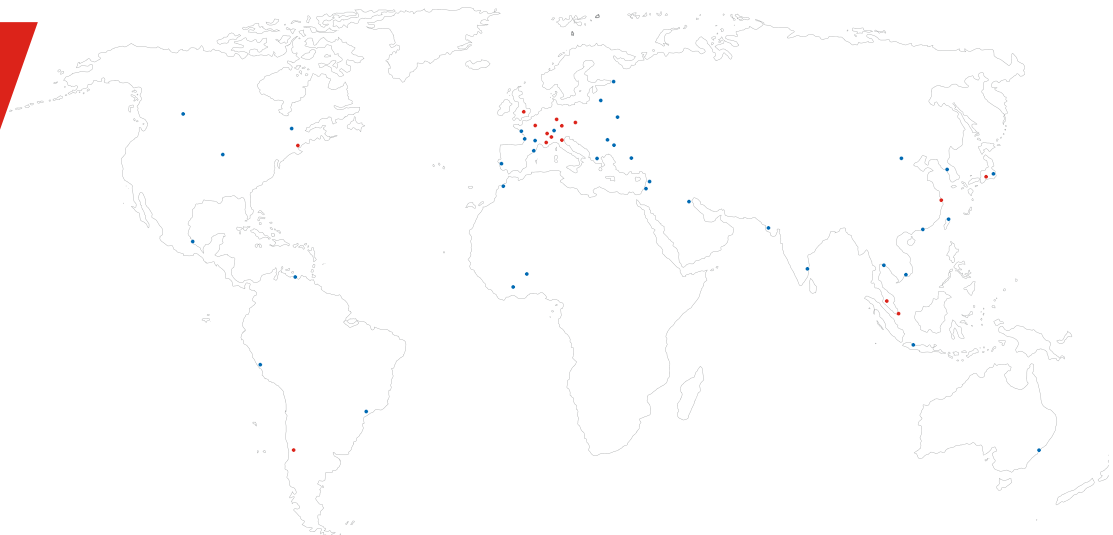
Software platform for IoT, SCADA, BMS & real-time data analytics

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