

PQSys

# Release Notes WinPQ

Version v6.3.0 | 11.03.2022



## Overview WinPQ Version 6.3.0 – 6.3.1

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Note: Please note the update hints from WinPQ versions lower or equal to version 5 to versions > 6 in the lower part of the release notes.

## Recommended device firmware

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### PQI-D und PQI-DA

#### PQI-D with DSP 100 MHz

- 8 voltage inputs *Version 2.1.03 from 02.06.2021*
- 4 current and 4 voltage inputs *Version 3.1.01 from 07.05.2014*

#### PQI-D with DSP 200 MHz

- 8 voltage inputs *Version 4.0.07 from 10.05.2011*
- 4 current and 4 voltage inputs *Version 5.0.16 from 09.04.2014*

#### PQI-D with DSP 300 MHz

- 4 current and 4 voltage inputs *Version 7.0.04 from 07.07.2015*

### PQI-DA smart and PQI-DE

PQI-DA smart *Version 2.8*

PQI-DE *Version 2.8*

## Overview WinPQ Version 6.3.2 – 6.3.6

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Note: Please note the update hints from WinPQ versions lower or equal to version 5 to versions > 6 in the lower part of the release notes.

## Recommended device firmware

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### PQI-D und PQI-DA

#### PQI-D with DSP 100 MHz

- 8 voltage inputs *Version 2.1.03 from 02.06.2021*
- 4 current and 4 voltage inputs *Version 3.1.01 from 07.05.2014*

#### PQI-D with DSP 200 MHz

- 8 voltage inputs *Version 4.0.07 from 10.05.2011*
- 4 current and 4 voltage inputs *Version 5.0.16 from 09.04.2014*

#### PQI-D with DSP 300 MHz

- 4 current and 4 voltage inputs *Version 7.0.04 from 07.07.2015*

### PQI-DA smart and PQI-DE

PQI-DA smart *Version 2.10*

PQI-DE *Version 2.10*

## V 6.3.0

### News and features

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- Extension reports according to Polish regulations LV/MV/HV
- RCM & FCM report
- Display of RCM measurement data in fault records
- Database version update - PostgreSQL v14.2
- Testing of interference according to SEMI F47-0706 Specification for Semiconductor Processing Equipment Voltage Sag Immunity

#### WinPQ lite:

- RCM & FCM report for data classes
- Readout of the devices test certificates and calibration certificates from the measuring device

### Security-related updates and features

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- Setting the password strength for WinPQ passwords
- Improvement of key exchange system compatibility

### Improvements and bugfixes

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- CSV Import - Improved menu navigation
- PQBox Import - Improvement
- Improvement of WinPQ Installer
- Improvement of PQI-D memory calculation
- Fault record filtering - Increase of parameterizable time range
- Improvement of visualization of trigger conditions
- Improvement of visualization report event network overview
- Improvement of visualization of binary records in fault records
- Improvement - FW update - mass rollout function
- Further small improvements

### V 6.3.1

#### Improvements and bugfixes

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- Improvement of visualization of device tiles in graphical user interface
- Adjustment - FW Update - Mass Rollout - Display IP Address / Port
- Adjustment of measuring device parameters representation in Overview table
- Improvement of event values representation
- Improved visualization of disturbance recorder threshold values
- Adjustment of the filter for the disturbance recorder/Event comment function
- Improvement of the preparatory export function for database changes
- Extension and adjustment of translations

### V 6.3.2

#### Improvements and bugfixes

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- Improvement of database transfer into harmonized format from WinPQ V5
- Improvement of visualization of mailing at PQAdmin

### V 6.3.3

#### Improvements and bugfixes

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- Customization Comtrade Export - SUB sign moved from cfg. File to dat. File
- Improvement of database user permission handling (PostgreSQL)

Wir regeln das.



#### **V 6.3.4**

##### **Improvements and bugfixes**

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- Improvement of the timestamp handling for the update process to future WinPQ versions with adjusted time scheme

#### **V 6.3.5**

##### **Improvements and bugfixes**

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- Adaptation of the file header structure to support future firmware versions
- Improvement of the measurands at PQ-Reports within the measured value statistics

#### **V 6.3.6**

##### **Improvements and bugfixes**

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- Bugfix of the automatic reporting where no pdf-attachment were sent

Wir regeln das.



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# **Release Notes WinPQ**

**Version v6.2.0 24.01.2022**



## Overview WinPQ Version 6.2.0

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Note: Please note the update hints from WinPQ versions lower or equal to version 5 to versions > 6 in the lower part of the release notes.

## Recommended device firmware

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### PQI-D und PQI-DA

#### PQI-D with DSP 100 MHz

- 8 voltage inputs *Version 2.1.03 from 02.06.2021*
- 4 current and 4 voltage inputs *Version 3.1.01 from 07.05.2014*

#### PQI-D with DSP 200 MHz

- 8 voltage inputs *Version 4.0.07 from 10.05.2011*
- 4 current and 4 voltage inputs *Version 5.0.16 from 09.04.2014*

#### PQI-D with DSP 300 MHz

- 4 current and 4 voltage inputs *Version 7.0.04 from 07.07.2015*

### PQI-DA smart and PQI-DE

PQI-DA smart *Version 2.6*

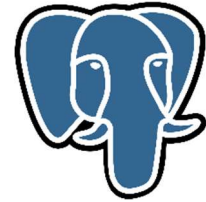
PQI-DE *Version 2.6*



## News and features

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- WinPQ is now 64 bit version multithreading capable!
- **New database - PostgreSQL v14** as of version v6.2
- New system requirements (homepage) available - MSSQL 2019 support
- Grid code curves in the disturbance description
- Comtrade display and import
- Calculation of RMS values for Comtrade imports
- CSV import function
- New flexible export function (PQDIF & CSV) of all measured values (time based & manual) with templates
- FW Update - Mass Rollout Function - now also in Security Mode with Logging
- DNS support / address measuring devices via DNS name
- Search function in many interfaces
- Support of WAGO "Table Push Imports (iONS - Multi Outlets)
- mA for residual current measurement RCM + FCM added



### WinPQ lite:

- New template for PQI-DA smart and PQI-DE according to the new PQ standard of IEC62749 added
- Files in explorer show function for import function added
- Marker in context menu

## Security-related updates and features

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- New certificate handling for database connection encryption (MySQL & PostgreSQL)

## Improvements and bugfixes

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- Grouping now also possible via 109 subgroups in reporting
- Groupings for PQ Desktop extended to unlimited number
- Improvements in the visualization of fault records
- Multiple Comtrade export - group export possible again
- Performance 3D
- CSV export - improvement
- PQ Box imports - improvements in terms of parameters
- Other small improvements

Wir regeln das.



**PQSys**

# **Release Notes WinPQ**

**Version v6.1.0 01.09.2021**



## Overview WinPQ Version 6.1.0

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The WinPQ V6.0 is a new major release. An update to the version transfers the existing database into a harmonized and future-proof database schema. This is a necessary and major step to ensure future-oriented developments with a high backward compatibility in future versions with many open interfaces and new user interfaces.

The harmonization affects the database itself, all existing interfaces and device connections such as PQ-Manager, PQ-Smartmanager, PQ-Box Import, Comtrade Import as well as all reports and exports of WinPQ.

The harmonization of the database structure is automated and carried out directly by the update file of WinPQ (WinPQ\_Update\_6.1.0\_210901.exe). It may take some time (depending on the existing size of the database and the speed of the server).

**We further recommend the following procedure for the update:**

- **Database backup before the update (point 2.1 in the database settings of the system administrator of WinPQ).**
- **Firmware update on all devices to the latest versions matching the hardware versions from the table "Recommended firmware of devices".**
- **If you are currently using a version lower than v5.0.0 we strongly recommend to update the software to a v5 version first. You can find the v5.2.8 under this [link](#).**

Furthermore, we would be happy to provide you with a corresponding service offer for the major update directly. Please do not hesitate to contact us: [vertrieb@a-eberle.de](mailto:vertrieb@a-eberle.de)

### **Possible limitations:**

- Possible self-created database interfaces with direct access to the measurement data may not be compatible to the new harmonized database schema of WinPQ!
- Imported PQ-Box data will not be transferred to the harmonized standard, but remain retrievable!
- Duration of the update may take longer than usual due to conversion of the database (for large databases)! Please consider this circumstance when updating the software!
- Identity of configured PQI-DA smart and PQI-DE devices may have to be reconfirmed the first time a connection is established after the software update.

## Recommended device firmware

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### PQI-D und PQI-DA

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#### PQI-D with DSP 300 MHz

- 4 current and 4 voltage inputs *Version 7.0.04 from 07.07.2015*

### PQI-DA smart and PQI-DE

PQI-DA smart *Version 2.4.6*

PQI-DE *Version 2.4.6*

## News and features

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- Harmonization of the database of reports and all related interfaces
- Update process simplified - updates are stored completely in the database for easy client updates
- Email dispatch possible for messages from system status
- Automatic data export in .PQDIF and as .CSV based on individual profiles
- IEEE519(2014) report added / template for PQI-DE / PQI-DA smart added in WinPQ lite
- Added the power of harmonics
- Load characteristics via reporting
- Counting of EN50160 events in all reports (unbalance and long-term flicker)
- Uniform evaluation of the RVC in terms of  $U_{max}$  and  $U_{SS}$
- Suppression of range violation RMS value from PQI-DA smart / PQI-DE as active event
- Explanations and definitions added for all PQ events
- Detection of fault direction in fault records (output before / after measuring point) via Transnestic calculation methodology for all fault records of PQI-DA smart and PQI-DE's added
- DRAG & DROP for measurement types in visualization added
- Group selection of measurands / Predefined measurand groups for easy and fast evaluation and visualization
- Full support of the PQI-DE:
  - Display of differential current (thresholds: warning and alarm) & temperature events
  - Binary inputs
- Comtrade import with mapping via measured variables DB

### WinPQ lite:

- Connection to the device is closed automatically when the user is inactive (default value = 10min)
- Online values of the residual current measurement variables
- Online values of binary inputs
- Addition of prefixes of measurement units for power and energy in WinPQ lite
- Display of status of connections for IEC61850 communication visible in device status
- Parameterization of time settings now also directly in UTC (coordinated universal time) possible
- Template regarding IEEE519(2014)
- French user manual added
- Added ripple control group designations
- Added summer/winter time of trigger criterion in recorder treeview
- Calibration with SSH

## Security-related updates and features

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- New component for encrypted database communication (client / server) with TLS 1.2 (only with MySQL database)
- New SSH module for improved secure connection and communication with PQ devices  
IMPORTANT: Hashes of the fingerprints of the devices must be reconfirmed in the online data!
- Implementation of MySQL v5.7.34
- [WinPQ lite] Update the components of SSH communication
- [WinPQ lite] support setup and beat drive RADIUS protocol with PQI-DA smart and -DE

## Improvements and bugfixes

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- Mass firmware update: added improvement in case of disconnections.
- Correction of coloring of events in heatmap
- Restart of the device after complete calibration via calibration software (license required)
- Improvement of window sizes on 4K desktops
- Unification of the button sequence
- [WinPQ lite] Return of a message when sending incorrect parameter settings
- [WinPQ lite] reliable detection of disconnected network connection during FW update

Wir regeln das.



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