

# PQ DATABASE MANAGEMENT AND ANALYSIS SOFTWARE

MULTI-COMPONENT SOFTWARE  
SYSTEM

POWER QUALITY





Conscious simplicity leads to an optimal user friendliness

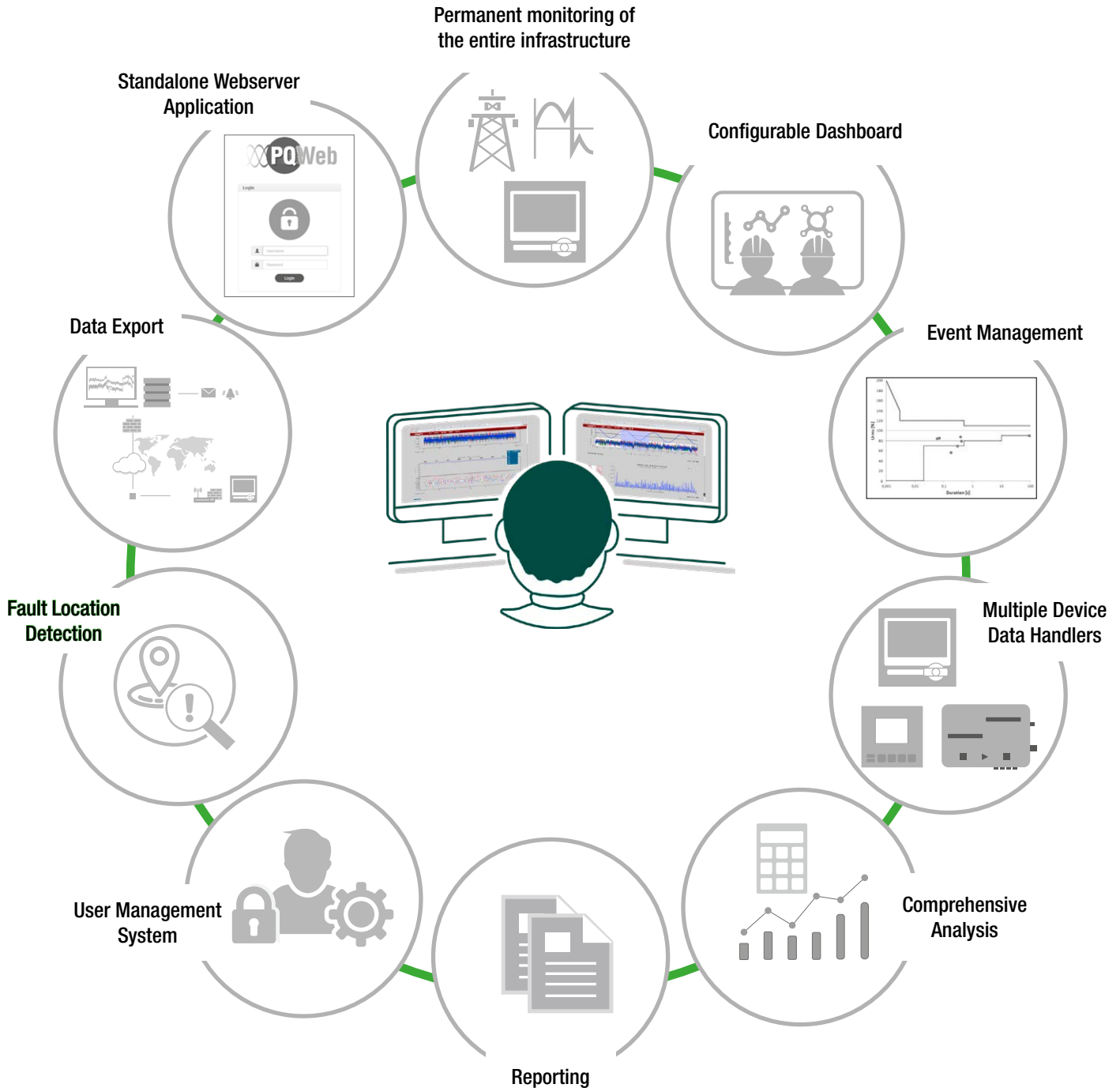


**MULTI-COMPONENT SOFTWARE SYSTEM –  
SIMPLICITY AND USER FRIENDLINESS  
ARE THE KEY**

PQView® builds databases with millions of measurements from thousands of monitoring points taken by many different types of meters, including power quality monitors, voltage recorders, in-plant monitors, and digital fault recorders.

It can store and analyze information associated with the measurements, including the cause and source of triggered events, as well as evaluate the impact of events to both a power provider and a power user.

# PQVIEW® SOFTWARE SYSTEM OVERVIEW

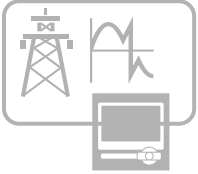


The software system allows users to connect to multiple Databases and multiple PQDMS instances in order to analyze data across multiple systems or manage communications with more than one monitoring system.

PQView® applications include energy generation, energy distribution, smart grid, microgrid, alternative energy production/integration, industry and more.

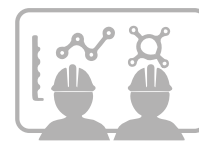
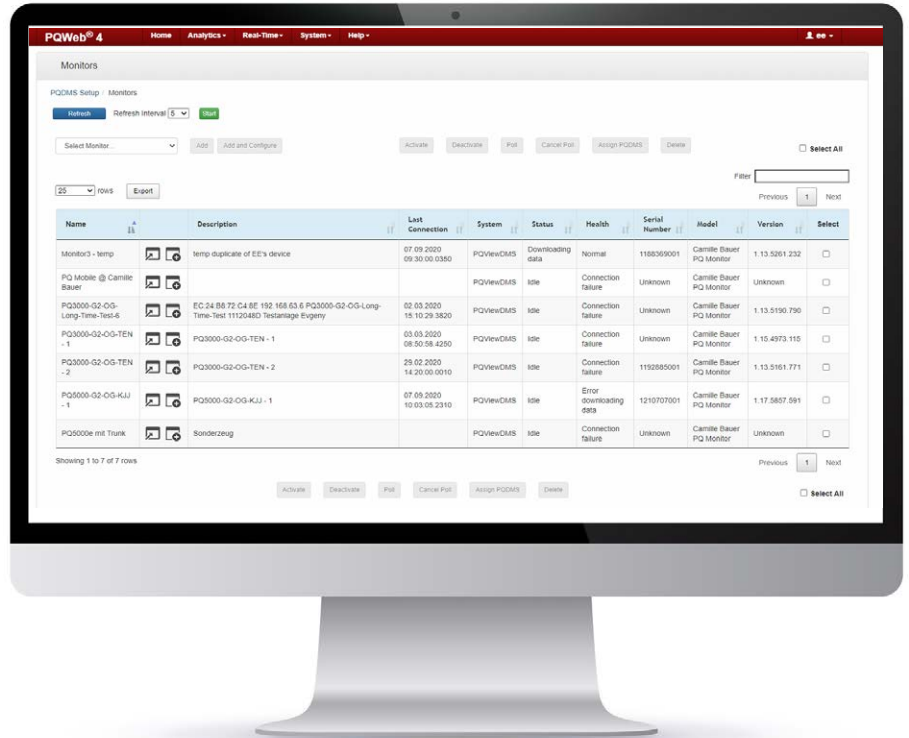
The system can quickly extract meaningful information from a one-megabyte or one-terabyte database.

# SIMPLICITY AT ITS BEST



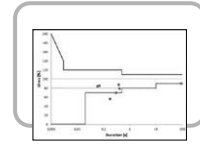
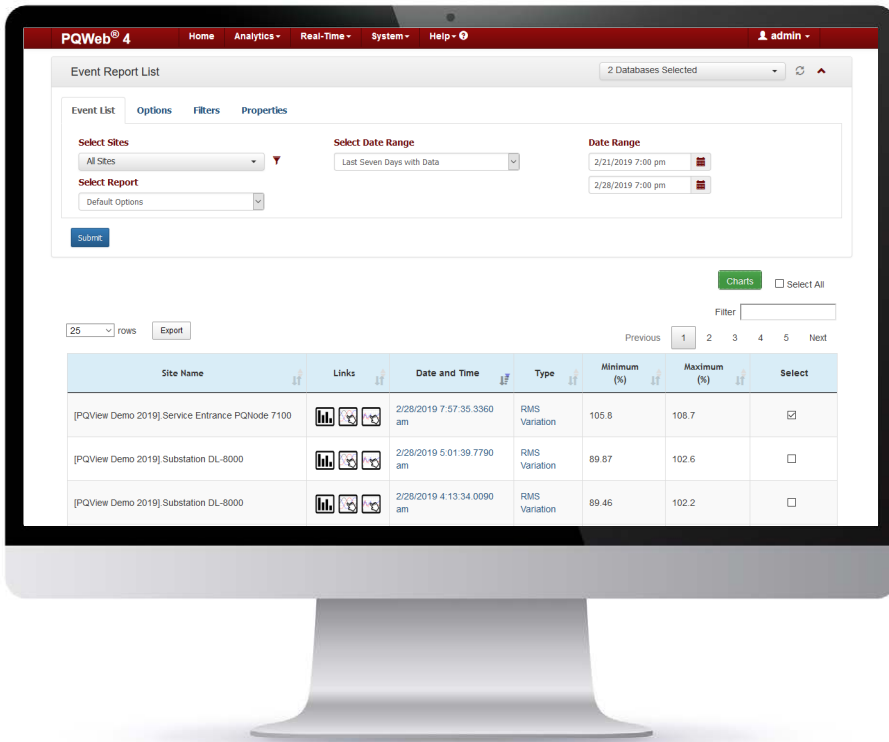
## Permanent monitoring of the entire infrastructure

The Power Quality Data Manager Service (PQDMS) is an application server program that collects data from power quality monitors, microprocessor relays, and more. The PQDMS also provides real-time data and sends email notifications.



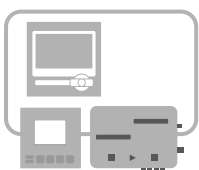
## Configurable Dashboard

Fully interactive, responsive-designed application allows for viewing PQ data or even managing devices from any phone, tablet, or computer.



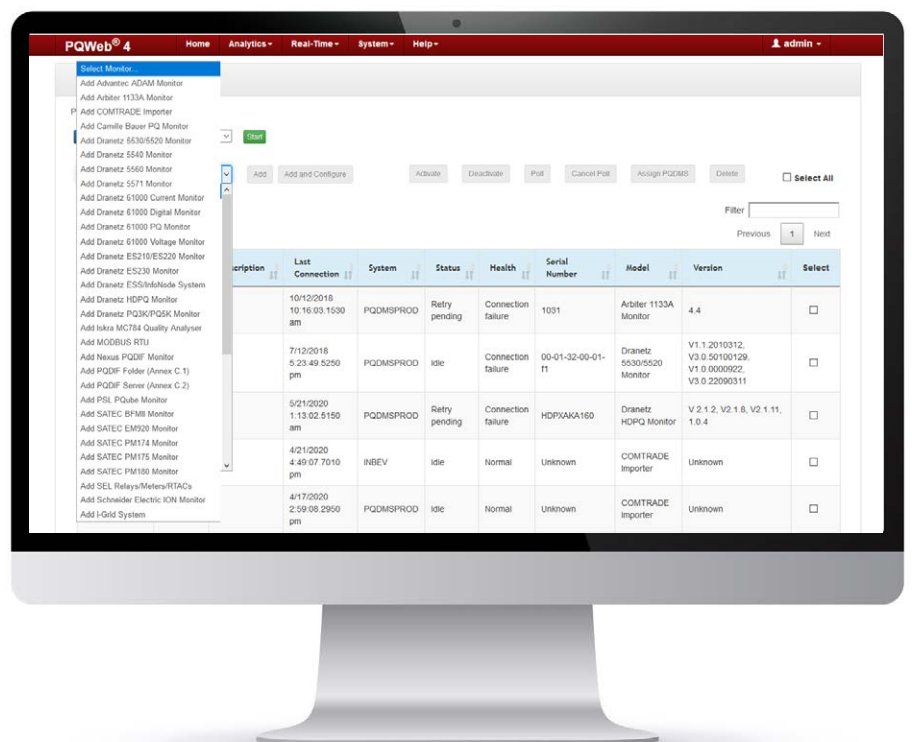
### Event Management

PQView ® collects data from multiple PQDMS instances. This lets you analyze data across multiple systems or manage communications with more than one monitoring system



### Multiple Device Data Handlers

Single point of integration for multiple devices of various manufacturers and models — use same analysis tools regardless of monitoring device. The same PQView® can be used to integrate data from nearly 50 different systems.

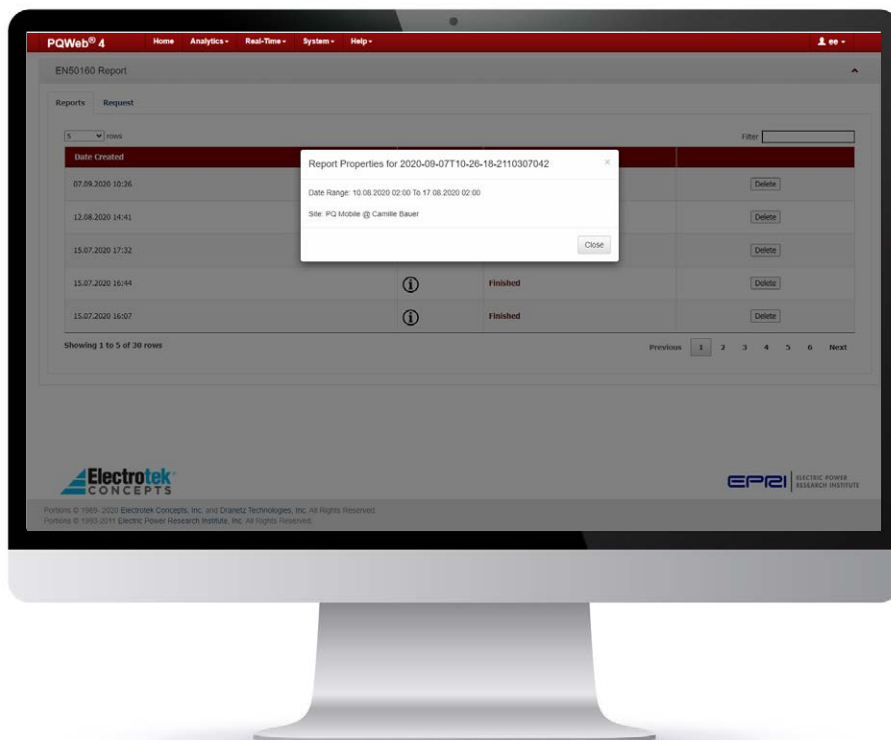


# SIMPLICITY AT ITS BEST



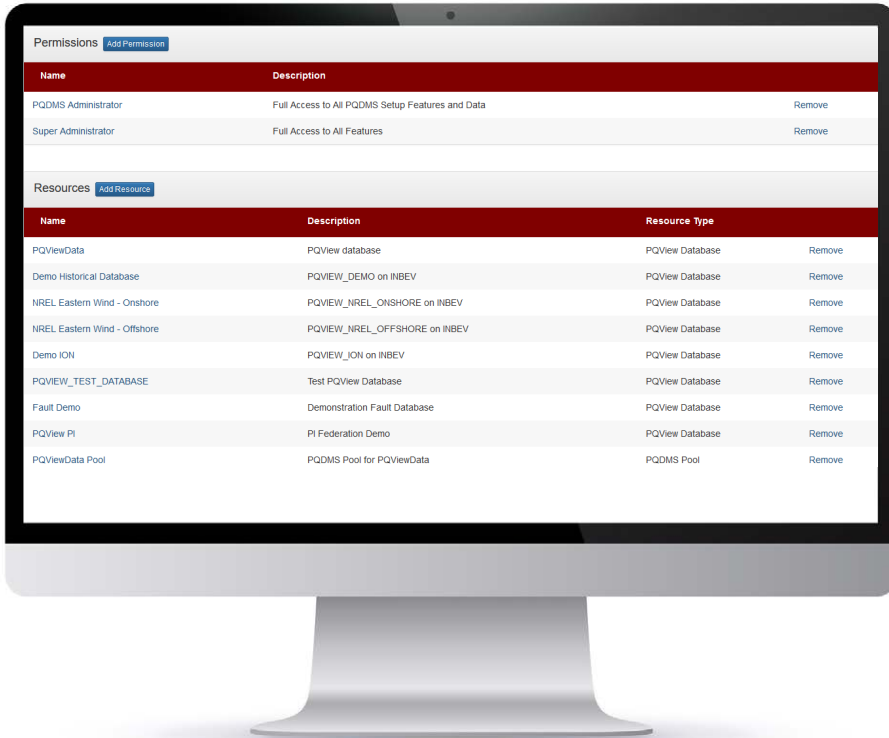
## Comprehensive Analysis

The Power Quality Data Analyzer (PQDA) is a desktop application used for advanced fault analysis on desktop and laptop computers using data from a PQView® Measurement Database.



## Reporting

The Automatic Reporting System (ARS) prepares automatic reports in Microsoft Word and Adobe Acrobat PDF format. These reports automatically summarize power quality monitoring campaigns or compliance with IEEE 519, IEEE 1453, IEC TS 62749, and EN 50160. Users can create custom compliance reports as well.



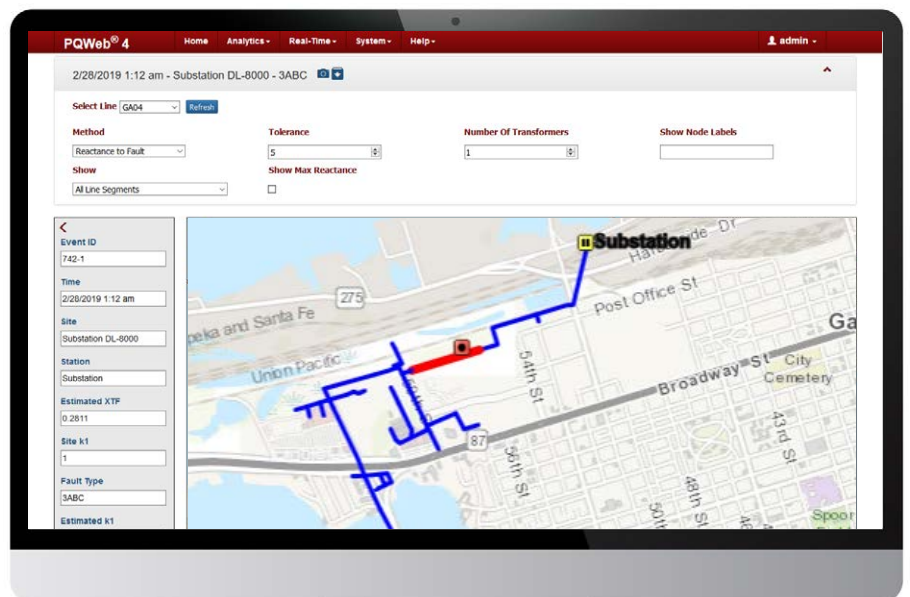
### User Management System

The PQView® Administration Service is an application server program that manages users groups and permissions. Each user group has individual set of access permissions, edit permissions, etc.



### Fault Location Detection

Fault analysis and location functionality in earth grounded networks in PQView® is enabled via the FaultPoint® Add-In Module. FaultPoint combines three functions: fault identification from waveform samples, estimation of impedance-to-fault from the waveforms, and display of the estimated fault location using interactive one-line diagrams and maps.

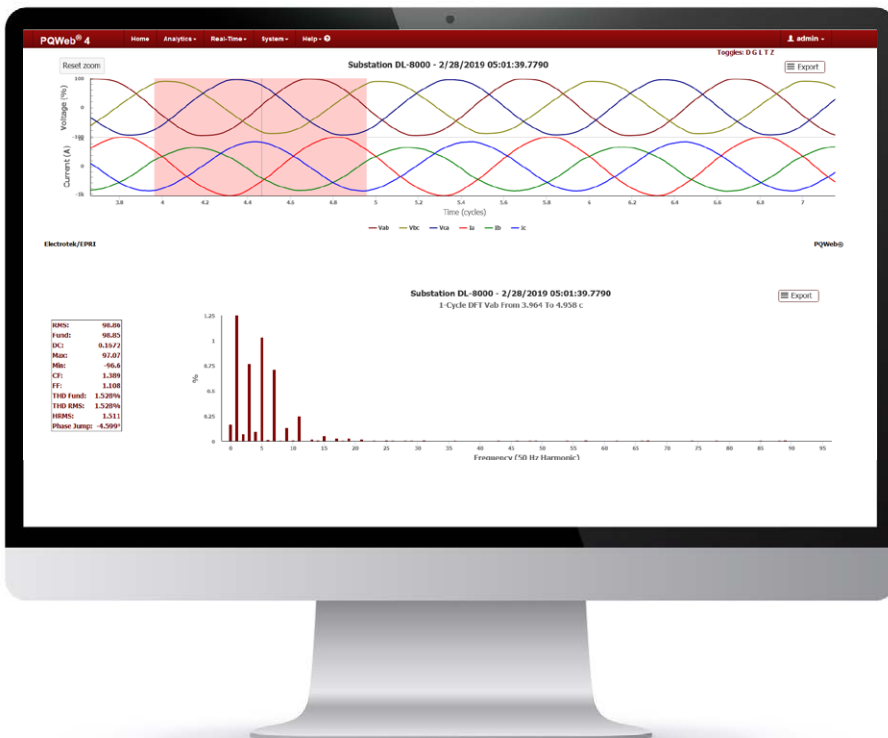
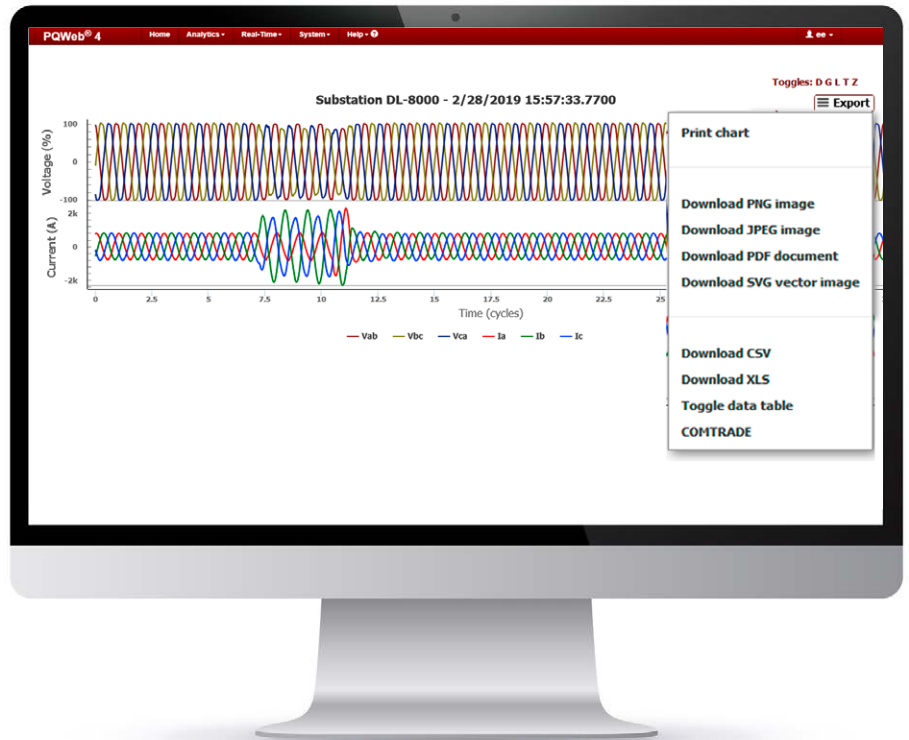


# SIMPLICITY AT ITS BEST



## Data Export

PQView® is designed using a service/server-based architecture – runs automatically in order to import data, dispatch notifications, and exports data and analytics as needed.

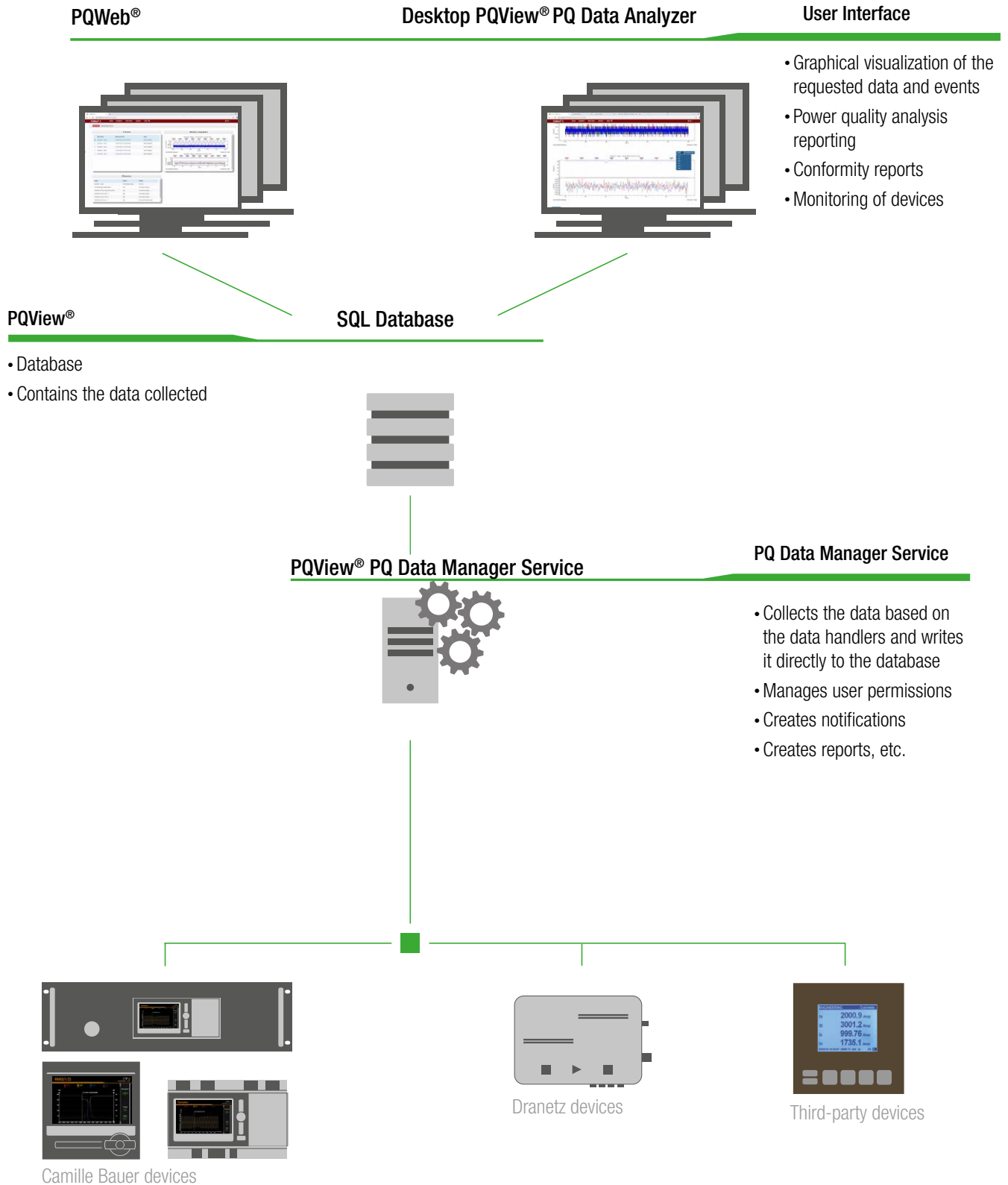


## Standalone Webservice Application

PQWeb 4 delivers the power of PQView® in a web browser, functional across all browsers. PQWeb 4 works in any modern web browser and is a fully interactive and responsive website.



# PQVIEW® SOFTWARE SYSTEM OVERVIEW



# OVERVIEW PQVIEW® VERSIONS

System Features	Professional Edition	Standard Edition	PQView® Express
Description	Full PQView® version	Limited database, administration and customization capabilities	„lite,, web server and database, data handlers and add-ins available
PQDMS Count	•	•	1
Max Monitors	•	•	100
Max Databases	•	•	1
Access database support	✓	N	N
Azure database support	✓	N	N
Windows Authentication support	✓	N	N
Language/Culture support	✓	✓	✓
Web Server	Internet Information Services	Internet Information Services	Internet Information Services alternative
Installer SET	3 distributed installers	3 distributed installers	Singlemachine installer
PQWeb Features			
Events List	✓	✓	✓
System Events List	✓	–	–
RMS Variations	✓	✓	✓
Data Logs	✓	✓	✓
Statistical Reports (e.g EN50160, etc.)	✓	✓	✓
Maps	✓	✓	✓
Real-Time Values	✓	✓	✓
PQDMS Status/Logs/Setup	✓	✓	✓
Database Editing	✓	✓	✓
PQWeb Derived Event Charts			
Spectrum from 1-Cycle	✓	✓	✓
Spectrum from N-Cycle Window	✓	–	–
Phasors	✓	✓	✓
Phasors (h=N)	✓	–	–
Spectrum and Phasors	✓	✓	✓
High Pass Filter, Low Pass Filter	✓	✓	✓
Custom Filter, Mean Values, RMS Values, Crest Factor, and Form Factor	✓	–	–
Load Resistance, Load Reactance, Load Impedance Angle, Load Impedance	✓	–	–
Load Impedance	✓	✓	✓
Delta Real/Reactive/Apparent Power and Delta Power Factor	✓	–	–
Real/Reactive/Apparent Power and Power Factor	✓	✓	✓
THD Trend	✓	✓	✓
Fundamental Trend, DC Component Trend, Harmonic Component Trend	✓	–	–
Pre-Processing Event			
Add Power, Add Residual	✓	✓	✓
Remove Load, Show Missing Voltage, Add Symmetrical Component	✓	–	–
Data Log Derived Charts			
Trend, Histogram, Profile, Stacked, Multiaxes, Multiaxes with Groups, Overlapping Multiaxes	✓	✓	✓
Sum, Absolute Values, Minimum, Average, Maximum, Min/Avg/Max	✓	–	–
Scatter Plot, Linear Regression, Crosstab by Day/Week/Year	✓	–	–



System Features	Professional Edition	Standard Edition	PQView® Express
<b>RMS Variation Analysis Charts</b>			
RMS Variation List, CBEMA, ITIC, SEMI F47	✓	✓	✓
<b>PQView® Admin Features</b>			
User & Resource Management	✓	✓	✓
Permission & Profile Management	✓	–	–
Reports	✓	✓	✓
Administration Options	✓	✓	✓
<b>Data Handlers</b>			
Advantech ADAM Data Handler	✓	✓	✓
Arbiter 1133A Data Handler	•	•	•
Camille Bauer LINAX PQ3000/PQ5000	•	•	•
COMTRADE Data Handler	•	•	•
Dranetz 8010, 7100, 5571 Data Handler	✓	✓	✓
Dranetz 5530, 5560 Data Handler	✓	✓	✓
Dranetz 5540 Data Handler	✓	✓	✓
Dranetz 61000 Data Handler	✓	✓	✓
Dranetz ES230 Data Handler	✓	✓	✓
Dranetz HDPQ-DN & HDPQ Data Handler	✓	✓	✓
Gossen Metrawatt Mavosys 10	•	•	•
IGrid Data Handler	•	•	•
MODBUS Data Handler	✓	✓	✓
PQDIF Data Handler	✓	✓	✓
PQube Data Handler	•	•	•
ION Protocol Data Handler	•	•	•
ION Database Data Handler	•	•	•
Satec 170, 174, 180	•	•	•
SEL Data Handler	•	•	•
<b>Additional Items</b>			
Capacitor Switching Direction Analysis	•	•	•
Capacitor KVAR Change Analysis	•	•	•
Capacitor Harmonic Resonance Analysis	•	•	•
Capacitor Restrike Analysis	•	•	•
Basic Capacitor Switching Analysis	•	•	•
Capacitor Synchronous Closing Analysis	•	•	•
Compliance Reports EN 5016, etc. Report	•	•	•
FaultPoint	•	•	•
One Line Diagrams	•	•	•
Phase Match Utility	•	•	•
PI System Interface: PI Event Correlation and Federation	•	•	–
Voltage Sag Direction Answer Module	•	•	•
<b>SDKs</b>			
PQView® .NET Data Software Development Kit	•	•	•
PQDMS Software Development Kit	•	•	•
PQView® SQL Interface Software Development Kit	•	•	•
PQView® Web Analysis Software Development Kit	•	•	•

further specifications which are not listed on request

• = per license



**GMC INSTRUMENTS**

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