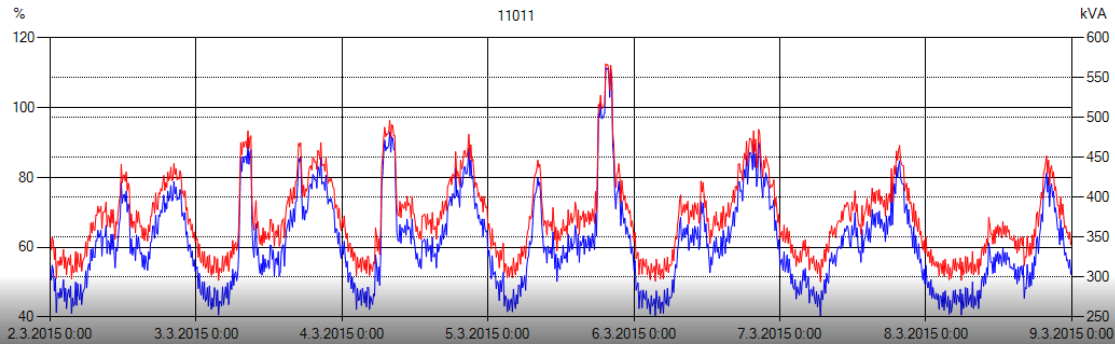
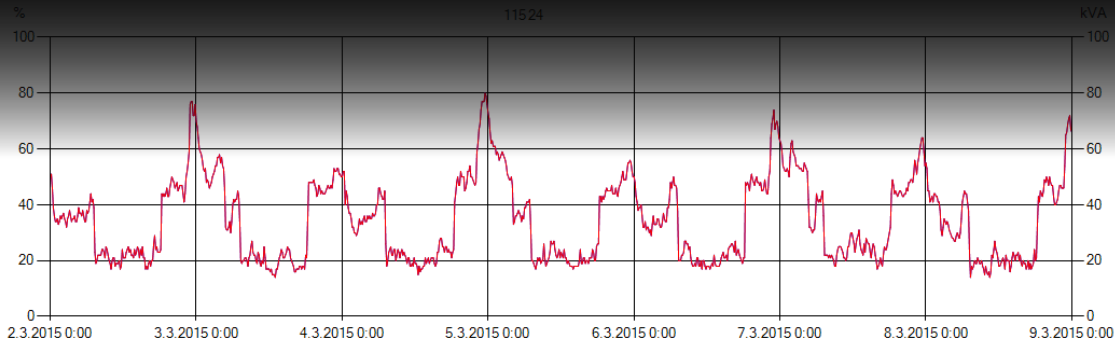


NETCON PQA

Comprehensive power quality analysis



Targets Change Save shortcut

11524 11011

Tool: Measurements

Time method: Weeks

Start and end time: 10 2015 10 2015

Synchronize

Display type: Trend

Quantities:

- Voltage L1
- Voltage L2
- Voltage L3
- Voltage L1-L2
- Voltage L2-L3
- Voltage L3-L1
- Current
- Current L1
- Current L2
- Current L3
- Power
- Real Power, P
- Reactive Power, Q
- Apparent Power, S

Show status info Interruptions



NETCON PQA

Comprehensive power quality analysis

FEATURES

Central cloud storage makes data easily available to authorised users – all they need is a Web browser

Proactive quality monitoring improves customer satisfaction

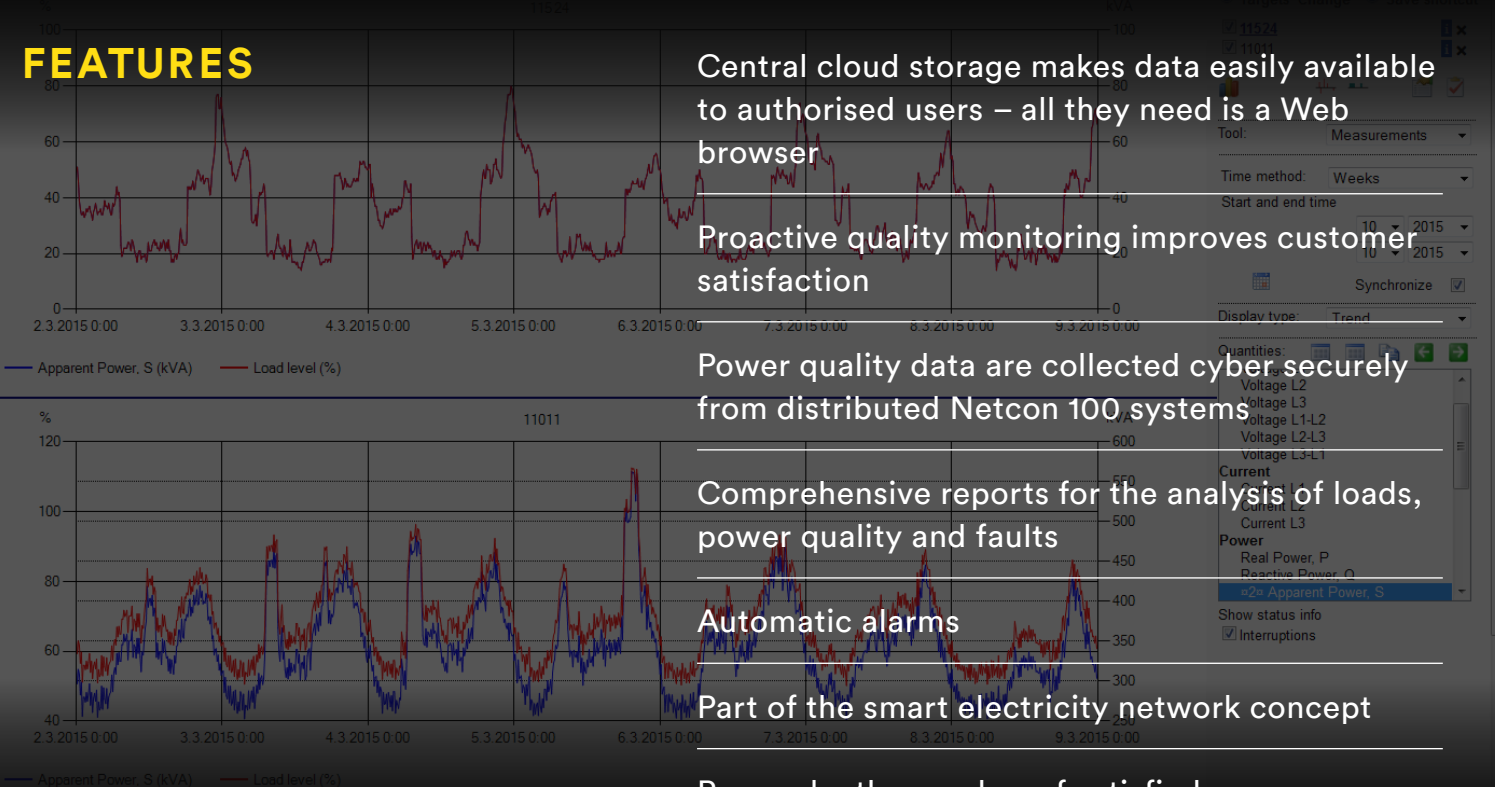
Power quality data are collected cyber securely from distributed Netcon 100 systems

Comprehensive reports for the analysis of loads, power quality and faults

Automatic alarms

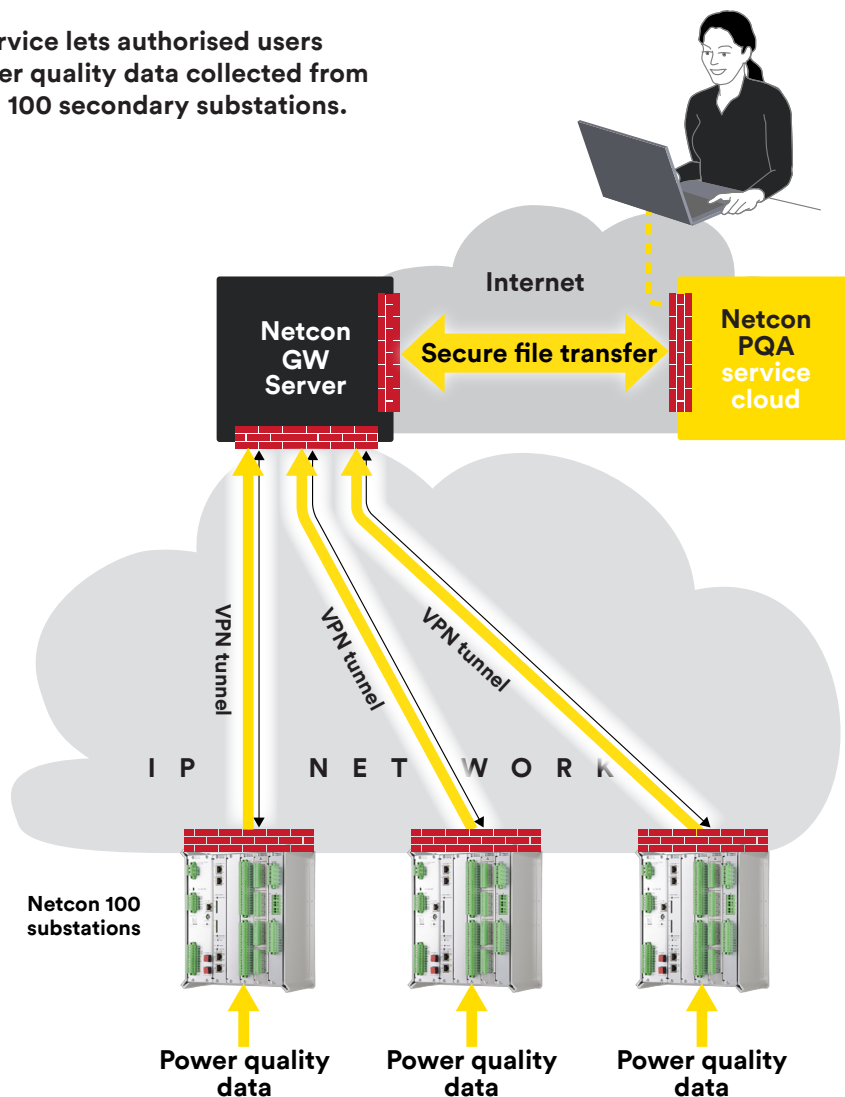
Part of the smart electricity network concept

Proven by the number of satisfied users



Collection and analysis of power quality data

The Netcon PQA service lets authorised users easily view the power quality data collected from a number of Netcon 100 secondary substations.



CONVENIENT WEB ACCESS TO DATA

Netcon PQA (Power Quality Analyser) is a tool for analysing power quality data from a number of Netcon 100 systems. A centralised cloud-based service, PQA has a standard Web page as its user interface. All legitimate users can easily access the data through their browsers.

Power quality measurements from Netcon 100 systems are first collected to one central location, usually the master station, over secure VPN

connections. (This data transfer is kept logically distinct from all telecontrol traffic.) From there the data are forwarded to the PQA service cloud by means of secure file transfer.

The Netcon PQA database can store:

- Quality data
- Disturbance records
- Events and alarms
- Hourly energy data
- Voltage dip data.



Comprehensive power quality analysis

USER BENEFITS

The comprehensive PQA reports and statistical tools provide the user with:

- Analyses of power quality (harmonics, dips etc.)
- Fault tracing
- History data on any time interval and in any quantity.

This information can be used for:

- Customer service
- Management of component life cycle and the planning of maintenance work
- Investment decisions based on information about transformer loads.

REQUIREMENTS

Hardware of Netcon 100 substations

- For low voltage measurements and transformer monitoring: Netcon LVM111 low voltage monitoring module
- For medium voltage quality measurements: Netcon FDM112 fault detection module + applicable sensors

Communication of Netcon 100 substations

- An IP connection to the master station: either a fixed Ethernet connection from the Netcon GW102 main processor module or a wireless 3G connection from the Netcon COM103 communications module

Communications requirements on master station

- Netcon Gateway Server or other OpenVPN-capable firewall to terminate the VPN connections from the Netcon 100s
- Internet connection for file transfer to the PQA services

