

RELEASE NOTE



Release Note
iQunet Software Versions
1.4.x

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Update log

Version 1.4.19 - June 2021

Fixed issues

- In some cases, the **time series graphs** did not pop up in the vibration lab due to calculation delays. This issue has been resolved.

Version 1.4.18 - May 2021

Improvements

- The **"2D/3D" button** to create waterfall graphs has been relocated to make it possible to easily switch between the single frequency spectrum or a waterfall graph.

Fixed issues

- The bug causing the **high pass filtering** to not have effect on the latest measurement saved into the "vibration" structure has been fixed. The data saved into the "vibration" structure is now the same as in the Sensor Dashboard (converted to g units and high pass filtered).

Version 1.4.17 - April 2021

Features

You can now:

- Use the Sensor Dashboard to monitor the **iQunet Current Clamps** and **Piezoelectric Accelerometers** of which the data has been digitized by the Wireless Bridge plug-in modules.
- Read out all attributes of the **iQunet Current Clamps** and **Piezoelectric Accelerometers** from the OPC UA Server.

Improvements

- The **functionality and section names of the Sensor Dashboard** have been adapted for use with the new Wireless Bridge, Current Clamps and Piezoelectric Accelerometers.
- The OPC UA nodes related to vibration have been renamed to be suited for both **current and vibration measurements** instead of only for vibration measurements.

Version 1.4.16 - March 2021

Features

You can now:

- Inspect the time domain plot of data that has been flagged as **invalid**. A **warning** will be shown on an overlay area on top of the graph for a few seconds. Afterwards the warning will disappear. This warning will not be shown on top of the frequency domain or waterfall plots.

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- Use the Sensor Dashboard in combination with the **iQunet Wireless Bridge**.

Improvements

- All read-outs from the local database on the iQunet Server are now performed in parallel improving **database read-out speed** significantly.
- The “Limit” parameter in the “Measurement Setup” section has been renamed to “**Range**” to match better with its actual meaning of dynamic sensor range.
- The check to flag measurements as **invalid** has been changed as to ignore the overshoot that can be caused by the compression algorithms. The invalid measurements will not be deleted but only flagged as invalid.

Version 1.4.15 - December 2020

Features

You can now:

- Get more information regarding the **sensor statuses** (active, last seen more than 10 minutes ago, connection pending, disconnected...) from the icons in front of the sensor names (in the “Connected Devices” list).
- Clearly make the distinction between the active, inactive, pending, and disconnected sensors due to the **sensor ordering** (in the “Connected Devices” list).
- Read out a new **daySum attribute** from the OPC UA Server showing the number of measurements made per day (located underneath the accelerationPack attribute). This feature is UTC time based.
- Reduce the **MTU (Maximum Transmission Unit) Size**. The MTU size should be set as to find the optimal balance between reducing overhead (larger MTU) and reducing network delays (smaller MTU) for the specific network connection.

Improvements

- The iQunet Server is running on latest version **Operating System** for best security.
- The DHCP **sensor network management protocol** is working asynchronously for faster sensor management.
- All **buttons** are working asynchronously so the Dashboard can be opened and used in multiple browsers at once.

Version 1.4.14 - November 2020

Features

You can now:

- Select which vibration measurements you want to inspect using the **view axis selector** (all XYZ measurements, or singular X, Y or Z axis measurements).
- Lock the **DHCP Address Pool** so an accidental sensor reboot within the wireless sensor network will not be picked up (roaming sensor devices will not be accepted by the Server for the first 15 seconds), leaving the sensor connected to the initial server.

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Improvements

- The **graph** area is first cleared completely before the start of a new (re)draw.
- **Graph related messages** are shown on an overlay area on top of the graph instead of as plain text underneath the clicked button.
- **Invalid data** is flagged (for example data taken when the battery was almost empty).

Fixed issues

- The **date selector scaling** (Vibration and Statistics Lab) is adjusted so the date selector can properly follow changes in browser size.

Version 1.4.11 - October 2020

Improvements

- A **CPU watchdog** has been integrated.

Version 1.4.10 - June 2020

Improvements

- A **'local host' time server** has been built in in case the NTP server has been firewalled.

Version 1.4.9 - June 2020

Features

You can now:

- Inspect anomalies and set alarm levels in the **"Anomaly Monitor"** panel. After subscribing to the iQunet Anomaly Monitoring Service, a model will be created based on the client's acquired data set. All historical sensor data stored on the local iQunet Server will be automatically compressed and transferred once to the iQunet Machine Learning Servers (located in the iQunet premises) to calculate a machine learning data model. This model is then returned and saved on to the client's local iQunet Server for continuous local anomaly monitoring. New measurements that differ too much from the calculated data model are detected as anomalies and can be followed up and flagged (difference based on the Mean Squared Error).

Improvements

- The **database** is optimized for large amounts of data.
- **Processing speed** is improved.

Related Documents

- iQunet 1.4.x Software User Manual-D1040-en-CUST-210111
- iQunet OPC UA User Manual-D1042-en-CUST-220906