PROCENTEC

CE Design Award
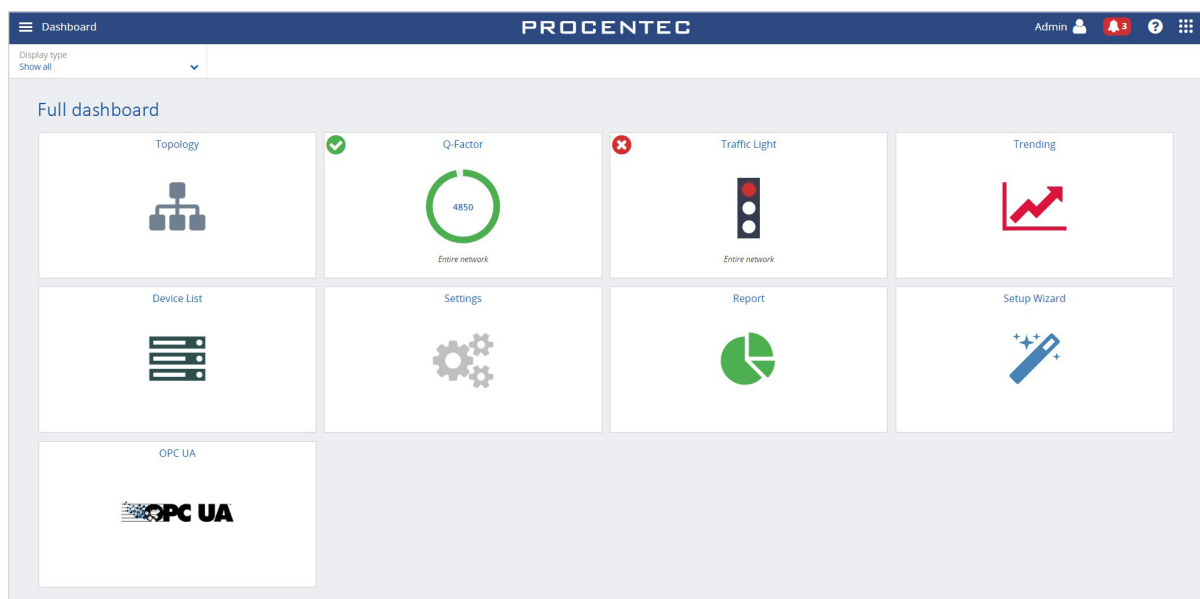1st place
Spring 2017

Atlas
The vision on Industrial Ethernet

Atlas

PROCENTEC's Atlas is the solution for monitoring and diagnosing Ethernet networks, where innovative simplicity and predictive capabilities are desired. The tool is perfect for preventing unexpected and expensive downtime in industrial networks. PROCENTEC's Atlas provides unique insight and knowledge of networks and an overview of the network health, with easy to use and understand displays of network health.

The ease of use and clear overview makes this an ideal solution for complete understanding of networks, always and anywhere. Atlas contains a compact device, that can be installed on a DIN rail and plugged in to the network. Atlas does not require additional and time consuming software installations on the PC. You can get all the information using a custom designed web application. All the information Atlas gives, can be viewed on the central, customizable dashboard page.
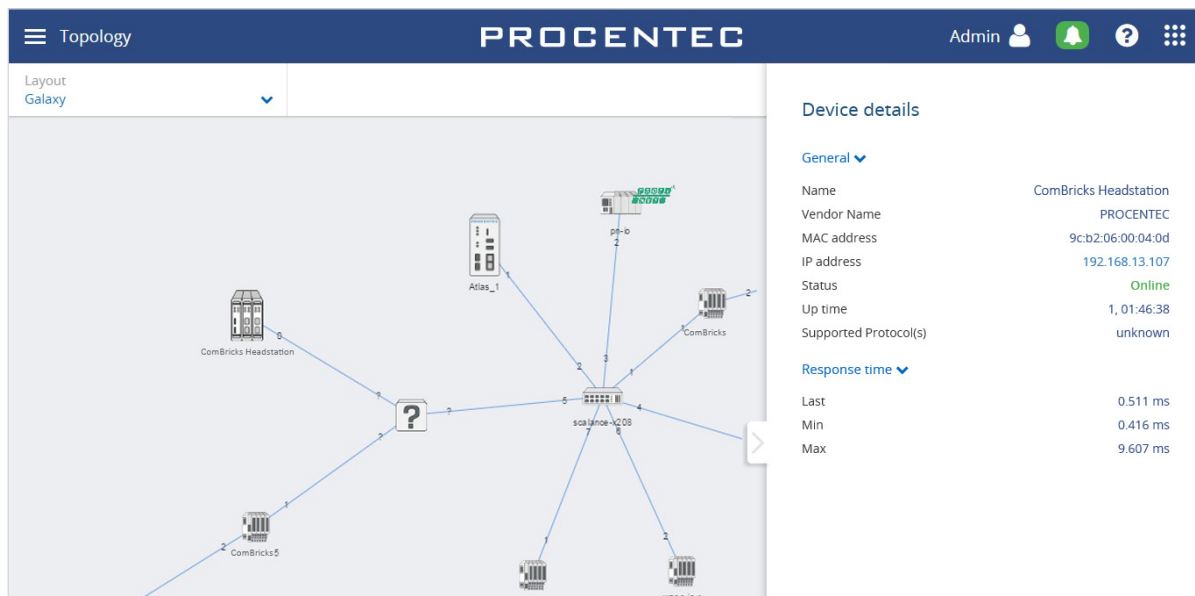

Product features

- Network Topology
- Customizable dashboard
- Network Quality Factor
- Alarms
- Not vendor or protocol specific

Topology

An Industrial Ethernet network may contain a large number of devices. Creating an overview of all these devices can be difficult. Atlas offers users a dynamic interactive Topology as one of the main features. This is a graphical and hierarchical display of a complete network. It shows all the devices the tool can discover in the network and how they are connected to each other. This innovative feature makes connections between devices become clear very quickly and intuitively. The topology can be visualized in two different ways: the galaxy view and a more hierarchic tree view. It also clearly shows dependencies to easily identify critical paths in the network, or to identify line-depths.

The topology gives information about different devices. By clicking on a device or connection an information panel will appear. This will be shown in different ways: Failed, out of specification, maintenance required and check function. This creates a visual overview and gives structure to the user.
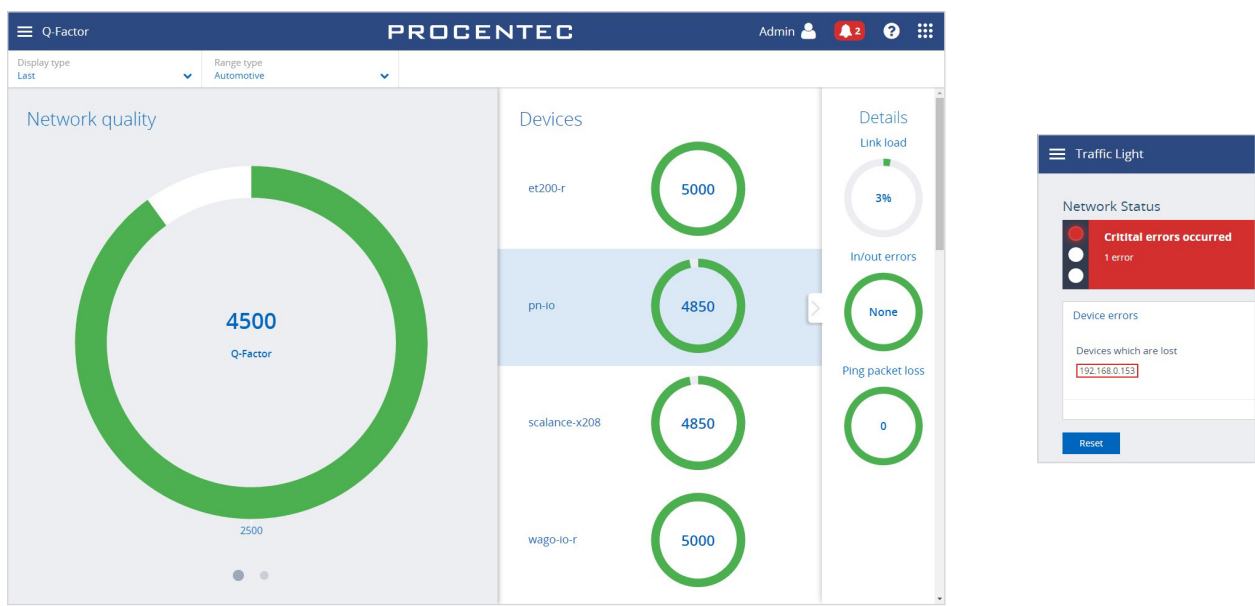

Topology features

- Galaxy or tree view
- Dynamic interactions for complete overview
- Device connections, with NAMUR status
- Device information
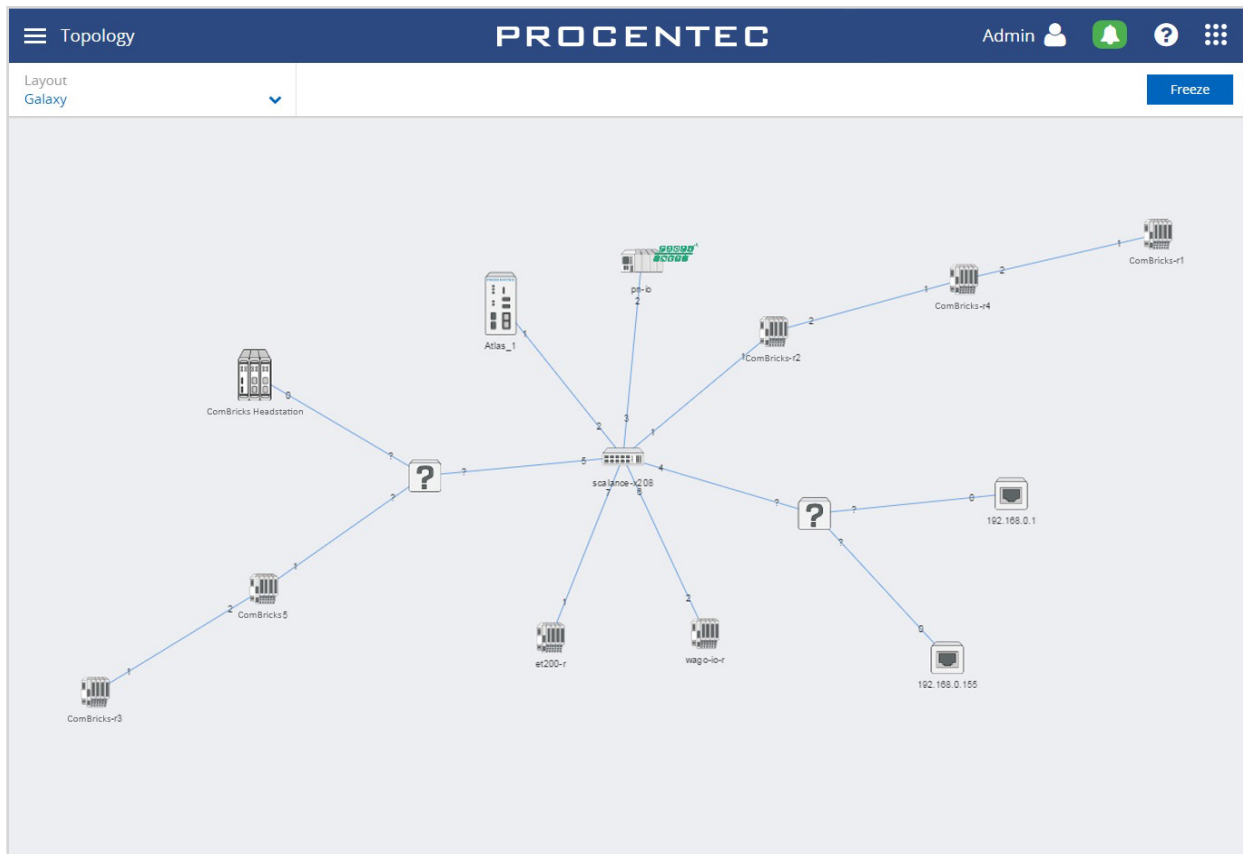
Network quality

Getting information about the quality of the network is important, but in most tools very complicated. Atlas shows this in an easy way, with the Q-Factor (Quality Factor), which is shown on the dashboard. The Q-Factor is a weighted algorithm used to give a score about the quality of the network. The Q-factor is built up from all connected devices in the network, but there is also a Q-Factor included for individual devices, allowing for quick identification of devices that could be failing. The network link-load is used to determine the value. In general, the lower the load, the higher the number.

The Q-Factor can be shown in different ways; from 0 to 5000, according to the Automotive standard, or from 0 to 100% as a relative display of the quality of the network. This is an interesting feature for Engineers, because it gives a lot of useful trending information about the network. Also included is a traffic light, which is less detailed but allows a simple overview of network status in three colors.

Network features

- Scoring mechanism
- Determining by weighted algorithm
- Automotive and absolute standard
- Traffic light feature

Layout
Galaxy ⌄

Freeze

pn-io
2

Atlas_1

ComBricks-r1

ComBricks-r4

ComBricks-r2

ComBricks Headstation

?

scalance-x208

?

192.168.0.1

ComBricks5

et200-r

wago-io-r

192.168.0.155

ComBricks-r3

Your benefits

- Ease of use
- Use of Industrial Ethernet
- Topology
- Standalone device, 24/7 available
- Safe use

- Customizable dashboard
- Resistant to all environmental factors
- Easy to install via DIN rail
- No software required

PROFI BUS

PROFI NET

Complete service portfolio

PROCENTEC offers you a complete range of services to support you as a user or supplier of fieldbus technology. Our experts with their PROFIBUS and PROFINET knowledge excel within their field of work, so rest assured that you will receive the optimal solution.

We are an official PROFIBUS International Competence Center (PICC), in addition to a PROFIBUS International Training Center (PITC) and a PROFIBUS International Test Lab (PITL). A huge bundle of expertise is therefore at your disposal!

Support

Our PROCENTEC Support Engineers live to solve any network problem you might have. In case of emergency, call the support hotline: +31 (0)6 100 742 76. Our engineers are equipped with a wealth of specialist knowledge and all necessary tools. They will gladly help you with:

- On-site and online support
- Network audits
- Network certifications
- Consultancy
- Product certifications

Training

As a PITC we give training courses at our offices, though we also teach on-site anywhere in the world. Our goal is to give technicians that extra set of skills to professionally use PROFIBUS and PROFINET. Also supervisory staff can use the acquired knowledge to organize and execute projects more efficiently, so the system's entire life cycle is optimized. We offer the following courses:

- PROFIBUS or PROFINET Troubleshooting & Maintenance
- Certified PROFIBUS Installer
- Certified PROFIBUS (DP/ PA) or PROFINET Engineer

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