Press Release

High-security communications module for those using the AXOOM Cloud

Rittal and AXOOM showcase an app for connecting and remotely monitoring refrigeration equipment – New business models as part of the "Internet of Things"

Hanover / Karlsruhe, April 25, 2016 – Secure data transmission is a key issue for the Smart Factory. That's why AXOOM, the platform provider specializing in the world of industrial production, is now using an entirely new communications module: the AXOOM Factory Gate. It is currently the most secure means of transmitting data from production. The module is capable of collecting and encrypting the sensor and machine data of all connected devices – regardless of their manufacturer – and sending them on to the AXOOM platform for visualization and analysis.

Mobile access to the platform and to individual machine data is possible at any time. However, the mobile devices do not communicate with the data providing components directly, but always via the AXOOM Factory Gate. It is based on a multi-level security and encryption concept, enabling secure data transmission at the component level (component-specific IDs), transport level (TLS / HTTPS), application level (encryption of messages) and user level (username/password). Accurate access control within the factory and out of the factory is thereby guaranteed, and unsafe incoming connections are ruled out.

With the AXOOM Factory Gate, any OEM devices can be quickly and easily integrated into the AXOOM Cloud and connected to further systems. Since all the components installed in production follow this communication path, they can be jointly controlled allowing for services such as condition monitoring, customer service, remote diagnostics or preventive maintenance. "The AXOOM Factory Gate opens up entirely new business models within the 'Internet of Things', because now an incredibly large number of different devices can be connected without a problem via central coordination points," says Florian Weigmann, Managing Director of AXOOM GmbH.

One model is being realized by AXOOM partner Rittal, a systems supplier for enclosure technology, for the Hanover Fair 2016. Digitalization of production also includes smart cooling units for switching cabinets. Connected cooling units reduce companies' monitoring requirements, making it possible to detect faults earlier and so avoid costly machine downtime. Together with AXOOM, Rittal has developed an app for the connection and remote monitoring of its new Blue e+ cooling units. The application can be seen at the Hanover Fair as part of a showcase – at the Rittal booth (Hall 11, Booth E06) as well as at the AXOOM booth (Hall 08, Booth D09). Rittal will be combining its cooling units via the AXOOM Factory Gate in the future, so that data such as temperature or current status can be transferred to the AXOOM Cloud using standard protocols such as OPC-UA or SNMP.

AXOOM's contribution to this solution includes its expertise with merging, analyzing and processing data from industrial production. In this case, the cooling units send information via the communication module to an AXOOM-operated Private or Public Cloud – depending on customers' requirements. From there, they are made available to the company in the form of a browser-based app. A graphical user interface with several "RPM counter" icons gives the responsible company employees a comfortable overview of several cooling units at once.

"With our showcase, we're demonstrating how the monitoring of enclosure cooling can be made far more efficient than it has been so far," says Steffen Wagner, Head of Product Management Cooling at Rittal. "The solution is already fully functional and can be implemented by customers according to their individual requirements." Rittal and AXOOM are already working on their next ideas.

Rittal_CoolingCockpit_EN.jpg
A graphical user interface with several "RPM counter" icons gives a comfortable overview of several cooling units at once.

■

About TRUMPF

The high-technology company TRUMPF produces machine tools, lasers and electronics for industrial applications. Products manufactured with the company's technology can be found in almost every sector of industry, from vehicles, building technology and mobile devices to state-of-the-art power and data storage. TRUMPF is the world technological and market leader for machine tools used in flexible sheet metal processing, and also for industrial lasers.

In 2014/15 the company – which has approximately 11,000 employees – achieved sales of 2.72 billion euros (preliminary figures). With more than 60 subsidiaries, the TRUMPF Group is represented in almost all the countries of Europe, North and South America, and Asia. It has production facilities in Austria, China, the Czech Republic, France, Germany, Great Britain, Italy, Japan, Mexico, Poland, Switzerland, and the USA.

For more information about TRUMPF go to www.trumpf.com

About AXOOM

AXOOM offers solutions for manufacturing companies. Its parent company TRUMPF supports it with a deep understanding of manufacturing industry. The digital business platform AXOOM covers the value chain holistically with the objective of comprehensively connecting equipment, software and processes, with people as the key focus. Together with its customers and partners, as part of Industry 4.0, AXOOM plans to take overall productivity to a whole new level, thereby shaping the future of production.

You can find more information about AXOOM at www.axoom.com

Press contact:

Florian Weigmann
Managing Director AXOOM
+49 171 8172927
florian.weigmann@axoom.com

AXOOM GmbH
Vincenz-Priessnitz-Strasse 1
76131 Karlsruhe
Germany

Anke Roser
Deputy Spokesperson TRUMPF Group
+49 7156 303-30992
anke.roser@de.trumpf.com

TRUMPF GmbH + Co. KG
Johann-Maus-Strasse 2
71254 Ditzingen
Germany