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• Sensor-Technik Wiedemann (STW) presented its onboard TC3G module at bauma 2016. The company said it serves as a gateway to cloud connectivity for mobile working machines.

WORKING MACHINES IN THE CLOUD

STW presents connectivity and cloud-based solution for construction machinery at bauma 2016

Sensor-Technik Wiedemann GmbH (STW), which offers solutions for the automation of mobile working machines, presented a cloud solution at bauma 2016 that utilizes onboard modules for machine-to-machine (M2M) as well as cloud connectivity. This solution was developed in cooperation with Cumulocity, a spin-off from Nokia Siemens Networks that develops software solutions in the field of M2M and Internet of Things (IoT) communication.

STW said that with the connectivity of construction machinery and the availability of important data from working equipment, Industry 4.0 — the so-called fourth industrial revolution in which IoT is applied to industry — becomes a reality in the construction sector, with nothing standing in the way of horizontal and vertical process integration.

The data collection and connectivity begins on the machine itself with the onboard TC3G module by STW, which normally records relevant data

via CANbus, WLAN or Bluetooth 4.0; stores it; provides it with a time and position stamp; and can preprocess and securely send it to the STW cloud, the company said. According to STW, configuration of the signals to be recorded is executed dynamically, scalably and adaptably at any time via a Web application integrated into the STW cloud and can be executed online or offline.

STW said that as part of this project, Cumulocity provided its expertise in the management of IoT devices with scalable server solutions, upon which a dedicated edition for STW with special features was built.

Once the data is stored, the cloud provides all options for appropriate evaluation, presentation and access administration or for forwarding as well as horizontal and vertical integration into the process landscape, STW said. Since no programming knowledge is required, application-specific changes can also be implemented by non-IT specialists, saving time and costs, ac-

ording to the company. The data is available for use via Internet browser. High security governing access and data storage are standard, STW said.

The vertical integration provides profiling, which is the classification of a use under a certain scheme, service optimization or condition monitoring. It supports preemptive diagnostics and maintenance as well as remote maintenance.

Horizontal integration ensures optimized work processes along the value-added chain, STW said. According to the company, its objective is higher utilization and availability as well as the improved ability to provide information with respect to a customer. As a result, additional potential arises for many companies for new services and the support of building information modeling (BIM), STW said. [dpi](#)

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www.sensor-technik.de