

 PRESS RELEASE


Creating digital value with existing production data, meeting the requirements of digital industry platforms and retaining control

## **German Edge Cloud, Bosch Connected Industry and IoTOS provide a comprehensive solution for an industrial ecosystem**

Eschborn, 10 October 2019 – German Edge Cloud, part of the Friedhelm Loh Group of companies, is presenting the “ONCITE” industrial edge cloud appliance together with Bosch Connected Industry, IoTOS and Rittal. With this all-in-one solution, manufacturing companies can now extract concrete added value from their production data. Some specifications already exist, e. g. car manufacturers such as Volkswagen or BMW have launched digital platforms such as the Volkswagen Industrial Cloud or the Open Manufacturing Platform. These allow manufacturers to track data along the entire supply chain. ONCITE is a solution that meets the growing need for real-time data availability with a scalable edge cloud data centre from German Edge Cloud and Rittal. It is located directly on site in the factories, in other words precisely where data is generated. Thanks to industrial applications from Bosch Connected Industry, German Edge Cloud and IoTOS, new technologies such as industrial analytics and AI can improve quality, as well as optimise costs and throughput in manufacturing. This creates a holistic ecosystem for manufacturing industry – linked together with strong industrial and research partners.

In ONCITE, the manufacturing and automotive supplier industries now have a comprehensive high-availability and turnkey solution to meet the latest requirements of automobile manufacturers, along with a solution for their own digitalization projects.

“Automotive suppliers currently face a major challenge. VW and BMW recently launched a digitalization initiative by setting up their own digital production platforms,” explains Dr. Sebastian Ritz, Managing Director of German Edge Cloud: “The suppliers, with up to 100,000 factories, need to be adapted to these as well as to the subsequent platforms of the other car manufacturers and top tier suppliers. However, suppliers want to retain



control of their production data without risking their supplier status. They need an affordable ‘plug-and-produce solution’.”

In the automotive supply chain, ONCITE enables secure data exchange across the supply chain with the upcoming digital production platforms of the manufacturers and top tier suppliers. Besides this, the solution – with its industrial applications from Bosch Connected Industry, German Edge Cloud and IoTOS – forms the basis for implementing Industry 4.0 applications so that factories can be digitised even further.

### **The data remains on site: short latency times for AI applications**


The real-time ONCITE is based on a highly available and scalable edge cloud data centre. The ONCITE data centre from German Edge Cloud and Rittal is located in the factory. The data is consequently recorded, stored, processed and evaluated rapidly and locally.

“By holding all the data on site, the user retains full control and decides whether and how to transfer the processed data to the various digital production platforms of the OEMs and top tier suppliers. IoT platforms such as SupplyOn or Siemens’ Mindsphere can be used to store data and to exchange production-relevant information with customers and suppliers while control over data is maintained,” explains Dr. Ritz.

The scalable edge cloud system can capture machine mass data and harmonise it across machines in such a way that AI-based production optimisations can be applied. This improves quality and optimises costs and throughput in production. The edge technology that processes the data directly at the point of origin permits minimal latency times, which are necessary to implement many Industry 4.0 and IIoT applications.

### **Quick to deploy, scalable and open**

The industrial applications from Bosch Connected Industry, German Edge Cloud, IoTOS and Rittal can be used precisely to meet requirements that are defined but also process-specific. “With ONCITE, the operator very quickly has a solution and significantly lower



costs for integration into the existing factory IT environment and for subsequent operation,” says Dr. Ritz, describing the advantages. He continues: “As requirements grow, additional services and computer performance can be quickly integrated or added. The solution offered includes a scalable edge cloud IT infrastructure, an open IIoT platform, as well as off-edge cloud usage and full service.”

Processing chains from the edge to digital production platforms can be mapped at any time. This is based on Hyper Scaler public cloud infrastructures via the multi or cross-cloud management implemented by German Edge Cloud.

With ONCITE, customers receive a full managed service that includes a hardware infrastructure. This guarantees the high level of availability and scalability required for industrial software applications at operating costs that medium-sized companies can afford.

*Characters including spaces: 5,373*

#### **About German Edge Cloud (GEC):**

German Edge Cloud is a start-up that belongs to the Friedhelm Loh Group. It has developed the first AI edge cloud for real-time industrial applications. The company from Eschborn, Germany offers private edge cloud infrastructures (Infrastructure as a Service – IaaS), platforms for data analysis (Platform as a Service – PaaS) and industry-specific applications (Software as a Service – SaaS). The goal of the solutions from German Edge Cloud is to make data quickly and easily available in networked factories and to give the customer full data sovereignty.

In cooperation with industry and research partners, German Edge Cloud develops easy-to-use comprehensive solutions that can be quickly and easily deployed at operating costs that medium-sized businesses can afford. This way, manufacturing companies can meet the challenges of digitisation “at the push of a button”.

[www.gec.io](http://www.gec.io) and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com)

#### **About Bosch Connected Industry:**

Bosch Connected Industry bundles software and services for Industry 4.0 in a comprehensive portfolio called “Nexeed”. Around 500 employees are developing and marketing software solutions for production and logistics in Germany, Hungary and China. Bosch Connected Industry’s aim is to help customers network their entire value stream. The portfolio ranges from

starter kits to complete packages, including consulting and implementation. Together, the solutions simplify employees' daily work and optimise production and logistics processes in terms of transparency, agility, costs, quality and time.

[www.bosch-connected-industry.com](http://www.bosch-connected-industry.com)

#### **About IoTOS GmbH:**

IoTOS GmbH, based in Limburg, Germany, specialises in industrial IoT applications for smart factories. The company provides software solutions for implementing Industry 4.0 requirements for product manufacturers, suppliers and service companies from all branches of industry. The IIoT applications support companies in the digitalization along the entire supply chain: from the product idea through development and production and from the entire supply chain to delivery to the end customer. For example, the IIoT applications provided by IoTOS allow the manufacturer-independent networking of devices and machines, as well as real-time analytics and traceability via the supply chain. Based on microservices, scalable solutions that can be quickly implemented are created that can then be used for factory operators' defined and mainly process-specific requirements. The objective is to create transparency across the entire value chain, increase productivity, minimise maintenance costs and at the same time implement digitised business models.

[www.iotos.io](http://www.iotos.io)

#### **About Rittal GmbH & Co. KG**

Rittal, headquartered in Herborn, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Rittal technologies are deployed in more than 90 per cent of all industries worldwide.

The international market leader's product portfolio includes configurable enclosures, with data available across the entire production process. Smart Rittal cooling systems can communicate with the production landscape, enabling predictive maintenance and servicing. The offering also includes innovative IT products, from IT racks and modular data centres, to edge and hyperscale computing solutions. In combination with partners and sister companies such as German Edge Cloud and Innovo Cloud, the "Rittal Ecosystem IT" offers a comprehensive range of products for scalable and cost-effective edge and cloud computing environments.

[www.rittal.com](http://www.rittal.com)

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