INTRANAV.

GERMAN EDGE CLOUD

Joint applications for intelligently controlled production lines, track & trace and analytics services

German Edge Cloud and INTRANAV are cooperating for the Digital Factory

Eschborn/Frankfurt, November, 18, 2021 - German Edge Cloud (GEC) and INTRANAV are combining their expertise for the manufacturing industry. The Friedhelm Loh Group's specialist for edge and cloud solutions will be working together with INTRANAV, the pioneer in hardware and software for real-time object location for the smart factory. Their vision includes track-and-trace applications for moving objects, products for intelligently controlled production lines and smart analytics services.

"Production processes and the associated supply of materials are extremely complex and highly interdependent. Only with transparent real-time data on all moving objects – from vehicles and materials to tools – can we optimise processes and guarantee quality," explains Ersan Günes, CTO of IntraNav GmbH.

"We are pleased that we can now offer, among other things, location applications in real time for the manufacturing industry through our cooperation with **INTRA**NAV," says Dieter Meuser, CEO Cloud & Industrial Solutions at German Edge Cloud: "These applications run practically in real-time and with minimal delay times, based on our ONCITE solution. Furthermore, as an industrial IoT appliance centred on the edge cloud, it permits the operation of edge and cloud-based infrastructure solutions, as well as all the services needed for hardware, software and the platform."

The location applications are based on a "Real-Time Location Data" technology stack (RTLS). In combination with **INTRA**NAV's ultra-wideband and/or multi-RTLS stack, both companies' customers can now benefit from location accuracies of as tight as +/-10 cm in industrial environments. This means that users can precisely locate moving objects on their shop floor in real time – even in application scenarios with such complex factors as changing environments, interference from metal and harsh environments, and where other tough demands are placed on location accuracy and stability. For the user, this means transparency about where moving objects are and in what condition. This all makes it possible to optimize processes, achieve process reliability, and significantly increase efficiency.

Andreas Radix, CEO of IntraNav GmbH: "We combine process virtualization with real-time indoor track and trace data, as well as with digitized workflows that largely automate the manual processes on the shop floor."

"With ONCITE, data is processed as close as possible to its point of origin. This way, huge amounts of data can be processed locally with minimal latency times; the results can be reported without delay. This is a basic requirement that lets us offer services like tracking and tracing," Dieter Meuser explains.

Controlling, analysing and optimising processes

The edge cloud-centric ONCITE industrial IoT appliance also includes cloud-native MES and MOM functionalities, which can be combined with the IIoT appliance's IoT services. Based on **INTRA**NAV real-time location data, the applications can perform transaction control, data collection or analysis in real time, for example. A cycle of analytics, alerts and live dashboarding uses the data to generate insights and optimizations.

Bottlenecks, shortages and errors can be avoided and search times significantly reduced by integrating the high-precision **INTRA**NAV real-time and sensor data. In this way, optimisation potentials can be identified on the production line while weak points and waste can be identified. Moreover, with retrograde analyses, those responsible can

examine and optimise dwell times, throughput times, material flow analyses or, for example, the trails travelled.

GEC takes on 24x7 managed services for INTRANAV on the edge cloud-centric ONCITE industrial IoT appliance.

With end-to-end managed services, German Edge Cloud ensures the operation of application software and cloud management to ensure maximum availability and data security in **INTRA**NAV projects.

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Caption(s)

Image 1: Dieter Meuser, CEO Cloud & Industrial Solutions, German Edge Cloud: "We are pleased that we can now offer, among other things, location applications in real time for the manufacturing industry through our cooperation with **INTRA**NAV."

Image 2: Andreas Radix, CEO of IntraNav GmbH: "We combine process virtualization with real-time indoor track and trace data, as well as with digitized workflows that largely automate the manual processes on the shop."

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About German Edge Cloud

German Edge Cloud (GEC), a member of the Friedhelm Loh Group, specialises in innovative edge and cloud computing. GEC solutions enable the rapid, simple and secure availability of data in connected environments. They support process optimisation, for instance in manufacturing, by empowering data analytics, and guarantee customers complete control over their data when using public or private clouds. GEC is a developer and service integrator for turnkey solutions, offering both its own and sector-specific systems. The company already deploys its solutions at the Industry 4.0 factory of sister company Rittal in Haiger. German Edge Cloud integrates and operates hybrid private edge-cloud infrastructures. Its offerings include infrastructure as a service (IaaS), platform as a service (PaaS), and industry-specific applications as software as a service (SaaS). As a founding member of the Gaia-X Foundation, German Edge Cloud seeks to establish interoperable platforms with minimal customer lock-in.

German Edge Cloud is a member of the owner-operated Friedhelm Loh Group. The group successfully operates 12 production facilities and 96 subsidiaries worldwide. It has 12,100 employees and posted revenues of Euro 2.6 billion in fiscal 2019.

More Information:

www.gec.io and www.friedhelm-loh-group.com

About **INTRA**NAV

INTRANAV is a German real-time location and sensor data service provider for industrial platforms to integrate the artificial digital twin. Through the digitization and provision of real-time position data of industrial goods, transport vehicles and people, with accuracies to the last centimeter, the **INTRA**NAV RTLS IoT platform supports the automation of logistics and production processes, such as auto-ID solutions, paperless factories, AGV (automatic guided vehicle) management and vehicle navigation, real-time material flow and shop floor management to significantly increase efficiency and process reliability, and so help implement the smart factory or digital supply chain. Besides real-time data applications for the digital twin, **INTRA**NAV also provides real-time location analyses from a platform suite that enables companies to identify significant process optimizations and make data-driven decisions. **INTRA**NAV's customers and partners include global companies such as BMW, Lufthansa, Wacker Neuson, Festo, SAP, Wirepas and GEC.

More Information:

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