

## **Press Release**

### **euromicron subsidiary telent wins IoT master agreement from Deutsche Bahn**

#### **Predictive maintenance ensures trains run on time**

**Frankfurt/Main / Backnang, October 10, 2017** – telent, a euromicron Group company, will supply Deutsche Bahn AG with smart multi-channel measurement systems and implement them at around 7,000 points over the next three years. The advantage for the rail company: Instead of being able to respond only after points fail or develop problems, telent's IoT solution detects potential defects before they actually arise. That is made possible by central remote monitoring of the point machines. telent's project partner is the Dutch company Strukton Systems, whose multi-channel measurement systems measure, digitize and process the relevant data.

Passengers depend on long-distance trains that run on time. Punctual ICE and IC connections require a secure and reliable infrastructure. If a point fails on a main route, for example, that can throw the entire timetable into confusion: Travelers arrive late for meetings, miss connections – and the rail operator incurs large costs for repairing the defect quickly. In order to further improve the punctuality of its trains and optimize availability of its network operation, Deutsche Bahn AG will set store in future by predictive maintenance in controlling its points. To enable that, the current pulse at the connection cable to the point is measured in the signal box. Special sensors also record status data, which is then analyzed centrally, at relevant parts of the point controller. Possible deviations from the reference value, such as occur before faults arise, are detected by smart systems at an early stage. Service teams can then inspect the affected parts more closely on site and – before a probable failure – replace them if necessary so that operations are not disrupted.

As a system integrator for critical infrastructures (KRITIS), telent is planning and implementing the complete remote monitoring system and providing the associated services. The software platform operated by Deutsche Bahn AG analyzes the actual data sent by the data loggers and compares it with target values. Deviations indicate a potential impairment in the point machines. The master agreement between telent and Deutsche Bahn AG comprises system components, planning services, installation and commissioning of the solution, which monitors a total of around 7,000 point machines at 305 operating control points throughout Germany.

“telent has been a reliable partner to Deutsche Bahn AG in the telecommunications segment for many years and has demonstrated its strength as part of nationwide rollouts, in particular. We're delighted at continuing our working relationship,” says Dirk Bernhardt, Head of Purchasing for Telecommunications Infrastructure, Train Marshaling Yards and Equipment at Deutsche Bahn AG. “With our Internet of Things solution, we can help enhance punctuality

and secure operations at Deutsche Bahn AG. The rail network is one of the critical infrastructures that must be operated with the very highest reliability. We're delighted that we can continue our cooperation with this new order," states Jürgen Hansjosten from euromicron's Executive Board.

**Photo: Example of a rail network at Weimar station (© Copyright Deutsche Bahn AG / Uwe Miethe)**



**About euromicron:**

euromicron AG ([www.euromicron.de](http://www.euromicron.de)) that unites medium-sized high-tech companies from the fields of Digitized Buildings, Critical Infrastructures and the Smart Factory. As a German specialist for the Internet of Things, euromicron enables its customers to network business and production processes and successfully move to a digital future. From design and implementation, operation, to related services – euromicron implements customized solutions and creates the IT, network and security infrastructures required for them. As a result, euromicron lets its customers migrate existing infrastructures gradually to the digital age. euromicron's expertise helps the company's customers increase their agility and efficiency, as well as develop new business models that lay the foundation for commercial success down the road. The technology group is headquartered in Frankfurt/Main, has been listed on the stock exchange since 1998 and employs around 1,800 people at 30 locations. The euromicron Group comprises a total of 17 subsidiaries, including the brand names Elabo, LWL-Sachsenkabel, MICROSENS and telent.

**About telent:**

telent GmbH – a euromicron Group company – ([www.telent.de](http://www.telent.de)) offers tailor-made technology solutions and smart services in the field of critical infrastructures (KRITIS). telent plans, builds and operates the network infrastructures its customers require to ensure secure enterprise communication, using cutting-edge products and systems from various prestigious vendors. In networking and automating digital business processes, telent mainly relies on its extensive expertise in the fields of cybersecurity, state-of-the-art IP and radio networks, the IoT (Internet of Things) and network management and asset management systems. The company contributes its know-how to creating suitable IoT infrastructures in order to enable faster implementation of applications for the smart city, smart energy and smart transportation, as well as solutions for industry and the public sector in Germany.

**About Strukton and Strukton Systems:**

Strukton ([www.struktonrail.de](http://www.struktonrail.de)) supports clients in the markets of rail systems, civil infrastructure and technology & buildings by using special technologies. Apart from the Dutch and European market, Strukton increasingly serves the global market with its specialized technologies. The company has around 6,500 employees and generates revenue of €1.9 billion. Strukton Rail, a subsidiary of Strukton, develops, builds, installs and maintains rail systems, with the goal of ensuring optimum availability, reliability, security and measurability of the track systems. All electro-technical activities of the Strukton Rail part of the group are united under Strukton Systems.

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