



In partnership with

MUGLER

Private 5G for Real-Time Industrial Applications

How Ericsson, MUGLER SE, and SMS group bring secure, low-latency connectivity to the metals industry

Industrial manufacturers face immense challenges in developing new materials, reducing energy consumption, and cutting emissions. Meeting these goals requires a high degree of automation and digitalization — supported by secure, reliable, and low-latency connectivity.

Together, Ericsson, MUGLER, and SMS group are demonstrating how private 5G can enable real-time industrial applications, agile research environments, and scalable digitalization for the global metals industry.

Private 5G Network

SMS group has deployed a private 5G standalone network at its Hilchenbach site in the Siegerland region. Built on Ericsson Private 5G technology and implemented by MUGLER SE. The network was brought into operation within just four weeks of project launch — creating a dedicated industrial connectivity environment for real-time data transmission and processing.

Secure Real-Time Industrial Applications

The 5G network enables SMS group to test and advance industrial use cases at scale. Applications in the areas of Mobility and Automated Guided Vehicles, Industrial Internet of Things, and Lone Worker solutions are being integrated and tested at the Hilchenbach site to evaluate their practical implementation in demanding production environments.

Research & Innovation Platform

The private 5G network serves as a platform for multiple publicly funded research initiatives, including 5G-Furios in North Rhine-Westphalia, the EU's Horizon 2020 and Zero-SWARM programs, and the CLOUD56 research project funded by the German Federal Ministry for Digital and Transport. This testing environment allows SMS group to validate use cases internally and demonstrate future applications to customers in the global metals industry.

Scalable Solutions for Metals Manufacturing

The partnership creates a scalable foundation for connected sensor and data-driven manufacturing applications. By combining Ericsson's Private 5G technology, MUGLER SE's integration expertise, and SMS group's industrial know-how, the project helps bridge the gap between physics, sensor technology, operational technology, and IT — supporting the next stage of digitalization in the steel and metals industry.

Learn more at [Ericsson Technology Alliance Partners](#)



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About Ericsson Enterprise Wireless Solutions

Ericsson's Enterprise Wireless Solutions — including Ericsson NetCloud, Cradlepoint routers, and Enterprise 5G solutions — provide public and private 5G, with zero trust security.

MUGLER

About MUGLER SE

MUGLER SE is a mid-sized company headquartered in Oberlungwitz, Saxony. Founded in 1990, MUGLER has grown into an established neutral system integrator for telecommunications networks and infrastructure in Germany. With 540 employees and its Telcomplete® full-service process, MUGLER covers the entire lifecycle of all types of telecom infrastructure — from planning and system integration through to

SMS group

About SMS group

SMS group is a global leader in future-oriented technology and outstanding service in plant and mechanical engineering for the metals industry. With 150 years of experience, approximately 14,500 employees, and annual revenues of around €2.6 billion, SMS group drives continuous innovation. A committed partner for decarbonization and sustainability, SMS group accompanies its customers across the full lifecycle of their plants.

