



## G+D expands IoT connectivity with cellular satellite services for seamless global network coverage

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The Internet of Things (IoT) is playing an increasingly pivotal role in daily life, with advancements such as Industrial IoT and Smart Cities gaining greater significance. However, connectivity remains a key challenge in fully realizing these innovations. To address this, SecurityTech company Giesecke+Devrient (G+D) is taking a significant step forward by providing global network coverage for its IoT services. This comprehensive solution integrates cellular 5G NB-NTN satellite communications alongside traditional terrestrial mobile connectivity, ensuring seamless and reliable global connectivity.

Mobile network access is now available in most parts of the world's landmass, yet the majority of the planet's surface has limited or no coverage, such as at sea, in remote locations, and across rural areas. This gap in connectivity presents a significant challenge for the rapidly expanding IoT sector. Many IoT applications depend on seamless and widespread network access to operate effectively. Without extended coverage reaching these previously inaccessible areas, the full potential of IoT solutions cannot be realized.

G+D is now closing this connectivity gap through a cooperation with Skylo, the pioneer in Non-Terrestrial Network communications, through its commercially available satellite network service. This service spans five continents, that connects to existing GEO (Geostationary Earth Orbit) constellations and is extensible to LEO (Low Earth Orbit) constellations as they come online. It complements G+D's existing partnership with Sateliot, operator of a LEO network. Both Skylo and Sateliot use the same cellular technology as the existing mobile networks. Thus, this makes satellite connectivity available at low cost by being able to leverage the expansive cellular ecosystem.

For global IoT connectivity coverage, G+D can access satellite systems in geostationary and low-Earth orbit through this new cooperation in addition to the mobile network. The GEO satellites are located at an altitude of around 36,000 kilometers and the LEO satellites at an altitude of 400 to 1,500 kilometers. The IoT devices automatically switch from mobile to satellite communication when required, without the user noticing the switch. Our partnership with Skylo allows for commercial operations today.

G+D distributes its IoT services as a complete solution, which includes an iSIM, eSIM or pSIM and IoT connectivity and is managed via an IoT platform. However, companies can also purchase only parts of the solution stack, such as the secure connectivity or the management system.

The potential applications for G+D's new IoT solution and service offering are extensive. Use cases such as asset tracking and smart farming are just a few possibilities. In the transportation and logistics sector, satellite connectivity is becoming increasingly important for monitoring and tracking goods in remote areas or at sea, where mobile network coverage is limited or unavailable. Devices can transmit and receive critical data, such as location and temperature, which are essential for maintaining the integrity of goods over satellite. Similarly, IoT solutions with comprehensive network coverage are playing an increasingly integral role in agriculture. By monitoring key data points – from soil moisture to crop maturity – farmers can optimize yields and improve overall efficiency.

"As demand for IoT connectivity continues to rise, the need for seamless global network coverage becomes essential. Only through the assurance of comprehensive global connectivity can the full potential of IoT applications be realized and leveraged to its maximum impact," emphasizes Dr. Philipp Schulte, CEO G+D Mobile Security. "Through our new partnership with Skylo, we can now close this coverage gap by offering IoT services that utilize both mobile networks and GEO and LEO-based satellite networks. This combination of cellular terrestrial networks such as 5G with cellular satellite-based non-terrestrial networks will support seamless coverage of all IoT devices anywhere in the world."

### **Event information**

G+D will be represented as a sponsor at [MWC 2025](#) in Barcelona from March 3 to 6, 2025. Several events with the participation of G+D will also take place at the 5G IoT Summit in Hall 8, Theater 4. Among other things, Simon Wakely, GVP, Global Head of Sales at Giesecke+Devrient, will speak on the topic of "eSIM technology will revolutionize manufacturing!" on 5 March 2025 at 9:05 am. In addition, Andreas Morawietz, Global Head of eSIM and Solutions Portfolio at Giesecke+Devrient, will take part in an IoT panel discussion together with Paul Hanton, Vice President of Global Carrier Partnerships at Skylo, on March 5, 2025 at 10:20 a.m. Dr. Philipp Schulte will talk about the eSIM in the session "Re:Imagining eSIM + maximizing its value for the connected world" at 12:30 pm.

## **About Giesecke+Devrient**

Giesecke+Devrient (G+D) is a global SecurityTech company headquartered in Munich, Germany. G+D makes the lives of billions of people more secure. The company shapes trust in the digital age, with built-in security technology in three segments: Digital Security, Financial Platforms and Currency Technology.

G+D was founded in 1852 and today has a workforce of more than 14,000 employees. In the fiscal year 2023, the company generated a turnover of 3 billion euros. G+D is represented by 123 subsidiaries and joint ventures in 40 countries.

Further information: [www.gi-de.com](http://www.gi-de.com)