



DB Cargo Adopts G+D's Solar Tracking Solution for Efficient and Sustainable Freight Car Management

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Complete visibility of all goods movements is critical for transport and logistics companies like DB Cargo. Telematics and sensor technology ensure that the location and condition of every rail car can be tracked at all times. To achieve this, DB Cargo is now implementing the IoTgo Track-Solar rail solution from Giesecke+Devrient (G+D), which provides efficient, sustainable, and maintenance-free tracking.

Conventional electronic devices often struggle in the harsh environmental conditions of rail transport. G+D, with decades of experience in the transport and logistics sector, offers a Telematics-as-a-Service (TaaS) approach that provides a solution for effortlessly monitoring and managing goods through integrated hardware, connectivity, and IoT platforms. Leveraging this expertise, G+D has developed IoTgo Track-Solar rail, a solution specifically designed for rail freight transport that addresses complex tracking challenges and adheres to the rail industry's strict certification standards. DB Cargo selected this G+D solution after a tender process, recognizing its comprehensive functions, durability, and precise location tracking of individual freight cars.

The IoTgo Track-Solar rail solution from G+D features a robust, reliable, and efficient solar-powered telematics unit designed for autonomous, maintenance-free asset tracking and monitoring. Accurate location tracking is ensured by precise GPS. The device boasts an IP69K-rated housing for protection against dust and water, a flame-retardant material with high fire resistance, and an integrated shock sensor.

This IoT device enables real-time transmission of location data for all freight cars without needing an external power supply. Device configuration changes can be made directly over the air (OTA). The solar cell and 27 Ah battery support a continuous power supply for location-independent operation, allowing tracking for several months at low transmission intervals even without sunlight. Track-Solar can be installed wirelessly on any surface in just a few minutes, making it ideal for continuous tracking and monitoring of a vehicle fleet.

As a mobile gateway, Track-Solar rail connects freight cars to the DB data landscape, transforming them into active components of an intelligent IoT ecosystem. Sensor and telematics data provide accurate position and movement data in real time. This empowers transport and logistics companies to plan the optimal deployment of all freight cars, leading to increased transparency, better utilization, and data-based process optimization in rail operations. "Maintaining and operating hardware for real-time tracking in freight transport can be time-consuming, complex, and costly," explains Johannes Forster, Head of Business Line IoT Solutions at G+D. "As a leading provider of SecurityTech and IoT connectivity solutions, G+D has set a new milestone with its IoTgo Track-Solar rail tracking solution, specifically designed for use in rail freight transport. G+D's innovative and, thanks to solar power, sustainable tracking device enables DB Cargo to further optimize its internal processes with data-driven decisions, thereby also reducing costs."

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 2024, the company generated a turnover of 3.1 billion euros. G+D is represented by 118 subsidiaries and joint ventures in 41 countries.

Further information: www.gi-de.com.