

Siemens Mobility digitalizes large part of DB Cargo freight car fleet

- **Siemens Mobility equips 30,000 freight cars with smart sensors**
- **Digitalization improves customer service and transport efficiency in rail logistics**

DB Cargo AG, Europe's leading rail freight carrier, has commissioned Siemens Mobility to digitalize a large part of its freight car fleet. A total of 30,000 freight cars will be equipped with the CTmobile freight sensor solution. With this system, DB Cargo can directly and continuously determine the cars' location. The sensor also provides information about load conditions. The freight cars will be equipped over a period of three years. Siemens Mobility will operate the system for six years, monitoring data acquisition and data flows through its central in-house CT server. The contract includes an option to equip up to 50,000 freight cars.

"In an increasingly digitalized world, customers expect a high level of service these days. They want to know in real-time where their freight is, when it will arrive at its destination, and its condition," said Steffen Bobsien, Senior Vice President European Assets & Technology, DB Cargo.

"We're pleased that DB Cargo has placed its trust in us for this major project, which acts as a model character for the entire industry. For Siemens Mobility, this is the largest order we've received to date for the digitalization of a freight car fleet," said Michael Peter, CEO of Siemens Mobility GmbH.

In 2017, DB Cargo announced that its entire fleet will be equipped with new sensors and telematic systems by 2020. The CTmobile system will provide DB Cargo information about its freight cars and trains in real time and can pass it on to control

centers, maintenance personnel and train operators to ensure efficient logistics and route planning. By continuously monitoring the cars, CTmobile not only helps detect theft, damage and accidents, but also provides high-quality transport documents.

By tracking the freight cars via GPS, their expected time of arrival can be optimally determined. In addition, data collected by the smart sensors can provide information about the condition of a car's load as well as the car's temperature and humidity. Since the position of each freight car can be easily tracked, DB Cargo can achieve higher car availability.

Siemens Mobility will supply the CTmobile telematics box installed on the freight car which records and wirelessly transmits the data, as well as the CTsensor device, which monitors physical conditions in the car such as temperature and humidity, and transmits this data to the telematics box. The CTsensor is usually installed in or beneath the freight car. The telematics unit records the car's position via GPS and transmits it to the central Siemens Mobility CT server application. Individual and aggregated status information can be monitored, transmitted and analyzed via secure Internet access, an automatic e-mail or an SMS alarm. Data from all device-equipped freight cars is collected in the central server and conveyed via a standardized transmission interface to the customer, where it is supplemented and processed with further information from the customer's business systems.

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Siemens Mobility is a separately managed company of Siemens AG. As a leader in transport solutions for more than 160 years, Siemens Mobility is constantly innovating its portfolio in its core areas of rolling stock, rail automation and electrification, turnkey systems, intelligent traffic systems as well as related services. With digitalization, Siemens Mobility is enabling mobility operators worldwide to make infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience and guarantee availability. In fiscal year 2017, which ended on September 30, 2017, the former Siemens Mobility Division posted revenue of €8.1 billion and had around 28,400 employees worldwide. Further information is available at: www.siemens.com/mobility.