

Infrastructure and Driveline Monitoring

ZF VCU Pro Onboard Unit and Heavy Duty TAG

ZF Group

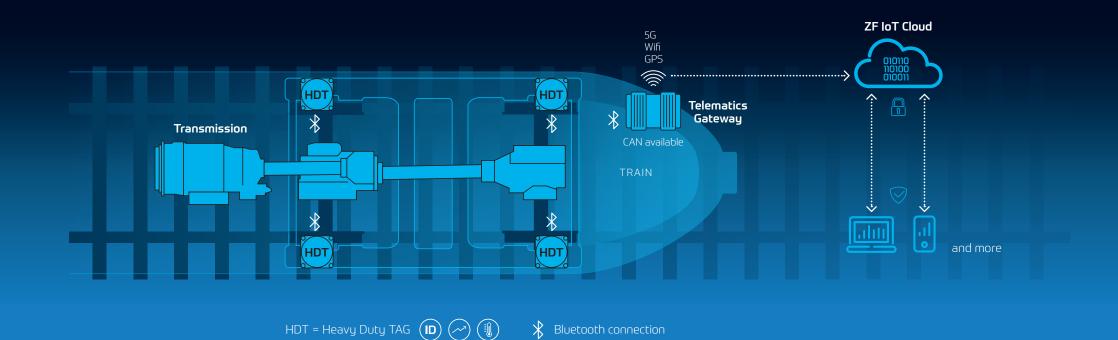
Industrial Technology
Marine & Special Driveline Technology
Ehlersstr. 50
88046 Friedrichshafen / Germany
Phone +49 7541 77-3694
Fax +49 7541 77-903694
rail@zf.com

For more information:



www.zf.com/rail





Predictive Maintenance Planning

The infrastructure and driveline monitoring system enables a status monitoring of the wheel tires and rail infrastructure. Wireless Bluetooth sensors are mounted to the unsprung axle drive or the bogie. Acceleration, temperature and tilt can be recorded. This enables the sensors to recognize anomalies in wheel-rail contact during operation, as well as the condition of the track system.

Wear (such as wheel flats), damage and potential danger spots can thus be identified at an early stage. The measurement and route data is analyzed, evaluated and visualized in the ZF IoT Cloud. Operators obtain up-to-date analyses that help them schedule maintenance cycles based on actual conditions, thus increasing efficiency and avoiding unscheduled service interruptions.

Keep an Eye on Everything. At any Time.

- Easy integration into rail vehicles in line operation
- Monitoring wheel tires to detect wheel flats and wheel-tread wear
- Monitoring changes in track conditions
- Latest algorithms to analyze the characteristics of the wheel tires and rail tracks
- Automated notification in case of detected damage and recommendations on necessary maintenance work
- Presentation in customer-specific user interface

Smart and Easy

Flexible and integrated solutions for intelligent connectivity systems.







Heavy Duty TAGBluetooth sensor