Intelligent fleet management for rail vehicles

ZF Smart Identification
The ZF Smart Identification system enables a smart, wireless identification of components in rail vehicles which in turn allows for a simplified maintenance planning and an efficient fleet management. Therefore ZF integrates an RFID chip with a unique ID into the transmission’s type plate. Via this Smart Typeplate, users can access data such as type designation, material number as well as technical details. In addition, users can determine the actual operating hours.

**Functions**
- Automatic read-out of product data via mobile or stationary terminal units
- Instant access to product and service documentation
- Information is available via the ZF IoT Cloud at any time
- Over-the-air updates of service functions
- IoT-based service

**Digitizing the Maintenance Protocol**

- Seamless, continuous detection of the components when vehicles enter the depot
- Automated, faultless identification, even without direct visual contact
- Online paperless documentation on site
- Service carried out according to precise manuals and checklists
- Processing of open maintenance and repair work
- Simple communication between operator, customer and service

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**Keep an Eye on Everything. Digitally.**

- Monitoring of operating hours
- Assignment of components to a specific bogie/vehicle
- Compatible with non-ZF products
- Data security

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<th>Smart Typeplate</th>
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