Wabtec CORPORATION

Transit

Remote Monitoring & Diagnostics - IoT Gateway for Brake System

Remote Monitoring & Diagnostics (RMnD) - IoT Gateway for Brake System

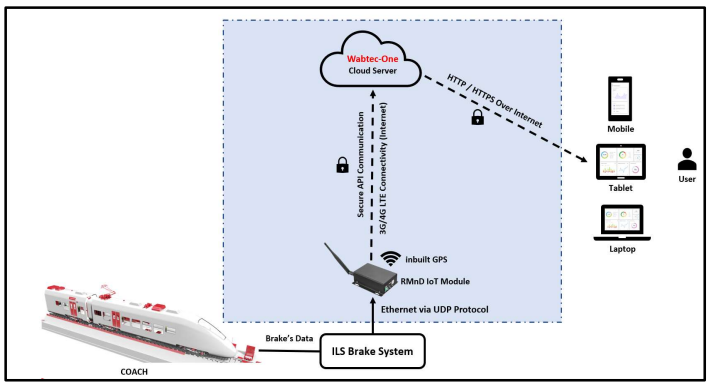
Description : A system to remotely monitor and perform system failure diagnostics in our products

Application : Locomotives, metro, high speed brake systems

Customer : Any car builder

Key benefits of product :

- With remote monitoring and diagnostics, real-time dashboard on performance and real-time alerts of system failures can be sent to user
- Maintenance schedule can be optimized based on prediction of failures
- Service response time can be synchronized with a predicted failure to ensure availability of service engineer and spare parts
- Spare parts inventory can be optimized based on prediction of failures
- Database of failure rates, failure modes, design changes and their respective impact on the system failure to be dynamically maintained.



Salient features :

- Live data transmitted from IoT module to Wabtec One (Uni-directional protocol)
- Data transfer from system uploaded into WT One cloud
- Data analytics and prediction models built based on specific failure modes at part level
- Reliability performance dashboard gives overall system health
- Database of failure rates, failure modes, design changes and their respective impact on system failure can be dynamically maintained

Specifications :

• Standard	:	EN 50126
• Operating voltage	:	78 to 136 VDC according to EN 50155
• Processor	:	Arm Cortex™ A7, 800 MHz
• Memory	:	512 MB RAM 512 MB NAND storage
• Connectivity	:	Ethernet, Wi-Fi, Sierra Wireless EM7565 4G LTE, RS 232, RS 485, CAN
• IP	:	IEC 60529