





Ethernet-based TCMS

(Train Control and Monitoring System)

Mitsubishi Electric provides TCMS based on train-wide Ethernet communication and wireless communication between train and wayside for reliable and efficient train operation.

Ethernet (100BASE-TX) **network**

High-speed and open network
IEC61375(Ethernet Train Backbone/Ethernet Consist Network)

Reduction of Hard-wires

Reduced in-car hard-wires by transmitting control commands and applying Remote I/O

Integrated Train-wide Control

Total control over on-board equipment operation for improved energy efficiency

Data transmission to WMDS

Remote monitoring, diagnosis and parameter setting of onboard equipment

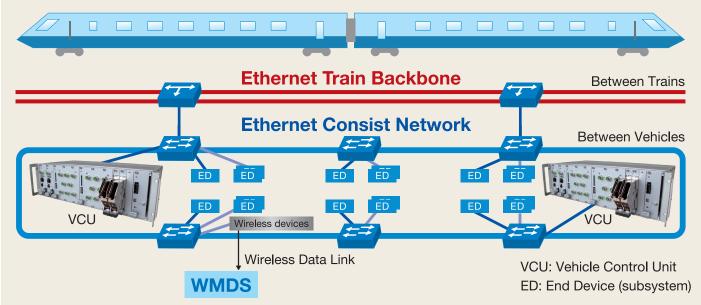




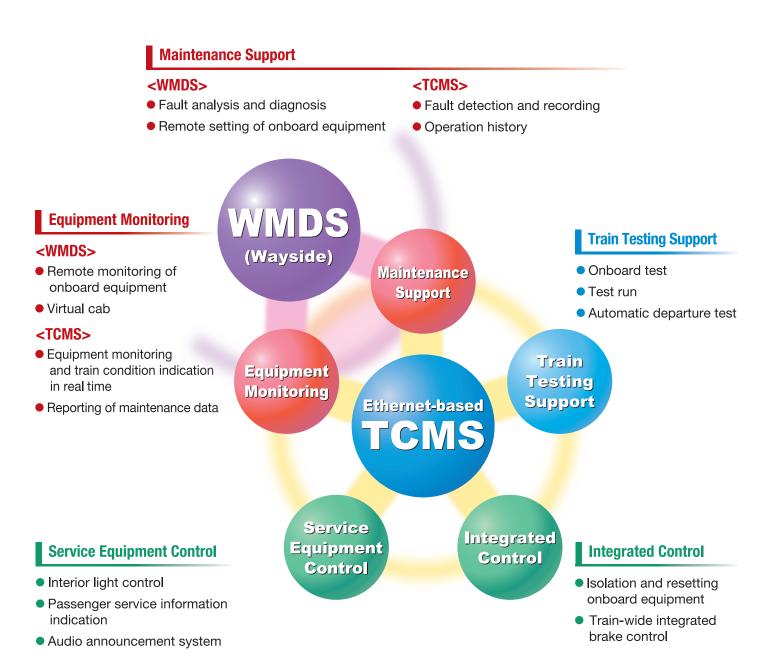
Drivers Display



Monitoring



- High bandwidth train-wide network enhances all TCMS functions:
 equipment monitoring, maintenance support, train testing support, service equipment control and integrated control.
- Data communication to WMDS enhances two TCMS functions: equipment monitoring and maintenance support.



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http://www.MitsubishiElectric.com