



**Bombardier Transportation**

**company**

A global leader in the rail equipment manufacturing and service industry. Bombardier Transportation provides after sales service and equipment maintenance for up to 30 years in service use.

**needs**

The key needs were to address business critical issues which primarily include safety and security. Furthermore, there was need to improve maintenance efficiency, cost & reliability and to expand the business by offering maintenance services to the rail industry.

**solution**

The complete rail equipment monitoring solution comprised an end-to-end system utilising the GPRS network and the Internet.

- A control unit within each carriage monitored critical parameters such as wheel adhesion, door closing times, engine performance, location etc.
- Comtech integrated network and equipment protocols into a GPRS asset monitoring device to deliver information reliably to a central application via the GPRS network..
- The central management application provided alarms and reports to equipment maintenance staff and train operators.

**benefits**

The rail equipment monitoring solution created efficient maintenance operations and improved end user service, through: -

- Business critical information supplied to rail industry on a service basis.
- Targeting issues accurately.
- Planning daily equipment maintenance schedules more efficiently.
- Smoothing the workload to staff.

**Comtech M2M**

is the UK's leading machine-to-machine (M2M) technology company. M2M is the ability to connect remote devices with central IT systems and business processes without human intervention. μWEAVE is a robust communication platform for monitoring, controlling and managing any remote equipment across wide ranging industries. *extra ...* is a wireless digital signage application that operates on the proven μWEAVE communication infrastructure.

“ Comtech worked closely with Bombardier Transportation to deliver an intelligent GPRS solution using their existing technology. This phased development resulted in a solution that was deployed on-time and within budget. ”

Vince Smedley, Technical Director, Bombardier Transportation