Telematics/Remote Monitoring: One Year Later

User Applications & Asset Visibility with a View to the Future

MARTS
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What is telematics?

- Blending of two technologies: Wireless Telecommunications and computers (or Informatics)
- Used extensively to describe the technology for communicating sensor readings from remote vehicles
- Information communicated includes current status from sensors or metrics used to predict future performance defined as Condition Monitoring.

- The process of reading one or more sensors to assess the condition of freight cars, monitoring change indicative of a developing failure. It is a major component of predictive maintenance.
- The use of condition monitoring allows for proactive, predictive maintenance, or other actions to be taken to avoid the consequences of failure, before the failure occurs.
Global Positioning System

- World-wide navigation system formed from a network of satellites placed in orbit and maintained by the U.S. Department of Defense.

- Originally designed for military applications

- Location is calculated using satellites as reference points to obtain location within a matter of feet.

- It is always on and is available anywhere in the world.
Panel

**Don Loftis**
Principal Software Engineer Advanced Automation
Chloralkali Products
Olin Corporation

**Robert Toms**
Director Research & Development
Union Tank Car Company

**Bill Coupe**
Senior Analyst
Business Analytics Group
Railinc Corporation

**Patrick Ameen**, Moderator
VP & General Manager
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