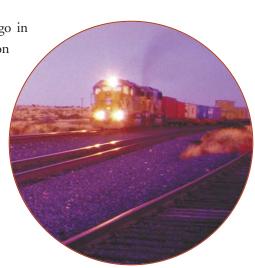# Improve Operational Productivity and Reduce Cost

With billions of dollars of equipment and cargo in transit at any given moment and your reputation on the line every day, you need a system that will increase equipment utilization and reduce re-handles, dwell time, and overhead. Through seamless and efficient equipment tracking, TransCore's proven Amtech® radio frequency identification (RFID) automatic equipment identification (AEI) system offers a reliable and cost-effective way to improve the productivity of freight rail operations.

TransCore's wireless solutions electronically identify and monitor rail and intermodal equipment in real time. Our AEI system eliminates error-prone manual data entry by collecting data electronically, providing faster and more reliable data collection.

How? Tags attached to locomotives and wagons provide equipment-specific information. Readers are placed at strategic junction points along each line, and as tagged equipment passes a reader, valuable asset data stored in the tag is recorded in real time. The data is then transmitted to your host computer, automating and simplifying system management functions while providing perpetual inventory control. The system can also monitor critical information, such as fuel and water levels, and oil pressure. Neither extreme weather conditions nor temperatures hinder the system's accuracy or performance.

TransCore has distributed more than 5.5 million RFID tags and 15,000 RFID readers worldwide within the rail industry. We pioneered RFID-based AEI, as well as automatic equipment monitoring (AEM) for rail and other

"AEI boosted the reliability of our data into the upper-90 percent range."

~ Robert Lease
director of transportation, customer service and support
***Burlington Northern Santa Fe** (BNSF)*

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Using TransCore's Amtech technology, BNSF improved efficiency with the ability to locate shipments in real time and detect service disruptions and problems that occur on the line. Now BNSF employees know what's happening and when it's happening while 1,200 trains cross more than 31,000 miles of track. Problem response time has been reduced to as little as four hours from the previous 16-to-18-hour range. In fact, the system is so accurate that BNSF prefers TransCore's AEI system over competitor's systems to keep the largest U.S. railway on track.

transportation markets. The Association of American Railroads (AAR) adopted TransCore's technology as the basis for its standard that requires radio frequency (RF) tags on every piece of rail equipment in interchange service in North America, and today, 99 percent of railcars in interchange service on Class I railroads in the United States are equipped with TransCore's Amtech tags.

Key Applications: Automatic Equipment Identification (AEI)

- Railcar and equipment tracking
- Yard management and equipment inventory control
- Gate control access
- Fuel terminal authorization

Key Applications: Automatic Equipment Monitoring (AEM)

- Assessing locomotive, generator, or refrigerator fuel levels
- Using electronic seal technology to provide security, high value asset protection, and intrusion detection
- Ensuring load integrity

Key Features

- Allows real-time classification, tracking, and status
- Improves data collection accuracy
- Streamlines data collection and record management
- Reduces maintenance
- Automates wayside detection and railcar weighing
- Reduces dwell time and labor costs

Get Your Rail Operations on Track with TransCore

Improve your rail operations with the proven effectiveness and cost efficiency of TransCore's Amtech systems. With our expertise, we can design an RF-based technology solution to increase productivity and reduce the cost of your rail operations. Contact us for a customized solution today.

Intertech•Rail

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