

TeleNostics™ From Data, Performance



TeleNostics benefits

Real-time data, location, and condition data (telematics)

Performance optimization for maintainers and operators using on-condition techniques to align tasks to environment (diagnostics)

Predictive performance actions based on remaining useful life (prognostics)

More efficient use of fuel, labor, time, and inventory

Improved asset utilization

Better asset availability

Overview

In today's cost-sensitive environment, managers of large specialty-vehicle fleets and equipment are investigating integrated solutions to achieve lower costs, higher margins, and better productivity from their field systems. Early adopters of telematics-based solutions tried to increase equipment utilization and vehicle, driver, and maintainer performance, but were frustrated by the lack of integration and system cost and complexity. Since then, hardware costs have fallen dramatically and technology has become more reliable. At the same time, global competition for resources has caused fleet managers — especially in large specialty applications such as snow management, utilities, freight, construction, and fire and rescue — to once again review technology opportunities to improve mission performance and reduce total ownership cost.

BAE Systems, a leader in diagnostics and prognostics technology development for the Department of Defense, is addressing the specialty-fleet market with an integrated blend of telematics hardware and software fused into a Web-based performance management and optimization suite called TeleNostics™.

Customers of BAE Systems' TeleNostics solution are expected to:

- Realize a 20 percent reduction in overall operating and support cost.
- Experience a return on investment in months.
- Reduce the number of routes and unnecessary engine idling time.
- Reduce their carbon footprint.
- Reduce liability protection costs and unnecessary litigation.

Validated by industry groups such as the Aberdeen Group and ABI Research, the savings are documented and achievable at a low investment cost.

TeleNostics advantages:

- Integrated solutions for monitoring key performance sensors
- Embedded optimization algorithms that anticipate failures
- Low-cost communications for data capture and transmission
- Flexible architecture designed to integrate emerging technology
- Innovative techniques for point-of-performance support tools
- Modeling and simulation capabilities to reduce troubleshooting time and increase accuracy
- Reliability-centered maintenance to reduce unnecessary scheduled maintenance
- CERTIFY™ (capture, evaluate, redefine, target, implement, and follow up) process analysis to match the right technology to performance targets

FOR MORE INFORMATION, CONTACT:

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