

# NormNet<sup>®</sup>

# NormNet<sup>®</sup> Prognostic Health Management

## Features

- **Accurately models complex, high performance systems**
- **Detects early warning indicators of degradation and future failures**
- **Diagnoses most probable cause using advanced fault mode signatures**
- **Predicts mission impact/RUL**
- **Processes in real-time or as part of a overall management system**
- **Can be embedded in a system or as an off-board analysis tool**
- **Integrates with current sensors, data sources and operations**

## Benefits

- **Increases system availability**
- **Decreases cost of system operations**
- **Converts unscheduled outages to planned maintenance**
- **Reduces false alarms and "cannot duplicate"**
- **Fixes problems while they are small and contained**
- **Minimizes major failures**
- **Enables condition-based maintenance**
- **Improves safety**

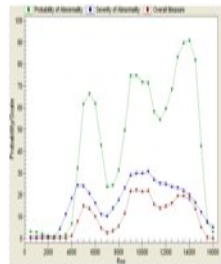
**NormNet<sup>®</sup> PHM technology alerts you to future failures in complex systems before an actual service interruption occurs**

Combating unplanned outages, increasing system availability and reducing cost of operations is being achieved by maintenance strategies such as CBM that shift time-based scheduled maintenance to preventive and predictive approaches based on evidence of need. These strategies are projected to reduce Total Ownership Cost while enhancing system operations. However, their effective implementation requires the ability to continuously monitor the performance of the system, detect abnormal conditions, diagnose failing components, predict mission impact and recommend remedial action in time to avoid negative mission impact or catastrophic failure.

NormNet<sup>®</sup> PHM technology provides early warning of future system failures – reducing unplanned outages, increasing availability and reducing maintenance cost. NormNet<sup>®</sup> uses data that you already collect. It does not require changes to your sensors, data sources or operational procedures. System abnormal behaviors and future problems are identified by detecting small variances from predicted normal behavior. NormNet<sup>®</sup> was designed for the dynamic environment of a USAF fighter aircraft. It can process input from multiple sensors in real time while detecting small variances from expected performance with a low rate of false alarms.

- With NormNet<sup>®</sup> PHM technology, an operations staff can
- Identify problems and schedule a planned response before an unexpected system failure or catastrophic event.
  - Improve system availability while reducing costs
  - Enable CBM by permitting maintenance to take place based on actual equipment performance characteristics.

**A critical system is about to fail!**



**What could you save if you knew about it in advance?**

**Increase the Availability of Your Critical Equipment**

For more information, please contact [ProductInquiry@FTI-NET.com](mailto:ProductInquiry@FTI-NET.com)