GoDirect™ Connected Maintenance for Mechanical Components

Features

• Connected Components program provides an on-condition / predictive maintenance service and helps reduce unscheduled maintenance events due to failed components. Monitor mechanical components and generate specific, actionable alerts to implement preventative health monitoring solutions.

• Diagnostic and Health Monitoring provides digital transformation from scheduled preventive maintenance to predictive maintenance with enhanced reports & data trends indicating system health utilizing existing aircraft data.

• Predictive Maintenance offers component level insight into system issues, notifications, recommended actions and applicable reference to the aircraft maintenance manuals.

• Asset Management and Inventory Control by helping track assets and maintain inventory at optimal levels for the Airlines.

• Connected Components utilizes existing aircraft data and provides alerts in real time. It requires no costly retrofit. The service is delivered over the web through a secured website that customer has access to.

Customer benefits at a minimum in the following categories:

• Reduce preventive maintenance costs (labor hours, fuel burn, parts replacements)

• Reduced troubleshooting labor

• Less ground equipment usage (possible)

• Improved first time fix rate

• Reduced no fault founds penalty

• Fewer premature part removals

• Reduction in delays and cancellations
On-Condition / Predictive Maintenance from Unscheduled Maintenance events
- Reduction in number of operational disruptions
- Fewer unscheduled maintenance events due to failed components

Asset Management and Inventory Control
- Track assets and maintain inventory at optimal levels

Operation
- Uses QAR Data, Fault Data, ACMS reports, flight schedules, schedule disruptions, maintenance data, MRO shop data, and Weather data
- Alerts provide health check, components analysis, recommended actions

Value to Airlines
- Maintenance Team:
  - Convert Unscheduled Maintenance events to On-Condition / Predictive Maintenance
  - Reduce NFF rates & early removals.
  - Reduce component life unpredictability.
- Flight Ops Team: Reduce schedule disruptions caused by unexpected component failure

Solution Overview
- Reduce Schedule and Operational Disruptions due to component failures
- Proactively manage the health of critical components on aircraft

Input Data
- ACMS reports & QAR data
- Maintenance and Tech Logs
- Actual flight schedule
- Schedule disruption events
- Maintenance data
- MRO shop data

Advanced Analytics
- Analyze data in real-time to identify on-condition problems

Maintenance Alert
- Proactive, actionable tasks, and troubleshooting