

GODIRECT™ CONNECTED MAINTENANCE

Nose-to-Tail Prognostics and Insights





Honeywell's GoDirect™ Connected Maintenance is a nose-to-tail solution that analyzes aircraft data to deliver diagnostics and predictive, prescriptive alerts. It takes the surprises out of aircraft maintenance.

What Will Fail and How to Fix It

Today's aircraft generate a wealth of health and performance data. Analyzing this data in real time enables maintenance teams to predict faults before they happen, improving aircraft reliability, reducing costs and limiting delays.

GoDirect Connected Maintenance is a feature of Honeywell's easy-to-use GoDirect analytics platform. Its advanced, machine-learning algorithms pull insights from reams of fault data, system performance reports, flight schedules, unscheduled disruptions, flight data, maintenance data and MRO shop records. Users save money and time through:

- **Predictive maintenance:** Advanced analytics provide alerts of impending failures and prescribed maintenance actions.
- **Cognitive diagnostics:** Machine learning reduces troubleshooting and allows faster fixes.
- **Wireless data transfer:** Wirelessly moves databases, software and flight data to and from the aircraft.

Beyond Health Monitoring

GoDirect Connected Maintenance doesn't just show trends; it gives specific alerts about impending failures and instructions on how to fix them.

Our artificial intelligence system ingests manuals and airline maintenance notes, learning from the actual crews who maintain your aircraft. This reduces troubleshooting time.

Our algorithms prevent false alarms by sifting through nuisance fault messages coming off the aircraft. They only alert maintenance teams when there is a 98% probability that a failure is imminent. Users can access detailed data through mobile devices or an online portal.

Benefits include:

- **35%** Reduction in operational disruptions
- **1.5%** No fault-found rate
- **100%** Existing data without costly retrofitting
- **10-15%** Reduction in premature removals

Any Aircraft, Anywhere

GoDirect Connected Maintenance is available on multiple aircraft OEM platforms and works with both Honeywell and non-Honeywell aircraft systems. Other approaches require retrofitting the aircraft for data collection; our system works with your existing IT systems.

GoDirect pulls data from throughout the aircraft but focuses attention on items that cause the most delays and cancellations, such as fuel, hydraulic, air conditioning, power and flight control systems.



Identifies potential problems before they can cause delays by analyzing multiple data sources.



Alerts airline maintenance chiefs up to three days before predicted failures.



Pinpoints components likely to fail to save troubleshooting time and cost.



Reduced inoperative equipment by 35 percent.



Predicts part failure with 99% accuracy.



Examples include:

- **Environmental Control Systems:** Airlines invest extensively in preventive maintenance to avoid hot cabin events or other environmental control system (ECS) failures. GoDirect Connected Maintenance offers automated health checks instead. Smart Diagnostics provide component-level insights into issues with cabin air conditioning, pressurization and pneumatics.
- **Auxiliary Power Units:** An APU failure causes significant operational disruptions and severely impacts the passenger experience. Honeywell, a pioneer in APU technology, has more than 95,000 units in operation around the globe. GoDirect Connected Maintenance continuously monitors this APU data, comparing it against the information in our unique database and yielding insights to inspect and repair APUs before they fail.
- **Wheels and Brakes:** Airlines can save money by optimizing the use of brakes, reversers and flaps during approach, landing and taxiing. GoDirect Connected Maintenance can help maximize braking life and uncover potential savings of 15-20% in inventory and materiel planning.
- **Various Mechanical Components:** Airlines can predict failures of key line-replaceable units across the aircraft. While many of these components do not have sensors actually on them, Honeywell has developed proprietary algorithms that look at system effects and predict impending failures.

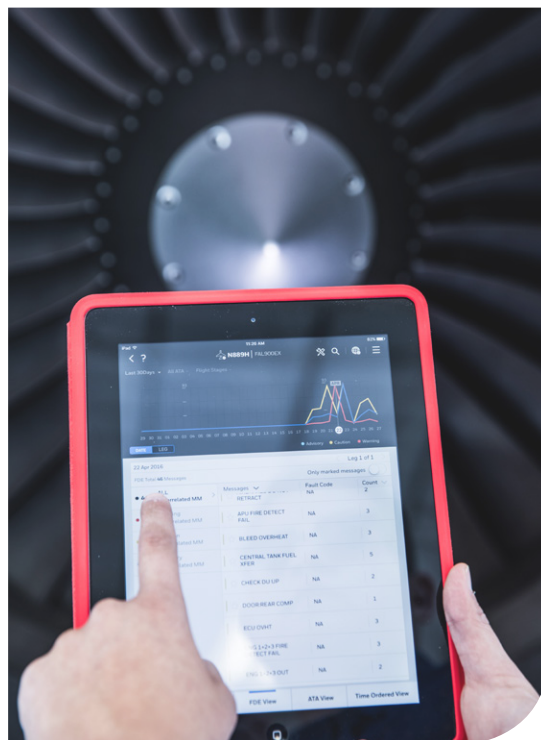
Tailored to Your Company

Our solutions are flexible and can be tailored to accommodate the needs of any business. With predictive maintenance, airlines have cut troubleshooting time by 25% , reduced inoperative equipment by 35% , and reported a 10% annual service savings.

Ready to learn more? Visit aerospace.honeywell.com/godirectconnectedmaintenance and request a demo. Let us show you what true, prescriptive maintenance means for your company.

“Honeywell’s GoDirect Connected Maintenance helps support our commitment to passengers by reducing operational disruptions and limiting flight delays, without adding any sensors or a single ounce of weight to the aircraft”

Neil Glenn,
Director Engineering, Cathay Pacific



For more information

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