Flight Data Analytics
for Maintenance and Engineering

Identify Technical Issues Before They Occur

Leveraging Teledyne's extensive expertise in data processing and analysis, Flight Data Analytics (FDA) for Maintenance & Engineering (M&E) converts time-series (QAR) aircraft data into actionable information that Maintenance & Engineering organizations can utilize to prevent potential issues and avoid costly flight delays and cancellations. Teledyne's FDA for M&E enables airlines to make data driven decisions that can positively impact their bottom line and improve their overall level of performance.

Standard Analytics Package

- Engineering event and exceedance detection
- Alerting via email and text messaging
- Automated scheduled reporting
- Full flight data export for third party services
- A full suite of dashboards for easy statistical analytics and trending

Key Benefits for the Airline

- Enable more effective aircraft troubleshooting
- Convert unscheduled maintenance into scheduled maintenance
- Eliminate technical delays & cancellations
- Improve on-time performance

Aerospace Electronics
Teledyne Controls

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Additional Options

Data Delivery

- Cellular data global roaming connectivity
- GroundLink® base station hosting
- Ground data distribution to control and share partial or full flight data on your own terms

FDR Validation

- Full multi-flight recording validation
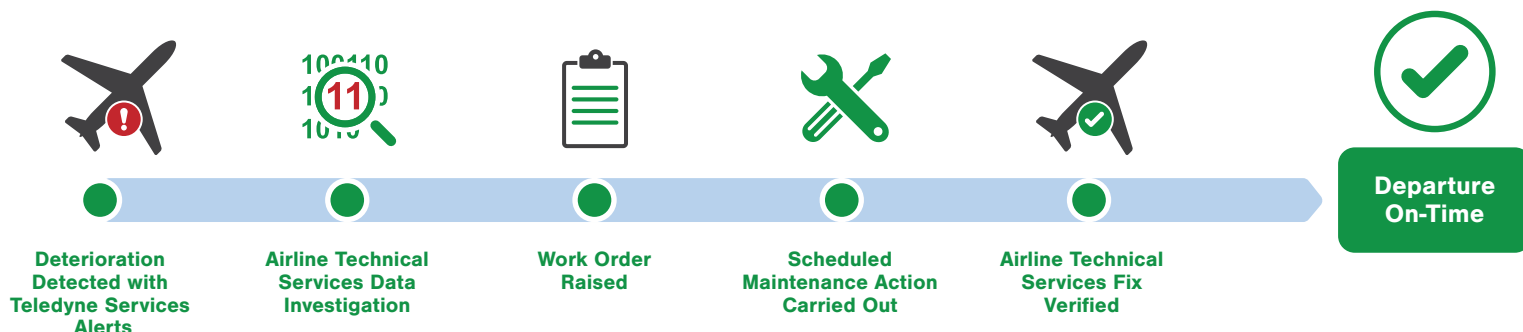- Automatic cross parameter co-relation and reasonability training

Add-On Analytics Modules

Advanced analytics modules are available for the 737NG and A320 aircraft by ATA chapter.

- Air Conditioning/Cabin Pressurization Monitoring & Analytics (ATA 21)
- Flight Controls Monitoring & Analytics (ATA 27)
- Landing Gear Monitoring & Analytics (ATA 32)
- Pneumatics Monitoring & Analytics (ATA 36)

Analytics modules for additional ATA chapters currently in development

Avoid unscheduled maintenance with advanced analytics insight

| Deterioration Detected with Teledyne Services Alerts | Airline Technical Services Data Investigation | Work Order Raised | Scheduled Maintenance Action Carried Out | Airline Technical Services Fix Verified | Departure On-Time |

A Working Relationship That Creates Results

Combining the airline's aircraft systems domain knowledge with Teledyne's data analytics expertise produces significant value and benefits, and acts as a platform for identifying additional use of the data. Our Aircraft Data Solutions are supported by expert teams around the world (Los Angeles, London, Beijing and Singapore) who can assist our customers locally and can deliver faster results.

Aircraft Data Solutions