

OMS

Onboard Maintenance System

Standardized view & reporting across aircraft member systems

Advancing the state of the art

GE's Onboard Maintenance System (OMS) provides unsurpassed capability to analyze the overall health of an aircraft and is based on modern architecture for aircraft health assessment.

OMS's model-based configuration enhances maintenance integration and provides the opportunity for a smooth entry into service.

Supporting capabilities and features beyond just ARINC 624-1, OMS helps to reduce No Fault Found (NFF), Aircraft on Ground (AOG) and aircraft flight delay occurrences.

Easy to use configuration tools help to ensure the OMS is always up-to date with the latest aircraft configuration and maintenance rule sets.



Central Maintenance

OMS reports failures, isolates and diagnoses faults for every supported system and is the single interface for Initiated Built-In Test (IBIT), data loading, aircraft configuration reporting and repair manuals.



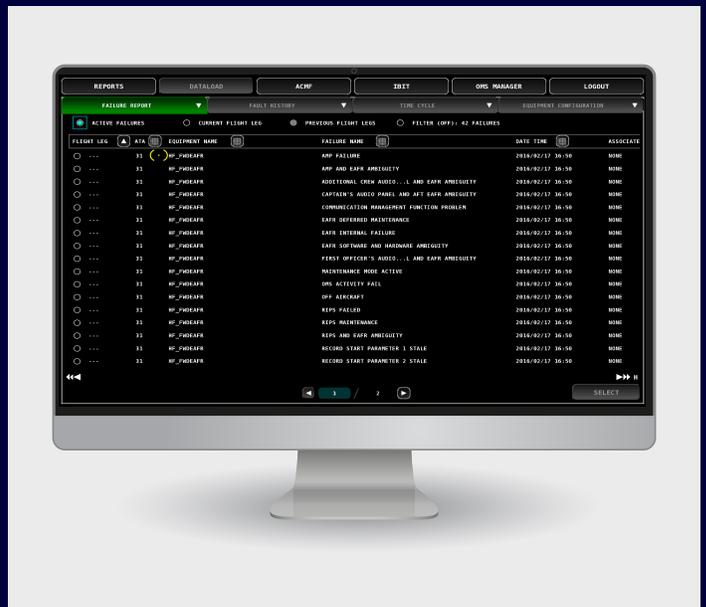
Member System Management

Save time and resources with OMS's solution to load software, configure and time on wing reporting for newly installed or existing member system.



Aircraft Condition Monitoring

Full flight data recording and configurable analytics to manage and predict future maintenance events. Access OMS and aircraft data through wired/wireless networks.



Overview

OMS Capabilities

- Customer-configurable acquisition of up to 100,000 faults
- Up to 10,000 recorded parameters from member systems
- Data acquisition rates from 1/32hz to 128hz
- Supports customer-defined algorithms / math operations
- 115 GB onboard storage (nominal 200hr flight data)
- Robust security architecture
- Lightweight at 4.35 lbs
- ARINC 624 Compliant OMS with enhanced features

Support Interfaces

- 5 x Ethernet bus 10/100
- 1 x Ethernet bus 1000 Mbit
- Up to 2 x ARINC-664p7 end systems
- 15 in 4 out x ARINC-429
- 1 x ARINC-717
- 5 x RS-422
- 5 x discrete inputs
- SD Card/USB on front panel

On Board Functions

- Fault Isolation and flight deck effect correlation
- Interactive Built-In test
- Fault history retrieval and download
- Flight data recording
- Wireless maintenance interface (WDNU required)
- Data load server capabilities to push software to member systems
- Aircraft configuration reporting
- On-aircraft maintenance manuals

Ground Functions

- Web based, at-aircraft or remote access to OMS data,
- Flexible, PC based configuration tools allow GE and customers to configure OMS maintenance model

Software

- RTCA DO-178B, DAL D
- Linux/ARINC 653 operating systems

GE Integrated Vehicle Health Management (IVHM) System

