GE 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 Founds (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.
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

Supported 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

Connect
• Arinc 429
• Arinc 717
• Arinc 664
• Ethernet
• RS442
• ASCB
• Discrete
• Aircraft Communication Management Unit
• Aircraft Health Management Unit
• Ethernet
• SATCOM
• Cellular
• Deploy
• Wireless Data Network Unit
• Wifi
• At-aircraft data viewing
• Data loading

Manage
• Flyground Service Network
• FOQA
• EMS
• FlightPulse
• Analytics
• Configuration Tools

Understand
• Continuous Improvement

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