



# Operation-centred maintenance


## Fleet operation and maintenance management system

Emerging conflicts around the world require global defence forces to maintain high levels of combat readiness. Today's evolving mission requirements, as well as stringent regulatory standards, are creating additional operational challenges. Equipment must be mission ready and rapidly deployable to any diverse theatre of operations.

CAE's Fleet operation and maintenance management system is designed to do just that – provide the required edge for any operational situation. Our solution gives commanders the needed flexibility to adapt their operation and maintenance processes to the ever-changing requirements imposed by real combat situations.

CAE is a world leader in fleet operation and maintenance management systems. With 20 years of experience supporting the Canadian CF-18 fleet, the Sperwer tactical unmanned aerial vehicles (UAVs), CAE's worldwide simulator training network, and customers such as Eurofighter Simulation Systems (ESS) and the U.S. Army, CAE has built an international reputation for data management system excellence.

CAE data management systems extend your operational and support effectiveness by combining fleet asset visibility and management flexibility. Our system offers additional cost saving opportunities by enabling network-centric life cycle management and in-service integrated logistics support (ILS) processes.



*CAE is committed to providing the essential edge in combat readiness through innovation, flexible and responsive processes, and quality systems engineering expertise.*

## Maintaining airworthiness

Focusing on system survivability and operational readiness ensures that the airworthiness process is not compromised by changes in operational requirements. This remains in effect during peace time and combat conditions, including situations where the system is operated in degraded modes. Airworthiness functions are extended to all stakeholders, from the flight line to third line support contractors.

CAE's Fleet operation and maintenance management system complies with Defence Airworthiness Policies to meet the stringent constraints of military operations, embedding the critical maintenance policies and procedures directed by the Technical Airworthiness Authority.

Technicians and fleet managers easily adapt to familiar Air Force processes, which reduces training requirements and minimizes operating risks.

## Benefits

- Integrated asset management
- Deployable and scalable to any theatre of operations
- High survivability attributes adapted to the concept of operations
- Adaptable and flexible operation-centric processes
- Airworthiness process continuity
- System security
- Full error recovery capability
- Interface capability to peer and legacy systems
- Lifecycle management and in-service ILS enabler
- Net centric operations and logistics management enablers





## Features

**Total asset visibility.** Get real-time access to required data. CAE data management solutions provide the integrated information environment required by commanders, fleet managers, operators, maintainers, logisticians, and contractors.

**Integration of first to third line maintenance processes.** The embedded maintenance processes cover functions performed/applicable to all stakeholders, from flight line to support contractors.

**Capability to deploy worldwide.** CAE solutions can be used as a standalone system and over any network configuration. The system can be deployed on a laptop or deployable network and provides all of the critical functions required to maintain the fleet's airworthiness program. Data synchronization with home base is either accomplished upon return or by phone line (cell or land), satellite link, or internet.

**Minimal network traffic.** Our solution reduces network traffic through an innovative synchronization process that requires minimal data to be communicated between nodes.

**Scalability and adaptability.** Our team offers solutions to meet your needs. Whether bringing your fleet on-line using existing solutions, or integrating other COTS or legacy systems, we work with our customers to prepare and deliver a solution to meet your requirements.

**Redundancy feature.** CAE's multilevel redundancy system offers high survivability and data availability rates even in the worst situations.

**Process and fault tolerance.** The CAE data management solution is combat ready. The system provides commanders with the ability to deploy rapidly by integrating operational policy and procedures within the management system itself. All events are recorded and reported for subsequent review.

**System security.** Role-based access ensures that data and information is available to the user and aligned with their authority and responsibilities. The CF-18 Fleet operation and maintenance management system is operated on the Defence Wide Area Network (DWAN). External links are secured through the Defence Virtual Private Network Infrastructure (DVPNI).

**Quality assurance.** The CAE quality system conforms to ISO 9001:2000 and CMMI.

## Functions

### Operations

- Assists in the tracking and management of aircraft utilization and readiness.
- Provides weight and balance, lateral asymmetry calculations, mission statistics, weapon load/status, and other tracking functions.

### Material management

- Manages all part vital information, such as identification, handling and supply information, part breakdowns, maintenance philosophies, relationships to software loads and tools, technical data, and other key information.
- Controls part equivalencies and substitutions to minimize the risk of part selection errors.

### Documentation management

- Provides an online library management feature to control drawings and other publications.

### Maintenance management

- Provides quick access to information necessary to assist in the scheduling and tracking of maintenance activity as well as collecting maintenance history data for life cycle management and in-service ILS activities.

### Aircraft servicing set

- Monitors aircraft and installed equipment maintenance status.
- Provides paperless management of servicing and routine maintenance activities.

### Maintenance planner

- Best aircraft selection capability based on maintenance status.
- Provides advanced maintenance planning capability, ensuring no critical maintenance tasks are overlooked.

### Complete aircraft log set

- Aircraft and equipment quarantine management functions allowing the safeguard of information in case of flight incident or accident.

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