



MISSION FLIGHT MANAGEMENT SOFTWARE (MFMS-1000)

PORTABLE GLOBAL ACCESS

Civil airspace navigation software

Add missionized civil airspace navigation capabilities with Collins Aerospace's Mission Flight Management Software (MFMS-1000). Our MFMS-1000 provides global civil airspace access and easy integration of existing mission flight management capabilities in a portable, software-only package.

Its design maximizes affordability and portability across disparate aircraft platforms while minimizing the time it takes to field worldwide required navigation performance (RNP) area navigation (RNAV) flight procedure capabilities.

Our MFMS-1000 forms the core of an advanced flight management capability that you can easily customize through its open architecture interfaces. These application program interfaces (APIs), along with our pre-built and verified capabilities options, enable MFMS-1000's navigation, flight-plan management and guidance capabilities to smoothly integrate with existing mission systems and functions.

Affordable, low-risk acquisition

MFMS-1000 contains market-leading flight management technology that is flying worldwide on the latest commercial business and regional aircraft. This technology is deployed on over 30 commercial and military fixed- and rotary-wing platforms, with more than 20 million accrued flight hours.

From takeoff to touchdown, MFMS-1000 provides comprehensive navigation, flight planning (supporting all ARINC 424 leg types) and lateral and vertical guidance as well as time-management functions.

Customizable for unique mission needs

With this software, you have the flexibility to meet specific mission needs with no vendor lock. It provides an open architecture, third-party mission interface using industry standards and data model constructs. An available programmer's toolkit enables software developers to more easily develop, test and integrate custom components with the MFMS-1000 core. You also can purchase affordable, pre-built and tested capability options to extend the MFMS-1000 mission functionality.

KEY FEATURES AND BENEFITS

- Reduced pilot workload and training with smooth, global interoperability between civil and mission airspace
- Affordable configurability across fixed-, rotary- and tilt-wing platforms as well as unmanned aircraft and associated ground stations
- Low risk – Ready to integrate now, with support artifacts
- Open architecture design, enabling customer-driven enhancements or replacement



PLATFORM INTEGRATION

With MFMS-1000, you get a mature, proven flight management capability that's ready to integrate into your fixed- or rotary-wing, manned and unmanned aircraft fleet. It offers a low-risk path to affordably meet your civil and mission airspace requirements.

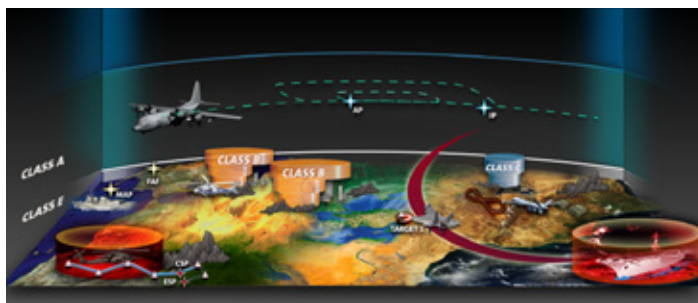
Its modular design provides hardware-independent components that minimize cross-platform integration complexity. System integrators can efficiently integrate customized functions and affordably field aircraft-unique mission capabilities. A complete set of safety documentation supports rapid completion of system certification efforts

CIVIL AIRSPACE CAPABILITIES

- Enables global, unrestricted civil airspace access
- RNAV routes, standard instrument departures (SIDs) and standard terminal arrival routes (STARs)
- RNP authorization required (AR) approach precision to 0.3 NM and below
- Lateral Navigation (LNAV), Vertical Navigation (VNAV), Localizer Performance (LP) without Vertical Guidance and Localizer Performance with Vertical Guidance (LPV) approach
- Approach with Baro-VNAV (APV)

AVAILABLE PRE-BUILT MISSION OPTIONS

- Search-and-rescue patterns
- Surveillance and loitering patterns
- Precision airdrop
- Refuel and rendezvous
- Advanced customized database features



ARCHITECTURES

- Open-system architecture developed in alignment with the Future Airborne Capability Environment (FACE™) Technical Standard and Open Mission Systems (OMS)
- Operational on real-time and general-purpose operating system

SERVICES/SUPPORT

- Type 2 Letter of Acceptance (LOA) navigational database packing services
- FSDK-1000 software development kit for third-party development and integration
- Airworthiness certification support and documentation
- Training and simulation support
- Third-party avionics system integration support

CAPABILITY

U.S./European RNP/RNAV

GPS/RNAV/Baro-VNAV

U.S./European RNP approach to LPV minima

U.S./European RNP authorization required

Database integrity

U.S. DoD MOPS

Software development methods

GOVERNING DOCUMENTS

FAA AC 90-100A, AC 90-105A, AC 90-108, AC 90-96A, TSO C115B, TSO C146C, AMC 20-4, 20-27, JAA TGL-10, RTCA DO-236C, DO-283B

FAA AC 20-138D, RTCA DO-229D

FAA AC 90-107
AMC 20-28

FAA AC 90-101A
AMC 20-26

FAA AC 20-153A,
RTCA DO-200A, DO-201A

U.S. Navy/Army FRD – Rev B, Change 1
U.S. Air Force GPM/PAM
(RNP 4, 1, 0.3, etc.)

FAA AC 20-148
RTCA DO-178C

Specifications subject to change without notice.



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