

Mission System for Maritime Airborne platforms



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MIMS is a state-of-the-art Mission System that enables the creation of the Common Operational Picture (COP), enhances Situational Awareness (SA) and provides effective mission management capabilities either on airborne or Surface Combatants (OPVs, Patrol boats, Special Ops Crafts).

Designed as a modular, scalable and open architecture Mission System it is developed with technologies, that enable its interface with a large variety of sensors and systems. MIMS integrates and manages:

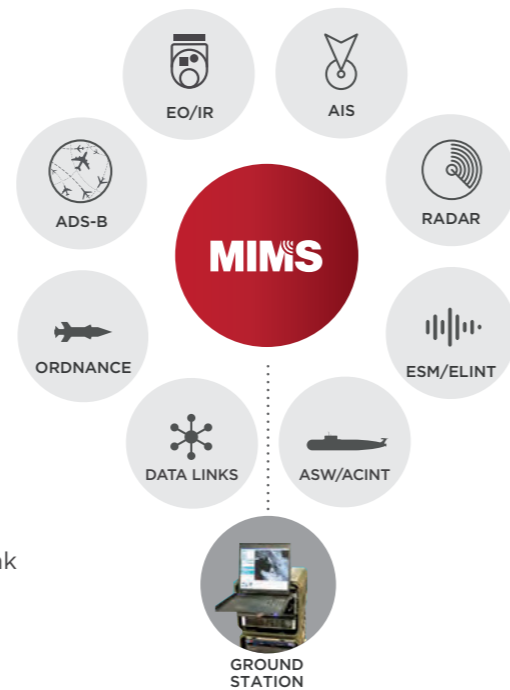
■ Multiple sensors

- Active sensors: Radar, AIS and ADS-B
- Passive sensors: ESM/ELINT, EO/IR, MAD

■ Data Links

■ Navigation and Weapon interfaces

Net Centricity is a key element, where mission data collected can be disseminate to other assets participating in a Network via Tactical Data Links. This capability is achieved through the embedded Multi Data Link Gateway (ULS), providing with concurrent connectivity to NATO (Link 11/ Link 16 / Link 22) or National Data Link networks.



MIMS AIRBORNE

Mission System

MIMS architectural design is suitable for an extensive range of airborne and maritime platforms (Fixed & Rotary Wing, UxVs, Patrol Boats and Special Operations Crafts) and can be tailored to support a variety of missions:

MARITIME SURVEILLANCE (MS)

- Exclusive Economic Zone Monitoring
- Search & Rescue SAR
- Drug Trafficking
- Pollution detection
- Illegal immigration
- Anti smuggling control
- Fishery control

ANTI SURFACE WARFARE (ASUW)

- Surface Picture Compilation
- TacPlans Execution
- Network Centric Node
- Comms Relay
- Third Party Targeting
- Battle Damage Assessment

ANTI SUBMARINE WARFARE (ASW)

- ASW tactics
- Multi sensor association
- Long Range Force Protection
- HVU Screening
- Lost Contact procedures
- Submarine Prosecution

In-flight recorded data can be retrieved during ground post-mission debriefing sessions. The system provides all necessary tools to replay and analyze the Mission, based on the recorded data during the Mission Debriefing Mode.



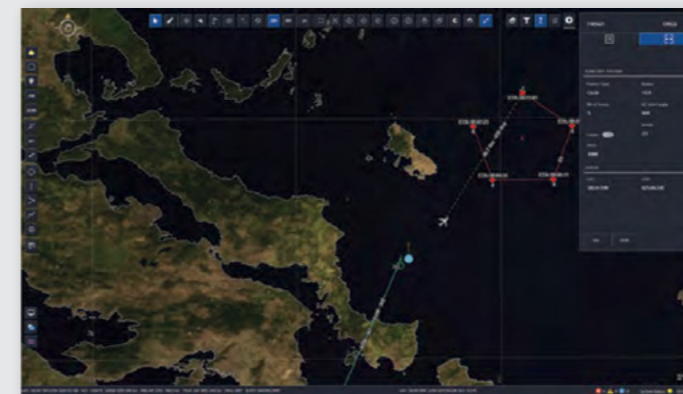
Key Features

■ **Command & Control (C2) system** provides the following capabilities:

- Air, surface, and subsurface surveillance over the Area of Operations (AOO),
- Identification and classification of the detected tracks and products
- Intelligence and Reconnaissance capabilities
- Common Tactical Picture (CTP) generation
- Threat Assessment

■ **User-friendly Tactical Interface:**

Graphical User Interface (GUI) adjustable to end user's specific requirements



■ **Tactical Situation Display**

- 2D/3D visualization
- Multiple Coordinate systems and projections support
- Mapping: WMS/WFS, Raster and Vector data visualization, 3d terrain
- DTED/DMED elevation data support
- Symbology: 2525C/D, APP6C/D
- Display Filters: Map, tactical Layers, tactical Data and GEO filters
- WMS/WFS support
- Airspace Control Means/ Measures (ACM) display
- Tactical aids: Line of Sight (LOS), CPA, FIR alerts, geofencing, Track Position History, Map Drawings, Distance Measurement, Tactical Flight Plans

■ **Navigation Data Distribution:** to aircraft sensors

■ **Sensor Control:** allowing the operator to control onboard sensors

■ **Air-drop ballistic calculation:** for weapons and sonobuoy(s)

■ **Tactical Network capabilities:** including US/NATO standard Data Links (Link 11, 16, 22, JREAP-C), National/Customized Data Links

■ **Messaging Capabilities:** converting the surface picture as maintained from its Tactical functions to Over the Horizon-Gold (OTH-G), text messages (ADatP-3 format) that can be transmitted via a Radio interface.

■ **Pilot Display Unit:** provides situational awareness, early warning receiver (RWR) and navigation information to the pilot

■ **Multi-function Workstations:** allowing interchangeability of each workstation via secure operator authentication and creation of multi-level roles.

■ **Video Distribution Capability:** allowing each Operator access to the EO/IR and Radar video independently

■ **Recording & Playback Capability:** recording and archival of tactical/mission data, sensor data, communications, video, and operator actions. Support for Live playback (during mission execution).

■ **System Status Monitoring:** live status of Sensors mission system hardware and software components and Sensors Build-in-Test (BIT). Ability to troubleshoot and resolve issues during mission execution.

■ **Interface ability:** with the host platform's discrete signals and avionic data bus.

■ **Data Storage:** providing central storage for configuration data, maps, planning data and graphical overlays, recordings, and executable programs.

■ **Mission Planning:** Mission Debriefing and Tactical Mission Extraction based on STANAG 4283.

■ **Latest Commercial-Off -The-Shelf (COTS) hardware:** meeting MILSTD-810, MIL-STD-461 and MIL-STD-704 qualification standards necessary for installations on airborne platforms.

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