Raytheon Solipsys’ Maritime Information Management System (MIMS) is a sophisticated command and control system for enhanced situational awareness in support of maritime security challenges.

Maritime organizations are facing growing challenges in addressing sovereignty and security within their maritime regions. Without an effective means of surveillance, meeting the demands associated with maritime security such as national/border security, illegal immigration, piracy and smuggling is difficult. Organizations require a more comprehensive and near-real-time understanding of their maritime domain. Considering islands and the large, often remote coastlines encompassing most maritime areas of responsibility, a full-featured maritime domain awareness platform is required to enable enhanced and shared situational awareness among the various organizations and agencies responsible for this domain.

Built upon Raytheon Solipsys’ expertise in track management and visualization, MIMS receives and correlates data from Radar, Automatic Identification Systems (AIS), and other sensors and sources to produce a common operational picture for display, control and dissemination. It automatically assesses object behavior while providing extensive surveillance and situational awareness capabilities in multiple domains.

MIMS Database and Database Client provide long-term data storage for reporting, querying and track history analysis. MIMS Threat Matrix provides automatic evaluation of each system object and generates a watch list on the MIMS display. This allows operators to focus on objects that have suspect criteria.

Integration with MIMS Video Management System allows operators to monitor system cameras from a single display. It also integrates these cameras with radar data to automatically slew and track objects of interest.

**Benefits**

- Distributed common operational picture displays correlated data from real-time sensors and non-real-time databases
- Support for air, surface and subsurface domains
- Integration with surveillance sensors such as radar, AIS, space-based AIS, electro-optical thermal sensors, high frequency, surface wave radars, etc.
- Integration with database such as IHS Fairplay, Lloyds of London Ship Registry, Photofinder, etc.
- Support for multiple chart types and satellite imagery
- Intelligent decision aids
- Small target detection and tracking
- Over-the-horizon detection and tracking
Applications

- Coastal Surveillance and Security
- Sea Border Control
- Anti-Piracy
- Fishery and Resource Protection
- Prevention of Nonlegal Immigration
- Prevention of Smuggling
- Protection of Economic Exclusion Zone (EEZ)
- Protection of Environment at Sea
- Search and Rescue
- Assistance in Routine Security Operations including Visit, Board, Search, and Seizure
- Basic Vessel Monitoring and Control
- Port Security
- Basic Critical Infrastructure Protection

Key Features

Intelligent Decision Aids
MIMS equips operators with a user-configurable set of intelligent decision aids. These tools automatically generate alerts for anomalous conditions, including intruder detection, unexpected vessel behavior and other safety or security hazards. Built-in flexibility allows operators to customize decision aids to identify objects, recognize situations of concern and trigger execution of customized response procedures.

Video Management
Provides pan, tilt and zoom control of integrated electro-optical/thermal imaging devices for classification and identification of targets. This control can be coupled with radar track data to provide “slew-to-cue” and automatic tracking. Recording and archiving video data for subsequent replay and analysis is also available.

Visualization
Displays maritime objects, charts, maps, database information and video through intuitive technology. The display can be tailored by an operator. A network of displays can share information among operators.

Collaboration and Chat
Chat is available directly on the operator display. Other collaboration tools include whiteboard “scribbles,” sharing of overlays, and sharing tracks of interest.

Standard Operational Procedure Checklists
Built-in checklists on the operator display provide instructions for the operator on how they should respond to an event. They can include instructions for pertinent communications, actions to be taken, when to escalate the situation, etc.

Support
Formal classroom training is available at the customer site or Solipsys headquarters. Technical support is available 24/7 by telephone and email.