

Multi-Data Link Management System (MDLMS)

MARITIME TACTICAL INTEROPERABILITY SYSTEM



SYSTEM ENABLES THE DISPLAY OF MULTIPLE INDEPENDENT TACTICAL DISPLAYS THROUGHOUT THE SHIP

KEY FEATURES

- 32 simultaneous – tested and certified – tactical data links
- Dynamic Link Reconfiguration
- Increased Track Capacity – up to 16,000 tracks
- 3D situational awareness display, using TacViewSA
- Remote user interface provides flexible installation options
- Provides support for MIDS LVT, JTIDS terminals and the new smaller Link 16 terminals (STT, TTR)

With a long history of supporting maritime customers that require rapid technology insertion, STANAG/MIL-STD compliance and assured interoperability. Ultra's Multi-Data Link Management System (MDLMS) is a real-time tactical data link interoperability system capable of operating in a stand-alone or integrated maritime environment. Based on the certified Air Defense System Integrator (ADSI)[®], the MDLMS processes and forwards multiple tactical data links.

The MDLMS supports up to 16,000 air, surface, subsurface, ground surveillance, and electronic warfare tracks and points. The operator interacts with the system through an intuitive, Windows-based interface. The simple point and click/drag and drop menus allow multiple users to set up and save configurations for unique operations and future

assignments. During operations, data links can be added, removed or modified without affecting the operation of other data links. This allows the operator to maintain full situational awareness of the Common Tactical Picture (CTP) and Recognized Maritime Picture (RMP).

The MDLMS provides tactical data link interoperability in a standard 19" chassis. Because the MDLMS was designed specifically for the maritime environment, the system may be installed in a remote equipment room, while the real-time display (TacViewSA)[™] may be placed in Combat Information Center (CIC), Tactical Flag Command Center (TFCC), the bridge, or other locations. The MDLMS supports multiple independent tactical displays that may be remotely located and connected via a standard Ethernet cable. This flexibility

allows multiple users to access the real-time operational picture while in separate locations. Additionally, built-in diagnostic testing capability provides for configuration and troubleshooting of MDLMS circuit cards.

The MDLMS consists of two Intel-based processors: A Tactical Data Link Gateway (TDLG) Processor running on Red Hat and a Human Machine Interface (HMI) running on Windows 7/10.

The GUI allows for easy and flexible operator actions including:

- Set up and control of all TDLs
- Monitoring the real-time picture
- Controlling MIDS or JTIDS terminals
- Display and DERG recording
- Filtering

System specifications.

MDLMS UTILIZES THE MOST CURRENT BASELINE OF ADSI SOFTWARE, VERSION 15.X AND IS COMPRISED OF MILITARY, INDUSTRIAL GRADE AND COMMERCIAL OFF THE SHELF (COTS) COMPONENTS

KEY FEATURES

- Dynamic Link Reconfiguration – Add/delete/edit interfaces while the system is running without disrupting other interfaces.
- Drag-and-drop Configuration Wizard – An intuitive user interface for making rapid and reliable changes.
- Windows-based System Manager – A multi-featured, user-friendly configuration and monitoring application
- Wizard-based filters – easily access, define, and enable data link filters
- Provides the latest functionality and standards compliance
- Updated operating system support for Microsoft® Windows® 7/10 and Red Hat Enterprise Linux
- TacViewSA Situational Awareness Display

CAPABILITIES

- Certified to current MIL-STD-6016 and 6011 TDL operations
- Data forwarding between Link 16 and Link 11 in accordance with current MIL-STD-6020
- Initializes, controls, and monitors MIDS LVT or Class 2 (MOS) terminals in the Link 16 network. Support for Block Update 2 terminals.
- 16,000 tracks
- MIL-STD-3011 Joint Range Extension Application Protocol (JREAP) Appendix A/B/C

INTERFACE TYPES

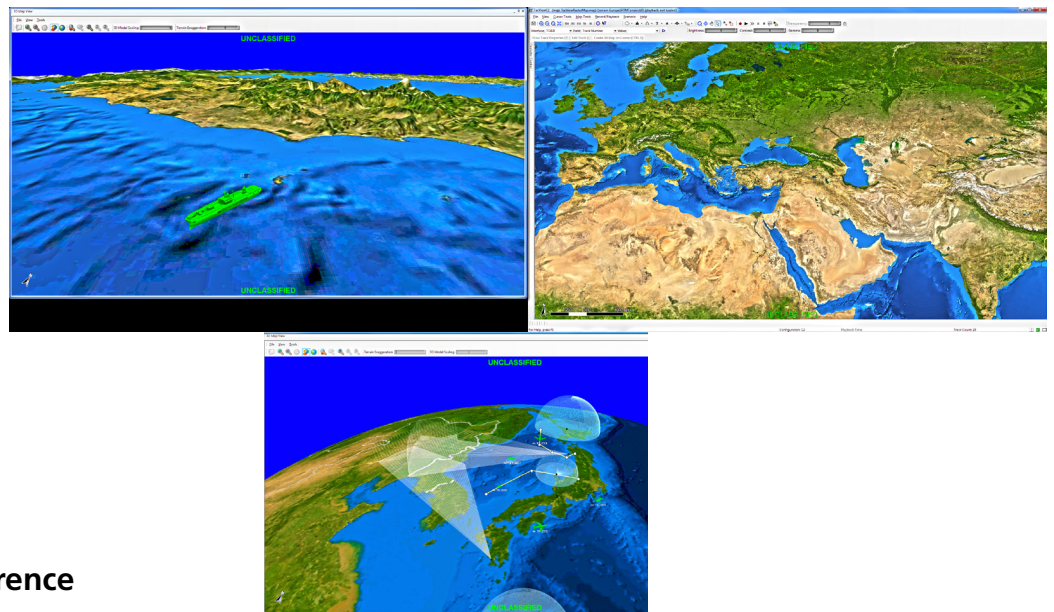
- Link 11 (NTDS/ATDS/STANAG-5602 SIMPLE)
- Link 16
- MIDS LVT 1, 2, 3, 4, 6, 7, 11 (LAN/X.25/MIL-STD-1553)
- JTIDS Class 2 Shipboard, 2M, 2H, MOS (MIL-STD-1553/X.25)
- JREAP A SATCOM (NC/ANC/NP/NL/NCB)
- JREAP B Serial (Sync/Async)
- JREAP C IP (TCP (UTJ)/UDP Multicast (MTJ))
- Sat TADIL J (STGC/Alt STGC/STGU)
- STANAG-5602 SIMPLE (IP/Serial)
- Shipboard Navigation and GPS
- VMF

EXPANSION

- Virtualized Solutions, using Sync2IP and PowerNet devices, to support serial operations over an Ethernet LAN.
- Sensor Integration
- Simulation Training
- Command and Control Functionality
- Designed for growth to Link 22

DIMENSIONS

- 14.5" X 19" X 7" (L, W, H)
- 36.83 cm X 48.26 cm X 17.78 cm (L, W, H)
- 19" rack-mountable chassis
- 39 lbs/18 kg



making a difference

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