



EXPEDITIONARY M-DLP®
MULTI-DATA LINK CAPABILITY FOR GROUND OPERATIONAL CENTRES

Expeditionary M-DLP is the Multi-Data Link Processor configuration specifically developed to meet the needs of the ground-based installations of Data Link assets. This system is suitable for any permanent or mobile ground operational centre that needs a flexible, reliable and rapidly deployable solution to its interoperability requirements.

THE SYSTEM

The Expeditionary M-DLP system features the standard functions of the M-DLP and full integration with legacy system in ground operational centres. The main functions include Data Forwarding, Routing, Correlation, full integration with Command & Control (C2) System and other legacy applications, and Standard Interface for Multiple Platform Link Evaluation (SIMPLE) to allow the exchange of messages over a simulation network for interoperability tests.

The Expeditionary M-DLP supports Link11-A/B, Link16, JREAP, Link22 and VMF, configured according to customer requirements. Expeditionary M-DLP users benefit from a flexible solution that can be installed in both permanent and mobile operational centres.

Expeditionary M-DLP is the result of many years' experience in the area of data links, gained working closely with customers to understand their needs and specific requirements. SELEX Sistemi Integrati has provided several Expeditionary M-DLP installations in a cooperative network of Radar Control and Report sites across Italy for the Italian Air Force's GRAM program.

TECHNICAL FEATURES

The Expeditionary M-DLP system features not only cost effective integrability with the legacy system installed in ground centres, but also specific hardware components which make it suitable for use in ground operational centres.

These components are:

- M-DLP Cabinet: comprising hardware system units and the hardware enclosure
- MIDS Cabinet: a rack configured to host the Link16 MIDS LVT1 terminal and its ancillary.

The two cabinets can be stacked or placed separately. Both cabinets have the same dimensions: 60 cm wide, 73,5 cm high, 83 cm long.

M-DLP Cabinet

The M-DLP cabinet is composed of the following units:

- Power Management unit (PMU), to monitor the power supply, the Pdu function and internal units
- Blowers unit (BU) for hardware cooling
- Processing Unit (Ldc) for the set of core processing modules
- Data Link Unit (DLU) for data link specific processing modules
- GPS time server
- 20" LCD Drawer, which enables the operator to use the graphical and non graphical system functions and provides support for UDC and DLU unit maintenance operations.



MIDS Cabinet

The MIDS cabinet is composed of the following units:

- MIDS Control Panel for user-friendly control of the Link16 MIDS LVT1 terminal
- Voice-over-IP (VoIP) facilities for operator voice communication
- Mechanical and Cabling assembly to host the Link16 MIDS LVT1 terminal.



CERTIFICATIONS

Expeditionary M-DLP effectiveness is guaranteed by compliance with the most stringent certifications. The Expeditionary M-DLP software components have been developed in compliance with:

- OACE (i.e. UML, POSIX, c++, CORBA) recommendations
- MIL-STD-498 for analysis, design and test specifications.

Expeditionary M-DLP hardware components are compliant with:

- MIL-STD-810F for mechanical shocks, temperature and humidity requirements
- MIL-STD-167A for mechanical vibration requirements
- MIL-STD-461E for EMI-EMC electromagnetic interference and compatibility requirements
- MIL-STD-1472F for Human Engineering Design Criteria for Military Systems Equipment and Facilities
- CE Mark
- TEMPEST requirement.

