

INTEGRATING NETWORKS

ARMS collects data from multiple remote terminals representing the tactical picture as seen at each location, analyzes it for discrepancies and anomalies, and presents the information in user-configurable graphical displays.



The job of the Link 16 Network Manager is to plan, manage, modify, and troubleshoot a tactical data link network distributed over a wide geographical area and often locked onto GPS time. Existing systems employ a single viewpoint solution, but ViaSat has developed a distributed approach called the Amalgamated Remote Management System (ARMS) that provides a multi viewpoint solution to network management.

ARMS connects over an IP-based Wide Area Network to multiple remote terminals, including JTIDS, MIDS, and MIDS JTRS. It obtains the tactical picture as seen at each location, accepting all transmissions and receptions as well as status from each terminal. From this information it creates a multi-terminal database that is analyzed for discrepancies and anomalies. A delayed synchronization capability on a single terminal is not required, for example, to detect unauthorized time slot reuse; the network nodes themselves perform this function for any units within site sight of more than one ground station.

ARMS can be further enhanced with an upgrade called FLEXOR. FLEXOR originates J-series network management messages to allow the ARMS operator to interactively control Link 16 relay platforms, allocate capacity amongst active platforms, and disable transmission capability of individual platforms when required by frequency usage restrictions.

Together, ARMS and FLEXOR provide a powerful dynamic network management system.

FEATURES

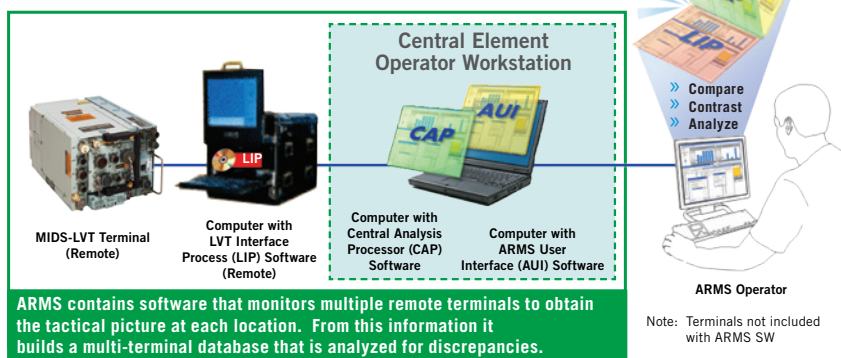
- » Enables distributed data collection by implementing a multi-homed monitoring system
- » Allows coordinated network analysis from multiple viewpoints
- » Provides a synthesized analysis of the network architecture
- » Plug-n-Play capability – no changes to the existing system of terminals should be necessary
- » Works with all MIDS and JTRS terminals
- » Scalable from 1 to greater than 5
- » Provides up-to-date system-wide status with drill-down capability of terminal BIT
- » Provides detailed IPF causal analysis and fault isolation
- » Functions as an anomaly-event-driven, operator-alert-based interface to facilitate expeditious detection and correction of network problems
- » FLEXOR is an ARMS plug-in that supports dynamic (over the air) network management

SOFTWARE ARCHITECTURE

- » ViaSat's ARMS is built with three functional architectural pieces:
- » Link 16 Interface Processes (LIPs)
- » Centralized Analysis Process (CAP)
- » ARMS User Interface (AUI)

ORDERING INFORMATION

TYPE	ARMS	VIASAT PN
ARMS MASTER CONTROL + 2 TERMINALS AT REMOTE SITE	1086429	
ARMS ANNUAL SOFTWARE UPDATE SUBSCRIPTION	1086432	
ARMS FLEXOR UPDATE	1129283	



ARMS contains software that monitors multiple remote terminals to obtain the tactical picture at each location. From this information it builds a multi-terminal database that is analyzed for discrepancies.

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