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Gateway Manager (GM) Universal Tactical Router and Fowarder

**Gateway Manager translates, filters, and forwards tactical data between disparate networks to create a common operational picture at all levels of the command structure**

The Gateway Manager (GM) tactical router bridges incompatible networks by translating between protocols and routing across networks. The end result is a consistent and combined situational awareness picture for units of joint and coalition forces working across disparate networks.

Gateway Manager supports more than 30 tactical interfaces and protocols. The operator configures how each network exchanges messages — and even which messages they exchange — thereby controlling the flow of information over each tactical network. Connections to networks can be established or modified dynamically, with no downtime.

**Robust Feature Set**

- **Most TDLs Supported**
  - Supports most TDLs, including Link 16/11/22, SADL, JREAP A/B/C, Satellite Tadil J, CoT, SIMPLE, and VMF

- **Support for SADL**
  - Supports the Situational Awareness Data Link for Gateway and Generic Host operation

- **Link 16 Terminal Support**
  - Provides Link 16 terminal support for JTIDS, MIDS LVT-1/LVT-2, JTRS, and Small Form Factor terminals
  - Emulates Link 16 terminals, reducing the lab hardware required for host development and testing

- **High-Throughput Capacity**
  - Capable of processing and forwarding more than 20,000 tracks

- **Message Recording and Playback**
  - Records network traffic for offline mission replay and analysis

- **Filtering Functions to Support Analysis**
  - Filtering functions allow the operator to view or save data subsets for analysis or replay

- **Compatible with Analysis Tools**
  - Recorded data is compatible with third-party Tactical Data Link (TDL) tools, including Message Analysis and Data Reduction for the Integration of Links (MANDRIL)

- **User-Friendly Interface**
  - The Tactical Situation Display provides panning/zooming via an interactive 3-D map
  - Ribbon at top of screen provides easy access to functions

- **User Support Provided**
  - Includes a one-year subscription providing user support and release updates

**Gateway Manager Bridges Networks to Create a Seamless Communications Hub**

The Gateway Manager dashboard displays the health of each network connection. In this example, the dashboard indicates that four network connections are healthy (green), the connection to the Remote Site 2 network has failed (orange), and the SADL Net 1 network has not been initialized (gray). Below that, the dashboard has been customized with modular windows providing configuration details and status of the GM system — including the GPS, MIDS, JREAP, and SADL interfaces. Rx/Tx statistics for each network are displayed at the bottom. Gateway Manager’s features are readily accessible via the top ribbon.

Gateway Manager bridges three disparate networks in this configuration. The operator controls the flow of information over each network by configuring Gateway Manager’s routing table to identify which messages from each network are to be forwarded to each of the other networks. The operator can view all network traffic, as well as the locations of all units, on the combined Tactical Situation Display. Alternatively, the operator can easily filter by unit, location, type, and/or other parameters to focus in on a data subset of interest.

**Tens of Thousands of Hours of Proven Capability**

Gateway Manager has been proven over tens of thousands of mission hours on many programs, including the Battlefield Airborne Communications Node (BACN). Northrop Grumman continues to evolve Gateway Manager, adding new capabilities that can be applied to existing systems, making it the tactical router of choice for today and tomorrow.