Gateway Manager (GM)

Universal Tactical Router and Forwarder

For more information, please contact:
Northrop Grumman
Mission Systems
9326 Spectrum Center Blvd.
San Diego, CA 92123

Product Sales:
datalink-interop@ngc.com

Product Support:
cis.productsupport@ngc.com

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Gateway Manager Tactical Router and Forwarder

The Gateway Manager 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.
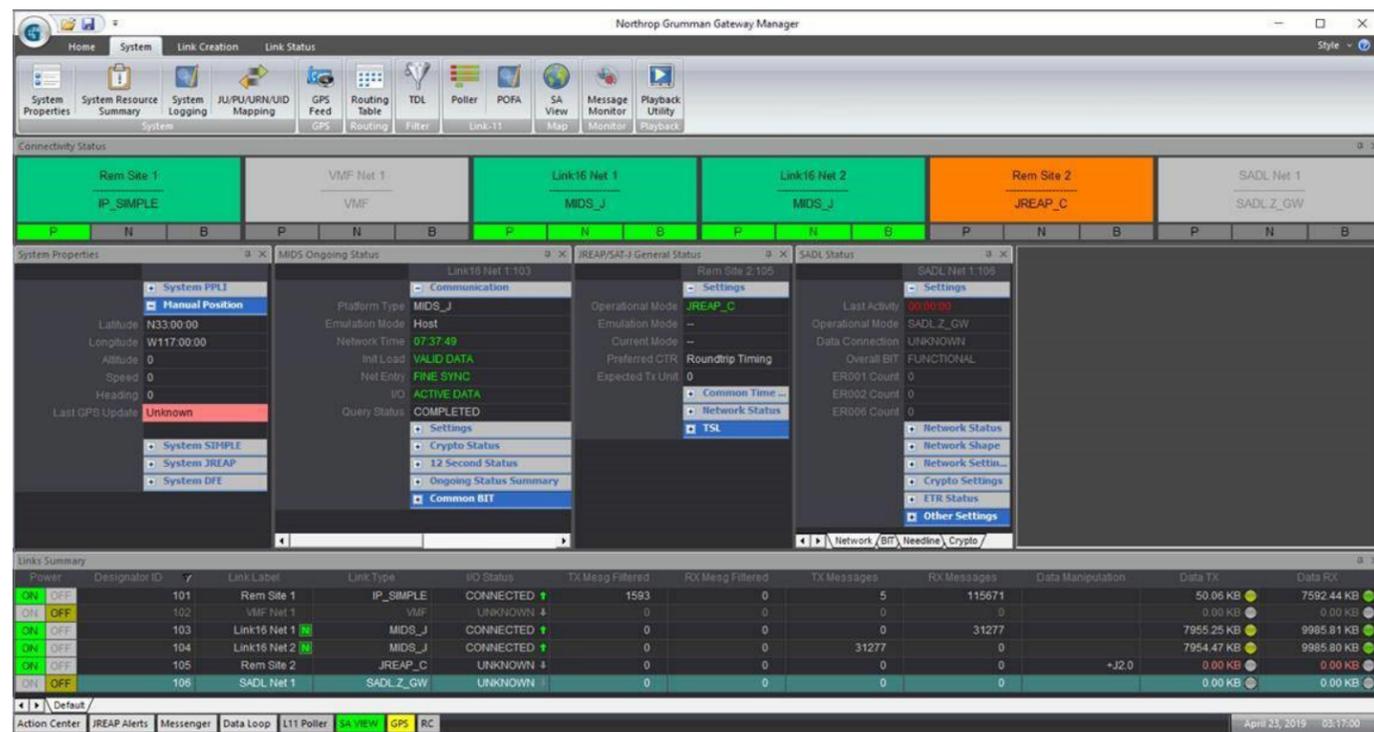
Gateway Manager supports more than 30 tactical interfaces and protocols. The operator configures how each network exchanges messages — and even which messages they exchange — thereby controlling the flow of information over each

tactical network. Connections to networks can be established or modified dynamically, with no downtime.

Tens of Thousands of Hours of Proven Capability

Gateway Manager has been proven over tens of thousands of mission hours on many U.S. Government and International programs, including both ground and airborne communication platforms. 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.

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

Robust Feature Set

30+ Protocols and TDLs Supported
Supports Link 16/11/22, SADL, JREAP A/B/C, SAT-J, CoT, SIMPLE, VMF, Eurogrid, and DIS

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/LVT-3, BU2/JTRS (CMN-4), 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

User-Friendly Interface
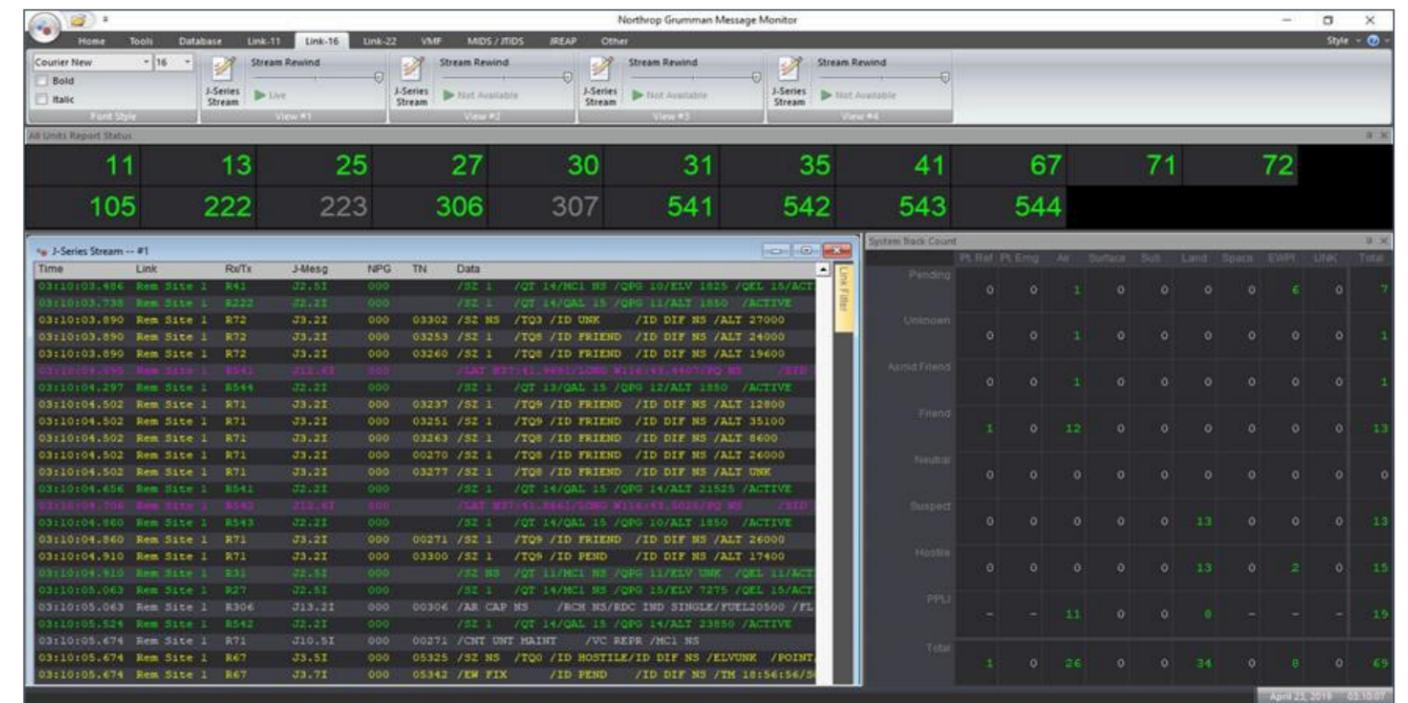The Tactical Situation Display provides panning/zooming via an interactive 3-D map

Ribbon at top of screen provides easy access to functions

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

Client/Server Architecture
Enables access to the full suite of GM capabilities both locally and remotely

The Gateway Manager dashboard displays the health of each network connection. In this example, the dashboard indicates that three network connections are healthy (green), the connection to the Remote Site 2 network has failed (orange), and the VMF Net 1 and SADL Net 1 networks have 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.

The Message Monitor allows the operator to view the individual message details for all of the Link 11, Link 16, Link 22, and JREAP messages that are being transmitted or received over the network. These messages can further be highlighted or filtered to show only the information needed, based on the users settings. All messages are shown in a common Data Extraction and Reduction Guide (DERG) format.

Bridging Networks to Create a Seamless Communications Hub