CONNECT THE ECHELONS AND TRANSFORM YOUR MISSION

AN/VRC-118(V)1 Mid-Tier Networking Vehicular Radio
A SINGLE SOLUTION FOR DYNAMIC MULTI-TIER NETWORKS

Military and government organizations around the world count on L3Harris to connect warfighters up and down the echelon. L3Harris’ ability to deliver the network—anytime, anywhere—is the result of our industry-leading tactical equipment, systems and software.

The space-efficient AN/VRC-118(V)1 Mid-tier Networking Vehicular Radio (MNVR) provides a bridge between the lower and upper Tactical Internet without requiring stacks of networking equipment or voice gateways. By providing a critical connection between upper-level commanders and dispersed ground forces at the tactical edge, this new capability improves battlefield effectiveness. Soldiers at all levels can connect to the Global Information Grid (GIG) using wireless, secure, real-time voice and data.

FAST, WIRELESS COMMS

This modular, Software-Defined Radio provides a dynamic, self-forming and self-healing wireless communications network architecture for on-the-move and stationary forces. Using two JTRS high-bandwidth waveforms—the Soldier Radio Waveform (SRW) and the Wideband Networking Waveform (WNW)—it increases overall connectivity and network capacity. Operating as a node, information hops from one AN/PRC-118(V)1 MNVR to another, finding the best route between soldier and receiver.

INCREASED CONNECTIVITY AND CAPACITY

As more radios use the WNW nodes, the AN/VRC-118(V)1 MNVR provides “network thickening,” creating diverse paths for information to flow. WNW provides Beyond-Line-of-Sight capability using retransmission—especially helpful in locations where foliage, terrain, distance or lack of SATCOM adversely impact communications.

This advanced technology also connects separated SRW networks and provides on-the-move, Line-of-Sight (LOS) networking capability for lower-tier SRW during mobile operations, supporting better company-level intercommunications.
ENHANCE THE POWER OF YOUR NETWORK

L3Harris is the leading global supplier of secure radio communications and embedded high-grade encryption solutions for military, public safety, government and commercial organizations. The company’s Falcon® family of software-defined tactical radio systems includes manpack, handheld and vehicular applications, and is the basis for the AN/VRC-118(V)1 MNVR.

We have the largest and most capable technical staff in the industry and our manufacturing capability is optimized for the unique challenges of building highly reliable tactical communication products and systems.

HIGHER BANDWIDTH FOR NON-WIN-T PLATFORMS AND UNITS
Using the AN/VRC-118(V)1 MNVR, heavy platforms that do not currently meet Size, Weight and Power (SWaP) requirements for WIN-T Increment 2 can still achieve higher bandwidth terrestrial connections.

ENHANCED SECURITY
Communications are secure—even though the radio is free from a fixed infrastructure, such as a cell tower or satellite network—because the AN/VRC-118(V)1 MNVR provides both unclassified and secure (up to Secret) networked voice and data exchange.

With its Joint Tactical Network Enterprise Over The Air Management capability, encrypted commands—such as file transfer and change pre-sets—may be given. This advanced feature also enables Unit Task Reorganization, network simplification and improved operational utility.

EASY TO OPERATE AND STABLE
With its straightforward, user-friendly interfaces, warfighters at the tactical edge can easily and rapidly power-up, establish full connectivity and networking capacity, and communicate with their commanders in real-time through voice and data.

Seamlessly designed to integrate into Army tactical vehicles, the AN/VRC-118(V)1 MNVR operates in the most rugged environments without impacting the quality of communications.

INTEROPERABILITY FURTHER EXPANDS THE NETWORK
The AN/VRC-118(V)1 MNVR can interoperate with legacy systems such as SINCGARS, as well as new systems such as the handheld, manpack and small form fit and dual-channel manpack radios. This provides more rapid distribution of data between forces at company-and-below echelons and their higher headquarters.

READY FOR AIR-TO-GROUND COMMUNICATIONS
With its WNW capability, the AN/VRC-118(V)1 MNVR can exchange mission-critical data with Army aviation platforms via the Airborne Maritime Fixed Station Small Airborne Networking Radio when the platforms are radio equipped.

OPERATES IN A SATELLITE-DENIED ENVIRONMENT
With waveforms that are not dependent on satellites to operate, the AN/VRC-118(V)1 MNVR allows you to exchange data across echelons, even when satellite connectivity is not available. It connects soldiers at the company level back to the battalion and brigade WNW network through its terrestrial, LOS, range-extension capabilities. Company commanders can maintain the data connection to devices operating on those WNW networks and continue conducting missions, such as digital fires threads, digital calls for Medevac and transferring large files used for mission command, control, and planning.

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ACCELERATING MODERNIZATION
Leveraging its unique commercial business model, L3Harris invests internal funding to develop product families that address global tactical communication needs. We actively seek and receive feedback from our customers, continuously and rapidly enhance our products to provide greater performance, utility and reliability. This Non-Developmental Item (NDI) approach allows the government to put game-changing capabilities into the hands of soldiers quicker and more cost-efficiently than through the traditional acquisition process. The AN/VRC-118(V)1 MNVR is an example of how L3Harris NDIs help the Army accelerate modernization efforts through agile acquisitions. L3Harris has also developed NDI solutions that address the Army's HMS Manpack, Rifleman Radio programs and the Small Airborne Networking Radio program. It's the networked battlefield brought to life from the established leader in NDI solutions.