



Viasat Tactical Mission Fabric™ (TMF)

Secure, Resilient, Edge-to-Cloud Connectivity
for the Modern Warfighter

Fight the threat. Not the network.



THE CHALLENGE

Complexity at the Edge

In today's mission environment, traditional network integration is hindered by sluggish acquisition cycles and manual, labor-intensive management. Multi-domain operations demand the split-second delivery of massive data volumes, but fragmented hardware and siloed networks frequently buckle under the pressure. Ultimately, this creates a severe cognitive burden—forcing warfighters to manage transport complexity instead of executing the mission.

THE SOLUTION

Tactical Mission Fabric (TMF)

TMF solves this by replacing manual configuration with an automated, edge-to-cloud Infrastructure-as-a-Service (IaaS) and Network-as-a-Service (NaaS) overlay. By abstracting network complexity, TMF eliminates the warfighter's cognitive burden, enabling global connectivity from inherently IL5 GovCloud-native foundations to IL6+ deployments. Engineered for the tactical edge, it provides uninterrupted, high-volume data flow in highly contested DDIL environments. Because it acts as a global DMZ that augments existing tactical networks, TMF can instantaneously enhance mission capabilities—bypassing sluggish acquisition cycles without forcing the DoD into a costly rip-and-replace.

- Accelerate the OODA Loop: Deliver the deterministic latency from edge-to-cloud (IL5 and IL6+) required for closed-loop kinetic fire control, in-flight dynamic retargeting, and autonomous swarm synchronization.

- Reduce Cognitive Burden: Empower operators with a single-pane-of-glass interface that abstracts the complexity of managing disparate satellite, cellular, and tactical radio networks, allowing them to focus on the mission rather than the transport.
- Ensure Unrestricted Global Reach: Maintain continuous mission execution with a resilient, multi-path architecture that enables secure connectivity—bridging highly contested DDIL environments directly to global IL5 and IL6+ cloud regions.
- Deploy at Mission Speed: Compress capability delivery timelines from months to weeks. Rapid Infrastructure-as-Code (IaC) deployments leverage commercial innovation cycles to directly bypass sluggish traditional acquisition.

DELIVERING A SECURE EDGE-TO-CLOUD EXPERIENCE

Core Capabilities & Technical Features



Assured Connectivity: Orchestrates automated PACE (Primary, Alternate, Contingency, Emergency) routing across multi-path, multi-orbit, and multi-band transport from the tactical edge without operator intervention.



Global, Resilient Access: Directly integrates with IL5 and IL6+ cloud environments and leverages strategic regional access points across CONUS and OCONUS locations, establishing a global, highly resilient mesh network that provides secure, uninterrupted data flow from the tactical edge to the enterprise.



Optimized Performance: Delivers a low-latency, global dual-use resilient architecture purpose-built for AI/ML and data-intensive workloads to drastically reduce operational friction.



Proactive Defense: Protected by the 24/7/365 Viasat Cybersecurity Operations Center (CSOC), providing continuous monitoring and rapid response against global threats.



Adaptive Crypto: Secures expendable autonomous platforms using dynamic cryptographic revocation, preventing physically captured or destroyed drones from exposing the enterprise cloud to adversaries.



Open Architecture: Serves as the secure, vendor-neutral tactical “Catcher’s Mitt” for US Army GAIT, USMC Tactical Grid, USAF DAF Battle Network, USSOCOM GAN, and US Navy ADNS/NXPs.



A Managed Edge-to-Cloud Experience

As a Trusted Mission Partner, Viasat backs TMF with a fully vertically integrated space, ground, and security infrastructure. By commoditizing the RF layers and decoupling the network from proprietary hardware, TMF eliminates the legacy “radio tax”—minimizing the tactical IT footprint and pushing more personnel out of the server tent and back into the fight.

CONTACT US TODAY

To learn more:

Visit: viasat.com/TMF

Email: insidesales@viasat.com

Call: 888-842-7281