

WAVE PTX Tactical

On-premise broadband push-to-talk for private networks

In mission-critical environments, communication gaps are a risk the mission cannot afford. WAVE PTX Tactical is an on-premise, broadband-based application that provides a secure, interoperable push-to-talk (PTT) solution for government agencies and private organizations that need to extend the reach of their radio network. It also allows them to provide additional WAVE PTX-only talk groups to their user base.

WAVE PTX Tactical offers reliable communication across cellular, private LTE, Wi-Fi and other networks. It features advanced security with multifactor authentication and encryption, and an ecosystem of PC- and mobile-based applications. WAVE PTX Tactical can be easily deployed in minutes without complex activation.



Unify your mission, secure your communications.

Flexibility

Achieve true communication flexibility as WAVE PTX Tactical is designed to be entirely carrier agnostic. This means your operational communications are never tethered to a single provider or network type.

The system is built to extend LMR radio systems with broadband and operates seamlessly across virtually any IP-based network, including public cellular carriers, private LTE networks, local Wi-Fi, LAN/WLAN infrastructure and VPN connections. This extensive connectivity ensures that your teams can communicate reliably from any location, regardless of the available infrastructure, providing mission-critical coverage where traditional radio systems cannot reach.

Interoperability

Break down communication silos with unparalleled interoperability. WAVE PTX Tactical provides a unified communication platform that can connect diverse teams, no matter the device or network they are on. It integrates seamlessly with any broadband network for PTT services and acts as a digital bridge to connect disparate radio systems – including but not limited to ASTRO 25, DIMETRA and MOTOTRBO™ – with broadband systems.

Additionally, the system can patch in traditional land-based phone systems, allowing teams to coordinate instantly between radios, smartphones and office lines for a truly cohesive operational response.



Security

Security is paramount for mission-critical users, and WAVE PTX Tactical delivers with robust, multi-layered security features. Access is controlled via multifactor authentication, supporting enterprise standards like Microsoft and OKTA, ensuring only authorized personnel can connect.

All voice and data transmissions are secured with end-to-end encryption to protect sensitive information from interception. Furthermore, the system is designed to meet the rigorous compliance demands of high-security environments, including achieving DoDIN certification, making it a trusted solution for government and highly regulated industries.

Reliability and availability

Maintain absolute confidence in your communications with guaranteed reliability and availability. The system is built with a foundation of full redundancy, minimizing single points of failure that could compromise an operation.

Users benefit from the deployment of both local and geographic servers, ensuring that if a primary server fails or a local network goes down, a backup server located elsewhere can seamlessly take over. This automatic failover capability ensures maximum uptime, providing mission-critical teams with a communication system they can depend on 24/7.

Mobile app

Extend your PTT capabilities with a feature-rich mobile app for iOS or Android. This application is not just an overlay; it's a robust client that provides full access to group and private PTT calls, messaging and location services.

Crucially, the WAVE PTX Tactical mobile app is designed to uniquely operate over private networks, ensuring that users in restricted, localized environments – like a military base or secure facility – can maintain mission-critical communication even when disconnected from the public internet, a key differentiator from standard PTT applications.

Wireline integration

WAVE PTX Tactical utilizes a proprietary, digital wireline integration that connects directly within the Motorola Solutions radio infrastructure for enhanced security and efficiency – a significant advantage over conventional RoIP analog gateways.

This advanced method allows users to register hundreds of talkgroups via a single IP connection. Traditional RoIP solutions are physically limited by requiring dedicated radios and ports for each channel, leading to huge hardware footprints, complex antenna designs and rack space issues. For robust systems, WAVE PTX Tactical drastically reduces complexity and physical space, often requiring only a server or two and a network connection, not a room full of radios.

To learn more about the
Motorola Solutions ecosystem, visit:
www.motorolasolutions.com



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