US DEFENSE ORGANIZATIONS COUNT ON WAVE TO UNIFY COMMUNICATIONS DURING OPERATIONAL EXERCISES

CUSTOMER PROFILE
U.S. Defense Organizations

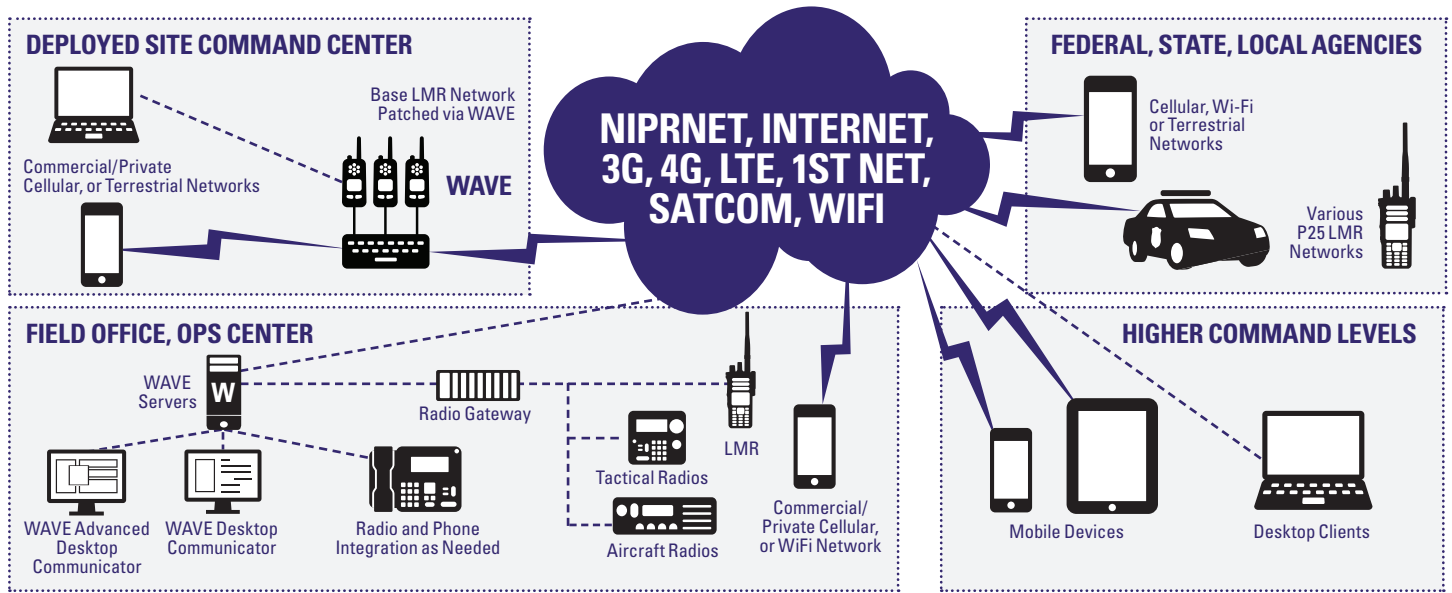**Industry**
National Government Security

Solution Components
DISA JITC-approved WAVE configuration and components for DoD use:

- Wave Management Server
- WAVE Media Server
- WAVE Desktop
- WAVE Advanced Desktop Communicator

Features
Interoperability platform securely connects disparate voice and data feeds.

- Desktop Communicator allows PC users to securely talk to smartphones, radios and PTT networks
- Built in softphone provides telephony capabilities directly from the users desktop
- Listen-only Talkgroups allow monitoring of talkgroups don't require user interaction.
- Extensibility panel allows for unlimited UI integration for virtually any third-party rich or web application

Global military operations are complex and involve multiple military branches and government agencies. Their success requires warfighters to train the way they fight and fight the way they train. Operational readiness exercises are the foundation of this preparation, enabling soldiers to hone situational awareness and practice cross-team communications among assets positioned in air, on land or sea.

THE CHALLENGE

A military installation in the western United States runs training exercises that involve units from up to five bases serving the Army and Air Force. Today, there is not a single installed communications platform that unites the Armed Services. Tactical units from the various branches are often unable to reliably talk to each other, forcing liaisons in the operation centers to coordinate and disseminate even the most basic information. This causes communication delays and the lack of real time information introduces possible errors in action.

THE SOLUTION

The military installation implements Motorola Solutions' WAVE software to unify tactical and non-tactical networks and systems, and allow users to communicate via any mode of communication – radio, satellite or VOIP. Aircraft and ground troops can now use their existing communications systems to speak to each other, while multiple operation centers can use the WAVE Desktop Communicator to monitor and respond to voice communications across all locations and operating environments. WAVE even works with proprietary communications systems.

WAVE is an interoperability platform that securely connects disparate voice and data feeds. The platform includes the WAVE Communicator, which allows PC users to talk securely across smartphones, LMR/tactical/aircraft radios, and IP networks. The software also includes a built-in "softphone," providing telephony capabilities directly from the user's desktop. Features such as Listen-only Talk Groups allow monitoring of talk groups that don't require the user's interaction. And WAVE's extensibility panel allows for unlimited user interface integration that works for virtually any third-party Web application.

RESULTS

Fighting in-theater requires communications, coordination, and practice, especially since troops face challenges ranging from extreme environments to disparate military, government and coalition organizations. For this installation, WAVE has provided the interoperability and flexibility to unify communications and collaboration of these units not only during their training but also matching the interoperable environments troops will encounter on deployments – giving them the tools to train the way they need to fight.

WAVE also has provided the installation with the significant added bonus of leveraging its interoperability in day-to-day activities, such as facilitating coordination information with the Federal Aviation Administration and other geographically separate installations.

WAVE does more than solve the tactical problem of bringing together disparate communications through one JITC-certified open-architecture platform. Once WAVE software is installed at a base, it puts an end to siloed communications. There is no need to carry two different radios; someone using LMR radio can speak directly to a person on a tactical or aircraft radio. This means getting greater functionality and expanding the useful life of legacy communications assets, saving money while actively improving performance.

Both domestically and when stationed overseas, units can use WAVE in conjunction with the NIPRNet and SIPRNet. This is particularly useful when U.S. military units need to coordinate and communicate with another country's units or organization, simply connecting a cable to a donor radio allows talking IP-to-radio and radio-to-radio bridging during an operation, without the need to share equipment or encryption devices.

For more information about WAVE Work Group Communications Solution, please contact your Motorola representative or visit **www.motorolasolutions.com/wave**.

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