TrellisWare Successfully Demonstrates Mission-Proven Networking in Support of U.S. Army NGC2

Operational testing with multiple Army formations reinforces TrellisWare's proven ability to deliver resilient, scalable networking across complex and contested environments.

SAN DIEGO, CA, UNITED STATES,
August 12, 2026 /EINPresswire.com/ -- TrellisWare Technologies, Inc., a global leader in tactical communications, today announced the successful demonstration of advanced communications capabilities supporting the U.S. Army's Next Generation Command and Control (NGC2) modernization efforts. TrellisWare personnel supported more than 1,100 radios enabled with its TSM® waveform deployed in Project Convergence Capstone 6 (PCC6). TSM-enabled radios supported the 2nd Brigade Combat Team, 4th Infantry Division, multinational partners from New Zealand, Australia, the United Kingdom, and Canada, as well as a separate U.S. SGT Stout Air Defense unit.

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>
> *Matt Fallows, VP, Business Development & Customer Support*

The TSM-enabled radios used in PCC6 consisted of a diverse mix of eight form factors, ranging from High Assurance multichannel manpacks and handhelds to single-channel Sensitive But Unclassified (SBU) handheld radios, high-powered vehicular radio heads, and an embedded module flown on a loitering communications relay platform.

As the Army modernizes its C2 architecture to meet evolving operational requirements, network adaptability and resiliency remain critical. Across the demonstrations, TrellisWare's waveform technologies enabled flexible, resilient communications from permissive to highly contested environments, including extended communications range with UAS between large formations.

Key technical and operational capabilities demonstrated include:
• Wideband Scalability and Throughput — TrellisWare has introduced HDR+ to its TSM Mobile Ad Hoc Network (MANET) waveform, delivering more than 50 Mbps of throughput while supporting

scalable networks of 800+ nodes in complex operational environments.
• Spectrum Agility for Constrained Environments — When spectrum availability is limited, the TSM waveform can scale down to operate within 1.2 MHz channels, maintaining robust networking in congested or spectrum-constrained environments.
• Modern Anti-Jam (A/J) Resiliency — To address evolving electronic warfare threats, the demonstrations featured TrellisWare's Katana™ waveforms, designed to provide resilient, continuous connectivity in the presence of sophisticated adversarial jamming.
• Broad-Spectrum SDR Architecture — TrellisWare's software-defined radios (SDRs) provide more than 1.5 GHz of total usable spectrum across UHF, L-band, and S-band frequencies within a single radio architecture, enabling greater spectrum flexibility while reducing the equipment burden on warfighters and tactical platforms.
• Multi-Nation, Multi-Vendor, Multi-Security-Level Interoperability — TrellisWare's unique multi-vendor, multi-security SDR-based ecosystem was used to establish interoperability between U.S. and multinational forces operating radios from multiple vendors and at different security levels.

"The U.S. Army's NGC2 initiative requires communications technology that can perform reliably across complex and evolving operational environments," said Matt Fallows, vice president of global business development & customer support. "Through our work with the 4th Infantry Division, along with concurrent efforts supporting the 25th Infantry Division and 82nd Airborne Division, we have demonstrated that TrellisWare-enabled systems deliver the most flexible, resilient, and scalable tactical networking available today. We remain committed to working alongside the Army as it advances NGC2 and the future of tactical C2."

With more than 225,000 systems fielded across a broad ecosystem of TrellisWare and partner tactical radios and unmanned systems, TrellisWare continues to expand the reach of its mission-proven communications technology. As an international interoperability standard, the TSM waveform enables direct interoperability with coalition partners operating TSM-enabled systems, supporting seamless communications across multinational operations.

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