Cohere Technologies Wins $28 Million U.S. Government Contract to Develop Multi-Waveform RAN for ISAC

Multi-Waveform Wireless Prototype Will Deliver Operational Aerial Surveillance and Response

SAN JOSE, CA, UNITED STATES, July 2, 2026 /EINPresswire.com/ -- San Jose, CA - July 2, 2026 - Cohere Technologies, the innovator behind the award-winning Universal Spectrum Multiplier (USM) software for 4G and 5G networks and Pulsone™ Technology powered by the Zak-Orthogonal Time Frequency and Space (Zak-OTFS) waveform, today announced it has been awarded a $28 million contract funded by the FutureG Office within the U.S. Department of War (DoW). The contract will support the development of a Multi-Waveform Radio Access Network (RAN) prototype for mission-critical Integrated Sensing and Communications (ISAC).

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>
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Titled "Procurement of Multi-Waveform Radio Access Network (RAN) for Integrated Sensing and Communications (ISAC)," the award expands on a National Science Foundation VINES Phase 2 project. It will fund the development of a sovereign, mission-first ISAC capability that leverages existing and future commercial 5G/6G infrastructure to provide persistent aerial and ground surveillance while remaining indistinguishable from ordinary cellular traffic.

"ISAC is a mission-first priority for the U.S. Department of War to defend against drone swarms. Due to guidance from leadership to execute rapidly, we required a partner with the right technology ready today," said Tom Rondeau, Principal Director for FutureG, OUSW(R&E). "As a proven innovator with a demonstrated ability to build multi-waveform platforms, Cohere Technologies offered a clear path that we could move on immediately. Their OTFS modulation carries information directly in the sensing domain, delivering massive communications and sensing performance advantages in high-Doppler environments. This solution rapidly delivers critical ISAC capabilities while building on our 'innovate-first' posture, demonstrating the

tremendous opportunity for innovation brought by the FutureG Open Centralized Unit Distributed Unit (OCUDU) platform."

Cohere Technologies

The multi-waveform system prototype is designed to provide detection, classification, tracking, and defeat-cueing of drone threats while operating in commercial spectrum bands, making it difficult for adversaries to distinguish sensing activity from normal cellular communications. In addition to core defense applications-including battlefield awareness, border security, and critical infrastructure protection-the program will identify parallel commercial use cases such as Advanced Air Mobility, smart city traffic management, and public safety. Work under the contract will be executed in close collaboration with government technical authorities and program partners.

"This ISAC contract from DoW represents a major milestone for Cohere and for the future of dual-use wireless technology," said Ray Dolan, Chairman and CEO of Cohere Technologies. "By combining our Pulsone Technology with conventional Orthogonal Frequency-Division Multiplexing (OFDM) in a flexible, software-defined architecture, we can deliver high-performance sensing that is affordable, scalable, and operationally invisible-exactly what is needed to counter the growing threat of sophisticated drone and Unmanned Aerial Systems (UAS)."

Key Capabilities to Be Developed Under the Program
- A Multi-Waveform physical layer running on an open, extensible software stack that supports both traditional 4G and 5G OFDM and Pulsone Technology using the Zak-OTFS waveform.
- A Mobile Test Platform enabling bi-static and multi-static sensing configurations.
- A Layered Inference Sensing system that converts raw Delay-Doppler data into real-time 3D tracks with classification and confidence scoring.
- Realistic outdoor test environments supporting mono-static, bi-static, and multi-static sensing.

- Compliance with the FutureG OCUDU platform and Zero Trust security requirements.

"This ISAC project award validates Cohere's long-term vision of building sovereign, future-proof wireless infrastructure that serves both national security and commercial markets," Dolan

added. "We are proud to work alongside the FutureG Office and partners to deliver technology that strengthens our nation's ability to sense and respond in contested environments."

About Cohere Technologies
Cohere is the innovator of Universal Spectrum Multiplier (USM) software for 4G, 5G, and Multi-G. USM significantly improves mobile networks in any FDD and TDD spectrum band – and Pulsone™ Technology which is based on the Zak-OTFS waveform for ISAC and NTN. Pulsone is a trademark of Cohere Technologies. Cohere is headquartered in San Jose, Calif. (USA).
www.cohere-tech.com

About the FutureG Office
The FutureG Office within the Office of the Under Secretary of War for Research and Engineering is responsible for the strategic assessment and research and development of FutureG technologies to confer long-term economic, military and security advantages to the United States of America and its allies. By strengthening and developing relationships with private industry, academia, interagency and international allies and partners, the FutureG Office promotes the use of common, commercial standards for DoW operations, encourages adoption of open and interoperable technologies, and advances critical next-generation wireless network capabilities.

About the OCUDU Ecosystem Foundation
The OCUDU Ecosystem Foundation, hosted by the Linux Foundation, is a global public-private initiative dedicated to building a commercial and research ecosystem around a production-ready, open source CU/DU stack. By fostering collaboration across the entire RAN lifecycle, from R&D to end-to-end integration, the OCUDU Ecosystem Foundation provides the reference architectures, conformance tooling, and "super blueprints" required to scale Open RAN from pilot projects to global production.

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