

Silvus Awarded Contract to Help Improve Department of Defense Network Efficacy

A MIMO Applique for the Rifleman Radio to Drive Greater Communication Efficiencies in Congested and Contested Electromagnetic Spectrum

LOS ANGELES, CALIFORNIA, UNITED STATES, September 12, 2017 /EINPresswire.com/ -- Silvus Technologies, the leader in military-grade multiple antenna wireless communications, today announced that the team of Silvus and Thales has won a contract to build a bolt-on module for the Rifleman Radio.

Department of Defense leaders realized that a significant portion of the commercial communication advances in the last 15 years have been due to the widespread adoption of multiple antenna communications technologies.

Unfortunately, most military radios have a single antenna. Consequently, the Department of Defense through the National Spectrum Consortium requested proposals to develop a cost-effective MIMO technology and a hardware prototype to extend MIMO communications capabilities to current single antenna military radio systems. Silvus and its subcontractor Thales proposed a MIMO Applique for the Rifleman Radio. Silvus, using the experience gained through 12 years as the leader in MIMO technology for difficult government and commercial applications, will build a bolt-on prototype to meet this government requirement. “Silvus is highly motivated to show the advantages of MIMO processing in this project.” said Michael Fitz, Chief Technology Officer for Silvus Technologies. “The goal on our end is to enable better networking for the soldier and we are confident that MIMO processing is a fruitful approach to achieve that improvement.”

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We believe this use of MIMO technology to improve waveform performance without impacting interoperability of existing systems will deliver enhanced capability to our existing Rifleman Radio users.”

Wade Owen, Technical Product Manager for Thales



Thales, as a program of record supplier of the Rifleman Radio, provides the expertise to integrate this MIMO technology with the Rifleman Radio functionality. The resulting solution, as envisioned in Figure 1, shall not require

any changes to current waveform(s) or physical radio hardware and yet will deliver the following

benefits:

- Improve spectral efficiency;
- For the given transmit power, increase range and quality of service;
- Improve performance in harsh multipath fading environments;
- Increase interference mitigation/tolerance.

This capability should greatly improve military networking performance.

“We believe this use of MIMO technology to improve waveform performance without impacting interoperability of existing systems will deliver enhanced capability to our existing Rifleman Radio users.” said Wade Owen, Technical Product Manager for Thales.

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About Silvus Technologies:

Respected for developing advances in next generation military technology to provide wireless communications in the harshest of environments, Silvus radios excels where traditional systems fail. Silvus leads the Mobile Networked MIMO waveform revolution with mesh radio systems designed to distribute high bandwidth video and data anywhere. From sea to sky and everywhere in between, Silvus StreamCaster radios create robust, self-healing/self-forming, fluid mesh networks. Delivering COFDM modulation and up to 4x4 MIMO, Silvus provides higher throughput, longer range, better reliability and more flexibility than any wireless standard: true, military-grade “plug and play” operation. Today, Silvus continues to pioneer MIMO innovations that are reshaping critical broadband wireless connectivity around the world.

About Thales Defense & Security, Inc.

Thales Defense & Security, Inc. (TDSI) is a global company serving the defense, federal, and commercial markets with innovative solutions for the ground tactical, airborne and avionics, naval/maritime, and security domains. In addition to mission-critical communication systems, the company provides helmet-mounted displays and motion tracking technologies; SATCOM terminals; advanced sonar systems; air traffic management navigation, surveillance, and simulation; and data protection solutions. Furthermore, TDSI serves as a gateway for technology, leveraging Thales-wide solutions—such as combat management systems; naval, airborne, and ground ISR; and electronic warfare—to address U.S. requirements.

TDSI is part of Thales Group, a global aerospace defense and technology solution provider with over 64,000 employees in 56 countries and global revenues in excess of \$16.4B USD in 2016. With over 25,000 engineers and researchers, Thales has a unique capability to design and deploy equipment, systems and services to meet the most complex communications and security requirements.

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