



NEWS RELEASE

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Curtiss-Wright Showcases AI-Based Solution for ISR/EW Situational Awareness and Data Encryption at Tri-Service Open Architecture Interoperability Demonstration

OSA Interoperability Demo Features Fully Integrated COTS Solution for AI-based Threat Detection and High Speed Type 1 Top Secret Data Encryption

Tri-Service Open Architecture Interoperability Demonstration (TSOA-ID), Atlanta, Georgia – January 27, 2020 – Curtiss-Wright's Defense Solutions division, a trusted leading supplier of ruggedized ISR and data storage systems, will demonstrate an open standards architecture (OSA)-based [intelligence, surveillance, and reconnaissance \(ISR\) and electronic warfare \(EW\)](#) system solution at the [Tri-Service Open Architecture Interoperability Demonstration \(TSOA-ID\)](#) being hosted at the GTRI Conference Center in Atlanta, GA on January 29, 2020. The demonstration, which highlights the benefits of OSA by integrating products from four individual companies, features artificial intelligence (AI) based commercial off-the-shelf (COTS) solutions for signal intelligence (SIGINT) and electronic warfare (EW) situational awareness applications. This deployable solution for RF spectrum situational awareness automatically classifies signals through the use of machine learning. The system will also demonstrate certification-ready NSA Type 1 data encryption of ISR data at a read/write throughput of 10/17 Gbps (nominal/maximum) per data channel. This breakthrough technology provides system designers with an unprecedented combination of high-speed data recording and secure encryption.

The demonstration includes Curtiss-Wright's [3U OpenVPX™ CHAMP-XD1 digital signal processing \(DSP\) module](#), [VPX3-1260 Intel® Xeon™ Coffee Lake single board computer \(SBC\)](#), [VPX3-673 Assured Position, Navigation & Timing \(A-PNT\) module](#), and [VPX3-687 10GbE network switch module](#). Emphasizing OSA interoperability, the demonstration also includes the [3U OpenVPX Leonardo DRS SI-9172 Vesper Tuner/Exciter](#), [L3Harris-Camden DataCrypt XMC mezzanine module PCIe® encryptor](#) and [3U OpenVPX NVMe secure storage module](#), and [General Dynamics](#)

[Mission Systems SignalEye™ artificial intelligence-based SIGINT automation threat detection application](#), a proven IS platform that detects, isolates and classifies RF signals wherever the warfighter is located in the theater of operations.

In addition to demonstrating OSA-based interoperability with the ISR SIGINT system at the TSOA-ID, Curtiss-Wright will also participate in the InTeROP Utility Demonstration, providing its VPX3-152 and VPX3-1260 SBCs to highlight the interoperable ecosystem of VPX hardware.

“As an industry leader in the development of open standards architecture solutions, we are very proud to participate in the Tri-Service Open Architecture Interoperability Demonstration,” said Lynn Bamford, President, Defense and Power. “Curtiss-Wright is committed to incorporating SOSA™-, CMOSS-, and HOST-aligned modules as part of our standard product family and currently has multiple products in development aligned with these standards.”

Curtiss-Wright has long been a trusted, proven supplier of commercial off-the-shelf (COTS) modules that support OSA and are designed to maximize interoperability, simplifying our customers’ integration and technology upgrade paths. Curtiss-Wright has been instrumental in the development of the VITA VPX standard, which is a baseline technology in the SOSA, CMOSS and HOST standards. Variants of the CHAMP-XD1 and VPX3-1260 modules featured in Curtiss-Wright’s TSOA-ID demonstration are being developed in alignment with the SOSA Technical Standard.

TSOA-ID System Demo Features:

- Interoperation between Leonardo DRS, Curtiss-Wright, and L3Harris hardware
- GDMS Signal Eye Cognitive EW SW running on CHAMP-XD1
- 10GbE Data Plane, 1GbE Control Plane, and PCIe Gen 3 Expansion Plane communications
- PTP Network time sync, VITA 49 Digitized IF, and NVMe Data Transfers
- Up to 34 Gbps total read and write throughput with concurrent MLS processing of multiple classified levels from Unclassified to Top Secret

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company is headquartered

in Davidson, N.C. and employs approximately 9,000 people worldwide. For more information, visit www.curtisswright.com.

For more information about Curtiss-Wright's Defense Solutions division, please visit www.curtisswrightds.com.

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