



NEWS RELEASE

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Curtiss-Wright's Encryption-ready DTS1 Storage Device is the First Common Criteria Certified NAS Solution to Support MIL-STD-1275

Rugged DTS1 NAS device that protects Top Secret data-at-rest, now supports a MIL-STD-1275 filter that provides power supply spike and surge protection on ground vehicles

AUSA 2019, Walter E. Washington Convention Center, Washington D.C. (Booth 2209) –

October 14, 2019– Curtiss-Wright's Defense Solutions division, a trusted leading supplier of rugged data storage and protection solutions, announced today that its [Data Transport System \(DTS1\) Network Attached Storage \(NAS\)](#) device is the embedded industry's first commercial off-the-shelf (COTS) data-at-rest (DAR) storage solution to support two layers of full disk encryption (FDE) in a single device and MIL-STD-1275, ("Characteristics of 28 Volt DC Electrical Systems in Military Vehicles"), the US Department of Defense standard that defines protection against damaging high voltage spikes and long voltage surges from ground vehicle power supplies. The DTS1 is the only Common Criteria certified NAS solution endorsed by the NSA and approved by NATO with two certified encryption layers and a MIL-STD-1275 compliant filter. The DTS1's filter applies test conditions to the input of the vehicle's 28V electrical power system to mitigate against high voltage spikes, long voltage surges, and ripples that can reduce performance and reliability. Compliance with MIL-STD-1275 ensures system integrators that the DTS1 can be used dependably in deployed land vehicle applications.

"Ground vehicles operating in harsh environments can deliver harmful 'dirty power' that can damage sensitive vetronics systems with power surges and spikes," said Lynn Bamford, Senior Vice President and General Manager, Defense and Power. "We are happy to announce that our encryption-ready DTS1 is the first Common Criteria-certified network attached storage solution to

support MIL-STD-1275 and protect against dirty power, optimizing system performance and reliability.”

About the DTS1 Two Layer Encryption Approach

The DTS1 uniquely incorporates two distinct layers of AES 256-bit encryption into one device, making protection of Top Secret data more cost effective and low risk than traditional NSA Type 1 device development. Both the hardware and software FDE layers have been individually evaluated and certified against two Common Criteria protection profiles: (1) collaborative Protection Profile for Full Disk Encryption – Encryption Engine; (2) collaborative Protection Profile for Full Disk Encryption – Authorization Acquisition.

About the DTS1

The very small DTS1 NAS device, which weighs only 3.77 lb. (1.71 kg) and measures only 1.5 x 5.0 x 6.5” (38.1 x 127 x 165.1 mm), delivers up to 4 TB of solid state storage (SSD) with two layers of certified encryption. It supports PXE protocol so that network clients on a vehicle or aircraft can quickly boot from the encrypted files on the DTS1’s removable memory cartridge (RMC). This approach both facilitates software updates for network clients and significantly reduces SWaP by eliminating the need for individual hard disks in each network client. Curtiss-Wright offers two layers of encryption in two mounting options of the DTS1, the VS-DTS1SL-FD, which is designed for cockpit use with DZUS mounting panel, and the VSDTS1SL-F, which uses L-brackets to support very flexible mounting within space-constrained platforms.

The DTS1 enables any network-enabled device to retrieve stored data or save new captured data. Networked devices using heterogeneous operating systems (Linux®, VxWorks®, Windows®, etc.) that support industry standard NAS protocols (i.e., NFS, CIFS, FTP, or HTTP) can store data on and retrieve data from the DTS1. The DTS1 also supports iSCSI protocol for block data storage and PCAP protocol for Ethernet packet capture.

The Common Criteria Advantage

The DTS1 has been evaluated against a common set of international standards, enabling system designers in Common Criteria Recognition Agreement (CCRA) member countries in Europe, Middle East, North America, and Asia, and the 29 NATO states, to confidently, without requiring further evaluation, select the device to greatly reduce the development time of their deployed encryption solution. The rugged small form-factor DTS1 NAS device is designed to store and protect large

amounts of data on helicopters, fighters, unmanned aerial vehicles (UAV), unmanned underwater vehicles (UUV), unmanned ground vehicles (UGV), and intelligence surveillance reconnaissance (ISR) aircraft that require the protection of sensitive DAR to international standards.

Complete Embedded System Solutions

The DTS1 is designed for rugged applications that require the storage, removal, and transport of critical data such as cockpit data (mission, map, maintenance), ISR (camera, I&Q, sensors), mobile applications (ground radar, ground mobile, airborne ISR pods), heavy industrial (steel, refinery), and video/audio data collection (flight test instrumentation). The device can be easily and quickly integrated into a complete rugged deployed system based on Curtiss-Wright's broad range of open architecture single board computers and DSP modules, as well as fully integrated mission computers, sensor management systems, and network switches.

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

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 employs approximately 9,000 people worldwide. For more information, visit www.curtisswright.com.

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