



NEWS RELEASE

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Curtiss-Wright Brings CSfC Cryptographic Security to Transport Agnostic Vehicle-to-Vehicle Mesh Network Tactical Comms

PacStar Secure Mesh Command Post adds two-layer encryption to mesh topology communications for network transports including Wi-Fi, millimeter wave, satellite, 5G cellular, and traditional cabling

ASHBURN, Va. – July 19, 2023 – [Curtiss-Wright's Defense Solutions division](#) has expanded its support for truly resilient mesh network-based vehicle-to-vehicle (V2V) tactical edge communications with the addition of two-layer Commercial Solutions for Classified (CSfC) encryption to protect critical data. The new PacStar Secure Mesh Command Post (SMCP) is a secure V2V tactical communications solution designed for use in expeditionary environments. It meets growing U.S. DoD demand for secure warfighter mobility and provides secure, encrypted V2V access to classified networks at the very edge of the tactical network. Mesh topologies eliminate the threat of a single point of failure. Unlike hub-and-spoke network architectures, the loss of a single node or access point in a mesh network won't result in the loss of the entire V2V network.

Curtiss-Wright's PacStar SMCP takes the rapid setup capability of its CSfC-based Secure Wireless Command Post (SWCP) to the next level, expanding access to multiple vehicles and removing single points of failure, to further the DoD objective of command post mobility. Based on the popular [PacStar 400-Series](#) family, the highly flexible PacStar SMCP delivers the agility, mobility, and resiliency needed to help realize the U.S. Army's Command Post Integrated Infrastructure (CPI2) vision for a mobile vehicle-based command post environment. What's more, the PacStar SMCP is transport

agnostic and can support any wired or wireless network transport, including Wi-Fi, millimeter wave, satellite, and 5G cellular, as well as traditional hardwired cabling if desired.

The PacStar SMCP leverages the industry-leading [PacStar 400-Series](#), providing a “future-proof” approach for tactical communications survivability that supports both legacy and modern applications. The system’s modularity speeds and simplifies the integration of new capabilities as requirements evolve, without needing to retrofit the core system. Believed to be industry’s first V2V mesh network tactical communications solution to offer secure two-layer encryption, the PacStar SMCP is aligned with the NSA’s CSfC approach.

True Vehicle-to-Vehicle Secure Network Connectivity on the Move

Secure wireless mesh networks (SecMesh) advance the battlefield distribution of data connections. SecMesh enable users to set up a wireless network to connect vehicles, plus a “bubble” to broadcast to end-users. SecMesh technology can mesh vehicles together, establishing multiple east/west bound network connections, along with multiple backhauls in case a vehicle is lost. Users registered with one wireless system can roam between all of the wireless systems on the connected battlefield.

PacStar SMCP is a key component of a modern vehicle mounted command post program. This small modular, commercial-off-the-shelf (COTS) communications package enables remote command post and network support vehicles to communicate with primary command post vehicles over mesh wireless networks. The remote capabilities of PacStar SMCP complements [PacStar Secure Wireless Command Posts \(SWCP\)](#), in use today in U.S. Army PM Tactical Network (PM TN) command posts for wireless.

PacStar SMCP provides Central Site encryption, PKI and management services for the entire fleet of connected vehicles. PacStar SMCP uses layered IPsec VPN gateways over meshing radio, enabling the transport of one or more classified and/or unclassified networks between themselves and the Command Post Support Vehicle.

About IQ-Core® Software

[IQ-Core Software](#) is unified network communications management software, designed for secure, tactical, and distributed network management – ideal for edge networks in disconnected, intermittent, and limited (DIL) environments. It comprises four major editions: [IQ-Core Network Communications Manager \(NCM\)](#) for nodal management, [IQ-Core Crypto Manager \(CM\)](#) for CSfC management, [IQ-Core Remote Operations and Management \(ROAM\)](#) for distributed management, and [IQ-Core Endpoint User Manager \(EUDM\)](#) for secure endpoint management. IQ-Core Software contributes to tactical mission success by reducing network misconfiguration, improving uptime, simplifying troubleshooting, and providing cyber situational awareness to tactical networks. It advances the PacStar product family's mission to enable tactical, expeditionary, and mobile organizations to modernize networks. This powerful software enables operators to field the most advanced technologies and achieve cyber overmatch while driving down complexity and training costs. It accomplishes this through an intuitive and integrated user interface that makes system setup and operation quick and easy to learn.

About the PacStar Family of Leading Battlefield Solutions

The industry-leading [PacStar family of advanced communications solutions](#) addresses a wide range of military, intelligence, and commercial applications. Curtiss-Wright created and manufactures COTS-based rugged, small form factor expeditionary and mobile communications systems. Separately, it developed integrated, network communications management software, IQ-Core Software, for the military, federal, state/local government, and emergency responder markets. The company's patented IQ-Core Software, hardware technology, and integrated solutions provide secure, command, control, and communications systems, particularly in remote or infrastructure starved areas. In addition, PacStar communications systems are ideally suited for commercial/industrial organizations with mission-critical field communications requirements.

The PacStar SMCP product sheet is available for download [here](#).

For additional information about Curtiss-Wright Defense Solutions products, please visit www.curtisswrightds.com, LinkedIn, and Twitter @CurtissWrightDS.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation (NYSE:CW) is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding Commercial Power, Process and Industrial markets. Headquartered in Davidson, North Carolina, the company leverages a workforce of 8,100 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships. For more information, visit www.curtisswright.com.

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