

Military

Bring commonality to warfighter systems

The proof of any standard is the adoption and deployment of that standard into a compelling application use case. The FACE Technical Standard is now in version 3.0 and there are 20 products deployed in the FACE Registry with FACE products flying military platforms such as the CH-47 Chinook Block II helicopter. This webcast will cover how the FACE Technical Standard and Business Approach is rapidly creating innovative applications in next generation commercial and military avionics systems. Sponsorship only open to members of FACE Consortium.

CSfC: Protecting Classified, Top Secret, and Secret Data Via Commercial Solutions

Commercial Solutions for Classified (CSfC) is part of the National Security Agency's (NSA's) commercial cybersecurity strategy to leverage commercial technology to protect national security systems. CSfC simultaneously implements two compliant commercial security components in a layered solution to protect the data. This webcast of industry experts will discuss how CSfC enables use of commercial-off-the-shelf (COTS) solutions to reduce long-term costs, enable faster deployments, improve flexibility and transparency while also leveraging open architectures and open standards.

Countering hypersonics through embedded computing solutions

Countering hypersonics has become priority number one for the U.S. military research community as these threats travel at Mach 5, not giving their targets much time to maneuver or defend themselves. While the U.S. is developing its own hypersonic arsenal, it is also looking at how deal with those launched by adversaries. This webcast will look at how embedded signal processing, RF technology, sophisticated sensors, and advanced artificial intelligence (AI) algorithms can help track and defeat these threats.

Enabling actionable intelligence for warfighters through big data solutions

Big Data from a military perspective means sifting through the growing amount of information gathered by the U.S. military to provide warfighters with actionable intelligence. The Five Vs of big data - volume, velocity, variety, veracity, and value - act as the road map for quickly producing the artificial intelligence (AI) software and hardware capable of first processing the zettabytes of data, transferring it, and then analyzing it. This webcast of industry experts details how embedded signal processing, artificial intelligence (AI) solutions, embedded software, and advanced storage technology can solve the challenges in gathering, processing, storing, and analyzing big data for mission-critical applications.

Modernizing Army systems through open architectures and standards

Modernization of Army helicopters, ground vehicles, unmanned systems, communications systems, etc., is dependent on the use of open architectures and open standards. Open architecture initiatives such as the Army's C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) initiative and the Sensor Open Systems Architecture (SOSA) are helping drive this trend. This webcast will focus on how embedded computing & RF technology are enabling innovation in Army platforms via open standards and open architectures.

Navigating Safety Certification requirements for COTS Hardware and Software

FAA and EASA safety certification regulations such as DO-254 and DO-178C are getting harder to navigate as embedded designers seek to get commercial-off-the-shelf (COTS) hardware and software such certified to the highest level. Avionics solutions such as graphics boards, multicore products, FPGAs, and other products bring unprecedented capability to the cockpit but also add complexity. This webcast of industry experts will discuss today's safety certification challenges for military and commercial avionics systems and how to overcome them.

Consortium

Accelerating Avionics Safety and Airworthiness Using the FACE Architecture

One of the most challenging aspects of avionics deployment is achieving airworthiness and safety certification. Critical areas include assuring software to DO-178C Design Assurance Level (DAL) A, certifying graphics solutions, multicore conformance, and more. This webcast of industry experts will detail how leverage the FACE Technical Standard to solve these challenges and provide explicit examples. Sponsorship only open to members of FACE Consortium.

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Ensuring High Assurance & Security in Avionics through FACE

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Reducing SWaP in vetronics applications: How CMOSS enables SOSA

The Army's C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) initiative, launched by the Army Combat Capabilities Development Command (CCDC) C5ISR Center (formerly CERDEC), is a modular open systems architecture (MOSA) that essentially integrates multiple capabilities into one box for military vehicle electronics (vetronics) systems, that before each had a separate box. The initiative reduces size, weight, and power (SWaP) as well as long term costs via open architecture and open standards. This webcast will cover how CMOSS and SOSA harmonize together to reduce SWaP and enable commonality in hardware and software components for military vehicle systems. ** This webcast is open to the members of SOSA.*

SOSA and HOST: Bring commonality to warfighter systems

The Hardware Open Standards Technology (HOST) standard, first initiated by the U.S. Navy's Naval Air Systems Command (NAVAIR), is now used across multiple platforms and services. Much of HOST also falls under the Sensor Open Systems Architecture (SOSA) initiative, which enables interoperability among sensor systems for electronic warfare, radar, and other intelligence, surveillance, and reconnaissance (ISR) applications. Both drive commonality and affordability and HOST overlaps a great deal with SOSA. This webcast will cover how HOST and SOSA intertwine, where they differ, and how all of it impacts warfighters, prime contractors, embedded computing suppliers.

** This webcast is open to the members of the SOSA Consortium.*