

SOSA UPDATE AUGUST 2022

The SOSA Update bimonthly E-newsletter from the editorial staff of militaryembedded.com covers the news, blogs, columns, feature articles, videos, podcasts, and more on the activities of the Sensor Open Systems Architecture (SOSA) Consortium, via the Military Embedded Systems collaboration with The Open Group, who manages the consortium, and the SOSA Outreach Committee. The [SOSA Consortium](#) enables government and industry to collaboratively develop open standards and best practices to enable, enhance and accelerate the deployment of affordable, capable, interoperable sensor systems.



FROM THE EDITOR



2022 SOSA Special Edition

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

Welcome to the 2022 SOSA Special Edition, our second of what is an annual issue, highlighting editorial content on SOSA from the pages and website of Military Embedded Systems Magazine, as well as the products aligned and conformant to the technical standard – all put together exclusively by our staff. Learn about it all in the 2022 SOSA Special Edition!

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GUEST BLOG



Key to JADC2: Converging strategic and tactical communications

MARK HUTCHINS, RAYTHEON INTELLIGENCE & SPACE

In March 2022, Deputy Defense Secretary Kathleen Hicks signed the Joint All Domain Command and Control (JADC2) Implementation Plan, noting that JADC2 will be critical as the military works to keep pace with the volume and complexity of data in modern warfare.

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FEATURE



Unified network communications management: the next step to realizing MOSA

DOMINIC PEREZ, CURTISS-WRIGHT

The vision of hardware interoperability at the tactical edge, from air platforms to ground vehicles to base stations, is now being realized. Because MOSA [modular open systems approach] is an approach and not itself a standard, solutions that support this vision can be achieved through many different means as long as interfaces and communications protocols are based on open standards. There remains a key area to address, though, to achieve seamless interoperability between heterogeneous systems.

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PODCAST



Defense supply chain issues, COTS procurement, MOSA, and more

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

The procurement challenges facing defense technology companies range from a slow U.S. Department of Defense (DoD) acquisition process to supply chain headaches to when and where to leverage commercial off-the-shelf (COTS) technology and open architectures. In this podcast, Mike McCormack, President & CEO of CP North America and Mark Kempf, VP Of CP technologies & CP Systems at CP North America, discuss how those in the defense arena -- government and industry -- can adapt to these challenges. Also discussed are reactions to the DoD's MOSA mandate, recruiting engineering talent, and more.

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MEMBER NEWS



Radar equipment from Mercury Systems to aid in Leonardo UK testing and optimization

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Radar equipment from Mercury Systems will be implemented in Leonardo UK's yet-to-be-deployed "E-Scan" airborne radar as Leonardo embarks on factory testing of its new radar systems.

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NEWS



MOSA in-person conference in Atlanta, Nov. 2022

MILITARY EMBEDDED SYSTEMS

Leveraging Modular Open Systems Approach (MOSA) strategies is the theme for the MOSA conference track at Aerospace Tech Week Americas being held November 8-9, 2022 at the JW Marriott Buckhead in Atlanta. Speakers such as C. Patrick Collier, co-founder of the SOSA Consortium, Jeff Howington of Collins Aerospace, and David Michelson, program manager for the Defense Innovation Unit's (DIU's) BlueUAS program highlight the MOSA agenda.

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NEWS



Cognitive electronic warfare system market to see major growth through 2026: report

DAN TAYLOR, TECHNOLOGY EDITOR

A new report predicts that the global cognitive electronic warfare system market will grow incrementally by \$632.2 million from 2021 to 2026, which would represent a 20% compound annual growth rate (CAGR).

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DENIS SMETANA, CURTISS-WRIGHT

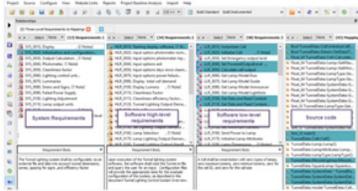
For rugged DSP [digital signal processing] processor



cards, it is important to have a balance between processor performance, memory bandwidth, I/O bandwidth, and ruggedization. Deficiencies in any of these attributes will limit the achievable performance. Due to limited real estate available on 3U OpenVPX boards, designers and users must make tradeoffs on which dimensions to maximize and/or minimize.

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DO-178C: Get on a High with your Software Development

LDRA

The guidance document DO-178 “Software Considerations in Airborne Systems and Equipment Certification”^{1 2} was first published in 1982, re-written in 1992 as DO-178B and updated in 2011 as DO-178C, to reflect the experience accrued to meet today’s aviation industry needs.

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Poor Thermal Design Will Cripple Truck-Mounted AI for Autonomous Driving

ONE STOP SYSTEMS (OSS)

Overlooking thermal design in today’s truck-mounted advanced driver assistance systems can cripple performance, cause critical safety problems, and expose vehicle operators and vendors to liability. Technical leads for autonomous trucks should carefully review ADAS

vendors' thermal design to ensure it meets their performance, durability, and safety requirements.

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