

SOSA™

Sensor Open Systems Architecture

The Open Group SOSA™ Consortium Newsletter

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Successful Multi-INT Demonstration Strongly Depicts the Value of Open Architectures Between the Services

Written by: Devin Wisdom (US Air Force) SOSA Lead Engineer AFLCMC/XA Open Architecture Management Office & Jason Dirner (US Army) MOSA Chief Engineer DEVCOM C5ISR Center MOSA Management Office.

The AFLCMC and C5ISR Center teams worked together to rapidly



integrate numerous OSA technologies in a live demonstration at the December 2023 Association of Old Crows (AOC) International Symposium in National Harbor, Maryland. Multiple Modular Open Systems Approach (MOSA) enabling standards were utilized as part of this effort including SOSA, OMS, CMOSS, REDHAWK, and MORA.

MOSA interoperability demonstration. OAMO Leidos engineers shown (from left) Brennen Smallwood, Josh Ehlinger, and Wyatt Dunn

The emerging Open Architecture technologies powered Multi-INT operations by seamlessly integrating SIGINT, EO/IR, and Communication capabilities. This quick-turn integration and demonstration effort was a great success and strongly depicted the value of open architectures in enabling rapid fielding, Multi-INT operations, and interoperability between the Services. Read the full article [here](#).

MOSA interoperability demonstration. OAMO Leidos engineers shown (from left) Brennen Smallwood, Josh Ehlinger, and Wyatt Dunn

Leadership Feature



“Once I learned more about the state of SOSA, how it was truly run as a consensus-based organization, and that it was about more than just hardware, I started to understand the opportunity. I also could wrap my head around how, an engineer with my experience level, could make a contribution to make the standard better.”

Nick Borton, SOSA Steering Group Committee Vice

Read more about Nick Borton and his perspective on SOSA [here](#).

SOSA Consortium Events

[Curtiss-Wright and Southwest Research Institute have joined to co-host the April 30-May 2, 2024 meetings of the SOSA™ Consortium, in San Antonio, Texas.](#)

Other Conferences and Exhibits

[MOSA For Defense Summit](#) - April 17-18, 2024 National Harbor, MD

Notable speakers include:

- Jason Dirner, MOSA Chief Engineer, MOSA Management Office, Engineering & Systems Integration (ESI) Directorate, U.S. Army DEVCOM C5ISR Center
- Jon S. Drof, NAVAIR PMA209 Assistant Program Manager Open Architecture, The Open Group FACE Consortia NAVAIR Representative Member (Confirmed)

- Nick Borton, SOSA Steering Group Committee Vice Chair

[MOSA Industry and Gov't Summit & Expo](#) - June 17-18, National Harbor, MD

Notable keynote speakers include:

- Major General Robert L. Barrie, Jr. Deputy for Acquisition and Systems Mgmt. Office of the Asst. Secretary of the Army (Acquisition, Logistics and Technology)
- Rear Admiral John S. Lemmon Program Executive Officer Tactical Aircraft Programs (PEO (T)) U.S. Navy, NAVAIR
- Dr. David A. Honey Deputy Under Secretary of Defense for Research & Engineering (DUSD (R&E))
- Ms. Lily Arcusa, SES Director of Engineering & Technical Management Chief Engineer Air Force Life Cycle Mgmt. Center

On-Demand Webinars

Over 500 people attended the MOSA Virtual summit in February, proving the vested interest in the open standards community. If you missed it, the session links are below:

- [Keynote from Jason Dirner](#), MOSA Chief Engineer, MOSA Management Office, Engineering & Systems Integration (ESI) Directorate, U.S. Army DEVCOM C5ISR Center
- [Leveraging MOSA for C5ISR, Electronic Warfare, & Radar Applications](#)
- [MOSA at the Edge—C5ISR Sensors Across Multiple Domains](#)
- [MOSA Strategies for Military Aviation Platforms](#)

SOSA Articles

- [MOSA solutions highlighted by Pacific Defense at Navy field exercises](#)
- [Direct RF: The transformation of critical defense systems](#)

- [100 Gbps processing: Why architectures matter](#)
- [Industry developing creative solutions for GPS-denied environments](#)
- [Can SOSA bring back interoperability?](#)

Press Releases

- [New High Performance ATR Enclosures Aligned With the SOSA Technical Standard](#)
- [SOSA-aligned 3U VPX embedded computing card for harsh-environment defense and avionics](#)
- [Rugged SOSA-aligned 6U VPX embedded computing module with cyber security](#)
- [SOSA-aligned 3U OpenVPX switch and chassis for electronic warfare \(EW\) and radar](#)
- [Revolutionizing Military Networking: Unveiling the MILTECH 800G3UVPX](#)
- [SOSA-aligned half-ATR embedded computing chassis for communications and electronic warfare \(EW\)](#)

Conformance Corner

Over the past several months, the Conformance Standing Committee (CStC) published the SOSA Recognized Verification Authority Requirements document. This document specifies the requirements that an organization must meet to be recognized to perform verification



services within the SOSA™ Conformance Certification Program (the Program). The CStC also published the SOSA Verification Procedures document for the Electrical and Mechanical portion of the SOSA Technical Standard. The Electrical and Mechanical Verification Matrix, the Power Supply Card (PSC) Verification Matrix, and an update to the Verification Procedures document including information for PSCs are all in review with the Open Group. The CStC is also finishing the Hardware Plug-In Card (PIC) Verification Matrix and expects this to undergo CStC review before full SOSA Consortium review. Finally, the CStC will update an existing PSC Test Tool and submit it for Tool Certification through The Open Group.
Photo: Patrick Collier, Aspen Consulting

Videos

- [SOSA Aligned RF and RF/Fiber Products](#)
- [The Standards Revolution DDV VPX720](#)
- [Embedded Products Designed to Align to the SOSA Standard](#)

SOSA Technical Status

The Open Group's Sensor Open Systems Architecture Consortium Releases SOSA Technical Standard Edition 2.0, Snapshot 2.0 [Download it today](#)

Published SOSA Documents

- [SOSA Certification Program Certification Guide Version 1.0](#)
- [SOSA Conformance Certification Program Conformance Certification Policy](#)
- [SOSA Technical Standard Reference Architecture, Edition 2.0 \(Snapshot 1\)](#)
- [SOSA Technical Standard Reference Architecture Edition 1.0](#)
- [SOSA Business Guide](#)

SOSA Request For Information (RFI)

The Army has recently issued an RFI that includes a SOSA reference. Details of the solicitation: [Request For Information \(RFI\) Biocular Helmet Mounted Display: Notice ID: PANRSA24P0000005586](#)

Don't Miss Out: Directory of SOSA Consortium Aligned Products

Early feedback from acquisition and procurement professionals in the services tells us they now reference the SOSA aligned product directory regularly to find SOSA aligned solutions. Don't miss out, [add your products today](#).

SOSA Special Edition Materials Due Now!

The SOSA Consortium collaborates with Military Embedded Systems magazine to produce the annual SOSA Special Edition showcasing the SOSA Technical Standard. The 4th annual SOSA Special Edition is underway! All SOSA members are listed in the edition, additional exposure via product profile listings, thought leadership executive speakouts and print ads are available to SOSA members. For pricing on those items, please contact pat.hopper@opensysmedia.com.

New SOSA Members

The SOSA Consortium has grown to over 160 [Members](#) at the Sponsor, Principal, and Associate levels. Welcome to the new Members below:

Sponsor level:

- [Air Combat Command \(USAF\)](#)

Associate level:

- [General Atomics Aeronautical Systems, Inc.](#)
- [Insulated Wire Inc.](#)
- [Integrated Solutions for Systems, Inc. \(IS4S\)](#)
- [Intellisense Systems Inc.](#)
- [Lynx Software Technologies](#)
- [Peraton Labs](#)
- [PIC Wire & Cable](#)
- [Omnetics Connector Corporation](#)
- [Teledyne Storm Microwave](#)
- [VISTology, Inc.](#)

For information on becoming a Member of the SOSA Consortium, email Mike Hickey (Membership Director) [here](#).

SOSA Working Groups

The success of the SOSA standard depends on its Members and leadership. If you wish to join a Working Group, send an email to r.hammond@opengroup.org and go [here](#) for a complete list of working groups:

[SOSA Technical Working Group](#)

[SOSA Business Working Group](#)

SOSA Special Edition

The SOSA Consortium collaborates with Military Embedded Systems magazine to produce the annual SOSA Special Edition showcasing the SOSA Technical Standard. The third issue of the Special Edition has been released! If interested in participating in the next issue, please contact Military Embedded Systems directly, [here](#). This print and digital magazine features SOSA related editorial content, a list of SOSA members, product profiles, and executive speakouts. Download a copy [here](#).

SOSA Infographic

The SOSA Consortium has approved a SOSA infographic that members can use. The infographic visually shows where the SOSA Technical Standard fits in with other open standards. [Download on Plato](#).



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