



The Open Group SOSA® Consortium Newsletter

Issue #14 – 2025 Q1

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Electronic Attack Field Programmable Gate Array (FPGA) Use Case Demonstration

Authors: *Jarrett Holcomb (Southwest Research Institute), Jasmine Gurley (Georgia Tech Research Institute) and Jacob Hardegree (AFLCMC/HBY)*

Threats are continuously evolving, necessitating countermeasure technique generators (TG) to update more rapidly to shield warfighters from emerging radar systems. Numerous approaches have been proposed to tackle this challenge in electronic warfare (EW). One promising solution is the SOSA™ (Sensor Open Systems Architecture) FPGA runtime environment (RTE), which facilitates the portability of these TGs while minimizing integration expenses. [Read more](#) about the MIRAGE pod, a versatile platform, aligned with Open Architecture Standards, developed by the United States Air Force (USAF) to enhance and evaluate EW capabilities in operationally relevant settings.

SOSA Consortium News and Events

(Must be an onboarded Member to attend meetings)

An updated MOSA Memorandum Released Late 2024

The MOSA directive was reaffirmed by Congress in December 2024. The Open Group FACE and SOSA Consortia released a statement celebrating the announcement. Read the full January News Release titled [Tri-Services Directive Memorandum](#).

Happy 10th Anniversary to the SOSA Consortium!

SAVE THE DATE! There will be a special evening gala for Consortium Members celebrating the 15-year anniversary of the FACE® Consortium and the 10-year anniversary of the SOSA Consortium. This memorable event will honor the remarkable journeys and accomplishments of both consortia.



Date: August 25, 2025 (Time: TBD) **Location:** Westin Alexandria Old Town
400 Courthouse Square, Alexandria, VA

Please direct all questions to Joanne — j.alvarado@opengroup.org.

Next SOSA Meeting is Scheduled

The SOSA Consortium Virtual meeting is scheduled for April 1-4, 2025.

[Click here to register.](#)

Conferences, Exhibits, and Virtual Events

• **MOSA Virtual Summit:** The enlightening keynote was presented by Patrick Collier, Chair of the SOSA Conformance Standing Committee and the Chair of the SOSA Infrastructure Committee. It was sponsored by SOSA Consortium Members: Concurrent, Elma, Kontron, and LCR Embedded Systems. Several sessions covering diverse topics were presented, and are now available on-demand:

- [MOSA Keynote](#)
- [Leveraging MOSA for Electronic Warfare and SIGINT Applications](#)
- [MOSA at the Edge Across Multiple Domains](#)
- [MOSA Strategies for Army Aviation and Ground Platforms](#)

• **Upcoming 2025 Member-Supported Industry Events:** an annual list of Member-supported industry events of note is located on our [website](#).

DATES	INDUSTRY EVENT NAME	LOCATION
March 25-27, 2025	AUSA Global Force Symposium & Exhibition	Huntsville, AL
April 6-9, 2025	Sea Air Space	National Harbor, MD
April 29-May 1, 2025	Modern Day Marine	Washington, DC
April 30-May 1, 2025	DSI Group MOSA for Defense Summit	National Harbor, MD
May 14-26, 2025	Quad A	Nashville, TN
May 5-8, 2025	SOF Week	Tampa, FL
May 6-8, 2025	AOC EW Europe	Rome, Italy
May 28-29, 2025	Cansec	Ottawa, Canada
June 16-22, 2025	Paris Air Show	Paris, France
July 16-17, 2025	AUSA LANDEURO	Wiesbaden, Germany
July 28-August 1, 2025	IEEE Space Mission Challenges for IT & Space Computing Conference	Los Angeles, CA

MOSA e-Book Features Strategies for Military Applications



[Download the new MOSA e-Book](#) featuring leading editorial on MOSA strategies for military applications. This book represents the demand and wide acceptance of the MOSA ecosystem with coverage on SOSA, FACE, CMOSS topics, and more. A special thanks to Precise Systems for sponsoring the creation of this book for the community.

Fifth Annual SOSA Special Edition: Your Participation Needed!

The SOSA Consortium collaborates with Military Embedded Systems magazine to produce the annual SOSA Special Edition, which showcases the SOSA Technical Standard. To feature your SOSA aligned products, services, and perspectives, review the categories and options [here](#).

Deadline:

- Advertising: 3/27 (materials due 4/1)

Industry News

- [PlugFest at Beale tests conformance and performance of open systems components](#), *Air Combat Command*
- [MOSA reaffirmed, empowering small business](#), *Military Embedded Systems*
- [EIZO Releases High-Performance 3U OpenVPX Video Graphics and GPGPU Card Featuring NVIDIA RTX 2000 Ada Generation Embedded GPU](#)
- [Pacific Defense Unveils Industry's First 3U OpenVPX Plug-In Card with Silvus Technologies StreamCaster MN-MIMO MANET Radios](#)

SOSA Request For Information (RFI)

- [Sensor Open Systems Architecture \(SOSA\) S3C & HPSC Turn-Key Product Development System](#)
- [SIGINT for Gray Eagle](#)
- [PEO Aviation Request for Information \(RFI\) on Aviation General-Purpose Computing Opportunities](#)
- [Request for Information - Open Architecture](#)

Conformance Corner

Photo: Patrick Collier, Senior Systems Engineer - Infrastructure and Conformance
Standing Committee Chair, Aspen Consulting

The Conformance Standing Committee (CStC) has accomplished a lot since our last newsletter. The CStC, and SOSA overall, is fully focusing on moving conformance towards v2 of the SOSA Technical Standard. The SOSA Steering Committee agreed to make this a priority following the Snapshot 4 release of the SOSA standard. We've completed full updates to the SOSA Verification matrices:



1. SOSA 3U PIC Profiles (6U is still in process)
2. SOSA Out-Of-Band (OOB) general requirements. CStC completed the first version of this matrix and gave it to the OOB Task Team (TT) to review and compose all verification procedures for each requirement
3. SOSA OOB Chassis Manager, this matrix is also with the OOB TT to review and compose verification procedures
4. SOSA Power Supply Card (PSC)
5. Electrical-Mechanical Connectors
6. We presented the SOSA Conformance Template for SOSA Change Proposals (CPs) to SOSA Technical Working Group (TWG); we are also working with The Open Group to attach this to all new CPs in Git

Lots of potential test tools are in process. Can't talk to specifics here and instead will leave you all with a sense of anticipation. The Open Group oversees recognizing test tools for SOSA. Thank you and talk to you via the next newsletter!

"A fundamental tenet of SOSA conformance and certification is independent verification of products developed with the SOSA Technical Standard. This pillar is foundational and ensures strict adherence to the standard based on the number of Conformance Sets used by the developer."

- Patrick Collier, Chair of the SOSA Conformance Standing Committee

Add your Products and Solutions that Align to the SOSA Technical Standard in the SOSA Members Only Online Directory

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!](#)

New SOSA Members

Exciting News: The SOSA Consortium has grown to over 170 [Members](#) at the Sponsor, Principal, and Associate levels. Welcome to the new Members below:

Associate level:

[Silver Palm Technologies](#), [Triad RF Systems](#), and [Wind River](#)

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

SOSA Working Groups

The success of the SOSA Technical Standard depends on its Members and leadership. If you wish to join a Working Group, please send an email to: r.hammond@opengroup.org.

SOSA Technical Status

The Open Group Sensor Open Systems Architecture Consortium Releases SOSA Technical Standard Edition 2.0, Version 2 (Snapshot 2). [Download it today](#).

Published SOSA Documents

- [SOSA Reference Implementation Guide](#)
- [SOSA Acquisition & Contracting Guide](#)
- [SOSA Certification Program Certification Guide Version 1.0](#)
- [SOSA Conformance Certification Program Conformance Certification Policy](#)
- [SOSA Business Guide](#)



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