

# SOSA™

## Sensor Open Systems Architecture

The Open Group SOSA™ Consortium Newsletter

Issue #13 – 2024 Q4

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### The Open Group SOSA™ Consortium Events

*Must be an onboarded SOSA Consortium Member to attend*

#### Thank you to our Hosts!

We appreciate NVIDIA hosting the November F2F SOSA Consortia Members meeting in Santa Clara, CA.

We would also like to thank Annapolis Micro Systems, LCR Embedded Systems, and Parry Labs for sponsoring the September F2F SOSA meeting in Huntsville, AL.

**Save the Date!** Next Virtual All Consortium Meeting on February 3-6, 2025. More to come.

## The Open Group FACE® and SOSA™ Consortia Virtual Technical Interchange Meeting

The Open Group FACE® and SOSA™ Consortia virtual TIM was held on November 13-14, 2024. This year the TIM focused on MOSA (Modular Open Systems Approach) in Practice and how MOSA benefits from both the FACE and SOSA approaches. If you missed it, [the papers are available for review](#).

## AUSA SOSA & FACE Consortium Briefing 2024 was a Success



Thirty Members from industry, government, and the press were in attendance at the SOSA & FACE Briefing during AUSA. The briefing solidified how these open standards, adhering to the MOSA initiatives, are changing the business landscape to meet the DOD's demand to field new capabilities, and to drive interoperability more rapidly.

Some highlights include:

- Updates on the consortia membership & milestones
- How and why these initiatives are so important to the defense community
- Army SOSA Stories covering reference system architecture, CMFF, and lessons to lower costs
- \$228M Army programs of record have specific SOSA requirements
- Program managers' importance to showcase standards awareness and influence government acquisition

Briefing slides can be viewed [here](#).

## Conferences, Exhibits, Webinars, and Virtual Events

- [SOSA in use: Radar, Electronic Warfare, Communications Applications](#) (on-demand webinar)
- [Upcoming 2025 Member-Supported Industry Events](#)

## 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](#)

## New 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.

## The Fourth Annual SOSA Special Edition is Now Available

The SOSA Consortium collaborates with Military Embedded Systems magazine to produce the annual SOSA Special Edition showcasing the SOSA Technical Standard. Download it today [here](#).

## Industry News

- [Modular open systems critical to Army's future technological development: Army Secretary – Military Embedded Systems](#)
- [Pacific Defense unveils SX-923: a new side-loading SOSA/CMOSS aligned chassis for mission-critical applications](#)
- [Rugged deployable CMFF chassis aligned to SOSA™ with SAVE tray – Elma Electronic](#)
- [SOSA-Aligned Wideband Digital Signal Processing with Agilex 9 – Mercury Systems](#)
- [Insights on the future of SOSA™ from Kontron's expert](#)
- [SOSA Consortium calls to program managers, says conformant suite coming soon - Military Embedded Systems](#)

## Conformance Corner

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

Since the last update, the Conformance Standing Committee (CStC) published all relevant SOSA specific and The Open Group specific legal and fees documents integral to the creation of a SOSA Conformance Program. These documents, in conjunction with already published VA Requirements document, EMSC and PSC Verification Procedures constitutes a reasonable chunk to initiate a first phase of the Conformance Program. The CStC is now waiting for SOSA Steering approval for both Certification Fees and Verification Fees to



move forward. Additionally, the Joint Tactical Networking Center (JTNC) continues to update and mature their Common Test Tool Framework (CTTF) and GTRI with its Automated Conformance Test (ACT) Suite. The CStC also completed development of a new Verification Matrix (VM) template which organizes requirement information in a better format. Once both efforts complete to fruition, The Conformance Program will be in a position to automate a good portion of its work and reduce cost to anyone who wishes to verify and certify their product.

## **The Open Group Directory of Products Aligned to the SOSA™ Technical Standard**

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

## **New SOSA Members**

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

### **Principal Level:**

[Aeronix Technologies Group](#) and [Concurrent Technologies Inc.](#)

### **Associate level:**

[Brandywine Communications](#), [Clarity Cyber](#), [Corning Optical Communications Rf LLC](#), [Cyber Pack Ventures, Inc.](#), [GIRD Systems, Inc.](#), [LDRA Technology, Inc.](#), [Naval Surface Warfare Center - Crane](#), [PicoGrid](#), [Precise Systems, Inc.](#), [Space Micro, Inc.](#), [Swarm Aero](#), [Systematic, Inc.](#), [Technology Advancement Group](#), and [ZDEN Technologies](#)

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, send an email to [r.hammond@opengroup.org](mailto:r.hammond@opengroup.org).

## **SOSA Technical Status**

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

## **Published SOSA Documents**

- [NEW! SOSA Reference Implementation Guide](#)

The intent of this document is to provide initial support to the users of the SOSA Technical Standard as they design, update, or modify SOSA based sensors and mission systems.

- [NEW! SOSA Acquisition and Contracting Guide](#)

This document provides guidance for novel approaches to Acquisition and Contracting that best align with the mandate for Modular Open Systems Approach (MOSA) and its implementation into a SOSA Reference Architecture.



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