

SOSA UPDATE APRIL 2021

The SOSA Update quarterly 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.



PODCAST



Short VPX and the military's demand for smaller form factors

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

Reduced size, weight, and power (SWaP) requirements are pervasive throughout defense electronics platforms. Electronic footprints continue to shrink so much that traditional small form factors like 3U VPX or 3U CompactPCI are considered too big. So, it's not surprising that the VITA Standards Organization (VSO) is looking at new form factors, such as Short VPX. In this podcast, Jay Grandin, Vice President of Product Development at Annapolis Micro Systems discusses demand for small form factors, how Short VPX can meet that demand and how it fits into the Open VPX ecosystem. Grandin also explores what military applications would be best suited for the new standard and how it could potentially work within the Sensor Open Systems Architecture (SOSA) Technical Standard, of which version 1.0 is expected to be completed this year.

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MEMBER NEWS

Abaco Systems to be bought by Ametek

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

Officials from Ametek announced that the company has

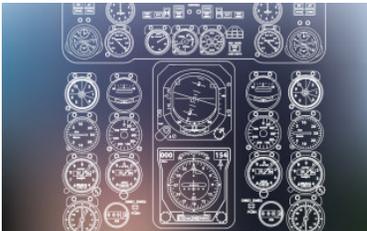


entered into a definitive agreement to acquire Abaco Systems, Inc., a provider of mission-critical embedded computing systems for electronic warfare, radar, avionics, communications, and other military applications from Veritas Capital in an all-cash transaction valued at \$1.35 billion.

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MEMBER PERSPECTIVE



COM-HPC for military: Opportunities and challenges

JOHN REIS, ADVANTECH

The U.S. military is constantly in search of technology that will lead to improving military capabilities while minimizing the risk to the warfighter. The COM-HPC standard promises to increase the functionality of edge computing and usher in new applications that will forever change the way military operations are conducted. There exist multiple opportunities as well as some challenges related to the adoption of COM-HPC for military use.

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MEMBER NEWS



SOSA-aligned development platform to speed integration tasks released by Pentek

EMMA HELFRICH, TECHNOLOGY EDITOR

Pentek, Inc., announced a development platform, the

Model 8256, that is aligned to the SOSA Technical Standard. According to the company, the Model 8256 is a 3U VPX platform with IPMI and connectivity for RF and optical interfaces.

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INDUSTRY PERSPECTIVE



How collaboration can lower the barrier of entry to DoD business

PAUL MEYER, RAYTHEON INTELLIGENCE & SPACE

In a recent congressional testimony, Deputy Defense Secretary Kathleen Hicks stated that as the United States faces growing security challenges, acquisitions of new technology should “increase warfighting effectiveness, enhance resilience, leverage commercial technology and innovation, and rapidly respond to future threats.” Hicks also called on the U.S. Department of Defense (DoD) to seek “interorganizational collaboration” to address such challenges, while expressing concern regarding the barriers to entry for technology companies that want to do business with DoD. The reality is that Silicon Valley isn’t the only gateway to innovation within the DoD.

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MEMBER NEWS



VITA announces Dean Holman as VP and assistant executive director

JERRY GIPPER, EDITORIAL DIRECTOR

VITA, the trade association for standard computing architectures serving critical embedded systems industries, announced that Dean Holman has accepted a position as VITA VP and Assistant Executive Director, effective March 1, 2021.

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WEBCAST



How SOSA Aligns with Current Open Standards

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

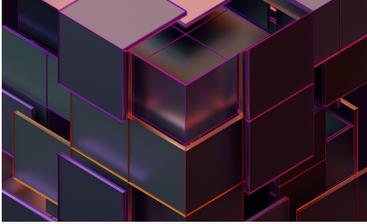
One of the keys to the success of the Sensor Open Systems Architecture (SOSA) is that it was developed by aligning with current open standards and open systems architectures, including FACE, HOST, REDHAWK, MORA, OpenVPX, and similar specifications. The SOSA Consortium also works closely with such standards organizations as VITA, FACE, PICMG, IEEE, SAE International, Wireless Innovation Forum, and others. This webcast, titled "How SOSA Aligns with Current Open Standards," held Tuesday, May 11, covers how the SOSA Technical Standard has adapted to and aligned with open architecture standards and how it has impacted the design of SOSA-conformant hardware and software.

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INDUSTRY FEATURE

Versatility is key as OpenVPX enclosure requirements continue to evolve

JUSTIN MOLL, PIXUS TECHNOLOGIES



Despite the fact that OpenVPX is an open standard architecture, there is a significant amount of variation of system platforms. The application needs for OpenVPX systems continue to evolve rapidly. New challenges brought by the Sensor Open Systems Architecture (SOSA) Consortium's efforts; new complementary VITA [VMEbus International Trade Association] standards; size, weight, and power (SWaP) concerns; the expanding number of backplane profiles; and SpaceVPX implementations are requiring a versatile approach by the backplane/enclosure developers.

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