

MARCH 2019



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Integrity of embedded systems

RUSSELL DOTY, RED HAT

It is critical to be able to verify the integrity of systems used in military and other applications to ensure that they have not been modified or corrupted. It is of course best to prevent a system from being tampered with. If this can't be done, it is vital to detect tampering. In many cases it is better to prevent a system from operating at all if you can't be sure it hasn't been modified.

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MACsec encryption extends the value of copper-based Ethernet LANs

MIKE SOUTHWORTH, CURTISS-WRIGHT DEFENSE SOLUTIONS

There is vastly more copper-based twisted-pair Ethernet infrastructure deployed on military and aerospace platforms than there is fiber-optic cable-based wiring. For one thing, the cost of copper cabling and its related connectors keeps being driven downward by the economies of scale brought about by its widespread use, helping to make it virtually ubiquitous.

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Securing the supply chain

CHRIS CUMMINS, ABACO SYSTEMS

Recently, I had the privilege of addressing the delegates at the Embedded Tech Trends (ETT) industry forum [in San Diego January 28-29]. I spoke about what we at Abaco see as one of the most pressing concerns for our industry, and one that we take extremely seriously: The



issue is one of ensuring the absolute security of our supply chain.

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DARPA adds PARC and GMU to its ConSec program

MARIANA IRIARTE, TECHNOLOGY EDITOR

Defense Advanced Research Project Agency (DARPA) officials selected the Palo Alto Research Center, Inc. (PARC, a Xerox company) and George Mason University (GMU) to work under the agency's Configuration Security program (ConSec).

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Perspecta Labs tests cyber-weapon hunting tech in DARPA's power cybersecurity exercise

MARIANA IRIARTE, TECHNOLOGY EDITOR

Perspecta Labs -- a research unit at Perspecta Inc. -- participated in seven-day exercise under the Defense Advanced Research Projects Agency's (DARPA) Liberty Eclipse Phase II exercise in collaboration with the Department of Energy and the Department of Homeland Security to test grid recovery tools during a staged, multi-faceted cyberattack on a U.S. power grid.

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Lockheed Martin to leverage Silent CROW to develop cyber/EW system

MARIANA IRIARTE, TECHNOLOGY EDITOR

Lockheed Martin officials signed a Prototype Project Agreement through an Other Transaction Agreement (OTA) with Consortium Management Group (CMG) on behalf of Consortium for Command, Control and Communications in Cyberspace (C5). The contract is valued at \$18 million.

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USAF information-security project worth \$77 million awarded to VMD Corp.

LISA DAIGLE, ASSISTANT MANAGING EDITOR

VMD Corp., a systems integrator and IT-security contractor, has won a \$77 million contract from the U.S. Air Force (USAF) to support the USAF Office of Information Dominance and Chief Information Officer (SAF/CIO A6) in its cyberspace-protection mission.

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BAE Systems selected to bid in \$898 million IDIQ cyber engineering contract

MARIANA IRIARTE, TECHNOLOGY EDITOR

BAE Systems will be able to compete for future cyber engineering task orders awarded under a seven and a

half-year, indefinite delivery/indefinite quantity (IDIQ), U.S. Navy contract.

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NATO extends Leonardo contract to continue cyber detection, management capabilities

MARIANA IRIARTE, TECHNOLOGY EDITOR

NATO Communications and Information Agency (NCI Agency) officials signed the NATO Computer Incident Response Capability (NCIRC) Cyber Security Support Services (CSSS) contract with Leonardo to continue to deliver cyber-incident detection and management capabilities.

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Machine learning aids early detection of anomalies in cybersecurity analysis from Frost & Sullivan

MARIANA IRIARTE, TECHNOLOGY EDITOR

Frost & Sullivan's analysis titled "Envisioning the Next-Generation Cybersecurity Practices," presents an overview of cybersecurity in enterprises and analyzes the drivers and challenges to the adoption of best practices in cybersecurity. It also covers the technologies impacting the future of cybersecurity and the main purchase factors.

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Perspecta Labs to demo multimodal

DDoS defense solution under DARPA XD3 program

MARIANA IRIARTE, TECHNOLOGY EDITOR

Perspecta Labs -- a research unit at Perspecta Inc. -- will continue its research and development (R&D) work on cyber defenses against distributed denial of service (DDoS) attacks for the Defense Advanced Research Projects Agency (DARPA) under a new contract modification worth up to \$2.7 million, dependent on successful completion of milestones.

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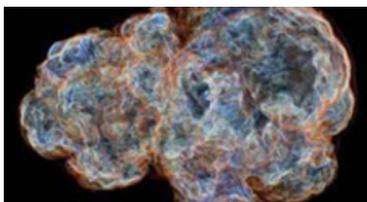


B.E.A.T. and Enlighten IT partner under cyber analytics USAF contract

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Enlighten IT Consulting, LLC -- a business unit at MacAulay-Brown, Inc. (MacB), an Alion company -- is partnering with Business Enabled Acquisition & Technology (B.E.A.T. LLC) on a contract award for the U.S. Air Force (USAF).

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WHITE PAPER

Bare-Metal High Performance Computing in the Cloud

SKYSCALE

On June 8th, 2018, the world's fastest supercomputer, the IBM/NVIDIA Summit, began final testing at the Oak

Ridge National Laboratory in Tennessee. Peak performance comes in at over 200 petaflops and 3.3 exaflops for tensor operations.

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