

JULY 2019



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## Defensive cyber operations accord signed between U.S. Army and Intelligent Waves

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Information-technology provider Intelligent Waves has won an Eagle Shield Blanket Purchase Agreement (BPA) from the U.S. Army in support of Defensive Cyber Operations (DCO).

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## Power anomalies can reveal malware hiding within embedded systems

SALLY COLE, SENIOR EDITOR

Malware is insidious ? with literally millions of varieties available for attackers to choose from ? and, despite attempts at prevention, the malicious software occasionally slips through firewalls and other security measures. But researchers at North Carolina State University and University of Texas at Austin have created a way to detect the types of malware that use a system's architecture to thwart traditional security measures. The tool works by tracking the power fluctuations within embedded systems.

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## Information warfare capabilities modernized through NAVWAR engineering facility upgrade

EMMA HELFRICH, ASSOCIATE EDITOR

Naval Information Warfare Systems Command



(NAVWAR) upgraded its Network Integration Engineering Facility (NIEF) to better support the design and delivery of advanced information warfare capabilities to the fleet.

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## **BAE Systems awarded \$90 million contract to modernize and maintain C5ISR systems**

EMMA HELFRICH, ASSOCIATE EDITOR

The U.S. Navy has awarded BAE Systems a five-year, \$90 million indefinite-delivery/indefinite-quantity contract to modernize and maintain command, control, communications, computers, cyber, intelligence, surveillance, and reconnaissance (C5ISR) systems embedded within vehicles, watercraft, and specialized communications platforms.

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## **U.S. government awards RTI contract to bridge DoD cybersecurity technology and standardization gap**

EMMA HELFRICH, ASSOCIATE EDITOR

Real-Time Innovations (RTI), the Industrial Internet of Things (IIoT) connectivity company, today announced that it has been awarded a Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Phase II contract to advance a large Department of Defense (DoD) system within the U.S. Navy.

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Software Engineering Institute

## Cyberintelligence lapses in many orgs due to time, personnel, and funding shortages, study finds

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Many organizations lack sufficient personnel, time, and funding to build a cyberintelligence team, according to the findings in a report on cyberintelligence practices released by the Software Engineering Institute (SEI) at Carnegie Mellon University.

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## Secure comms and satellite contract worth \$14.9 million signed between U.S. Army, Peraton

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Tactical cybersecurity company Peraton has won a five-year, \$14.9 million ground-based midcourse defense (GMD) secure communications operations and maintenance (SCOM) contract with the U.S. Army, 59th Signal Battalion.

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## Navy cyber secure Smart Grid completes capability test, launches at Norfolk base

MARIANA IRIARTE, TECHNOLOGY EDITOR

The Naval Facilities Engineering Command (NAVFAC) deployed the Smart Grid enterprise energy management



solution at the Naval Station in Norfolk after completing a capability test in February. The test validated that Smart Grid is operating as it was originally intended.

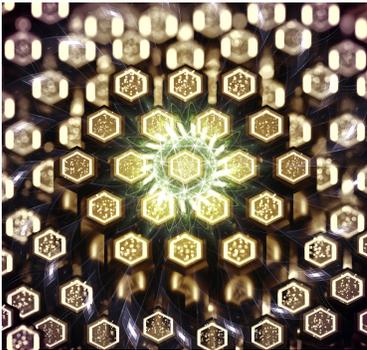
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## Making it Cool: Solving Thermal Management Challenges in Military Electronics

**Sponsored by:** Atrenne Computing Solutions, Kontron, nVent Schroff

**Date:** July 18, 11:00 a.m. ET

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### Embedded AI for military applications

JOHN BRATTON, MERCURY SYSTEMS

Artificial intelligence (AI)-powered smart machines and other cognitive offensive capabilities are being fielded by nations and non-nations who are seeking to raise their respective global postures and/or degrade others as a new age of warfare begins. The new age of warfare is AI-powered and uses technology that is affordable and widely available.

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### The case for containerization at the tactical edge

DAVID GREGORY, PACSTAR

At the tactical edge ? let?s define it as the platforms, sites, and personnel operating at lethal risk in a battlespace or crisis environment ? one frequent challenge is how to create or host a service/application that can make the difference between life and death for the warfighter. Containerization applications can enable users at the tactical edge to dynamically deploy, manage, and secure critical applications.

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## Get the insider's view on satellite technology today

WIND RIVER

The New Space Race is a new podcast series hosted by John McHale, group editorial director for Military Embedded Systems and brought to you by Wind River?. Hear about the people and technology that are transforming the space industry today. During this six-episode event we will explore how satellites have developed from the first GEO satellites of decades ago to the new SmallSats being launched en masse today. Each episode will feature interviews with experts on the satellite industry covering the spacecraft themselves as well as the hardware and software that enables their complex payloads.

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# CURTISS - WRIGHT

#### WHITE PAPER

## Ground Vehicle Video Management System Integration

CURTISS-WRIGHT DEFENSE SOLUTIONS

The proliferation of video sources on-board today's tactical ground vehicles has resulted in the need for modern video equipment to ensure the video's usability and availability. Increasing demand for cost-effective, size, weight, and power (SWaP) optimized video management and rugged display solutions is driven by video system upgrades or new video system architectures required to maximize video source usefulness. It is often challenging due to a number of factors. This white paper analyzes the challenges in choosing video system components that will keep system cost and footprint down in space-constrained environment all while reducing program risk and time to market.

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