

# CYBERSECURITY & Information Systems Digest

The Latest From the Cybersecurity & Information Systems Information Analysis Center // February 23, 2022



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## NOTABLE TECHNICAL INQUIRY

### What is the industry standard for performing a privacy impact assessment?

A privacy impact assessment (PIA) is an essential element for effective privacy by design. It enables privacy leaders to be assured that the privacy controls implementation satisfies regulations and organizational requirements and is key to determining what steps must be taken to manage privacy risk for the organization. The standard ISO 29134 (Guidelines for Privacy Impact Assessment, June 2017) defines a PIA as the overall process of identifying, analyzing, evaluating, consulting, communicating, and planning the treatment of... [READ MORE](#)



## SNEAK PEEK

**UPCOMING WEBINAR:**  
*Digital Transformation of SATCOM Networks*

**DATE:**  
February 23, 2022

**TIME:**  
12:00 PM

**PRESENTED BY:**  
Dr. Juan Deaton

**HOST:**  
CSIAC



## VOICE FROM THE COMMUNITY

**Dr. Juan Deaton**  
*Research Scientist*

Dr. Juan Deaton is a research scientist at Envistacom, where he builds virtualized SATCOM systems. His 20 years of telecom research and experience include anti-jam waveforms, satellite channel models, spectrum optimization and modeling, emergency communications, and developing LDPC codes for Versa FEC 2. He received the 2005 CDMA Quality Award for developing hands-on training for CDMA cellular equipment deployments. His patented and published work involves spectrum sharing in 4G wireless networks, wireless airborne emergency communications, and mobile advertising.

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## HIGHLIGHT

### Supercomputing Exposes Potential Pathways for Inhibiting COVID-19

To explore the inner workings of severe acute respiratory syndrome coronavirus 2, or SARS-CoV-2, researchers from the Department of Energy's Oak Ridge National Laboratory developed a novel technique.

The team — including computational scientists Debsindhu Bhowmik, Serena Chen, and John Gounley — ran molecular dynamics simulations of the novel virus that caused the COVID-19 disease pandemic on ORNL's Summit supercomputer, an IBM AC922 system. [LEARN MORE](#)

## FEATURED NEWS

### CISA Publishes Infographic on Layering Network Security Through Segmentation

CISA has published an infographic to emphasize the importance of implementing network segmentation—a physical or virtual architectural approach that divides a network into multiple segments, each acting as its own subnetwork, to provide additional security and control that can help prevent or minimize the impact of a cyberattack.



CISA encourages network architects, defenders, and administrators to review the infographic, Layering Network Security Through Segmentation, and implement its recommendations where possible. [READ MORE](#)



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## WEBINARS

### Digital Transformation of SATCOM Networks

*Presented:* February 23, 2022 12:00 PM - 1:00 PM

*Presenter:* Dr. Juan Deaton

*Host:* CSIAC

Driven by the rapidly changing space segment, satellite ground networks are in the midst of evolutionary change called the digital transformation. The digital transformation will enable the satellite communications (SATCOM) to realize benefits in speed of innovation, scale, and cost. More importantly, the digital transformation will help fulfill the key demands of next-generation SATCOM networks. The digital transformation comprises two components that are widely accepted and adopted in the larger telecommunications industry: digitization and virtualization. Digitization modularizes and commoditizes SATCOM modem architectures to use common hardware and introduces a new digital intermediate frequency (IF) interface. Additionally, standardization of digital IF is paving the way for these next-evolution architectures. The move to common hardware through digitization forms the basis for virtualization, which creates agile terminals that can deploy a variety of waveforms and applications. Leveraging virtualization, network function virtualization provides a new paradigm to support virtualized service chains and management of virtual network functions. Through these architectures, SATCOM-as-a-Service networks can be easily managed and deployed with custom configurations. Advanced antenna systems that support multi-band, multi-orbit, and multi-beam are also critical components of the digital transformation and are briefly explored. Through a digitally transformed ground network, SATCOM systems can leverage new operational use cases that improve network and terminal agility and resilience. In summary, we describe the key demands, technological... [LEARN MORE](#)

## EVENTS

### Rocky Mountain Cyberspace Symposium

February 21-24, 2022

### Insider Threat Day at JHU/APL

February 23, 2022

### The 4th International Conference on Artificial Intelligence in Information and Communication

February 21-24, 2022

### IT Modernization Summit

March 2, 2022

### 1st International Conference on AI in Cybersecurity (ICAIC)

March 15-17, 2022

### AeroTech

March 15-17, 2022

### IT and Cyber Day at MacDill AFB

April 26, 2022

### Want your event listed here?

Email [contact@dsiac.org](mailto:contact@dsiac.org), to share your event.



Cybersecurity



Knowledge Management & Information Sharing



Modeling & Simulation



Software Data & Analysis

## RECENT NEWS



### Assessing Security and Privacy Controls in Information Systems and Organizations

Cybersecurity



DVIDS

### Rethinking "Man, Train, and Equip" for Information Advantage

Knowledge Management & Information Sharing



NCCoE

### Securing Distributed Energy Resources

Cybersecurity



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### DoD Software Modernization Strategy Approved

Cybersecurity; Software Data & Analysis



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### Guide to Bluetooth Security – SP 800-121 Rev. 2

Cybersecurity



NIST

### Realignment of Responsibility for Cybersecurity Maturity Model Certification (CMMC) Program

Cybersecurity



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