

Advanced Security Research in the Era of the Internet of Things

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ABSTRACT

As the evolution of technology accelerates toward the “Everything Connected” model, the demands placed on cyber security will be the principle concern of users when considering adoption.

In this new era the logical point of protection will be the communications infrastructure that forms the connected web. As such, Cisco Systems is funding research and driving innovation in network based cyber security. The initial thrust of this effort is focused on cryptography, data analytics and privacy, platform protection and threat awareness.

This discussion will focus on what Cisco is presently doing in Advanced Security Research. The current global engagements, future needs and likely methodologies.

CCS Concepts/ACM Classifiers

Information Systems, Security and Privacy, Networks, Hardware, Software and its engineering, Human Centered Computing

Author Keywords

Security Research; Internet of Things; Cryptography; Analytics; Threat; Platform Protection; Network protection and defense.

BIOGRAPHY

Greg Akers is the Senior Vice President & CTO of Advanced Security Research & Government and Chief Technology Officer within the Security & Trust Organization (STO) group at Cisco. With more than two decades of executive experience, Akers brings a wide range of technical and security knowledge to his current role. A major focus of his group is to expand security awareness and launch product resiliency initiatives throughout Cisco’s development organization to deliver high-quality and secure products to customers. He also serves as executive sponsor of the Cisco Disability Awareness Network.



Akers joined Cisco in 1993. He has held a variety of technical, managerial and executive roles at Cisco. These have included networking engineer, Vice President for the Worldwide Technical Assistance Center, Senior Vice President-CTO Services and Senior Vice President-Global Governments Solutions Group. He also holds the CCIE certification.

In addition, Akers is an Internet security and critical infrastructure protection advisor to Cisco customers and to the U.S. government. He regularly advises and directs activities relative to technology and security matters of domestic and international importance. Akers has also advised the U.S. Department of Defense and the U.S. intelligence community for more than fifteen years.

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ASIA CCS '17, April 02-06, 2017, Abu Dhabi, United Arab Emirates

ACM 978-1-4503-4944-4/17/04.

<http://dx.doi.org/10.1145/3052973.3053887>