

SIEMENS

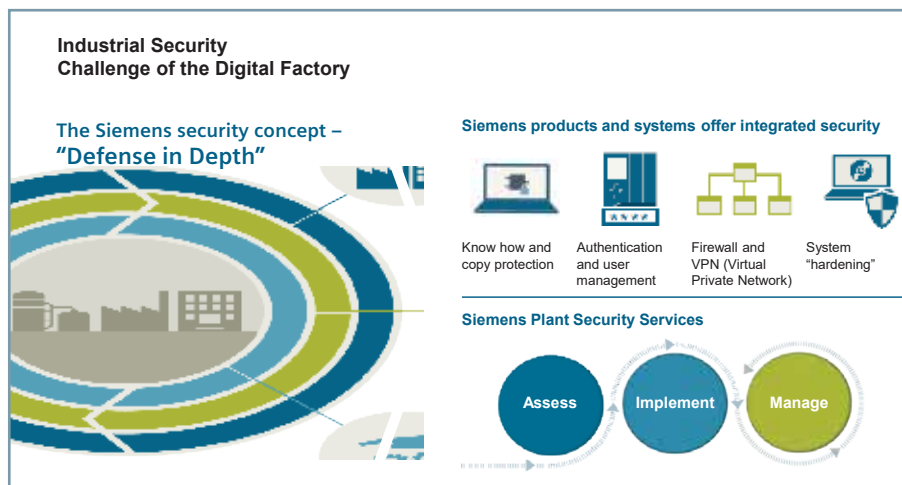
Ingenuity for life

Siemens Cybersecurity in Automation

Digitalization changes everything

Industrial Digitalization changes everything including Industrial Automation. Cybersecurity threatens the mandate to go Digital. Integrated security solutions are critical to the Industrial Automation path forward.

Siemens has the answer with "Defense in Depth" concept!



Location: Commonwealth Center for Advanced Manufacturing (CCAM)
5520 West Quaker Road
Disputanta, VA 23842 USA
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Date: Feb. 14, 2019

Time: 9:00 AM - 1:30 PM

Registration: Contact Mike Caccia
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"The next trillion dollars will be earned with data – for our customers and for our industries."

Michael Dell, founder of Dell Inc.

"Digital is the main reason just over half of the companies on the Fortune 500 have disappeared since the year 2000."

Pierre Nanterme, CEO Accenture

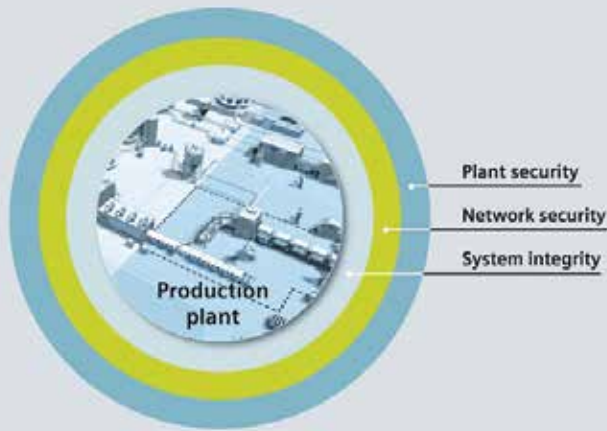


Image from National geographic

- **Learn Defense in Depth**
 - Know-how and copy protection
 - Authentication and user management
 - Firewall and VPN
 - System Hardening
- **Learn about plant network protection**
 - RUGGEDCOM Cyber Security solutions
 - Siemens multi-service platform
 - Secure remote access
 - Intrusion detection
 - Cell protection
- **Learn about PLC Security**
 - Connectivity Management
 - Network Separation
 - Intellectual Property Protection
 - Unauthorized Modifications
 - Manipulation Detection
 - Access Lockout
 - Logic Program and Data Integrity
 - Intrusion Detection
 - Access Path Control
 - Protection of Legacy Equipment
 - Secure Peer to Peer Communications
 - Secure PLC Web Page and OPC UA Server
- **HMI Security**



- TIA Ethernet based devices
- E.g. S7-1500, 1505S, S7-300, CP343-1 SCALANCE S, ...

- Protection against DoS attacks
- Defined behavior in case of attack
- Improved Availability



- Development process

- Certification of "Secure Product Development Lifecycle" for Division DF and PD based on IEC 62443-4-1



- S7-1500 Controllers
- EXM408-8C

- First security level certification (CSPN – Certification de Sécurité de Premier Niveau)

Bios

Jeff Foley

Jeff Foley is a business developer for Siemens specializing in industrial cybersecurity solutions. joined Siemens in 1998 after 10 years in private computer and networking consultation. Then spent the next 13 years in designing, architecting and deploying carrier grade, Informational Technology networks for major telecoms in North America focusing on networking, applications, and CyberSecurity. The past 6 years have been spent specializing in Industrial Control Networks bringing Informational Technology security and best practices, into the Operational Technology environment for Utilities, Oil & Gas, Transportation and Rail, amongst other industrial networks.

Wayne Cantrell

Wayne Cantrell is a senior principal systems engineer in the factory automation business of Siemens industry, Inc. He has 35 years of experience in the manufacturing, design, application, and system engineering of automation systems and components. Most recently, he has been focusing on the development of secure automation architectures for military, critical infrastructure, and other automation projects requiring cyber protection.

Ford Cheeseman

Ford Cheeseman is an Automation Networking Consultant covering the Southeast United States. Ford specializes in the support of Siemens industrial networking portfolio, which includes secure remote connectivity, cybersecurity, industrial ethernet switches, routers, software, Siemens certification courses, and wireless applications. Please contact Ford with any inquiries you have regarding these topics and your plant network at 470-595-4061 or ford.cheeseman@siemens.com

Agenda

9:00 AM – 9:50 AM	Cybersecurity with RUGGEDCOM – Jeff Foley
9:50 AM – 10:00 AM	Q & A
10:00 AM – 10:50 AM	Defense in Depth – Ford Cheeseman
10:50 AM – 11:00 AM	Q & A
11:00 AM – 11:50 AM	PLC and HMI Cybersecurity Features – Wayne Cantrell
11:50 AM – 12:00 PM	Q & A
12:00 PM – 1:00 PM	Lunch Provided
1:00 PM – 1:30 PM	CCAM Tours

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