

Security

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80minutes

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Panel on Cyber Security and Threat Management for the Smart Grid

This panel will explore issues related to cyber security, threat management, and system stability in emerging Smart Grid deployments. The deployment of Smart Grid networks which offer reliable, secure operations must handle competing standards, non-interoperable technologies, and complex security paradigms. The panelists will present viewpoints on threat detection, end-to-end data security, and provisioning of situational awareness which have a potentially critical impact on grid security and stability.

The panelists represent major aspects of Smart Grid implementation including practitioners, system integrators, and subsystem/technology vendors. Each of these perspectives has an important bearing on the effective implementation of cyber security in the Smart Grid space.

Sample Key Questions/Issues to be explored:

- Is situational awareness a critical factor in detection of cyber threats to the Smart Grid?
- What Smart Grid technologies are important in the establishment of situational awareness?
- What types of unique threats are envisioned for Smart Grid deployments?
- What approaches to threat management and detection are applicable in the Smart Grid?
- How should service providers prepare for cyber-security threats in Smart Grid subsystems?
- What are the requirements of end-to-end, integrated management for the provision of secure Smart Grid systems?
- Do conventional network security paradigms fall short in the unique case of Smart Grid systems?

- How do Smart Grid technologies affect or impact power quality?

Presentations:

Standards & interoperability in the Smart Grid

George Arnold, Director, Smart Grid and Cyberphysical Systems Program Office & National Coordinator for Smart Grid Interoperability, NIST (US Dept. Commerce)

Situational awareness, stability, and cyber-security in the Smart Grid

William Lawrence, Chief Technologist ? Energy & Cyber Security Organization, Lockheed Martin

Four layers of Smart Grid security

Ernest Hayden, Managing Principal ? Energy Security, Verizon Business

Penetration testing for embedded systems in the Smart Grid

Nakul Jeirath, Group Leader ? Embedded Systems Security, Southwest Research Institute

Authors:

Arnold, George

Lawrence, William

Hayden, Ernest

Jeirath, Nakul

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