

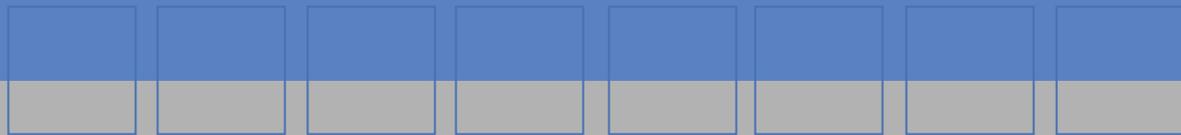


# Process Control Systems Forum 2005 Fall Meeting

Research Interest Group Meeting

October 2005

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# Agenda



- **Introduction**
- **Review of mission, goals, and charter**
- **Steps to become working group**
- **Synopsis presentations**

# Process Control Systems Forum



## ■ Mission

- Create a cross-industry, cross-functional forum that provides the opportunity for technical exchange with a focus on common needs, consensus architectures, and practices to accelerate the implementation of more secure control systems.

# Process Control Systems Forum



## ■ Goals

- Create an open, collaborative, voluntary forum that leverages the experience and capabilities of stakeholders in the development and adoption of common architectures, protocols, and practices for next generation control systems.
- Develop a partnering strategy intended to leverage knowledge currently dispersed among sectors.
- Stimulate cross-functional discussions between Information Technology (IT) and Operations to strengthen communication and resolve issues inherent within their respective disciplines.
- Define, recommend, and promulgate, protocols and architectures across industry sectors.
- Promote interoperability of common core architecture enabling significant improvements in the field through competitive market forces.
- Utilize innovations developed by the forum to guide requirement gathering, testing, retro-fit, development, and deployment strategies.
- Provide vendors access to multiple industry sectors.
- Facilitate industry access to multiple vendors.

# Process Control Systems Research IG



- **Interest group to address basic and applied research across the full spectrum of control systems security, including reliability, safety, vulnerability and inter-dependency assessments, intrusion detection, fail-safe and recovery mechanisms, and digital forensics.**
- **<https://www.pcsforum.org/groups/65/>**

# Process Control Systems Research IG Goals



- **Create an open, collaborative, voluntary and international forum that leverages the experience and capabilities of stakeholders in the development of next generation control systems and in the resilience of existing systems.**
- **Develop an inter-disciplinary forum to share research ideas, directions, and results.**
  - With links to relevant sites

# Process Control Systems Research IG Goals



- **Stimulate cross-functional discussions between government, industry, and academia.**
  - Vendors
  - Operators
  - Research institutions
  - Educations institutions
  
- **Transfer technology innovations shared within or developed by the forum.**

# Next Steps



- **Immediate goal: expanding website and links to relevant sites**
- **Intermediate goals: establishment as working group, increased collaboration, increased activity on website**
- **Eventual goal: annual workshop**

# Possible Linkage



- **THE SCADA SECURITY SUMMIT to be held by the SANS Institute (tentatively 2-3 March 2006 in Orlando)**
- **The primary focus of the Summit is a set of facilitated work group sessions designed to develop security requirements, guidelines, procurement specifications, and maintenance requirements for control systems asset owners to use when evaluating and purchasing new control system technology and when negotiating continuation of maintenance contracts for existing control systems.**

# Possible Linkage (continued)



- **The Summit has two specific purposes:**
  - to enable the operators of the critical infrastructure to jointly determine which technologies, products, processes, and controls can be implemented in the short and intermediate term to reduce the exposure of SCADA systems to attack through electronic means, and
  - (to develop procurement language that the operators can use to ensure the SCADA systems they are buying or maintaining have the best available security.

# Possible Linkage (continued)



- **The four communities they wish to bring together:**
  - Suppliers of SCADA systems who believe they have made significant advances in securing their systems.
  - Suppliers of communications and security devices and software who believe they have developed products that can significantly reduce the threat of electronic attack against current SCADA systems.
  - Researchers who believe they have discovered technologies or processes that can significantly reduce the threat of electronic attack against current SCADA systems.
  - Standards organizations who have developed standards that, when implemented, can be shown to significantly reduce the threat of electronic attack against current SCADA systems

# Process Control Systems Research IG



- <https://www.pcsforum.org/groups/65/>
  - [annmiller@ieee.org](mailto:annmiller@ieee.org)