



Process Control Systems Forum (PCSF)

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Collaborating to Advance Control System Security

Background

- **Department of Homeland Security (DHS), Science and Technology (S&T) directorate / National Cyber Security Division (NCSD)**
 - Identified need in 2004
- **Mitretek Systems Chosen to Manage and Operate**
 - Nonprofit 501(c)(3) corporation focused on engineering and scientific research that operates in the public interest
 - Avoids business relationships that might create a potential conflict of interest or otherwise influence its objectivity and independence
- **Formational Meeting - February 9, 2005, Falls Church, Virginia**
 - Included over 40 leaders from control system community
 - Confirmed need for the PCSF and potential value to the control system community
 - Established initial Interest Groups and Interim Governing Board

Mission

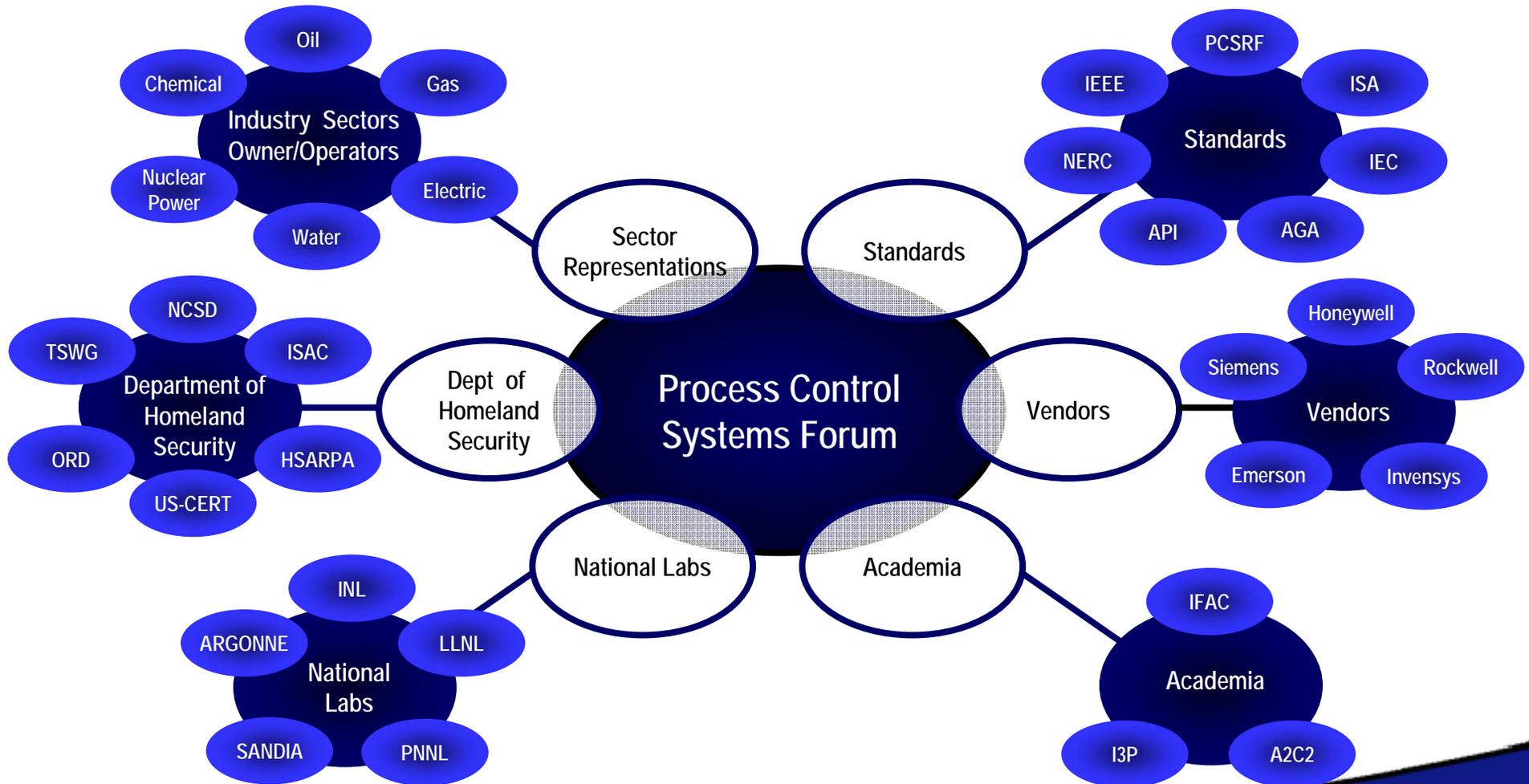
- ◆ **Accelerate response to the problem of securing SCADA and control systems in place among critical infrastructure**
- ◆ **Improve efficiency by unifying International stakeholders across government, academia, vendors, and industry sectors**
- ◆ **Collaborative venue structure supported by general meetings, workshops, liaison opportunities, and Web site**
- ◆ **Governed by select representatives from public/private stakeholders**

Objectives

- ◆ **Identify consensus cross-industry and cross-functional issues** that require resolution, and determine a path and effort that is owned, traceable, and produces generally acceptable solutions.
- ◆ **Aggregate information about current organizations**, their efforts, directions, and work product from across multiple sectors to increase visibility and reduce redundancy.
- ◆ **Cross-connect decision-makers from industry, government, vendors, and academia**, in ways that promote increased understanding of requirements and opportunities for collaboration.
- ◆ **Impact a broad portion of the control system community through procedures, methods, guidelines, best practices, and other resources**, issued through organizations that participate in the PCSF.

Process Control Systems Forum

A Model for Cross-Sector Collaboration



Governance

Interim Governing Board

- Provides guidance on issues of strategy, management, process, and conflict resolution
- Interim Governing Board (IGB) will begin the transition to an elected board with a “Call for Nominations” during the PCSF 2006 Spring Meeting.
- IGB Members:
 - Bill Rush - Vice Chair
 - Robert Clerman - Forum Director, Acting Chair
 - *Tom Flowers (Electric Industry)*
 - Mark Heard (Chemical Industry)
 - Seth Johnson (Water and Waste Management)
 - *Hank Kenchington (National Labs)*
 - *R. Russell Rhinehart (Academia)*
 - Bryan Singer (Vendor Community)
 - Keith Stouffer (Government)
 - *David Poczynek (Oil & Gas Industry)*

Action Elements

◆ PCSF is a venue supporting:

- Information dissemination on relevant programs, activities, initiatives and results
- “Pipeline” topics that are recently introduced to the community
- Continuity for idea and solution building
- Establishment of interest and working groups to address common, cross-sector issues and produce work products as an end-result
- Working environment to complete deliverables and action plans established after working group formation

Interest Groups (IG) and Working Groups (WG)

◆ Interest Groups (IG)

- Formed out of cross-sector consensus views on common issues
- Aggregate participants facing similar challenges
- Tools, administration, structure and venue is provided to form an Interest Group
- Progress towards a Working Group with the development of an action plan, deliverables, milestones, roles

◆ Working Groups (WG)

- Open, continuous, voluntary, collaboration among participants
- Address specific problems
- Produce one or more deliverables
- Bring results back to the community or hand-off to an organization that can make use of the information towards their own end-goal
- Possibility of Funding

Get Involved in an IG or WG

◆ In La Jolla:

- Look over the program; Wednesday dedicated to workshops
- Bring your knowledge to an existing IG/WG
- Seek others with similar issues and organize an ad-hoc meeting (IG)
- Work with Presenters to migrate “pipeline” topics into IGs

◆ After La Jolla:

- Create an IG anytime on the Web site
- Can be a few people or an organized group
- Can come from a PCSF meeting or from other events
- Join an IG/WG anytime via their content area
- Invite key people from an IG/WG to speak, or meet at an event sponsored by your affiliation.

PCSF WG and IG

****Congress of Chairs**

Chair – Dr. William Rush

****Control System Security Event Monitoring**

Chair – Mr. Dale Peterson

****SCADA Cyber Self- Assessment**

Chair – Mr. Brian Isle

Education and Training

Chair – Dr. John Saunders

Safe Zone for Critical Information Sharing

Chair – Ms. Rita Wells

System Analysis and Modeling

Chair – Mr. Dennis Holstein

Control Systems Research

Chair – Dr. Ann Miller

Control System Technical Security Metrics

Chair – Mr. Miles McQueen

Business Case Development

Chair – Mr. Ernest Rakaczky

**US-CERT Control System Security Center
Industry Group**

Chair – Mr. Jeff Hahn

**** - Working Group**

Web Site

- The PCSF Web site (www.pcsforum.org) provides the means for information retrieval, structure, workflow, and collaboration on a continuous basis



- News and Press Releases
- Account Management
- Interest and Working Group Content and Collaboration
- Reference Library
- Calendar of Events
- Presentations
- Governance Board Information

PCSF Support Tools

◆ Meetings

- Bi-annual Forum Meetings
- Face to Face Meetings
- Desktop Sharing Meetings (LiveMeeting)
- Teleconferences

◆ Web site

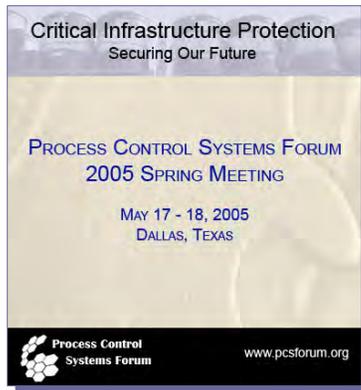
◆ Funding

◆ Marketing

◆ Liaison

◆ Representation

Past Meetings



◆ 2005 Spring Meeting

- May 17-18, 2005 in Dallas, Texas
- Over 140 attendees representing owner/operators, government, academia, and vendors

◆ International Standards Coordination Meeting

- August 25-26, 2005 in Albuquerque, New Mexico
- PCSF Congress of Chairs (CoC) Working Group Meeting
- Improve quality of control system security standards through information exchange
- 80+ representatives from international control systems standards bodies attended

◆ 2005 Fall Meeting

- October 25-27, 2005, Chicago, Illinois
- Held in conjunction with the 2005 ISA EXPO

PCSF 2006 Spring Meeting Objectives

● **Include All Sector Representatives**

- Ensure action plans and solutions receive a complete review to obtain universal agreement on outcome
- Continue to invite representatives from all sectors to participate in governance and structure of the Forum
- Increase information sharing, cross-pollinate organizations, and collaborate on quality output

● **Accelerate productivity and efficiency of our IG and WG**

- Draw interest in Group objectives from new participants
- Draw upon experience and knowledge
- Identify potential “users” of the work product

● **Transition Interest Groups to Working Groups**

- Use open dialogue to form consensus on issues and identify achievable action items that can form the basis for a transition to Working Group status

PCSF 2006 Spring Meeting Objectives (concluded)

◆ Working Group Charters

- Strategize appropriate methods for completion of deliverables
- Accelerate current Working Group activities to achieve measurable results

◆ Increase International Communication

- Establish relationships with prominent international organizations
- Highlight accomplishments of international organizations and provide opportunities to grow each others programs
- Uncover opportunities to host a PCSF Meeting outside the U.S.

◆ Establish PCSF Value

- Highlight PCSF accomplishments and valuable accomplishments from other organizations activities
- Identify high priority, consensus issues to discuss/work further
- Evolve Interest and Working Groups that meet the current challenges faced by the control system community
- Increase the size and variety of our participant base

Final Words

- ◆ **Make sure you get something out of this**
- ◆ **Stay involved**
- ◆ **Connect others to the PCSF**

Questions?

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