

SG Security Webinar

Monday, February 7th – 2-3 pm EST

Chair: Darren Highfill - darren@utilisec.org
Vice-Chair: Bobby Brown - bobby@enernex.com
Secretary: Nick Gerbino - nick.j.gerbino@dom.com

Agenda

1. Review Agenda / Call for Items of Business – **No new items or updates to Agenda**
2. **NEXT MEETING – February 21, 2011; 2 PM – 3 PM EST**
3. Old Business
 - a. Subgroup updates
 - i. ASAP-SG
 1. Finalizing set of use case for Wide Area Protection and Control
 - a. To be shared with stakeholders later this week
 - b. Draft of SP out by end of March 2011
 - c. Reviewing draft of IEC 61850-90-5 – covers synchrophasors and time-stamped waved form data inside the substation
 2. Still looking for participants – contact Bobby Brown
 - ii. CyberSec-Interop Task Force – D Teunim – dave4321@enter.net
 1. IPSEC Profile review in progress
 - iii. Usability Analysis Task Force – J Lily
 1. Reviewing comments for DMS SP
 2. Discussion on more complicated comments today (2/7)
 3. Reaching out to ASAP-SG regarding changes to diagrams
 4. Next meeting on 2/28 at 1PM EST

Question: Status of 3pda SP? Response: Completed and forwarded to Darren

Group may need to take on IEC 62351. Question – not publicly available, how to address?

- iv. Embedded Systems Security Task Force
 1. Expanded group membership to include secure micro-controller manufacturers who have assisted in getting discussions around hardware based approaches to embedded systems security on topics including random number generation, cryptographic acceleration and secure storage. The group intends to start working on the hardware section of the device profiles document based on this discussion. Last call, Infineon presented their secure micro-controller architecture to the group
 2. Finalized an outline for a section on device robustness and resilience that will be authored by Bora Akyol from PNNL
 3. Working on getting performance numbers of cryptographic algorithms on generic off the shelf hardware as part of the 'constraint definition'

framework for embedded systems, this is as part of an effort to establish the feasibility of implementing algorithms on such hardware, we have already had some fruitful discussions on characterizing the performance of algorithms on special purpose hardware. Potential for collaboration with a firm named Mocana on this subject.

4. It would be useful to get some non-functional / performance requirements for typical distribution automation / wide area monitoring applications as this will help with the constraint characterization discussion, would benefit from recommendation around how to get this information (some of it is likely in the DM security profile and the pending wide area management security profiles)
- b. Ad-hoc tasks
 - i. SG Network support (C-I-A rankings)
 1. No new traffic on the collaborative x-talk listserv
4. External Engagements, Business, & Issues
 - a. NIST CSWG & PAPs
 - i. No specific updates on PAPs
 - ii. CSWG AMI-Sec Subgroup
 1. working to drive the requirements down to the testable level
 2. refining the template for output
 - b. NERC CIP SDT
 - i. Traffic on upcoming topics but no plug-in yet for SG Security
 - c. IEC TC 57 WG 15
 - i. Postpone discussion to later in the Agenda
 - d. ICSJWG Vendor Subgroup
 - i. Encouraging traffic from M Ahmadi
 1. utilisec technical listserv
5. New Business
 - a. FERC Technical Conference
 - i. Additional comment period through March 2
Follow up with Marianne Swanson about posting her email instructions on commenting – see below
 - ii. Comments/discussion on the conference
 - iii. New task: review of IEC 62351?
 1. The UCA – Utility Communications Architecture – evolved into UCA-2.
 2. UCA-2 evolved into a protocol and then went into IEC 61850
 3. User groups formed around UCA-2 and 61850 to resolve technical issues with this – UCA International Users Group – SG Security’s parent
 4. Access to drafts of 62351 via IEEE
 - a. Contact Frances Cleveland (email)
 - b. Part 8 and Part 9 are in draft
 5. IEC 61850 has Technical Issues Process – “TISSUES”

- a. Process to look at issues with standard and to resolve the issues
6. Example for consideration for IEC 62351
- a. Would be for those with access and issue with the standards
 - b. Conversation centered around how to setup a TISSUES process :
 - c. without publicly disclosing vulnerabilities. Some key points:
 - i. Herb Faulk – comments from nistir on iec 62351 already provided and are being considered. What could OpenSG Security add?
 - ii. Darren Highfill – What is the lifecycle of NISTIR 7628 and NIST CSWG?,
 - iii. Concerns with publicly disclosing vulnerabilities. TISSUES process does not list vulnerabilities
 - iv. CONCLUSION: No agreement on proposed path forward and what the goal of the TISSUE process... Does it disclose vulnerabilities? Move discussion to UTILSEC-TECHNICAL LIST and continue conversation
7. *Comments on the FERC Technical Conference on the 5 Families of Standards Posted by NIST for Consideration by Regulators*

FERC held a technical conference on Monday, January 31, to obtain further information to aid the Commission's determination of whether there is "sufficient consensus" that the five families of standards posted by NIST and included in this proceeding are ready for Commission consideration in a rulemaking proceeding, as directed by section 1305(d) of the Energy Independence and Security Act of 2007. FERC is now seeking comments on the conference and the five standards and information on how to do that appears below.

The link for the FERC Technical Conference on Smart Grid Interoperability Standards (RM11-2-000) is:

<http://ferc.gov/EventCalendar/EventDetails.aspx?ID=5571&CalType=%20&CalendarID=116&Date=01/31/2011&View=Listview>

The prepared comments from the panelists are posted there as is a link to the recorded webcast. Comments need to be submitted by March 2 and reply comments need to be submitted by March 16. Supplemental questions are expected next week and that interested parties may wish to take those questions into account when they comment. The docket number for comments on the smart grid standards is RM11-2-000.

In order to comment on line, you can use the FERC "e-filing" system (NOTE: do **not** use "e-comment"). To upload a document with your comments via the e-filing system, you must first "e-Register". Here is a link that describes the process: <http://ferc.gov/docs-filing/efiling.asp> . You may upload comments in MS Word 97/2003 or "Print to PDF" file formats. NOTE: It will **not** accept a file in Office 2007/2010 format (.docx) yet. Also, note the available help:

eFiling Help Desk
 Email: efiling@ferc.gov

Telephone: 202-502-8258

6. AOB - None

7. Roll Call

- a. adrian mcclenaghan, data track technology
- b. Alan Rivaldo, Public Utility Commission of Texas
- c. Bill Lawrence, Lockheed
- d. Brian Smith, EnerNex
- e. Bruce Bartell, Xtensible Solutions
- f. Daniele Loffreda, Fujitsu Network Communications
- g. Frances Cleveland, Xanthus
- h. Gary Finco, INL
- i. Herb Faulk with SISCO
- j. Herbert Falk, SISCO
- k. Howard Lipson, CERT, Software Engineering Institute
- l. Isaac Ghansah, Cal State University Sacramento
- m. Jeffrey Sweet, AEP
- n. John Lilley, San Diego Gas & Electric, a Sempra Energy utility
- o. Lindani Phiri, Elster
- p. Louis Robinson, Constellation Energy
- q. Marius Smith, Eskom
- r. Mark Ellison, DTE Energy
- s. mark freund, pacific gas & electric company
- t. Mike Ahmadi, GraniteKey LLC
- u. Nakul Jeirath, Southwest Research Institute
- v. Neil Greenfield, AEP
- w. nick gerbino, Dominion
- x. Sandy Bacik, EnerNex
- y. Scott Palmquist, ITRON
- z. Stephen Chasko, Landis+Gyr
- aa. TJ LaPorte, Landis+Gyr
- bb. vincent bemmel, trilliant
- cc. Ward Pyles, Southern Company
- dd. William Lawrence, Lockheed Martin