Smart Grid Interoperability Panel – Cyber Security Working Group
Meeting Minutes (3 May 2010)

NIST LEAD: Annabelle Lee

If you want to be on an email list, contact Annabelle and Tanya

NIST Contacts:
Annabelle Lee, annabelle.lee@nist.gov
Tanya Brewer, tbrewer@nist.gov
Victoria Yan, yan_victoria@bah.com

SGIP-CSWG Administration
Vice Chairs:
- Dave Dalva, ddalva@cisco.com
- Alan Greenberg, Alan.M.Greenberg@boeing.com
Secretary: Mark Enstrom, mark.enstrom@neustar.biz

SGIP-CSWG SubGroups Information:
Listed below are the SGIP-CSWG leads for each group. More detailed information about each group is available at http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/WorkingGroupInfo. If you would like to join any of these subgroups, please let Annabelle and Tanya know and you will be added to the group(s).

Standing Subgroups

Architecture Group
CSWG Leads: Justin Searle and Sandy Bacik

Bottom Up Group
CSWG Leads: Andrew Wright and Daniel Thanos

High Level Requirements Group
CSWG Leads: Dave Dalva

Privacy Group
CSWG Leads: Gal Schpantzer and Rebecca Herold

R & D Group
CSWG Leads: Jessica Ascough, Isaac Ghansah, and Daniel Thanos

Standards Group
CSWG Leads: Ramesh Reddi and Virginia Lee

Vulnerabilities Group
CSWG Leads: Matt Carpenter and Matt Thomson

Crypto and Key Management Group
CSWG Lead: Daniel Thanos, Doug Biggs, and Tony Metke
Reminder

Please mute your phone when not speaking. Thank you.

NISTIR 1.0 Draft

Remember, comments on the NISTIR 1.0 draft are due by 2 June 2010. We plan to have a good working draft by the face to face meeting, and will incorporate comments during the meeting. We plan to spend the next three weeks finalizing the document, after which it will go through the formal NIST review. The document will be released in the first part of July.

Please think about how we might present the document. There is a lot to the document; therefore it might need to be split into volumes, or provided with a user guide. If you have suggestions on this, please forward those to Annabelle.

Positive Feedback

Kudos to the CSWG team: the group recently received some great comments on the document, including the high level requirements and the security architecture. We have set an extremely high bar for ourselves, and groups like EEI appreciate that, and expect the great work to continue.

The Face to Face

Roughly 50 people have registered for the F2F. Please be sure to sign up if you want to go, as it is free. Dress is casual; with a few exceptions, anyone wearing a tie will get their ties snipped.

However, bring your laptop, as we will be working. We will start at 8:30 a.m. each day. The first day will end at 5:00 p.m, and the second will end at 1:00 p.m. An agenda is forthcoming. Annabelle is still working on scheduling the threat briefing with Sandia National Labs. More information to come.

To register, use the registration link found on the Twiki at the following URL.

http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/CSWGFaceToFace2through3June

The meeting will be held at the Cisco location in Herndon, VA, very near the Washington Dulles airport. Please note that hotels, etc, can be found on the left tab under the “venue” link. Please get your hotel reservations soon.
Standards Access

We now have access to all the ANSI standards, but do not yet have access to the IEEE standards. We may have to purchase the IEEE standards. If you have access to the IEEE standards on your own, please do not work on them on your own. Annabelle would like to keep this process simple, and under the umbrella of NIST. Keeping track of who has access to what standards will complicate the process.

For ANSI, The initial access list was sent, and has been updated once. The final list will be sent on Wednesday morning (5 May 2010). If you want to participate in the standards group and need to have access to the standards, you must let Annabelle know. Your name must be on the list provided by Annabelle to ANSI.

Remember, access is not for personal use or use of companies outside of the SGIP-CSWG work. Do not contact ANSI on your own, and do not use the standards access for work other than for the CSWG. Doing so could jeopardize our access and our work here.

Work in the Standards sub-group

Many have indicated interest in the Standards sub-group; however, very few people were on the Standards sub-group call on Friday. Virginia will be making section assignments on a call to be held Monday afternoon, 3 May 2010. If you are assigned a standard, but do not work on it, your name will be removed from the standards access list.

Note that if one standard is reference by another standard, the dependency should be captured in the list. Tanya and Virginia will develop a template to do so.

The expected outcome of this work is a list of standards that shows which standards meet cyber security requirements, the gaps in the requirements in existing standards, and standards that don’t include cyber security but should. Note that this may mean we will need to revise the NISTIR.

We want at least two people to look at every standard; preferably one from the IT sector and one from the electric sector.

People from the crypto sub-group have also started to look at standards. Specifically, they are looking at standards that have cryptography.

In general, this is getting critical. There are a lot of people that are paying close attention to the PAPs and what we’re doing. Also, this is just the first set of standards for review. Many more will come after this initial effort.

Finally, accessing the ANSI website is not exactly user friendly. Virginia sent out an email explaining how to access the site. Please follow her instructions before calling ANSI.
Upcoming Meetings

C12 subcommittee Working Group Meetings.

This will take place in Vancouver, BC. The meetings will cover C12.18, C12.19, C12.21, and C12.22. There will be telecom access. If you want to be on the telecom, please send Annabelle an email. The meeting notice and agenda for the meeting is included at the end of this document.

We do know that there are issues with these specs, especially with cryptography. If anyone has a chance to look at the specs, please let Annabelle know.

The C12 group has agreed to specific language regarding crypto. See the CSWG Twiki for more information.

Expert Summit

There will be an expert summit the following week, 17 – 19 May 2010, in St. Louis that will get a lot of people from many standards groups together in one place. This will include the C12 groups, Zigbee 2.0, and many more. The CSWG has been asked to be involved for feedback. Annabelle will be giving a 2 hour presentation on the NISTIR, and will provide guidance to find the requirements in the NISTIR.

The agenda and meeting logistics can be found here.

http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP05Workshop

Connectivity Week

There will be a CSWG workshop during Connectivity Week, 24 – 27 May 2010, in Santa Clara. If you want to talk to Annabelle directly, please let her know, and schedule some time while out there. Annabelle, Tanya, and Vicky will be arriving on Sunday night.

Memorial Day Telecon

There will be a regular teleconference on Memorial Day, Monday, 31 May 2010.

Face to Face Meeting

And to close out a busy meeting schedule, the face to face will be the week after Memorial Day, on June 2 and 3, 2010.

Crypto sub-group
Vicky and Dave and Daniel put together a table of the approved algorithms, key sizes, comparable key sizes, etc; the first draft will be posted in the next couple of days. This is a summary, and definitely not for the novice. Key generation, key wrapping, and key derivation will be added later.

**Architecture sub-group**

The Architecture sub-group has a great overview diagram. Please note that while this is a great architecture, it’s not a traditional security architecture. There are no specifics on implementations or products. The group has done a great job putting together an architecture without being product or implementation specific. If you have ideas on how to make it more user friendly, please let them know.

**SGTCC Liaison**

Cisco’s Tony Youssef is on the Test and Certification committee, and will be keeping an eye out for cyber security as well as producing content.

**SGIP SG Terminology Group**

Look for an update on this SGIP-wide group at Connectivity Week.

**Bottom Up sub-group**

The group went through the process and discussion of private versus public internet and infrastructure. The group has a roadmap to move forward, but is holding off on further debate until the current ideas are drafted and circulated. The group is mindful that industry already has accepted norms for this. Note that the group is not trying to endorse a specific type of network; the group is enumerating issues of each for security and reliability.

Other topics of vulnerabilities and supply chain issues are on the back burner until the current topic is finished.

John will lead call this week.

**High Level Requirements sub-group**

The group leaders are coordinating with various volunteers in one-on-ones, and asking them to take one or more interfaces and mapping requirements. Work is proceeding.

**Privacy sub-group**

Each topic team is completing their draft sections this week. These will be incorporated into one full chapter document by Friday.
Recent work has included the addition of privacy use cases and the expansion of privacy terms, concepts, etc. The definition of fair information practices are updated with NIST Special Publication 800-122. This includes a lot of discussion on fair information practices, and is more comprehensive.

Annabelle and Rebecca need to look at the privacy recommendations for inclusion in the requirements section.

**R&D sub-group**

No update.

**Vulnerabilities sub-group**

The group is continuing with mapping project. Matt is leaving the workload somewhat light because the group membership is also dispersed in many other groups.

**Finally**

Kudos to everyone for all the work and the great job!

**Next call for the SGIP-CSWG:** Monday, **May 10, 2010**, 11am EST.

**Call-in number:** 866-745-6097  **Participant passcode is:** 7413006

Please remember to mute your phones when not speaking.
Vancouver MEETING NOTICE

April 26, 2010


Dear Members:

You are invited to the next meetings of the IEEE SCC31 and End Device/TIU Subcommittee 1702 WG and 1703 WG, the ANSI C12 SC17 and WG2, WG3 and WG4, the Measurement Canada Task Force on Communications and NAEDRA.

The meetings are scheduled for 4 days, 8 am – 5 pm each day, Monday, May 10, 2010 through Thursday, May 13, 2010. This is a change (a reduction from 5 days to 4 days) from the April 7, 2010 Announcement. A preliminary detailed meeting schedule follows. In addition, we are inviting Smart Grid Interoperability Panel (SGIP) security experts to attend/participate, on Tuesday May 11, 2010 at a minimum, and provide input on security issues that have been discussed in the NIST/SGIP arena. The exact schedule of meetings may be adjusted slightly on site (but never earlier than scheduled) as work progresses.

Place of Meeting:

The Coast Plaza Hotel and Suites
1763 Comox Street
Vancouver, B.C.
telephone: 604-688-7711
fax: 604-685-7210

The room rate is $CAN 149/night under the umbrella of ANSI/IEEE/MC MEETING MAY 2010
DATES: May 9 to 14, 2010.

The room reservations must be made by Friday April 30, 2010.

Detailed Meeting Schedule:

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<th>Meeting (high level subject)</th>
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<td>ANSI C12/SC17/WG3 (C12.23 compliance standard work)</td>
<td>Mon., May 10, 2010, 8 am – 5 pm</td>
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<td>Tue., May 11, 2010, 8 am – 10 am</td>
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<td>MEASUREMENT CANADA (regular business and NAEDRA guidance)</td>
<td>Tue., May 11, 2010, 10 am – 11 am</td>
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<td>ANSI C12/SC17 (regular business, NAEDRA guidance and NIST/SGiP identified security issue/gap discussion)</td>
<td>Tue., May 11, 2010, 11 am - Noon</td>
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<td>ANSI C12/SC17/WG4 (C12.18/C12.21, security issues)</td>
<td>Tue., May 11, 2010, 1 pm – 3 pm</td>
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<td>ANSI C12/SC17/WG2 (C12.19, additional work from PAP groups)</td>
<td>Tue., May 11, 2010, 3 pm – 4 pm</td>
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<td>IEEE SCC31(regular business and NAEDRA guidance)</td>
<td>Wed., May 12, 2010, 10 am – 11 am</td>
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<td>NAEDRA (regular business)</td>
<td>Wed., May 12, 2010, 1 pm – 5 pm</td>
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<tr>
<td>IEEE SCC31 End Device/TIU SC – 1703 WG (IEEE version of C12.22 ballot results and ballot comments resolution)</td>
<td>Thu., May 13, 2010, 8 am – 5 pm</td>
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Please contact me if you have questions.

Sincerely,

Paul Orr

NEMA
ACTION REQUIRED
FAX (703) 841-3318 or e-mail sta.butts@nema.org

(If responding by e-mail a simple "I will attend" will suffice.)

Mr. Stanford Butts
National Electrical Manufacturers Association
1300 North 17th Street, Suite 1752
Rosslyn, VA 22209
TEL: 703-841-3218 – FAX: 703-841-3318

Dear Stan,

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I will not be attending the meetings ■

Suggested agenda items:

If you cannot attend this meeting, and you wish to designate a substitute, please designate below.

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