

# July 29, 2011 NIST Smart Grid Privacy Subgroup Meeting Notes

Minutes by Rebecca Herold

Please send this distribution list any necessary corrections or additions.

Next full group teleconference meeting:

**Friday August 12, 2011 at 11:00am est**

Here are my summary notes from the meeting:

## 1. Past meeting notes

- See <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/CSCTGPrivacy>

## 2. Team Updates

- Third Party Team: Brent Struthers (team lead)
  - Brent: Been on hold for the past month or two. Initially were building standards for how to get access to data. At same time as NAESB. They finished. NAESB did not address what 3rd parties did with data they did not get from utilities. What happens when 3rd party gets data from another entity. How do 3rd parties get permission to get access to data.
  - Tanya: NAESB work does not discuss the distribution company should do with data before handing off to 3rd party, and after sending to the 3rd party. Only the actual event of hand off. Could be a lot of guidance provided for how to prepare for the handoff, and then what to do after the hand off.
  - Brent: Made decision that since it was not smart meter data it was not smart grid. NAESB did not address. Addressing 3rd party data access to smart data only.
  - Rebecca: Described how similar to HIPAA. Etc...describe
  - Brent: Asking consumer for permission.
  - Lee Tien: A gap is that there is no coverage or jurisdiction for what 3rd parties should do.
  - Tanya: Slight problem with some of that. If data does not come from a smart meter, then it is not smart grid. Grey area to talk about smart appliance data.
  - Lee Tien: There is a problem with that. There are still privacy issues beyond just the smart meters. E.g., HANs, etc.
  - Tanya: Two different networks that data is traveling over. An entirely different mechanism. Very different technologies involved. Some different privacy
  - Rebecca: Idea about focusing on smart meter data sharing, but include a statement that these best practices can be used beyond to smart appliances, etc.
  - Lee: Yes, acknowledging this would be helpful.
  - Krystina: In our scope, is it similar to how Cali is moving? Is it just about the meter data? Then other 3rd parties would not be included within the scope?
  - Brent: It's more about where the data is coming from; the meter itself.
  - Krystina: An additional technology put on top of the meter.
  - Brent: Right; it's not coming off the smart grid. One objective is to identify gaps. Can also identify ways gaps, outside the scope can be filled.
  - Daphne and Christina Hertz joined the call.
  - Krystina: It would be useful because all those other gray areas are outside the scope
  - Daphne: When the scope goes to prior to the exchange, what is meant?
  - Rebecca: My thoughts...

- Lee: Not the case that every third party is going to need the same granularity. Some third parties may need very little (e.g., they are receiving aggregate data), other will need more (e.g., possess all the client info and meter data).
- Brent: Didn't we create a matrix about those groups?
- Rebecca: Yes
- Daphne: Stand-alone requirements? Eg.
- Rebecca:
- Daphne: Why not use NAESB?
- Tanya: That is what we've talked about.
- Chris K: NAESB is a framework. It is creating
- Rebecca: Draft a scope statement for the team and bring back group.
- Brent: Okay
  
- Privacy Use Cases Team: Christine Hertzog (team lead)
  - Christine: Going through all the use cases. Matrix shows we just have a few to go, with an initial round of comments. Most of work has been done in creating the use cases and then going through all the reviews.
  
- PEV Team: Mike Coop (team lead)
  - Mike Coop: On hiatus for the summer. 6-8 calls on a wide range of topics. Purpose was to see the digital tracks left by EV users/drivers at various charging points.
  - Most public charging will look like credit card model. Will go to fuel pump, pay with a card and go.
  - Level 2 charge will be an AC charge at home, or in a parking lot and charge for 1-4 hours. Those models are yet to be seen. There will be privacy models attached that are already used. Germany among other places are looking at using clearinghouses for charging. You could go and charge anywhere, and then have it put back on your utility bill. You could have multiple utilities, etc. involved, similar to cell phones. However, yet to be seen if this will be worth doing since many of the charges will only be a few cents here and there.
  - Decisions will be made if the payments should only be via credit cards. A lot of mechanics on the charging model still being worked through. Some goals are being written this month.
  - Want the first paper out by grid week on Sept 12. Many other issues are not specifically meter related, but are privacy related.
  - Don Baily is a hacker, talking at Black Hat, on ability to war text vehicle systems and wreak havoc. Another new potential threat.
  - Certain privacy and security threats. E.g., the disgruntled employee in TX that hacked car dealership and caused their horns to honk. Trying to keep track of all these issues.
  - Will feed all this info into IEEE, and other groups.
  - Looking at environment where meters may be in the vehicles themselves, and the utilities will not own them. They will be providing data, via a mobile device, that is sent directly to a utility, or through a third party.
  - Parking in a parking lot and participating in a demand response environment using open EDR, etc.
  - Meeting alternate Wednesdays at 9am eastern. Works better for the EU folks.
  - Lee T: issue of security of anything electronic in cars, there was a paper at USENIX about these sorts of things. Next week there will be another iteration of this in San Fran USENIX
  
- NSTIC Team: Krystina Schaefer, (team lead)
  - Krystina, Eve Maler from Forrester Research and a member of the Kantara Initiative spoke last week at the meeting.
  - Low participation since April release.

- Next meeting regroup and identify a firm deliverable. Will look at the NIST document that will be released in the next week or two. Will meet again on Thursday, Aug 4 11am eastern.
- NSTIC focus now seems on individual authentication. Identifying applicable components and entities. After seeing where NSTIC will actually be applicable, looking at use cases, etc. Will identify issues.
- Training and Awareness Team Work Review: Rebecca Herold (team lead)
  - Rebecca: Team created awareness and training matrix.
  - Will speak with SGIP awareness and training lead to see how we can collaborate on our efforts.
  - Will report on resulting actions at our next meeting.
  - Will let team members know when awareness and training team meeting will be held.

### 3. Miscellaneous

- Meetings are every other Friday. **<=NOTE CHANGE**
- Next full group meeting will be Friday, August 12
- Other issues or news related to smart grid privacy?
- NIST SP 800-53, Appendix J, Privacy Control Catalog:
  - Tanya will discuss some potential related activities for our group
  - See [http://csrc.nist.gov/publications/drafts/800-53-Appendix-J/IPDraft\\_800-53-privacy-appendix-J.pdf](http://csrc.nist.gov/publications/drafts/800-53-Appendix-J/IPDraft_800-53-privacy-appendix-J.pdf)
  - Tanya: Comments on this being collected until September 2. The draft SP 800-53 was used to drive high level requirements of NISTIR 7628. There are some utilities that will have to implement these controls. Idea: We have a F2F next spring to look at the updates needed for 7628. IF we can start looking at Appendix J, we can determine how the controls are useful, not useful, need to be tweaked, etc., to address the smart grid privacy issues. If our group could provide comments, recommendations, etc. for making the Appendix J more useful for privacy in the smart grid, we could have impact on those privacy controls.
  - Have a person in the indicated that it doesn't address meter usage data.
  - The document uses a straight PII reference throughout.
  - Two actions we could take:
    - Providing comments
    - Updating NISTIR with our feedback on this.
  - Brent: My company can't provide comments. How could we do this from our group?
  - Tanya: Would have to focus, for the comments, on just the smart grid meter data. Keep the scope in mind. Of course if individuals have comments, I can pass them to the authors
  - Rebecca: Will ask again at next meeting to see if someone wants to submit comments by the September 2 deadline on behalf of our group.

Thanks,

Rebecca