

AMI-SEC Team Conference

Thursday, April 17, 2008.

Daren Highfill, Chair

Summary

The AMI-SEC meeting was hosted at Sempra by San Diego Gas & Electric Company (SDG&E) in San Diego, CA. The team had a great turnout with over 40 attendees. The team reviewed the history, scope and deliverables of AMI-SEC. Discussion continued with dialogue about the ASAP project, System Security Requirements Document, new UCAIug website, and overall architectural approach to AMI security. Presentations were given by representatives from Electricité de France Research and Development (EDF R&D), Good Company/Durus Networks and Software Engineering Institute (SEI).

Documents

The Chair discussion and agenda items were presented via PowerPoint. The meeting presentation may be found on the AMI-SEC SharePoint site. Other documents found on the AMI-SEC site: System Security Requirements (SSR), "AMI for Deregulated Electric Markets", "Software Architecture Thoughts for the System Security Design", Proposed Views, Who Benefits with associated Benefit Definitions and Column Definitions documents.

Technical Discussion

The Chair opened with a review of scope, deliverables and history of the AMI-SEC working group followed up by activity of the status of the ASAP project. The Chair explained that the ASAP project is running in parallel to AMI-SEC. The project membership is a subset of utilities and participants that have been invited to join. The ASAP goals consist of four deliverables for 2008: Security Requirements, Security Design, Component Catalog, and the Implementation Guide. EPRI is enhancing the ASAP project by providing product testing. The test schedule is to be determined and utilities will drive which products are to undergo testing.

Next, the current state of the system security requirements document was presented and discussed. Members were asked to provide comments and changes to the System Security Requirements section that help resolve problems with wording. Mention was made that the requirements are intended to be purely functional and not organizational, assurance or other types. It was also noted that system verification needed to be added to the document (see action items).

Members were reminded of the new website located at <http://www.ucaiug.org/>. Attendees were also made aware that Google and other search engines show links to the old website first.

Presentations:

Pascal Sitbon of EdF R&D presented information on security for smart metering in France and Europe. Pascal commented that the pilot at EdF is 300,000 meters and that there will be 30,000 meters deployed per day.

Michael Hathaway of Good Company and Caleb McLain of Durus Networks presented “AMI for Deregulated Electric Markets”. Mention was made that there is a Texas HAN project starting next month and may be great for AMI-SEC’s involvement. Additional information can be found on the Texas PUC website under Project 4 of item 34610.

James Ivers of Software Engineering Institute presented “Software Architecture Thoughts for the System Security Design”. The presentation offered perspective into architecting system security. Comparisons of SEI’s methodology and other processes and tools (SysML, AADL and others) were discussed.

The meeting wrapped up with a discussion of how to define the overall AMI security architecture. The architecture would also serve as a means to integrate the work that has already been completed. SABSA and TOGAF architectures were proposed architectures. Discussion was facilitated by the chair on the value an AMI services perspective based on the AMI services model. Determination was made that creating ‘views’ would assist in answering architectural questions and highlight, automate, or segregate system architectural dependencies. Notes were taken by the chair on proposed views. The “Who Benefits” spreadsheet was presented as a shadow of all services that utilities provide. Decision was made to expand the spreadsheet to include AMI service domains and use it as an initial framework.

Action Items:

- Need FAQ on website.
- Bill Mentor will try to write the initial technology agnostic system verification section of the System Security Requirements document.

Upcoming Meetings

The group discussed the advantages of co-locating meetings. Co-locating is more justifiable than planning each sub-group separately. The next teleconference for AMI-SEC is scheduled to be held April 30th from 1-3 PM EDT. The following teleconferences are to be held May 14th, May 28th and June 11th from 1-3 PM EDT. The next face-to-face meeting is tentatively scheduled for June 23-25th at Entergy - New Orleans. Over the next several weeks the team will firm up the face-to-face meeting plans.