SG-Network TF Conf Call Notes - DRAFT

Date/Time: 24Jan2011, 2-3pm eastern
Participants:

Matt Gillmore (chair)	Jerry Armes
Ron Cunningham (vice-chair)	John Buffington
Andy Bordine	John Geiger
Bruce Kraemer	Jorjeta Jetcheva
Cheong Siew	Klaus Bender
David Gosch	Mark Thompson
Don Sturek	Michael Northern
Doug Gray	Tom Overman
Gary Stuebing	Vincent Bemmel

Note: others may have been on the call, but the note taker did not catch names.

Agenda Items / Major Discussions:

Project Kickoff Request for SG-NET: Last Mile Wireless Requirements – Don Sturek summarized the request from OpenSG TC for SG Network TF to document "Last Mile" wireless requirements for the smart grid to be used to help substantiate electrical industry needs for spectrum. It was noted that though the project charter and scope is still in development, work on the project can start. <u>Discussed:</u>

- documenting detailed requirements including reuse/extention to the payload requirements already prepared and the draft paper that Klaus Bender, Jerry Armes and Mo Shakouri worked on last year
- added details via utility input on service areas, deployment characteristics including terrain, foliage/vegatation, other evironmentals, endpoints in basements, and or for gas/water meter installs (not use industry or utility average/median, but the variety of scenarios found with even 1 utility) that drive wireless design and usability and performance, device point densities and how those need to be assessed e.g. sq mile of service territory (boundary), electrical asset/right-of-way/easement; meter cluster areas plus distribution asset area; census tracts or other geopolitical areas; rural, suburban, urban, dense/high-rise urban
- potential to use survey mechanism to gather data or what might already be available e.g. EPRI(?) or other sources
- finalize the project charter, scope, and assumptions
- assess possibility of using existing Requirements Database to assess some of the data
- what relationship (if any) this had with earlier discussions on extending work on PAP 2 Guidelines on Wireless in the Smart Grid

The group was again reminded to consider and provide feedback to Don Sturek's email 12Jan2011 concerning "Project Kickoff Request for SG-NET.

<u>It was agreed:</u>
- Michael Northern would check on availability of utility service area statistics.

Failing that, Matt would investigate preparing a survey to help gather the needed information from the utilities.
- Jerry Armes to assess usability of the requirements database to help gather or determine some of the needed characteristic data. Matt would gather some Consumers Energy data to see how that might work within the database "user profile"

PAP 2 Guidelines Proposed Draft as V1.0 Vote – Matt reminded the group that NIST had sent out to the PAP02 working group distribution, a call for approval to release the draft as v1.0 of the "NIST Special Publication, Guidelines for Assessing Wireless Standards
for Smart Grid Application" by 28Jan2011. Here's a link to the latest draft
    http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP02Objective3 and to the previous draft comments and their disposition
    http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP02Wireless
It was noted that the PAP02 email list were considered the valid voters. If approved, then the draft referenced above would be presented to the NIST/SGIP Governing Board for final approval.

Discussed:
- Some of what was/was-not factored into this proposed final draft.
- How a Yes vote might impact the industry, or a No vote might impact the process and the industry, and whether either vote might impact the potential for additional follow-up/on PAP02 work on the Guideline.
- It was noted that the 13Dec2010 SG Network TF conference call recommendation to make a formal OpenSG SG Comm_SG Network request for continuing PAP02 work has not been completed.

Those that are validate PAP02 voters, were asked to act upon Nada Gomie's voting request sooner rather than at the last moment e.g. close of business 28Jan2011.

Payload Descriptions – LICs, C-I-As, Rationale – Ron summarized the current state of the artifact (that will be carried in the SG Network TF archives) of vetting the payload descriptions, LICs, C-I-As, Rationale per his 23Jan 2011 email and his call for input from the larger SG Network TF especially the utilities concerning resolving ~35 C-I-A risk level octets specific to feeder line voltage sensors versus the other feeder line device payload C-I-A values.

SRS Review – Distribution Domain Use Cases – Andy Bordine walked a proposed way to simplify the summarization of the Field DA Maintenance use case payloads to being based on the payload types rather than the individual Feeder Line Device actors.
It was agreed:
- SRS section for Field DA Maintenance use case payloads to being based on the payload types rather than the individual Feeder Line Device actors.

Requirements Table – Ron summarized some of the next updates in the Requirements able and that a review of that would be made available for the next conference call.

To-Do's (description, lead person, current state)
1. **System Requirements Specifications –** normalize to other OpenSG SRS documents in style, target audience, and adding new use case content:
   - Comment/feedback template - Matt will send notification out to several groups to start using the template after performing some additional vetting of the process and template to a few testers.
   - core SRS editors/reviewers (Matt Gillmore, Klaus Bender, John Buffington, Ron Cunningham, Vincent Bemmel) – Need to continue to provide content especially for section 3. Target is to complete SRS by end of Mar2011.
   - Actor Normalization (Andy Bordine) - sub-group to provide recommendations with primary focus on distribution actors with intent of establishing or reusing a good categorization of especially DA actors, but decompose a category only as needed to clarify documentation of use case business functional and volumetric requirements. Andy to work with Ron on the objectives and deliverables of this effort. Consider collaborating with Doug Houseman.
2. **SG-Network Deliverable(s) Release 5/6 potential use cases –** the next priority set of use cases requirements draft potentials (see below for partial list).
   - Updated use case and targeted release table – continue to review and comment on release 4.1 draft7, and continue to complete the remaining documentation for the next release.
   - Scan Previous use case requirements for consistent inclusion of error and other management payloads and prepare needed payload requirement sets (Mike Corbett) Other use cases are being investigated.
   - HAN (plus those for PLC technology consideration) – Matt Gillmore and Don Sturek to reach out to ASHRAE(?) and SAE(?) for their current use case documentation for incorporating into functional/volumetrics requirements deliverables. Dealing with document terms of use and access points.
   - DA, divided into sub use cases:
     - Additional comm-paths added to already documented sub-use cases (Ron Cunningham) target for release 4.1
     - DA Maint, DSDR, Volt / Var – Distributed (Bill Godwin, Andy Bordine, Ron Cunningham) targeted for release 5.0
   - Outage Mgmt (Matt Gillmore) add payloads for ultimate consuming actors of outage information targeted for release 4.1
   - PHEV (Ron Cunningham & Vincent Bemmel) add "follow the money" payloads and others as extracted from SAE, targeted for release 4.1.
   - PrePay (Ron Cunningham) add "follow the money" & SMS text & email payloads targeted for release 4.1
   - Pricing – TOU, RTP, CPP (Vincent Bemmel & Ron Cunningham) – add in the pricing payloads, targeted for release 5.0
   - Configuration Mgmt (Kory Fifield) targeted for release tbd. Matt to follow-up on this.
   - Security key exchange – Need to add payload, Matt will send inquiry out to group on what the appropriate "How Often" should be, targeted for release tbd
   - Payload Implications, LIC, CIA vetting – continue to document the implications and work with the network-security sub team to vet payload LICs and C-I-A values based on the application payloads

3. **Functional/Volumetrics database (Jerry Armes, Klaus Bender, Kelly Flowers, Matt Gillmore, David Gosch, Ron Cunningham) –** Jerry to provide assistance to address loading/processing the Requirements Table split out of the Payload security LIC, C-I-A, Implications to a separate expanded spreadsheet tab as illustrated in r4.1 draft 7.

Next Working Session / Conf Call(s):
Monday 31Jan2011 2-3pm eastern.

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