SG-Network TF Conf Call Notes - DRAFT

Date/Time: 31Jan2011, 2-3pm eastern
Participants:

Ron Cunningham (vice-chair)	Doug Gray
Andy Bordine	Jerry Armes
Bruce Kraemer	John Buffington
Cheong Siew	Juan Oliver
Daniele Loffreda	Mike Corbett
Derek Flickinger	Vincent Bemmel
Don Sturek	

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

Agenda Items / Major Discussions:

PAP 2 Guidelines Proposed Draft as V1.0 Voting Observations – Ron asked if one whom had registered a vote on the draft proposed for v1.0 of the "NIST Special Publication, Guidelines for Assessing Wireless Standards for Smart Grid Application" had any observations to make. The points raised were:

- NIST had sent out an email the day prior to closing of the "voting" clarifying and expanding on what the current draft candidate for v1.0 contained, how it should or should not be used, and plans for post v1.0 PAP2 work to start no later than Mar2011. This email changed a few of the previously cast votes.
- The process for: call for the vote; lack of conference call to discuss the draft that voting was be called on, appeared not be consistent with other organization more formalized voting on significant bodies of work nor well communicated and understood even to the point of whom were the appropriate voters
- that there were several observations of needed changes:
  - needed to the document be be fully useful as a guidance for assessment of wireless technologies
  - needs to attempt to address the original objectives of PAP2 as to specific guidance for use of wireless for the smart grid.

[post the conference call, it was noticed that NIST sent out the voting results and next conference calls. Per the rules of voting, the draft candidate for v1.0 was approved and the document is being placed into the publication stage. A PAP 2 teleconference is scheduled for Friday February 11, 2011 at 1pm (Eastern?) in order to review the results of the vote and develop a new action item list for PAP 2 going forward in light of the comments received. Call-in information will be forthcoming. Also a Joint session with OpenSG SG Communiccations_SG Network TF is currently scheduled for Thursday March 10, 2011 8am-noon at the OpenSG face-to-face conference in San Francisco.]

It was agreed:
- Ron would prepare an outline for how some of the original PAP2 objectives of providing guidance on the use of wireless in the smart grid might be structured.

SRS Review – Distribution Domain Use Cases – Andy Bordine walked through current draft using the agreed to approach of documenting at the payload types level rather than the individual Feeder Line Device actors. Andy made observation of 2

payloads that appeared to be missing for the switch. Andy will work with with others on loading in the appropriate use case and alternative comm-paths diagrams.
It was agreed:
- Add the 2 payloads new configuration cmd & ack for the feeder switch, which are different from the open/close operate payloads for the feeder switch.

Payload Descriptions – LICs, C-I-As, Rationale – Ron asked if any on the call had any input feedback to offer on the payload descriptions, LICs, C-I-As, Rationale request 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. Hearing none, Ron indicated he would reach out to specific individuals and to SG Security on getting closure on the requested information.

Requirements Database – Ron revisited thoughts on what SG Network TF's end target for the Requirements Database should be e.g.
- baseline of functionality and platformed for at best ACCESS 2003, VBA, ActiveX e.g. anyone could take this baseline and do whatever they wanted to the environment including porting to other platforms provided that the licensing was followed as noted in the database and associated documentation.
- baseline of functionality and ported to different platform or design structure e.g.
  - Access 2007 or 2010 with .NET dev tools
  - other database and business rules and UI
- or continued OpenSG support of the database, business rules, and the UI either as the base delivery or via a hosted environment (implies costs) for the database, business rules with the user interacting via a web browser UI, with expanded functionality and capability.

It was mentioned that there are several of the database work team assessing these options for resourcing and time requirements and potential contributors to this type of work. Ron also indicated that if anyone was willing to assist and contribute to this effort, please step forward. More information forthcoming.

At a bare minimum, Ron requested that SG Network TF needs to document what is required, at a minimum to operate the database in the ACCESS 2000, 2002, 2003 and VNA, ActiveX environments as Jerry indicated that the database and code was shown to function in an ACCESS 2003 environment.

SG Network TF face-to-face Agenda Topics – Ron summarized the current 07-10Mar2011 face-to-face OpenSG conference in San Francisco specific to SG Network TF, and the potential (draft) work session topics e.g.:
- SG Communications Boot Camp Monday 3-5pm 07Mar2011
- SG Network joint session with SG Security Tuesday 1-3pm 08Mar2011 - topics:
  - SG Network Payload C-I-As and mapping to LICs
  - Security risk mitigation "better" practices
  - potential improvements for NISTIR 7628
- SG Communications joint session with PAP 2 Thursday 10March 8am-noon – PAP 2 next steps
- Other work session topics:

- ○ SRS vetting
- ○ Requirements Table vetting
- ○ Requirements Database vetting and next steps
- ○ "Last Mile" spectrum needs
- other network related efforts:
  - ○ Network Interop Tuesday 1-3pm 08Mar2011
  - ○ new OpenSG Simulation Wednesday 10:30-noon 09Mar2011

It was agreed:
- • Ron will post question to PAP 2 and SG Communications and SG Network chairs concerning at least offering a session (dialog with PAP2 leadership) on Wednesday 09Mar2011 for those PAP 2 participants unable to participate on Thursday 10Mar2011.

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 07Feb2011 2-3pm eastern.

URL https://www2.gotomeeting.com/join/**738908066**

Use microphone and speakers (if using VoIP) - a USB microphone/headset is recommended. Or, call in using your telephone. **Mute phone when not in the conversation**.

Dial **714-551-0021**
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