SG-Network TF Conf Call Notes - DRAFT

Date/Time: 29Jul10, 2-3pm EDT
Participants:

Matt Gillmore (chair)	Jerry Armes
Ron Cunningham (vice-chair)	John Egan
Andy Bordine	Jorjeta Jetcheva
Cheong Siew	Kuor Hsin Chang
David Cypher	Mike Corbett
David Gosch	Rich Tolway
Gary Stuebing	Vincent Bemmel
Gwen Durrill	

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

Agenda Items / Major Discussions:

DA centralized DMS ↔ feeder line device Use Case Requirements – Latency & Payload Clarification:

Discussed: Ron's email dated 26Jul10 requesting clarification and rationale for a) "< 2 sec" latency on some payloads; b) rationale for feeder device payload types of "---status_change_alert" and "---deviation_alert". It was stressed that the SG-Network is documenting up business functional and volumetric requirements that are to be representative of the industry and attempting to be technology agnostic, realizing that some utilities' designs/deployments will use latency values that may be even smaller or larger than what is documented. Discussing these two points was primarily amongst the utility participants on the call.

It was agreed to:

*   change those parent latency values from "< 2 sec" to "< 4 sec". Rationale: this accommodates some larger longer spanned DA networks' business requirements (being more representative of the industry specific to distribution centralized DMS ↔ feeder line devices several comm-hops out on the feeder), and still allows for utilities to change from the baseline set of requirements to suit their specific business requirements.
*   request clarification from Bill Godwin concerning the rationale for the two separate feeder device payload types of "---status_change_alert" and "---d eviation_alert". [Ron followed up with Bill Godwin, and the 2 payloads are infact two separate and distinct payloads. The "---status_change_alert" payload is where the feeder line device detects a change in it's operating state e.g. a self initiated operate or health/config of the device. The "---deviation_alert" payload is when the feeder line device detects a measured value has gone out of the tolerance band for that measurement e.g. a phase voltage reading is above the nominal operating range. Based on this information, the 2 types of payloads will be retained and not have one of them dropped from the list]

Dept of Homeland Security Cyber Security Evaluation Tool (CSET) – During the joint work session with OpenSG Security, Neil Greenfield identified the CSET tool that might help OpenSG in determining the C-I-A L-M-H values for the payloads. Ron installed and tested the tool on the on-demand_meter_read payloads, and observed

that the tool did bring in and reference many of the current security standards and referenced guidelines, but that the tool was geared to a higher level of information than down in the asymmetric payloads we were dealing with. Ron's recommendation for use on the payload C-I-A L-M-H setting of values in the SG-Network at this stage was to pass on it.

Additional Use Cases via EPRI – Ron indicated that through a project with one of the OpenSG utility members, a set of ~20 use cases will be made available for use in the Smart Grid efforts. Once the deliverable has been finalized and posted, access details will be provided. This set of use cases will be another point of reference as SG-Network continues documenting the business functionality and volumetric requirements, and completing the SRS.

Pricing Use Case Clarifications
Discussed: clarifying some points that Ron posed in his email of 29Jul10 to attempt to reduce the amount of rework of the requirements after an additional couple hundred rows are created. Notes from the Detroit face-to-face meeting were retrieved and amended with potential for some additional payloads and adding clarity around the payloads to be included.

It was agreed to:
  • use the pricing use case notes (as amended) from the face-to-face meeting and include those in as feedback to Ron's 29Jul10 email

PAP 2 Draft of Guidelines for Use of Wireless in the Smart Grid – David Cypher discussed the current status of the draft document: a restructuring of content;,plus inclusion of another wireless standard that was modeled; missing content. A PAP 2 conference call is scheduled for 04Aug10 2-3pm EDT to discuss and plan out the remaining document work.

Note: checkout the ToDos for other updates that were mentioned in the conference call or provided to Matt or Ron.

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.
     ◦ core SRS editors/reviewers (Matt Gillmore, George Cosio, Klaus Bender, John Buffington, Ron Cunningham, Kelly Flowers, Vincent Bemmel) – a restructure of several sections was performed at the face-to-face meeting. Using the revised structure and content, Kelly Flowers is working to update the master to that template and make that available for the authors to continue to populate the missing material. Targetting a 18Aug10 posting.
     ◦ Actor Normalization (Bill Godwin) - 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. need to move this effort along

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 – planning for a 18Aug10 posting for release 5.0
   ○ Scan Previous use case requirements for consistent inclusion of error and other management payloads especially those beyond the field DA devices and Smart Meters.
   ○ 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.
   ○ Security C / I / A values (Vincent Bemmel) A SG-Network & SG-Security joint session at the Detroit face-to-face meeting is scheduled Tuesday afternoon to help address this and associated coordination points.
   ○ DA, divided into sub use cases:
      ▪ Additional comm-paths added to already documented sub-use cases (Ron Cunningham) target for release 5.0
      ▪ Dispatch Distributed Storage (Ron Cunningham) add island messaging to customer and revise use case for potentially a generic DER versus being focused just on Storage Batteries, targeted for release 5.0
      ▪ DA Maint, DSDR, Volt / Var (Bill Godwin & Ron Cunningham) targeted for release 5.0 at the face-to-face meeting.
   ○ Outage Mgmt (Matt Gillmore) add payloads for ultimate consuming actors of outage information targeted for release 5.0
   ○ PHEV (Ron Cunningham & Vincent Bemmel) add "follow the money" payloads and others as extracted from SAE, targeted for release tbd.
   ○ PrePay (Ron Cunningham) add "follow the money" & SMS text & email payloads targeted for release 5.0
   ○ Outage Mgmt (Matt Gillmore) add payloads for ultimate consuming actors of outage information targeted for release 5.0
   ○ Pricing – TOU, RTP, CPP (Vincent Bemmel & Ron Cunningham) – add in the pricing payloads, targeted for release 5.0
   ○ Configuration Mgmt (tbd) targeted for release tbd

3. **Requirements Payloads C-I-A and L-M-H Values –** It was agreed at the face-to-face meeting to focus the work on the currently ~175 payloads for setting of the C-I-A values. A summarization of the release 4.0 requirements indicated a few payloads that had been assigned different C-I-A values across the payloads different parent records. These need to be resolved so that OpenSG Security can proceed with their vetting of C-I-A values at the payload level.

4. **Functional/Volumetrics database –** Jerry Armes posted version SGNetDb-V4-d6-JA-27July2010 of the db. This version was zipped and posted on the SG-Network website under the "Latest_Release_Deliverables" folder along with some database use instructions. The document from the face-to-face meeting that contained some of the remaining database tasks and proposed new features has been expanded with additional details. That document along with a survey to the potential users of the database will be sent out to help provide guidance as to the top priority development tasks.

5. **PAP 1 SG Communications' Tasks (fron Don Sturek's email)**

- provide feedback on the list of gaps found in HAN for IETF requested work
- provide a specific list of security gaps in HAN (e.g. probably a subset from 1st bullet)
- provide feedback and comment on Fred Baker's Internet Draft on Smart Grid RFCs e.g. what's missing. Fred will add routing standards to the document.

6. **SG-Network Website Cleanup & Archiving –** Matt & Ron to perform some website content and folder cleanup to make it easier to locate and find content.
7. **Deliverables Q/A Process and Format** – Implementation of Q&A process on hold pending completion of other higher priority tasks.

Next Working Session / Conf Call(s):
Thursday 05Aug10 2-3pm EDT
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.

Dial **714-551-0021**
Access Code: **738-908-066**
Audio PIN: Shown after joining the meeting

Meeting ID: 738-908-066