SG-Network TF Conf Call Notes - DRAFT

Date/Time: 09Sep10, 2-3pm EDT
Participants:

Matt Gillmore (chair)	John Buffington
Ron Cunningham (vice-chair)	Jorjeta Jetcheva
Andy Bordine	Juan Oliver
Anuj Puri	Kelly Flowers
Bill Godwin	Kuor Hsin Chang
Cheong Siew	Mike Corbett
Don Sturek	Rich Tolway
Gary Stuebing	Ted van Ryn

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

Agenda Items / Major Discussions:

SRS – Section 3 Template – Matt discussed the current state of the use case template as played out for Meter Reading. There were a few missing payloads and actors even in the current example.

Discussed:

- keeping the actors table on 1 page for the use case, and each use case scenario (sets of payloads as introduced in the intro of the use case), with subsections limited to 1 page per scenario
- alternative means to make sure that all the Requirement Table content for a use case gets summarized into the SRS e.g. check lists as the current simple payload names only by use case failed the task for the Meter Reading example.
- how to determine and collectively agree on a use cases scenarios
- business request-response reliability requirement intended, versus the total reliability based on the asymmetric payloads individual values – what changes in either are needed
- whether or not to discuss in the SRS the notion of push or pull of endpoint actor information and whether Meter Reading use case needed an event scheduling payload
- schedule for getting next release out for vetting

It was agreed to:

- Ron would run a new pivot table and make available (based on example previewed for Meter Reading), from which the association of payloads to scenarios could be made and as a check list to make sure all the parent rows actor-to-actor and payloads are accounted for. This process might identify some payloads that are either missing or can be dropped from a use case.
- each use case requirements authors to draft up the proposed use case scenarios and make that available for review and vetting with the group prior to spending all the time working out the details only to have to rework them for changed payload to scenario mappings
- on a payload by payload case, changing the payloads reliability values in the Requirements Table would be considered to make sure the totaled reliability value in the SRS section 3 business objects table are what the business requirements were intended to state.

- plan for having next release SRS ready for vetting at the 01-04Nov face-to-face meeting.

Database Next Steps – see status in the ToDo's section

Proposed Network Security Task Force – Matt and Ron over-viewed the proposed new Network Security Task Force to be sponsored by OpenSG Security. The draft charter states the new TF is responsible for the ongoing development of actionable best network security practices between IT and the electric grid. It's not clear if this TF will also take on the current vetting of the Requirement Tables C – I – A security risk values and 3x3 risk mitigation mechanisms, and the coordination across SG Network, OpenSG Security, CSWG, and NIST PAP 2 work efforts. Once the charter is finalized, it's then an issue of the ramp-up time, solidifying the leadership and volunteers to actively participate.

Requirements Table – Smart Meter versus split to electric, gas, water meters – The current Requirements Table contains a few payloads that specifically reference electric, gas, residential and commercial/industrial meters with the majority of payloads mentioning meters calling out Smart Meters. This has lead to one interpretation that all use of Smart Meters applied equally to and included both gas and electric meters. With the inclusion of the gas and water meters in the reference diagram (with the associated data flows), the assumption that all references to Smart Meters applies is inclusive of electric, gas, and water meters needs to be clarified, as not all payloads associated with electric Smart Meters applies to gas and water 2-Way Meters.
Discussed:
- What's needed to clarify the payloads and network traffic associated to electric, gas, and water meters in the Requirements Table without having to decompose all Smart Meter payloads into separate ones for electric, gas, and water. This included the potential of using adding capabilities in the Requirements Database to accomplish this need.
- Need to identify which payloads are appropriate to gas and water meters as their power source is primarily battery, with limited duty cycle and longivity.

It was agreed to:
- Ron to scan the meter payloads and identify a potential list of those appropriate to gas and water, and scope out effort include those specific requirements in the Requirements Table, and separately how to capabilities might be added to the database to to require the Smart Meter payload parsing for electric, gas, and water meters.
- For those utilities in the group have routinely deal with gas and water, it's requested that payloads specific to gas and water be drought to the table.

Network Centric View – Ron's additional edits to section 3 of the draft PAP 2 guidelines discussed in the 02Sep10 conference call, introduced a version of the network centric view as Jorjeta Jetcheva outlined in in a discussion document. Hohn Buffington indicated that Itron had some requested clarifications and recommendations for changes to the network centric view as drafted in the PAP 2 section 3 edits mentioned above. Ron indicated that he needed those by Friday 10Sep10 for

consideration for inclusion into the edits to be submitted to PAP 2 for their consideration for inclusion into draft 6 of the guidelines. [John provided the a request for clarifications and recommended changes Friday 10Sep10. Ron prepared a response to that email. The previous edits to section 3 and 5 were submitted as is to PAP 2 for consideration for input into draft 6].

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) – Matt and Ron will determine an appropriate means that the section 3 authors can validate that the Requirement Table contents are adequately summarized. Matt will also update the Meter Reading example template based on this assessment, and make that available to the group.
    ○ 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. Needing to restart this effort.
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 – next release date (tbd) for either a 4.1 or possibly 5.0 (inclusion of new use cases)
    ○ Scan Previous use case requirements for consistent inclusion of error and other management payloads and prepare needed payload requirement sets (Mike Corbett) Additional payloads have been drafted for the Premise Network Admin use case. 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
        ▪ Dispatch Distributed Storage (Ron Cunningham) add island messaging to customer and revise use case targeted 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 (tbd) targeted for release tbd

3. **Requirements Payloads C-I-A and L-M-H Values –** Need to resolve a few payloads where different C – I – A values were assigned for different actor-to-actor pairings. Refer to file "SG-Net_Rqmts-Table_v4.0_Payloads-Parents-CIA.xls" in the SG Network work-in-progress folder.

4. **Functional/Volumetrics database (Jerry Armes, Klause Bender, Kelly Flowers, Matt Gillmore, David Gosch, Ron Cunningham) –** Jerry Armes added for code/features to a work-in-progress version of the database that includes: a) user/project profiles; b) ability to store records from queries to a table that links to the user profile; c) cvs file exporting; d) Basic Infrastructure Analysis form picks up some of Matt's suggestions from 02Sep10 conference call. Initial attempts of running some queries to identify and select those requirements specific to a network cloud were taking too long to execute. The possibility of reusing some of the previous Excel macro work was discussed, but after further clarification of the need and what information already exists, an alternative query design was proposed, which is being developed.

5. **PAP 1 SG Communications' Tasks (from 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. This includes potential relocating the content from the SG Communications home page to the specific SG Network TF webpage.

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 16Sep10 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