

## SG-Network TF Conf Call Notes - DRAFT

**Date/Time:** 04Apr2011, 2-3pm eastern

**Participants:**

Matt Gillmore (chair)	John Buffington
Ron Cunningham (vice-chair)	John Geiger
Bruce Kraemer	Kelly Flowers
David Gosch	Mike Corbett
Doug Gray	Rich Tolway
Jerry Armes	Vincent Bemmell

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

### Agenda Items / Major Discussions:

**Requirements Table – Update/Status** – Ron summarized the changes represented in draft1 candidate for r5.0 (current row count ~7200, 194 named payloads, ~460 parent rows, 19 major use cases), which included:

- ⤴ addressing most of the remaining easy hit changes coming out of the face-to-face vetting work sessions for DR-DLC e.g. LMS or DSM actors for both Utility and REPi and targeted at only the electric meters and HAN devices.
- ⤴ Added new Price use case targeting the CPP, RTP, TOU price signals
- ⤴ What still needs to be added:
  - work out the parsing of the textual “how often” column as additional rows in the table, OR parsed-out in the Requirements Database
  - add payloads for the distribution actors update of their firmware, programs, NICs to the Firmware, Program Update use case(?)
  - add 2 payloads for configuration update cmd & ack to a Distribution (or Firmware, Program Update) use case
  - add Distributed DA Maint, DSDR, Volt / Var control use case rqmts
  - PHEV and PrePay - add follow the money rqmts
  - Security Key Exchange add rqmts
  - Security payload overhead - addtl volumetrics (?)
  - Configuration Mgmt - add rqmts

#### Discussed:

- DR-DLC – latency for both the cmds and the acks
- Price – how-often, latency, payload size, and how those might be different for C&I versus residential electric customers, and whether the large customers DR-DLC are managed under DR-DLC versus Distribution/Operations DSDR. The use of ADR versus SEP for clarifying the payload and actors was also raised that needs to be considered.
- PrePay – proposed delete of PP-169 & PP-170 as “to” actors no longer apply based on the interfaces included in ref diagram r0.7a
- Firmware/Program Update – adding the feeder line device actors into that use case
- need to document the new payloads description, attributes, and if applicable security LIC, C-I-A, and rationale

#### Agreed to and Action Items:

1. Ron would update draft1 and issue draft1a to address those DR-DLC, Price, PrePay items discussed above.
2. Ron would work up the additional requirements for at least the feeder line device Firmware/Program Updates use case and make that available by the next conf call.
3. Vincent and John Buffington(?) to report back on Price TOU payload size.

**Reference Diagram draft r0.7a** – Ron indicated that the use case reference diagrams had been generated per the base reference diagram with the hope that this version is stable for at least a month. The exception would be in what changes are needed to correctly represent the relationship between the security key manager, certificate authority, and their interfaces to other actors. Input on this topic was requested.

Ron also introduced the initial work on preparing the communication – path decision points reference diagram (similar to the comm-paths options being included in the SRS sections), but a much smaller set that would allow to be factored into the UI for the Requirements Database and User Profile – Project specification tasks.

#### Action Items:

- Ron would complete the initial draft of the communication-paths decision points reference diagram and post to the SG Network TF web pages.

**SRS – Update/Status** – Kelly discussed the graphics that were updated for the Meter Events section. One additional edit to the comm-paths diagram was noted and Kelly would address that.

Vincent summarized the current draft of the Load Management section. It was noted that the payloads and key actors documented in this section need to be updated per the recent changes in the Requirements Table e.g. draft1a, including the comm-paths diagram.

#### Action Items:

Ron will work with Vincent in updating the comm-paths diagram.

**PAP2 – next steps update/status** – Matt summarized some of the next steps that several in SG Network TF had agreed to contribute and assist in the proposed next steps (both as discussed in the San Francisco face-to-face and at last weeks SGIP face-to-face work sessions). Kelly is leading the effort on defining the definitions we will use for those big categories of urban, rural and to what sub-categories that needs to be taken to. A working session is scheduled for Tuesday 05Apr2-11 3pm eastern. The normal weekly SG Network TF conf call GoToMeeting credentials will be used.

**Vetting Requirements Table against Reference Diagram** – David illustrated and summarized the proposed method to make sure that what was documented in the Requirements Table child row columns: data flows, from actor, to actor, were in-sync with the reference diagram AND the from/to actors were in sync with the requirements column. David asked of the group what the benefit to the effort this one-time effort was and whether or not it needs to proceed. Ron stated that the vast amount of preparing

content and editing the Requirements Table continues to be a manual copy/paste filtered global edits, and incrementally finding missed edits. A tool/method to perform that checking (similar to that Jerry does in checking for bracket balancing of the parent row data flows in the Requirements Database), is a great help in improving the quality of these deliverables.

Action Item:

- David will proceed to request internal company resources for this task, and if approved, then the tool development would proceed.

**To-Do's** (description, lead person, [current update](#))

- I. **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 Bemmell) – 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.
- II. **Requirements Table - Release 4.1 or 5.0 potential use cases** – the next priority set of use cases requirements draft potentials (see below for partial list).
  - A. “Reqmts-Combined” tab
    - i. proposed for release 5.0
      - a) scan & remedy for QA/QC items
      - b) add 2 payloads for configuration update cmd & ack to a Distribution use case
      - c) PHEV and PrePay - add follow the money payload rqmts
      - d) Security payload overhead - addtl volumetrics (?)
      - e) Security Key Exchange add payload rqmts
      - f) Distributed DA Maint, DSDR, Volt / Var control use case rqmts
      - g) Configuration Mgmt - add use case(?) and payload rqmts
      - h) HAN (plus those for PLC technology consideration)
  - B. “Payload attrib LIC CIA rtnl” tab
    - i. proposed for release 5.0
      - a) document up the additional payloads description, attributes, and if applicable security LIC, C-I-A, and rationale per the established criteria/patterns in the other payloads.
- III. **Functional/Volumetrics database (Jerry Armes, Klaus Bender, Kelly Flowers, Matt Gillmore, David Gosch, Ron Cunningham)** – [Jerry is performing some additional review and tweaking of some query and parsing code to better extract usable data for assist in quantifying smart grid application network traffic needs as input into the spectrum needs for the utilities work effort.](#)

**Next Working Session / Conf Call(s):**

Tuesday 05Apr2011 3-4pm eastern – PAP2 urban / rural & sub-categories definitions.

Monday 11Apr2011 2-3pm eastern – normal SG Network TF weekly call

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.**

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