

SG-Network TF Conf Call Notes - DRAFT

Date/Time: 09Apr2012, 4pm eastern

Participants:

Matt Gillmore (chair)	John Buffington
Ron Cunningham (vice-chair)	Tim Godfrey
Bruce Kraemer	

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

Agenda Items / Major Discussions: [\[text in blue, post the conf call additional information\]](#)

PAP02 Activities Update – Ron indicated that the SDO sub-team had finished preparing their initial section 5 of the NISTIR 7761 v2 proposed edits and new content (excluding the content on the wireless modeling tool), and would be releasing that later this week to the full PAP02 group for their review and feedback. The wireless modeling tool content draft will be released later as the SDO sub-team is still working out all the inputs, calculations for both the propagation path loss and the payload latency/reliability calculations and the output specifics. Doug Gray did release a v3.0 of the wireless assessment tool to the SDO sub-team for review and comment. Ron is working with the SDO team in how the SG Network Model Area demographics and scaled & processed SG Network Requirements get input into the tool and creating the requested outputs. Discussed:

What were the expected deliverable(s) from this extended PAP02 work and who was the expected audience (consumers) of the deliverable(s). Of the PAP02 members on the call stated that:

- ⤴ the delivers were:
 - ⤴ revised NISTIR 7761 document that addressed more of one of the original PAP02 objects of providing guidance on the use of wireless technologies in the smart grid (based on an as normalized as reasonable view of the SG Network Requirements and the wireless standards and representative technologies/spectrum bands capabilities)
 - ⤴ a model-area wireless assessment tool (spreadsheet based)
- ⤴ the anticipated audience of these deliverable(s) includes:
 - ⤴ utilities - getting ready to deploy smart grids where use of wireless is anticipated or needing to augment that utilities understanding of the wireless standards and representative technologies by spectrum bands
 - ⤴ new smart grid device/application vendors - considering using wireless standard(s) technologies
 - ⤴ regulators – better understanding of wireless capabilities and/or limitations

SG Network SG Requirements – Ron indicated that there was not immediate priority placed on creating the additional SG Requirements [as noted in ToDo's as potentials for release 5.2, e.g. priority on getting the SRS out the door based on release 5.1 requirements]. There is some investigation tasks being worked by Ron at the moment in conjunction with the SGAC Semantics Model and the Conceptual Architecture efforts, specifically:

- ⤴ SG Network Requirements actor “harmonization” with the SGAC actors
- ⤴ extracting abstracted source-actor_message_consuming-actor profiles [\[Ron has](#)

an initial draft of taking the parent rows from/to actors, parsing out all the multiple from or to listed actors for each parent and referenced payload, THEN performing a pivot of that set of ~1700 unique from-actor_to-actor_payload records to identify ~300 unique triplets. By adding in the payload reliability and latency parent values, the pivot count of unique occurrences is ~500. Of course when decomposing the parents from/to actor pairs to include all the intermediary actors and their different reliability and latency values, that pivot count would end up being greater than the 500 unique parent from/to/payload record count.]

- ^ payload attributes feeding into building up an enterprise information model. [Ron was request (10Apr2012) to participate in the OpenSG EIM 10Apr2012 conf call to see if there is a need to have some collaboration with EIM concerning the SG Network deliverable(s) and their relevance to the EIM work and/or vice-versa . Ron will provide more details of the SG Network Requirements at the next EIM conf call 24Apr2012.]

Requirements Database Futures – Matt and Ron had discussions with Phil Beecher concerning Phil's offer to create a MySQL version of the Requirements Table content. [to accomplish this, the existing Requirements Table needs to have the embedded carriage return (line feed) removed from the cells]. Matt mentioned that more discussion with the OpenSG web-site support staff is needed as to whether there would be the potential to host a database would be a realistic possibility. Discussed:

What a re-platformed vision of the Requirements Database might be and the functionality provided e.g. database of the SG Networks Requirements with some minimal UI and basic queries; what other functionality is needed.

SRS Edits – Matt & Ron continue to work the SRS edits listed in the ToDo's section and then making that draft available for further review and content additions by the larger SG Network participating members.

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

I. **System Requirements Specifications** – the following items need to be updated:

Matt to solicit guidance and How-Tos to allow the numerous figures and tables to be linked into the master SRS source document to allow easier updating of individual figures, tables then allow the intended pdf format of the SRS regenerated as needed, versus all of the manual copy/paste format steps currently being performed.

sect 2.1.4 Deliverables – Matt to add in brief descriptions of the primary tangible deliverables e.g. SRS, Requirements Table, Reference Diagram, Application Payloads Table

sect 2.2.1.3 – Note: it is not expected that the mapping of the SG Network application payloads to CIM messaging will make it into the pending SRS deliverable [unless resources to perform that are identified and volunteered or engaged](#).

Sect 4:

- ^ Write the overview for each of the use cases
- ^ Matt, reconcile actor definitions with Andy Bordine
- ^ Section 4.*.3 needs Scenarios pasted in and described
- ^ NOTE that DA reference architecture is generic for DA use cases
- ^ Matt, <in progress> collapse Distribution Grid Management & other DA use

cases

sect 5 Appendix

- Matt to evaluate 5.5 change to landscape page formatting
- Ron to work up content to explain the minimal requirements and dependencies when selecting which use cases and application payloads are appropriate for specific Deployment profiles.
- Ron, <in progress> Add Method for adaptation of the requirements table information to specific analysis needs (Copy from NISTIR 7761v1 section 3, and modify)

II. Requirements Table - Release 5.2? potential use cases and needs

- A. Distributed DA Maint, DSDR, (Ron) Volt / Var control use case rqmts
- B. (Matt) Security payload overhead - addtl volumetrics (?)
- C. Security Key Exchange add payload rqmts
- D. PHEV and PrePay - add follow the money payload rqmts
- E. HAN (plus those for PLC technology consideration)

III. **Functional/Volumetrics database** – refer to “database-update-needs-29Aug2011.doc” file in the Rqmts-Database-wip folder for list of additional database coding needs.

Next Working Session / Conf Call(s):

Monday 16Apr2012 4-5pm eastern – normal SG Network TF weekly call

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