SG-Network TF Conf Call Notes - DRAFT

Date/Time: 18Apr2011, 2-3pm eastern
Participants:

Ron Cunningham (vice-chair)	John Buffington
Bruce Kraemer	Jojeta Jetcheva
David Gosch	Kelly Flowers
Derek Flickinger	Mark Thompson
Doug Gray	Mo Shakouri
Jerry Armes	

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

Agenda Items / Major Discussions:

Requirements Table draft1b for r5.0 – Ron walked through the proposed parent rows for the Feeder device firmware/program update payloads (ref the "Fdr-dev-Firmware-Prog-Updts" tab). Once the parent requirement rows are sufficiently defined, then the child rows will be added in. This will add another 8 new payloads and ~525 requirement rows across 30 payload requirement sets. Discussed:

- "how often" and that whether all feeder devices would have the same value. If not, then each feeder device would need their own specific payload requirements sets (as was done in Feeder DA Maint use case)
- payload size for the feeder device controller firmware/programs – need to validate per current utility experience
- clock periods of primary occurrence – is the 7am – 6pm applicable for especially the update conformation payloads

Agreed to and Action Items:

- for the time being go ahead and assume the same how volumetric requirements for all the feeder device controller firmware/program updates
- have the utility members report on the feeder device controller firmware/program payload sizes and the clock period for the update commands and the confirmations

Reference Diagram draft r0.7b – Ron noted one small teak to the data flow labels between the Field Tools actor and FAN Gateways. This was corrected and the diagrams re-posted with a different date but used the same r0.7b designation. This dated version should be considered stable to address most of the remaining requirement documentation needs.

Comm-Path Decision Points r0.2 – Ron walked through the r0.2 changes, primarily page 6 for more of the Distribution domain and Field Tool comm-path decisions.

PAP2 – next steps update/status – Ron indicated that several on this call are also engaged in the PAP2 extended scope work efforts. The current tasks are in defining how a smart grid deployment can be characterized/defined from which representative. Doug Gray briefly described discussions with the author of the Erceg wireless model and how it could be tweaked to handle the spectrum range 1 – 4 GHz with base station antenna heights in the 7-8 meter range. Work still needed on determining a decent

model for the spectrum <1GHz. Ron also indicated that there are some SGIP voting requirements that must be followed whenever PAP2 has a need for voting which also includes having established quorum of voting members. So all participants need to brush up on those requirements.

"Last Mile" Spectrum Assessment – Update/Status – Jerry walked through current work on a separate database that is special purposed to address the spectrum need assessment. A lot of this is structured to pull from USA census tract data circa 2000, noting that it contains house holds, square miles per census tract. With some additional modeling based on typical utility smart grid point characteristics for both AMI and Distribution, coupled with payload requirements driving traffic, it is hoped that this approach would be a reasonable proxy for the real world spectrum needs assessment across the USA as a whole. Jerry indicated that He and Klaus will be presenting at the mid May UTC meeting on this topic, so this was his work focus.

Requirement Database – Update/Status – Jerry indicated that if the charting capability was pulled from the database, this would make easier to port into newer versions of Microsoft Access e.g. 2007/2010. Additional work in this are still needed.

Ref Diagram to Rqmt Table Vetting Macro – David Gosch reported that the vetting macro work had been internally resourced as a back file task for Juan Oliver and that that effort needs a stable Reference Diagram to proceed. Ron indicated, he now believes the diagram should be in a stable state for the next 3-4 weeks.

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 Bemmel) – Need to continue to provide content especially for section 3.
   ◦ 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 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 payload requirements for the Feeder device firmware/program updates to the existing Firmware/Program Update use case (Ron)
            c) add 2 payloads for configuration update cmd & ack to a Distribution use case
            d) PHEV and PrePay - add follow the money payload rqmts

e) Security payload overhead - addtl volumetrics (?)
f) Security Key Exchange add payload rqmts
g) Distributed DA Maint, DSDR, Volt / Var control use case rqmts
h) Configuration Mgmt - add use case(?) and payload rqmts
i) 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) –** Consider removing the charting capability as currently coded to allow upgrading to Microsoft Access 2007/2010 versions.

Next Working Session / Conf Call(s):
Tuesday 26Apr2011 2:00-3:00pm eastern – PAP2
Monday 25Apr2011 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**.

         Dial **714-551-0021**
         Access Code: **738-908-066**