Performance Requirements, Standards, & Verification Task Team (PRSVTT) Minutes
October 27, 2017
Jim O'Brien (Jim.O'Brien@duke-energy.com) and
Farnoosh Rahmatian (mailto:frahmatian@nugridpower.com), Co-leads
Teresa Carlon (teresa.carlon@pnnl.gov), Support
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Actions from today's call:

- Farnoosh to follow up with Krish and Harold on the synchrophasor data under fault conditions document.
- Teresa and Farnoosh to follow up on the survey and its next steps. Teresa will create a draft "guidance" template for the survey and send to Farnoosh.
- Teresa will move the Control Applications up on the PRSVTT agenda and add Anurag as the lead.
- Jim O'Brien to reach out to Alison with regards to her suggestion on a project to look into the performance needs for oscillation detection. PRSVTT needs more guidance.
- Next call will be December 8th, please mark your calendar. Invite coming soon.

1. Roll call – see below. Jim led the call.   All

2. Outstanding projects update
   - PMU Application Requirements Task Force (PARTF) – Allen; a collaborator contributed a generator model validation example. Allen is working on getting it into the documentation and example has been posted on Github. Announcement will be sent out to the PARTF email ist.   Allen Goldstein

   - Synchrophasor data under fault conditions – Jim; Krish moved to another company and is in transition period. If you have any comments on the document that was circulated to the PRSVTT in July 2017, get those comments to teresa.carlon@pnnl.gov. If you would like to receive the document please email Teresa. Farnoosh will close the loop with Krish and Harold.   Krish Narendra

   - Survey of instrument transformers connected to installed PMUs – Farnoosh; excel file tweaked. Teresa and Farnoosh will meet after this call to discuss guidance. Teresa will create a Word template that can be used as a cover to the recipients explaining the purpose of the survey.   Farnoosh Rahmatian

3. Update on other activities – Standing Topics: All
    -   PMU Standards
        o P60255-118-1 (Ken Martin); Allen indicated they are done resolving
           the comments from the re-ballot, editorial only, no vote needed from
           IEEE side unless there are technical changes that come from the IEC.
           IEC is conducting a committee draft vote, ends around mid-
           November, meeting at joint technical working group in Jacksonville
           Florida in January 2018 to resolve any comments that come from the
           IEC side. Goal to be published in 2018.
        o C37.242 (Allen Goldstein); Allen asserted 242 is on track to get
           published after new PMU standard, monthly conference calls are
           making progress, Scott Mix (PNNL) was on the last call and he helped
           the attendees understand the cybersecurity issues of PMUs. Content
           will be added to 242 as a result of Scott's talk.

    -   C37.118.2 (Vasudev Gharpure); PDC Standards
        o PC37.247 (Vasudev Gharpure); The PDC standard (PC37.247) –
           standard is currently in ballot group formation, through about
           another 10 days or so. Plan to start work on 118.2 revision next
           week.
    -   IEEE PES PSRC C23 (Jim O'Brien) – Teresa's computer dropped call, ugh.
    -   IEEE ICAP/NIST (Allen Goldstein/ Ravi Subramaniam) Allen; Teresa's
        computer dropped call, ugh.
    -   GMLC Update – Tom Rizy; no updated at this time.

4. Other topics / new business   All
    -   PMU for control applications; Anurag asserted that he spoke with Vahid
        Madani and the path forward will be to create a document with what exists
        in the field, define what type of control classification, discuss customization.
        Anurag will start and document and have something for our next PRSVTT
        call.
    -   Future work? Jim; Alison had suggested we need a project to look into the
        performance needs for oscillation detection. Is this something that PRSVTT
        would want to look into? Frank asked if there was more guidance and Jim
        volunteered to follow up with Alison to get more information.

        The Synchrophasor Application Requirements and Benefits Metrics
        Guide by David Bertagnolli & Tony Weekes (et al.) was never completed.
        Here is a note from our PRSTT call in April 2014.

        Application requirements and benefits metrics, Weekes / Bertagnolli
        Tony – there were no comments received from the Knoxville breakout session
        and as such no progress was made. Frank Tuffner from PNNL is developing a
        similar document; this document includes latency. ***Action****: David B. suggested*
        Tony touch bases with Frank to see if either task team can benefit from each

other's research. Tony will set up a meeting with Henry and David for further discussion.

Around November 2014 PARTF was formed and took on this work. Frank Tuffner could confirm.
Allen added that he is NOT aware of anyone using the PARTF tool do conduct oscillation performance.

Next PRSVTT Conference Call   All
- **December 8, 2017 at 8:00am PT / 11:00am ET unless otherwise noted**.

Attendees

Allen Goldstein
Anurag Srivastava
Farnoosh Rahmatian
Frank Tuffner
Jim O'Brien
Mahendra Patel
Teresa Carlon
Vasudev Gharpure
Yi Hu