

Distribution Task Team (DisTT) Conference Call Minutes
June 2, 2016

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Teresa Carlon (teresa.carlon@pnnl.gov), Support

Email list address: naspi-taskteam-distribution@lyris.pnnl.gov

Attendees

Roll call – see list below. Call led by Sascha von Meier.

Mission Statement and Vision

After a mission statement has been agreed upon then it can be posted on the NASPI web site at the top of the respective task team page. Task team goals and objectives are typically outlined in a document.

NASPI's Best Practices for Task Team Collaboration

- The NASPI DisTT email address (naspi-taskteam-distribution@lyris.pnnl.gov) is not moderated. Members of this group are free to email this list as a method for communicating and collaborating with each other. We ask that you be considerate of others and not spam the members of this group.
- Teresa Carlon will create an area on the NASPI web site for the DisTT where working documents can be posted for downloading. It has been the practice of most of the NASPI task teams to email working documents between authors for collaboration, however, if the members of this task team would like to use a site such as Google Docs or SharePoint those are an option. If users of this group have another suggestion for collaboration on documents please let Teresa and Sascha know.
- Creating a DisTT library of references. There will be a location on the DisTT web page for collecting work related to the focus of this team. Once the web page has been created Teresa will send out a request to the DisTT asking them to submit publications/references they'd like posted on the NASPI web site. Please keep in mind NASPI has to be mindful of copyrights and cannot post papers that have been published/presented in a professional venue. NASPI can link to the source but cannot always post original work.
- Work products coming out of the DisTT can be posted on the DisTT web page. It is the practice of NASPI to post finished task team products on the main resource page located here: <https://www.naspi.org/documents>

Topics of Interest

- This task team is waiting to be shaped the interest of the participants. Might be a critical mass of people interested in synchrophasor application for distribution systems. Clear agenda or mission for this group will be explored in today's call.
- Charting interests, how does your particular work relate to distribution synchrophasors? Round table continues (~7:00-19:30+Sascha).
- For those of you not listed in the roster and want to be included in future calls/meeting please send Teresa Carlon your contact information (teresa.carlon@pnnl.gov).
- Sascha; group might want to do a white paper
- Where do you feel the next scoping study or white paper could go? If you had more time are there things you'd like to do? Frank Tuffner asserted he'd like to see more specific distribution use cases and what challenges did they run into. What benefits did the utilities see? Travis Smith would like to see further investigated is from the protection standpoint, specifically overcurrent

protection used. Different levels of communication. To have more advanced protection schemes there is a need for precise sensors. Like to see PMUs being used for that type of protection. Emma Stewart asserted she would like to see useful to review the types of PMU technology that has already been deployed and see where it has been useful and where it hasn't been useful. Use cases of lessons learned. Suggestion was made by Anna Scaglione; 1) a special panel session at a General PES meeting, which could generate minutes that become the backbone of the white paper. Perhaps that is too far out, but if individuals are asked to prepare their contributions in a thematic fashion, plus we generates minutes from the session, they could be assembled in a white paper draft. 2) following the white paper an IEEE Proceedings articles where different studies, experimental and theoretical, about PMU for distribution systems are surveyed. IEEE Proceedings papers have a broader and lasting impact in my modest opinion, more than white papers and may be worth the effort.

- Sascha reiterated Emma Stewart's comment about lessons learned – what is more useful than another installation and why?
- Reza Arghandeh asserted we should provide data sets so they can be used. Dedicated public data set for research and study purposes.
- Planning discussion at the PS General Meeting to collect notes to be the backbone of the white paper.
- Alex F; utility perspective, planning PMU distribution rollouts – questions around who has done this, lessons learned, larger scale deployments – sharing this information to the utility audience would be great.
- Sascha mentioned formulating standards and requirements. Any contributions from the transmission side that might be useful to the distribution side. Jeff Dagle wasn't sure who would be interested in developing a standard at this point, advice is not to push on this too quickly, useful technical guidance sometimes get picked up by professional organizations that may take a look at what has come out of NASPI. Focus on what is useful before guidance.
- Emma; online tool that displays events and allows users to leave feedback on what they see at the distribution level. Must have log in credentials. If interested email Emma Stewart (estewart@lbl.gov).

Action Items

- Teresa: create a DisTT working area on the NASPI web site where users can access DisTT resources. Resources for the NASPI Work Group are post on the main NASPI Resource page: <https://www.naspi.org/documents>
- All: provide feedback and additions on **attached** document "DisTT: Topics of Interest and Evolving Mission Statement"
- All: contact Emma Stewart (estewart@lbl.gov) if interested in learning more about the online event tool.

Call adjourned

Reference Material

Luigi Vanfretti –

- Link to software for model validation: https://github.com/SmarTS-Lab/iTesla_RaPIId
- Link to simulation and model validation: <https://github.com/SmarTS-Lab/OpenIPSL>
- Coupled to that you prepare a paper for Data in Brief: <http://www.journals.elsevier.com/data-in-brief/>

- Overview on PMU applications developed by Luigi's team:
 - 2015: <http://webhotel2.tut.fi/units/set/ide4l/Tampere04122015/PMU%20monitoring.pdf>
 - 2016: http://webhotel2.tut.fi/units/set/ide4l/Brescia/PMU-Based%20Real-Time%20Steady%20State%20Model%20Synthesis,%20DLR%20and%20Dynamic%20Analysis%20of%20Active%20Distribution%20Networks%20_Luigi%20Vanfretti.pdf

NASPI reference documents: <https://www.naspi.org/documents>

Attendees

Alex Flueck
Alex McEachern
Anna Scaglione
Ciaran Roberts
Daniel Dotta
David Bertagnolli
Emma Stewart
Francis Tuffner
Jeff Dagle
Luigi Vanfretti
Philip Odell
Reza Arghandeh
Sascha von Meier
Sumit Paudyal
Teresa Carlon
Travis Smith

Full Roster – if you would like to be on this list or know someone who should be added please send an email to teresa.carlon@pnnl.gov.

Alex Flueck
Alex McEachern
Alison Silverstein
Anna Scaglione
Chuck McPaarland
Chuck Wells
Ciaran Roberts
Damir Novosel
Daniel Dotta
David Bertagnolli
David Schoenwald
Emma Stewart
Francis Tuffner
Harold Kirkham

Jeff Dagle
Joe Eto
Luigi Vanfretti
Mahdi Jamei
Mehmet Hazar
Cintuglu
Omid Ardakanian
Raymond de Callafon
Reza Arghandeh
Ryan Sims
Sascha von Meier
Sumit Paudyal
Teresa Carlon
Travis Smith
Yilu Liu