

Distribution Task Team (DisTT) Conference Call Minutes

February 16, 2017 10-11 am PT

Sascha Von Meier (vonmeier@berkeley.edu), Lead

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

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

Attendees

Roll call – see list below.

Action Items

- Sascha/Teresa: put Alex McEachern on agenda for next call.
- All; invited to provide feedback and comment on Use Case papers.
- create a listing of existing distribution PMU research projects
- add to library of use case papers until we have a reasonable ensemble; specifically cyber-security
- identify gaps of foundational research needs that are not yet being addressed in the context of [GMLC](#) or other projects
- articulate valuation of analytics, building on NASPI value proposition paper (on website)
- reach out to DOD, Homeland Security with a view toward future research support

Ongoing Business

- Alex noted ongoing international research projects involving uPMUs, including Kyoto, Tokyo, Transylvania, and Singapore; described “Thumper”.
- Alison mentioned BPA tech innovation project involving distribution monitoring with PMUs. Alison also noted frustration with AMI data which can be limited in terms of interoperability and proprietary protocols.
- Emma provided update on GMLC activities and discussed four attachments.
- Harold noted some foundational research that is not yet addressed in GMLC activities, such as
 - what do we expect nodes to do when they lose communications?
 - who is doing software testing? can't afford failures
 - who is studying protection, e.g. return to previous settings after event? (Merwin noted Adaptive Relaying project)
- Sascha suggested we submit succinct comments & suggestions regarding research gaps to GMLC team.

Next Call

- The DisTT will be meeting face-to-face in Gaithersburg, MD.

Reference Material

Topics of ongoing work for this group include:

- Present practices, research, state of the art and challenges with distribution PMUs
- Distribution PMU applications and use cases
- Theoretical aspects of PMU measurements
- Technical requirements and specifications for distribution PMUs

Draft white paper outline ([Google docs](#)).

Table: [Data Requirements](#)

CRSTT Reference - [NASPI Diagnosing Equipment Health and Mis-operations with PMU Data](#) and the [event summary table](#).

U.S. Department of Energy Grid Modernization Lab Consortium ([GMLC](#))

Attendees

Emma Stewart
Harold Kirkham
Merwin Brown
Sascha von Meier
Teresa Carlon
Alison Silverstein
James Kleitsch
Alex McEachern
Jerry Schuman
Frank Tuffner