



Distribution Task Team (DisTT)

Conference call May 28, 2019

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Agenda for Today's Call

Mission statement review

Quick summary of past areas of interest expressed by members

Shared data update: Australian μ PMU data

Prospective next work product: Data Quality Requirements Study

Goals & Objectives discussion

Round Table

Mission Statement

The mission of the Distribution Task Team (DisTT) is to foster the use and capabilities of networked PMUs at the medium-voltage distribution level, beyond the substation.

This group will share information in support of effective research, development and deployment of distribution PMUs and their applications.

We aim to create a community to solve technical and other challenges specific to distribution PMU technology and context.

See www.naspi.org/distt

DisTT Past Activities

Work product: White paper

Internal presentations and discussions

Online survey

Shared measurement data

NASPI-2018-TR-001



Synchrophasor Monitoring for Distribution Systems:

Technical Foundations and Applications

A White Paper by the NASPI Distribution Task Team

January 2018

<https://www.naspi.org/node/688>



Public μ PMU data

courtesy of Prof. Liz Ratnam, Australian National University

<https://plot.research.predictivegrid.com/select>

username: anu_public

password: Canberra

apikey: A37C1C2F540CD68EB229D530

1. One μ PMU is (hardwired) connected to all three phases of a LV (240V) distribution board that supplies a laboratory-based building. This μ PMU is located on the incoming supply.

2. The second μ PMU is designed to be portable, and so just a single phase is connected via a general purpose outlet. Presently, this μ PMU is connected to the rooftop of the same laboratory-based building.

More data for sharing, anyone?



DisTT Areas of Interest

- DER behavior and recruitment
- Black start and islanding, recovery from extreme events
- Event Identification, deep learning
- Optical sensors vs. potential and current transformers
- Impact of number and heterogeneity of sensors

Going forward: Form focused study groups on some of these items?

Anyone interested in leading?



DisTT Areas of Interest

- Defining distribution PMU data quality needs
- Understanding the value of synchronized non-phasor data, point-on-wave data

Proposal: Data Quality Requirements Study

Produce a joint study with CRSTT focused on what we know today about data quality requirements of various applications for synchronized measurements, in both transmission and distribution settings

Next Steps: Refine Outline, Work Plan, Section Assignments

Objective: Rough draft by next WG meeting?

https://docs.google.com/document/d/12n1Ca8abhbReiEongxFONq5g_IPhNqswrXuojl3GWHM/edit



DisTT Goals & Objectives

What should we aim for this year?

New schedule for conference calls: Last Tuesday of each month

Proposal: following CRSTT, 10:45 – 11:30 am Pacific

Do we want to have joint meetings with DisTT & CRSTT?

Technical presentations?

Next call Tuesday, June 25, 2019



DisTT Logistics

Workspace <https://spteam1.pnnl.gov/sites/naspi/distt/default.aspx>

Request access from Teresa Carlon, teresa.carlon@pnnl.gov

Using the email list

naspi-taskteam-distribution@lyris.pnnl.gov

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