

Data Network & Management Task Team (DNMTT) Minutes

Co-leads, Jim McNierney (JMcNierney@nyiso.com) and

Dan Brancaccio (dbrancaccio@bridgeenergygroup.com)

Teresa Carlon, NASPI web site and listserv contact (teresa.carlon@pnnl.gov)

May 11, 2016

Attendees

Roll call – see list below. Jim McNierney led today’s DNMTT call.

Meeting Notes

Considerations for future efforts yielding tangible work products are:

- **Middleware** – there still seems to be very little use of Middleware within synchrophasor applications systems deployed today. The group was considering putting together a work product paper that would outline the potential benefits of deploying middleware in a utility centric environment.
- **Fragmentation of UDP packets in communications networks.** In deployments of a large amount of PMUs and the utilization of C37.118-2005, fragmentation of UDP has been cited as a pain point in a lot of synchrophasor networking deployments. It was discussed that the group could put together some lessons learned and best practices in contending with excessive fragmentation of UDP.
- **Registry XML effort** – again for large number of PMUs, how are utilities tracking all of these and as the entities are building out infrastructure to share the data with other entities it sees that the deployment of a registry would facilitate a great many benefits. Within the original NASPI net specification there was detail around the role of a registry in a large publish/subscribe paradigm. The group is considering what items would need to be included in such a registry, the benefits of a common registry and the future build-out of APIs that might be able to systemically access and use the data housed in the registry. The Internet’s use of DNS might prove to be a useful model.
- **Software Defined Networking (SDN)** – The group discussed putting together a paper that would describe some of the benefits and roles that SDN could bring to networks that are supporting the exchange of synchrophasor data.

Project Updates

- McNierney; new problem of time sources, issues when data is exchanged based on clock synchronization, perceived time lag may have manifested itself due to inconsistent installations.
 - o Terry Jones noted the new Time Synchronization Task Force (TSTF), getting plugged in might be beneficial, a time source at PMU or a remote time sources, Terry has offered to have further discussion offline.
 - o David McKinnon; regarding PDC’s are not using a strong synchronized time source, adding own time stamp all over the map, as compared to the precise GPS timestamp from the PMU? Jim replied “strong suspicion.”
- Dan Brancaccio accidentally scheduled a registry data exchange call at the same time as today’s DNMTT call. Callers on the DNMTT call left to join Dan’s call. Teresa did not receive an invite and therefore did not attend Dan’s call. Several attendees in our DNMTT call dropped off to join Dan’s registry call.

Action Items

- Submit any data exchange use cases to Dan Brancaccio.

Reference Documents

[NASPI DNMTT web site](#)

Next D&MTT Conference Call

- **June 8, 2016, DNMTT breakout session in Atlanta, GA.**

Attendees

Artis Riepnieks
Bob Braden
David McKinnon
Dayna Aronson
Dick Willison
Jim McNierney
Matt Halladay
Ralph Mackiewicz
Ryan Nice
Teresa Carlon
Terry Jones