

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)

January 13, 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.

New Business

- Registry; **Task force members:** Dan Brancaccio, Ryan Nice, David McKinnon, Paul Myrda, Matt Halladay, and Jim McNierney.
- SDN; Dan Lutter is currently working on a Software Defined Network (SDN) that might work as a use case. Dan has agreed to charter this effort.
- Middleware; Jim McNierney suggested that Dave Bakken take on this effort.
- Ryan Nice's presentation on data quality flags / registry enhancements.

Action Items

- **Jim McNierney**; will contact Dan to get a list of folks who volunteered to help with the task force registry. (teresa.carlon@pnnl.gov). Teresa has recorded the following volunteers: Dan Brancaccio, Ryan Nice, David McKinnon, Paul Myrda, Matt Halladay, and Jim McNierney. If your name is not listed here and you would like to help please contact [Dan Brancaccio](#).
- **Dan Lutter**; SDN effort.
- **Teresa**; distribute Ryan's slides to the group for information and comments.

Reference Documents

[NASPI DNMTT web site](#)

Next D&MTT Conference Call

- **February 10, 2016 @ 12:30pm PT / 3:30pm ET**. The conference calls are typically scheduled for the **second** Wednesday of the month unless otherwise noted.

Attendees

Dan Lutter
Dave Bakken
David McKinnon
Dick Willison
Frank Tuffner
Jim McNierney
Matt Halladay
Michael Luna
Ralph Mackiewicz
Ryan Nice
Teresa Carlon
Terry Jones
Yi Hu