

North American SynchroPhasor Initiative (NASPI)

Data and Network Management Task Team (DNMTT)

Meeting Minutes

March 6, 2009

9:30am - 10:30am PDT / 12:30pm - 1:30pm EDT

Via Live Meeting and Teleconference

A meeting of the NASPI Data and Network Management Task Team was held on March 6, 2009 via Live Meeting and teleconference. 13 participants were in attendance. The attendance list can be found in Appendix A. The following action items and agreements resulted from the meeting.

NEXT MEETING

Next meeting of the DNMTT will be March 20, 2009. This meeting will focus on naming standards.

ACTION ITEMS AND AGREEMENTS

1. [Kris Koellner and Paul Myrda](#). Review all action items below to determine if any are still open or need tracked.
2. [Sushil Cherian](#). Continuing to lead the effort to identify known failure modes. Still worth pursuing, have a draft. **Recommend to post pone but need to be handled in the future.**
3. **ALL**. Send Sushil comments, input and feedback on the spreadsheet for known failure modes.
4. [Himanshu Khurana](#). Continuing to lead the effort to determine the next generation PMU features. **Focus on those features specific to DNMTT. Still worth pursuing maybe, after we get the spec it might shed some light on features that we might want to pursue. Post RFP finalization.**
5. [David Chassin](#). Continuing to lead the effort on the roles of the PDC inside NASPInet. **This is overcome by events, but we may want to validating that this did take place is all that needs done.**
6. [Dave Bakken](#). Continuing to lead the effort for documentation on system conventions (Utilities).
7. [Paul Myrda](#). Will investigate some industry performance statistics from places liked Cisco to see what is really out there.

CONTACT INFORMATION

- Data and Network Management Task Team
 1. Chair – Paul Myrda, EPRI, pmyrda@epri.com.
 2. Co-chair – Kris Koellner, SRP, Kris.Koellner@srpnet.com

- DNMTT Website: <http://www.naspi.org/meetings/dnmtt/dnmttmeetings.stm> . Contact: Ranata Johnson, PNNL, (509) 375-6311, ranata.johnson@pnl.gov.
- DNMTT SharePoint Site: <http://www.eippshare.org/dmtt/default.aspx>. Contact: Ranata Johnson, PNNL, (509) 375-6311, ranata.johnson@pnl.gov.

MINUTES

Notes from the meeting are as follows.

1. Kris Koellner and Matt Donnelly briefed the team on the report out for the February meeting in Phoenix. The top issues discussed were:

- Data format for historical data
- Naming convention
- Level of data granularity
- Security

See the detailed report out on the D&NMTT web site for details

<http://www.naspi.org/meetings/workgroup/workgroup.stm> under Task Team Reports.

2. Matt Donnelly briefed the team on the discussion on hierarchical naming scheme for signals and some different perspectives that were worth sharing. “Dave Bakken continued to explain that he favors a hierarchical naming scheme for signals separate from the GUID. I asked if the internet analogy held—that a URL is a hierarchical name whereas an IP address is not necessarily hierarchical.” Matt wanted to share this opinion. We tried to come up with a hierarchical scheme and ran into difficulties. Ken was the “point man” for this effort. Inside the NASPI net project team the discussion went kind of like this:

- Let’s use company names like `bpa.slatt.bus1.voltage.aphase.filtered` – but company names change all the time; what if someone changes the filter, then do we say “filter1”, “filter2”, etc?
- Let’s use geography names like `usa.oregon.slatt.bus1.voltage.aphase.filtered` – what if there are two slatt substations in Oregon?; this doesn’t solve the “filter1”, “filter2” problem; what happens when someone changes out a CT feeding that PMU? That should be a new signal but the name is already taken. How would users 2 months from now be able to tell the difference between signals from the old CT and the new CT?
- OK, let’s scrap hierarchical naming in favor of a metadata approach. With metadata we can specify an unlimited amount of information such as filter type, CT class, etc. Then one only needs to query “What are all the 500kV BPA substations in Oregon?” and Slatt would come up in the list. We felt that “smart” user applications would make this query very easy to the user. In fact, we felt that the user could simply type in “`bpa.slatt.bus1.voltage`” and the query engine could be smart enough to query the metadata and come up with the right signal. If someone changes out a CT, for example, they simply need to register a new signal with new metadata.

In summary, I have tons of respect for Dave and feel strongly that we should pay attention to his comments. And maybe my mind is not quite dissecting the differences between URLs and signalIDs yet. But in this case I feel that the metadata approach allows NASPInet maximum flexibility with very little negative impact.

The team decided to meet again in 2 weeks, and then adjourned.

Appendix A:

Attendees		
Last Name	First Name	Affiliation
Bakken	Dave	WSU
Chassin	David	PNNL
Dagle	Jeff	PNNL
Donnelly	Matt	Quanta
Geiling	Don	DOE-NETL
Gillerman	John	SISCO
Johnson	Ranata	PNNL
Khurana	Himanshu	
Myrda	Paul	EPRI
Yi	Hu	