

Data & Network Management Task Team

February 5th, 2009 Scottsdale, AZ



• • D&NMTT Charter

 Data & Network Management Task Team - The scope of the Data and Network Management Task Team includes the development of the hardware and software requirements to collect and store the PMU data at a master storage site(s). The group is also responsible for defining the communications requirements from the PMU(s) or local storage site(s) to the master storage site(s), and development of future network architecture options.

Scottsdale Team Composition

- Dave Anderson 1
- Dave Bakken 2.
- J. Ritchie Carroll 3.
- Don Geiling 4.
- Yi Hu 5.
- Ken Martin 6.
- Matt Donnelly 7.
- Ken Hopkinson 8.
- Carl Hauser 9
- Reynaldo Nuqui 10.
- Scott Hilbelink 11.
- Matt Rhodes 12.
- Dave Norton 13.
- Himanshu Khurana 14
- Jeff Dagle 15.
- Sushil Cherian 16

Task team leadership: Paul Myrda Kris Koellner

Washington St. University Washington St. University TVA DOE NETL Quanta Quanta Quanta Air Force Institute of Technology Washington St. University ABB American Transmission Company SRP Entergy UIUC PNNI Kalkitech

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NASPInet Spec Update

• NASPInet specification RFP awarded by DOE/NETL to Quanta on 9/27/08

• Upcoming milestones:

- Rough draft spec review
- Valley Forge input gathering
- Final draft specification due
- NASPInet Review Team Call
- NASPInet Review Team Call
- Final delivery; end of contract

2/4/09 2/10/09 3/27/09 3/30/09 4/20/09 4/27/09

NASPInet Spec Top Issues

- 1. Data format for historical data not constrained
 - Answer ID needs to match Question ID
 - Class (D) needs to be specified
- 2. Naming convention
 - Name service provides unique identifier minimum 128 bit (GUID)
 - Meta data fields, incl. universal naming field (per outside directive)
 - Naming support down to the channel level, incl. digitals
- 3. Level of data granularity
 - Services will support signal level granularity
 - Data bus traffic will be C37.118 message format for streaming data
- 4. Security
 - CIP compliance
 - Must discern varied requirements across different classes
 - Access control vs. encryption
- Ensuring interoperability among vendor community, post-spec
- Quanta deliverable vs. next steps (pilot, procurement, etc.)
- Quantifying description of service classes (latency, availability, etc.)



Ongoing action items



Task		Lead
1.	NASPInet Draft Specification	Quanta/RFP Team/NETL
2.	TVA PCS Work	Ritchie/Robertson/Trachian
3.	NASPInet promotional article	Myrda
	 What it is, why needed 	
4.	Next generation PMU features	Khurana
	 To feed into IEEE standards cycle 	
5.	System conventions and utilities	Bakken
	 Naming convention for example 	
6.	System failure modes & effects analysis	Cherian
	 What fails, why, and how to handle 	
7.	Role of PDC in NASPInet	Chassin
	 Compare/contrast with PG function 	

- DNMTT will be meeting via conference call to continue work on these items join us! Next call TBD.
- o http://www.naspi.org/meetings/dnmtt/dnmttmeetings.stm