



# Data & Network Management Task Team D&NMTT

Focus

2024-2025



North American  
SynchroPhasor  
Initiative

# Online Meeting Dates and Times

- Occurs the third Thursday of every 1 month(s) effective 1/16/2025 until 10/23/2025 from 9:00 AM to 10:00 AM PT

# Data Sharing

- Data Sharing
  - Risk vs Reward
  - PMU and Measurement naming convention
  - File Formats for Data Exchange
    - COMTRADE
    - JSIS
    - Other
  - Real Time (report rate) vs. Archived
  - Meta Data
    - *Get some value from the new 256-character limit*
  - NASPI NET 1.0 and 2.0

# Communication Protocols

- Communication Protocols
  - IEEE C37.118.2-2011 (what's new in 2023)
    - Vendor Support
  - IEC 61850 (-90-5)
    - Status
  - IEEE STTP IEEE 2664-2024
    - Implementations Lessons Learned
- Bandwidth requirements
  - POW sample rate vs report rate

# PMU Registry

- Recommendation on need for central repository of unique Device 16-bit IDs
- Review original NERC DEWG allocation of 16-bit IDs to various entities
- Recommend requirements for a PMU registry application
- Does anyone care?
- Where to host?

# Data Archive

- Compression
- Duration
  - Long
  - Mid
  - Short
- Backfilling (STTP)
- Down sampling e.g., LSE
- Vendors – any new solutions
- COMTRADE

# Time Synchronization

- GPS (GNSS)
- PTP & LTE hard to deploy?
- Failure Modes
- Redundancy

## Meta Data

Get :

Field	Example	Characters (includes comma)
Name	DC-MW <sub>3</sub> .VA.ANG,	21
Nominal Voltage kV	NV=500, NV=14.7,	7
Phase	P=A, P=+,	4
Reference Voltage <sup>1</sup>	RV=7, RV=22,	6
Reference Angle	RA=MW.5L.B <sub>41</sub> M-A:DC-MW <sub>3</sub> .VA.ANG,	43

Note 1: reference to a voltage in the same config frame just needs the index of the value



# Data & Network Management Task Team

- Dan Brancaccio
- [Dbrancaccio@Quanta-Technology.com](mailto:Dbrancaccio@Quanta-Technology.com)