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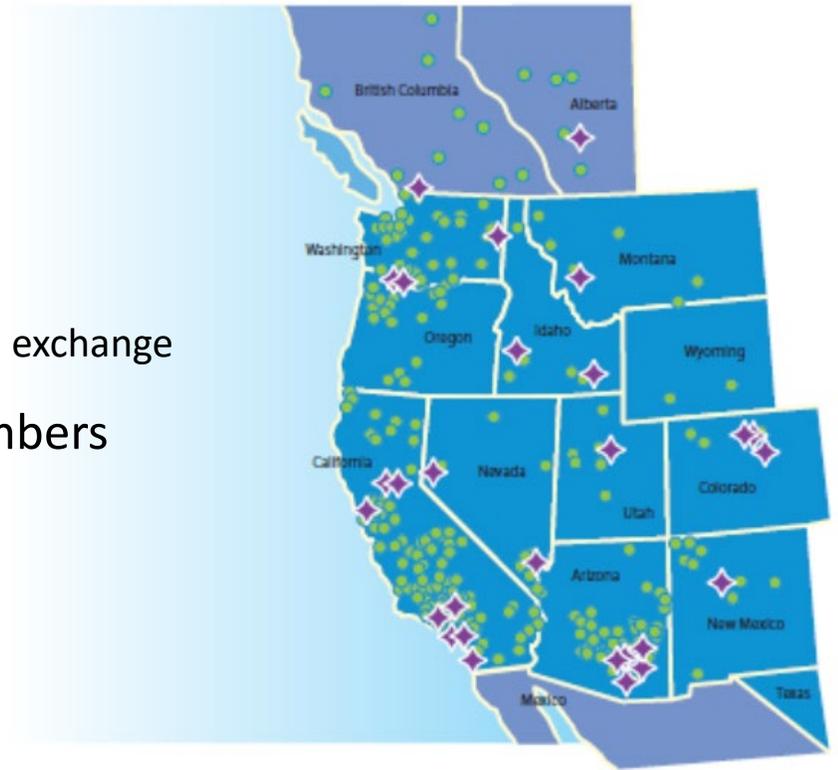
*Lessons Learned*

# Western Interconnect Synchrophasor Program (WISP)

NASPI  
October 2021

# WISP Overview

- WISP deployed:
  - Upgraded, replacement or new Phasor Measurement Units (PMUs) – 400 devices, approximately 2400 signals
  - Phasor Data Concentrators (PDCs) and Super PDCs – 62 devices
  - Historical data archival systems at Peak RC
    - Archived data available to all participating members
  - Purpose built dedicated Wide Area Network (WAN)
    - Available to all participating members for peer-to-peer synchrophasor data exchange
  - Shared Wide Area View (WAV) available to all participating members



- Data Sharing

- PMU and Measurement naming convention

- [WISP PMU and Signal Naming Convention](#)

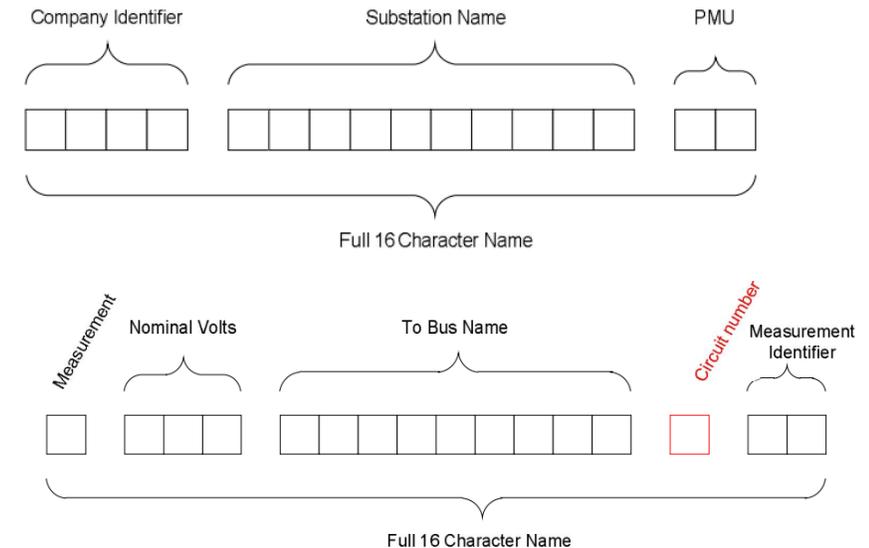
- File Formats for Data Exchange

- COMTRADE

- JSIS

## Real Time vs. Archived

- Meta Data



- Communication Protocols
  - IEEE C37.118.X-XXXX
  - IEC 61850

### ■ PMU Registry

- Used for central repository of unique Device 16-bit IDs
- Limited to original NERC DEWG allocation of 16-bit IDs to various entities

# *Thank you!*

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