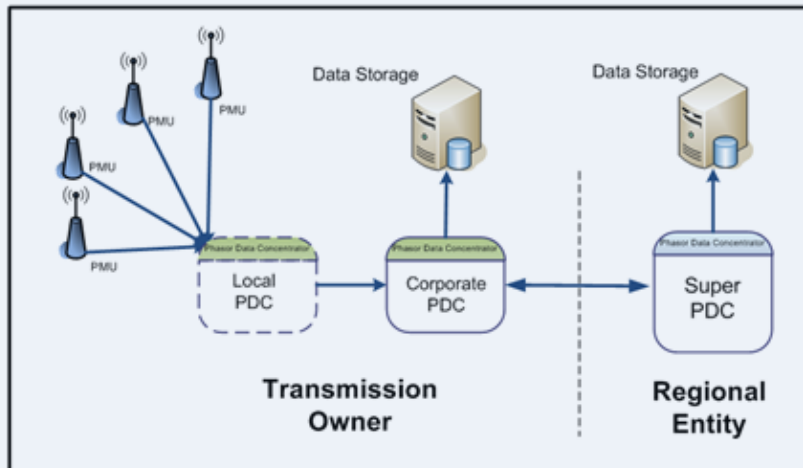




SynchroPhasor Data Systems

**Work Group Meeting
October 17-18, 2012
Atlanta, GA**

Synchrophasor Data System



Applications

- Situational Awareness
- Decision Support
- Real-Time Analysis (SE/CA)
- Planning
- Automated Control

Applications can be connected to a PDC at any level in the Synchrophasor Data System

- **Architectural Considerations:**

High-Availability & Disaster Recovery, Intra & Inter site failovers, archival systems selections etc. built in & Rational for choosing various options

- **Performance Monitoring systems for monitoring & reporting both aspects above**

- **Operational Support**

(Notifications - How, when, what levels, 24-7?, when to alarm TOs, requirements on TOs to restore Data Networks, Scheduled outage notifications requirements, Level of Integration with other Control Center Systems)

- **Design Goals for Data & Systems**

For Example:

- **Data:**
99.99% data available, 99% with STAT = 0, & 90% with End-to-End Latency < 100 ms (all per Hr.)
- **Systems**
Each PDC available > 99.99%, Each major application individually (without resorting to back up) available > 99.99% (per day)

Magnus Danielson

Net Insights

Jing Liu

PJM

Dan Brancaccio

WECC

Scott Staples

MISO

Vahid Madani

PGE

Jim McNierney

NYISO