

Member Communications Issue

Technical Update &
Solutions Matrix Overview

September 26, 2013

Real time electrical system data exchange



PJM EMS



**100 +
MW
Capacity**

- Telecommunication circuits installed by PJM .
- Connection may or may not be redundant, and may also include an additional circuit to a member's disaster recovery/back up location.
- PJMNet Connection is not synonymous with a telecommunication circuit.

- ICCP
 - Redundant circuits required

- DNP3 / RTU
 - Redundant circuits evaluated on impact to PJM system
 - Connection may or may not be redundant
 - Single Telcom circuit
 - Redundant Telcom circuit

- **Transmission Companies:**
 - Required by PJM for System Reliability purposes
 - One connection per transmission entity
 - PJM decides eligibility for connection

- **Generation Companies:**
 - Eligibility dependent on Generation capacity
 - Generation MWs must be greater than Threshold
 - Generating Station under the Threshold connect through Internet SCADA
 - One PJM Connection per Voting Member
 - Generator, Market Operation Center, Group of Generators

PJMNet connections available for Voting Members

- For Voting Member Companies that meet some or all of the following requirements:
 - Are not eligible due to generating capacity below current Threshold
 - Already have an valid existing PJMNet connection under their voting membership and desire additional connections
- Cost Allocation
 - PJM will pay for all connections they deem necessary for reliability purposes
 - Voting member companies can purchase up to 5 additional connections

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- For Voting Member Companies that meet some or all of the following requirements:
 - Are not eligible due to generating capacity below current Threshold
 - Already has a valid existing PJMNet connection under their voting membership and desire additional connections
- Cost Allocation
 - All voting member companies required to purchase first connection
 - PJM will pay for any additional connection they deem necessary for reliability purposes
 - Voting member companies can purchase up to 5 additional connections