



# Member Communications Issue

Technical Update &  
Solutions Matrix Overview

September 5, 2013



**PJM EMS**

**Real time electrical system data exchange**



**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



## Package A

Single Member-paid PJMNet connection available for Voting Members who do not qualify for a PJMNet connection under Manual 14-D

- For Companies not eligible due to generating capacity below current threshold:
  - Voting Members may purchase one PJMNet connection
    - Non-redundant PJMNet connection
    - Redundant PJMNet connections
- Type of Voting Member
  - Generator, Market Operation Center, Group of Generators



## Package B

### 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



## Package C

### 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 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