

Power System vs. Communication System

- Power System
- Communication System



Communication in ICS

- Between what?



Enterprise Technology

- Characteristics
- Performance expectations



Operational Technology

- Performance expectations
- Characteristics



Operational Technology-Characteristics

- Simplicity versus complexity
- Redundancy
- Security



Data Transmission



Communication Considerations

- Applications using data (data types)
- Resilience of the communication



Additional Considerations

- Quality of service
- Scalability
- Security
- Reliability
- Affordability
- Maintainability



Standardization & Interoperability

Allow Mixing Equipment from Vendors



Communication Topologies

- Physical versus logical
- Point to point
- Multidrop
- Bus
- Ring
- Star
- Mesh

