

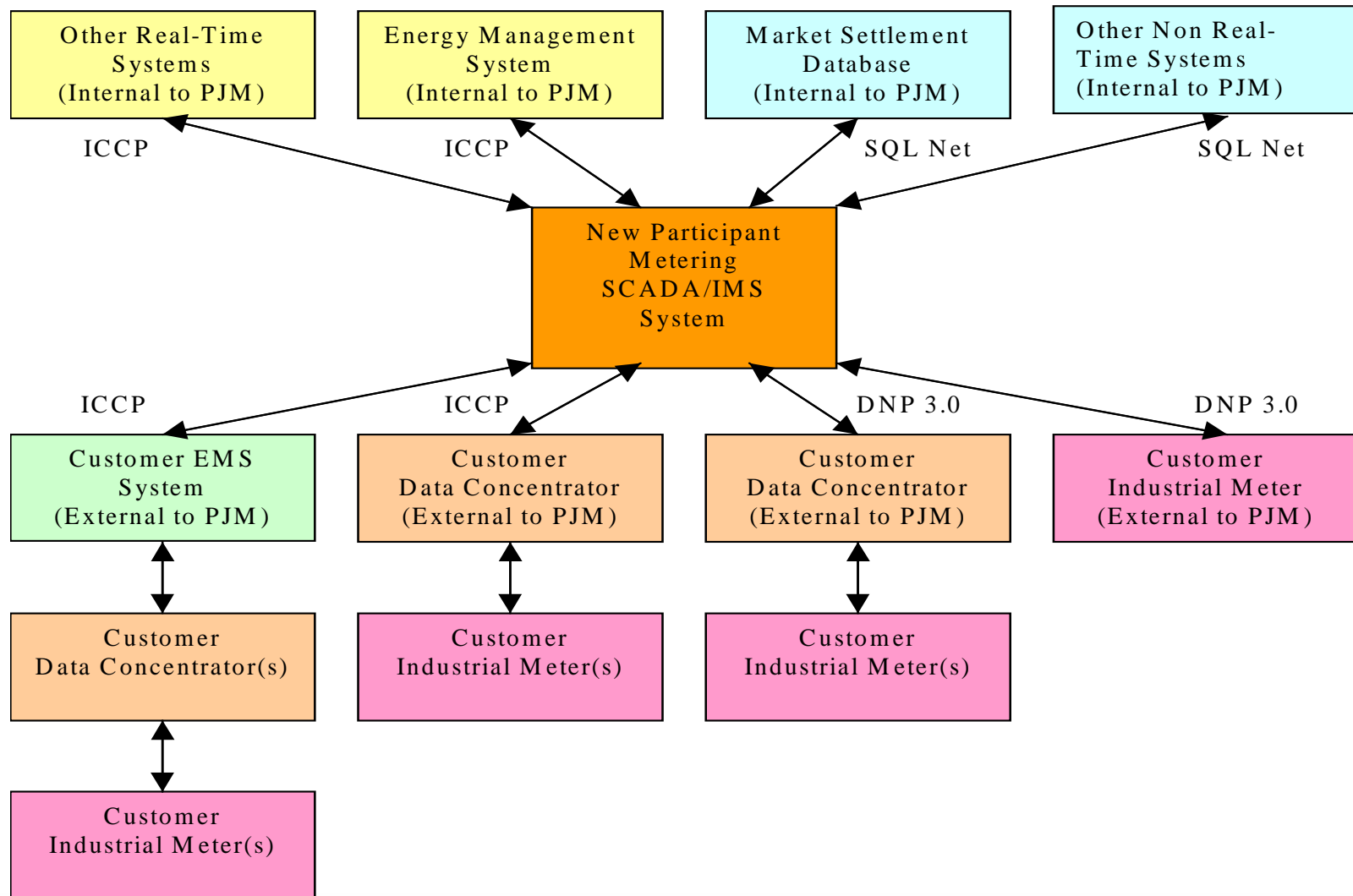


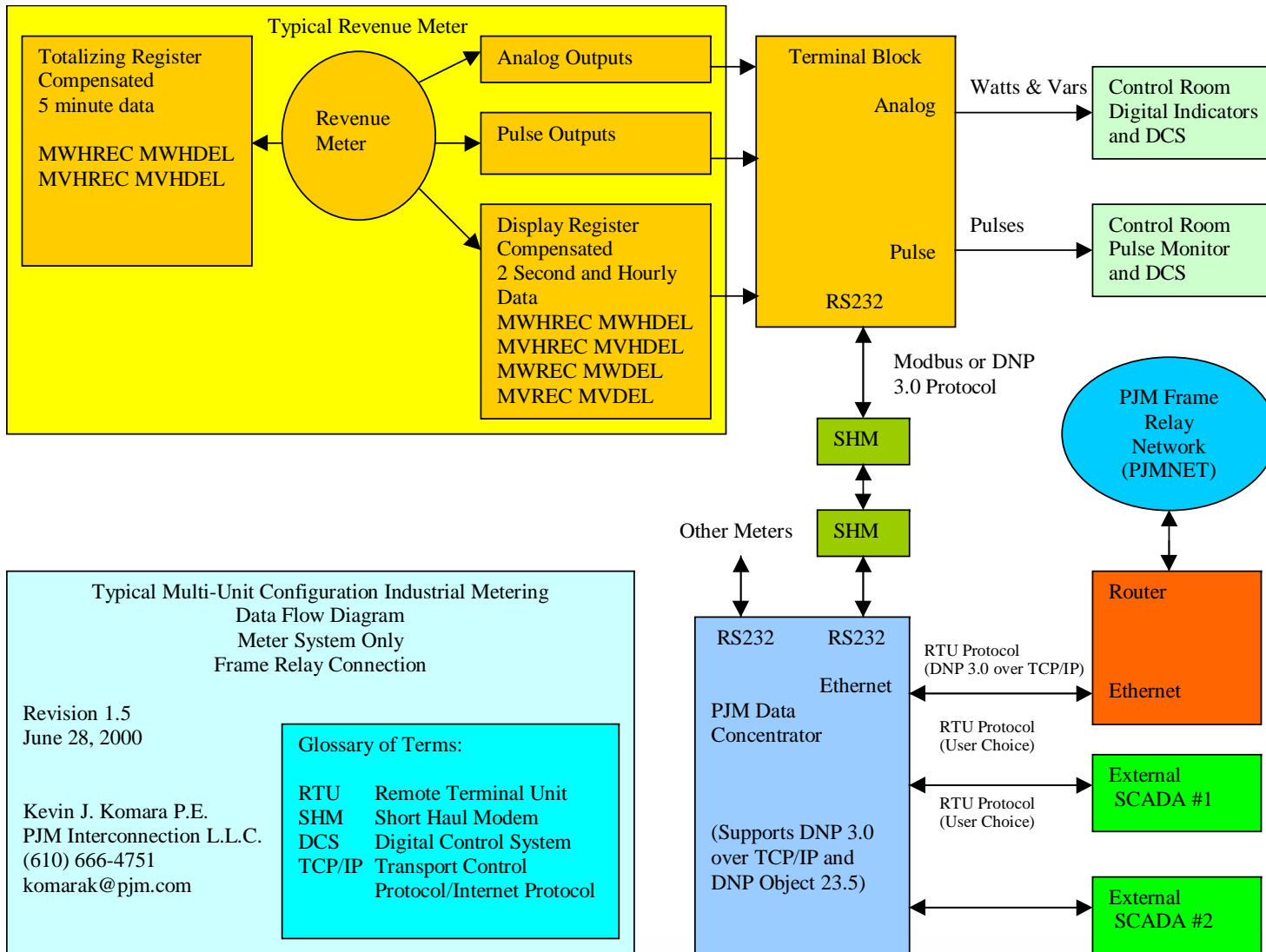
# **New Participant Metering**

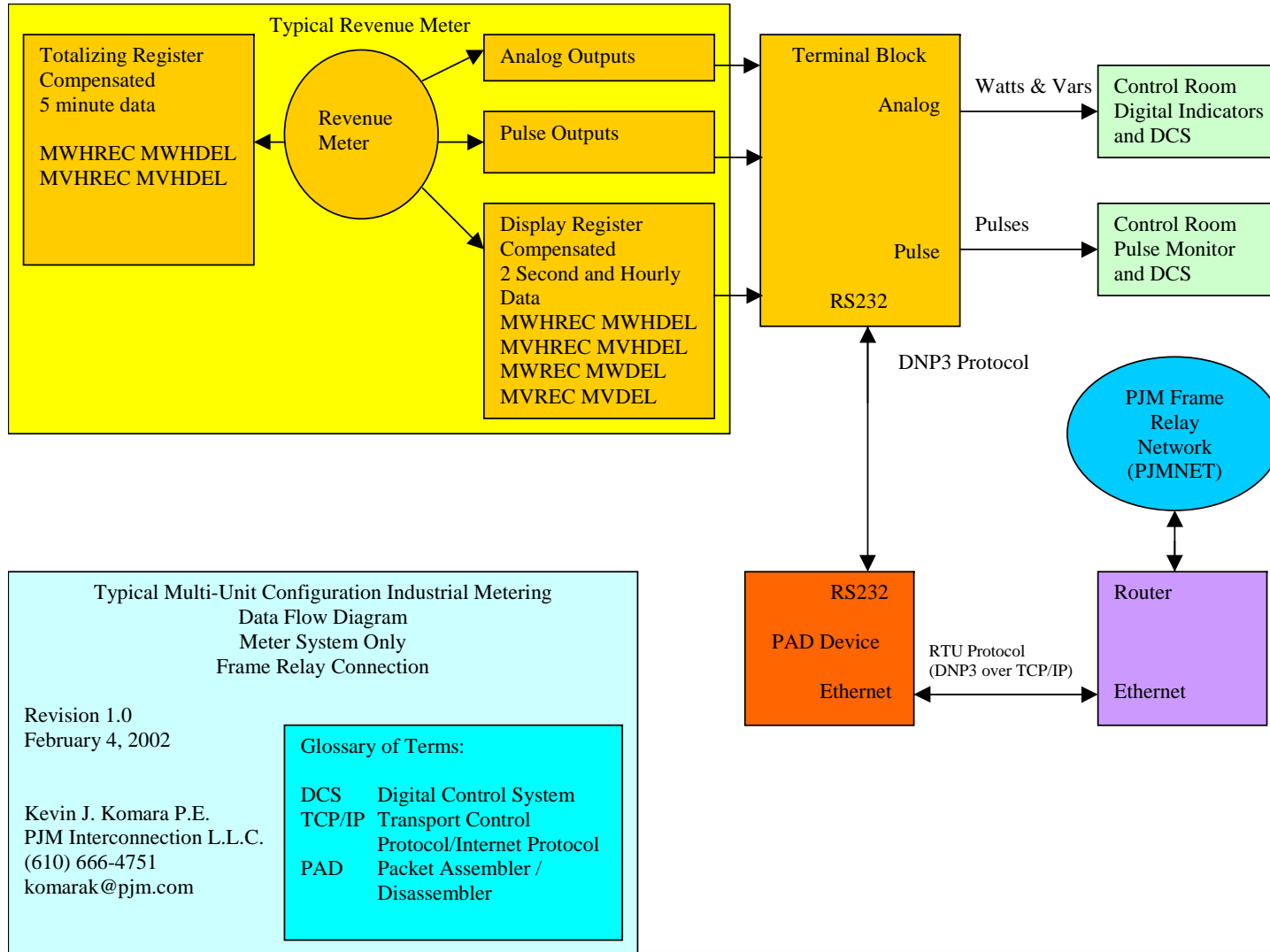
# **MODULAR SCADA/IMS SYSTEM**

**Kevin J. Komara P.E.**  
Project Manager  
New Participant Metering System  
PJM

- **Optional**
  - PJM offers interface as a value added benefit to enhance customer experience with PJM.
- **Flexible**
  - Supports current Digital Communications Network (*PJMnet*) as well as legacy serial communications.
- **Scaleable**
  - Very Small/Small/Medium/Large solutions.
- **Reliable**
  - Integrated Development, Test, Off-Site Backup, and redundant Production systems.







Typical Multi-Unit Configuration Industrial Metering  
Data Flow Diagram  
Meter System Only  
Frame Relay Connection

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**Glossary of Terms:**

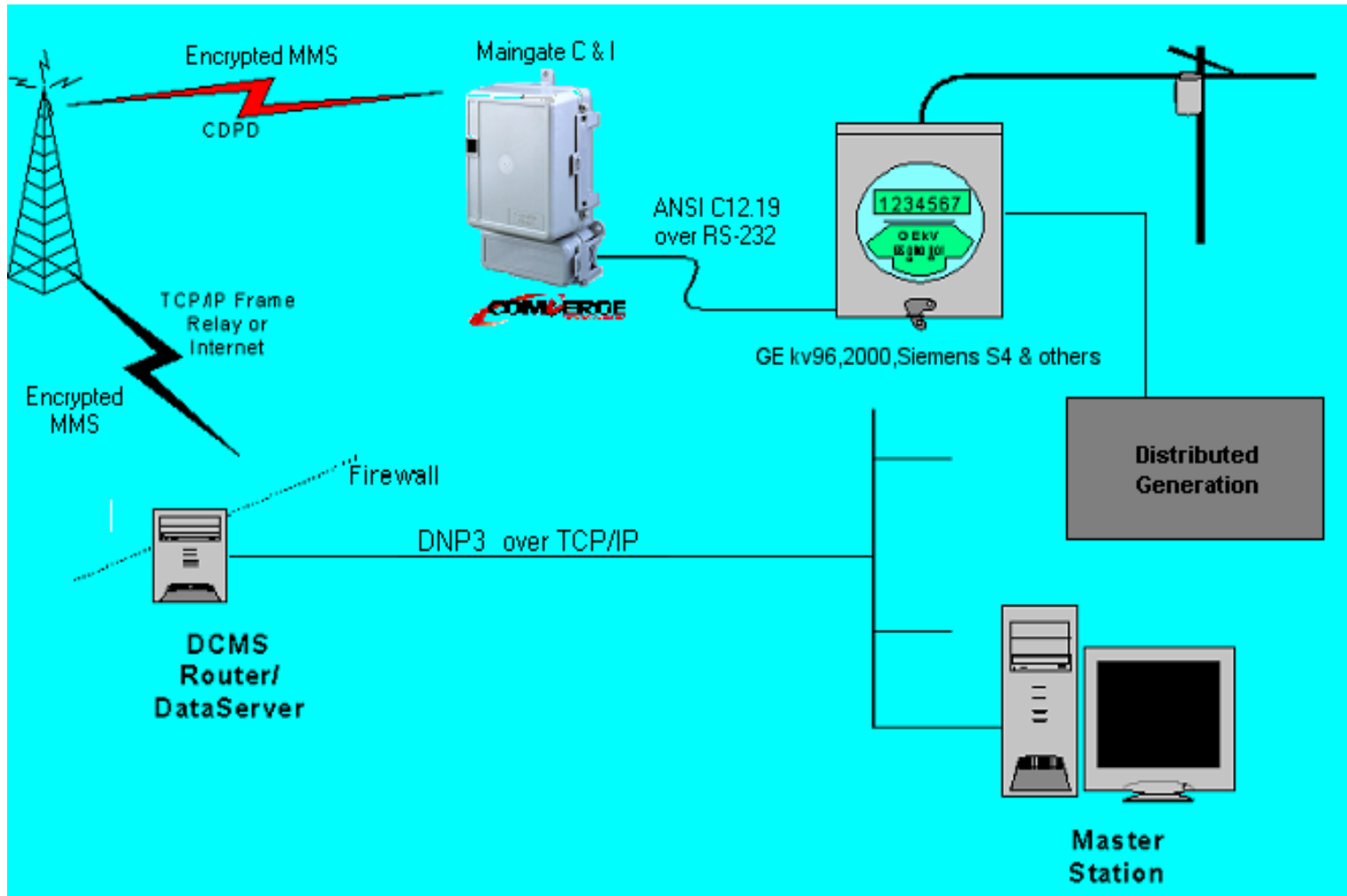
- DCS Digital Control System
- TCP/IP Transport Control Protocol/Internet Protocol
- PAD Packet Assembler / Disassembler

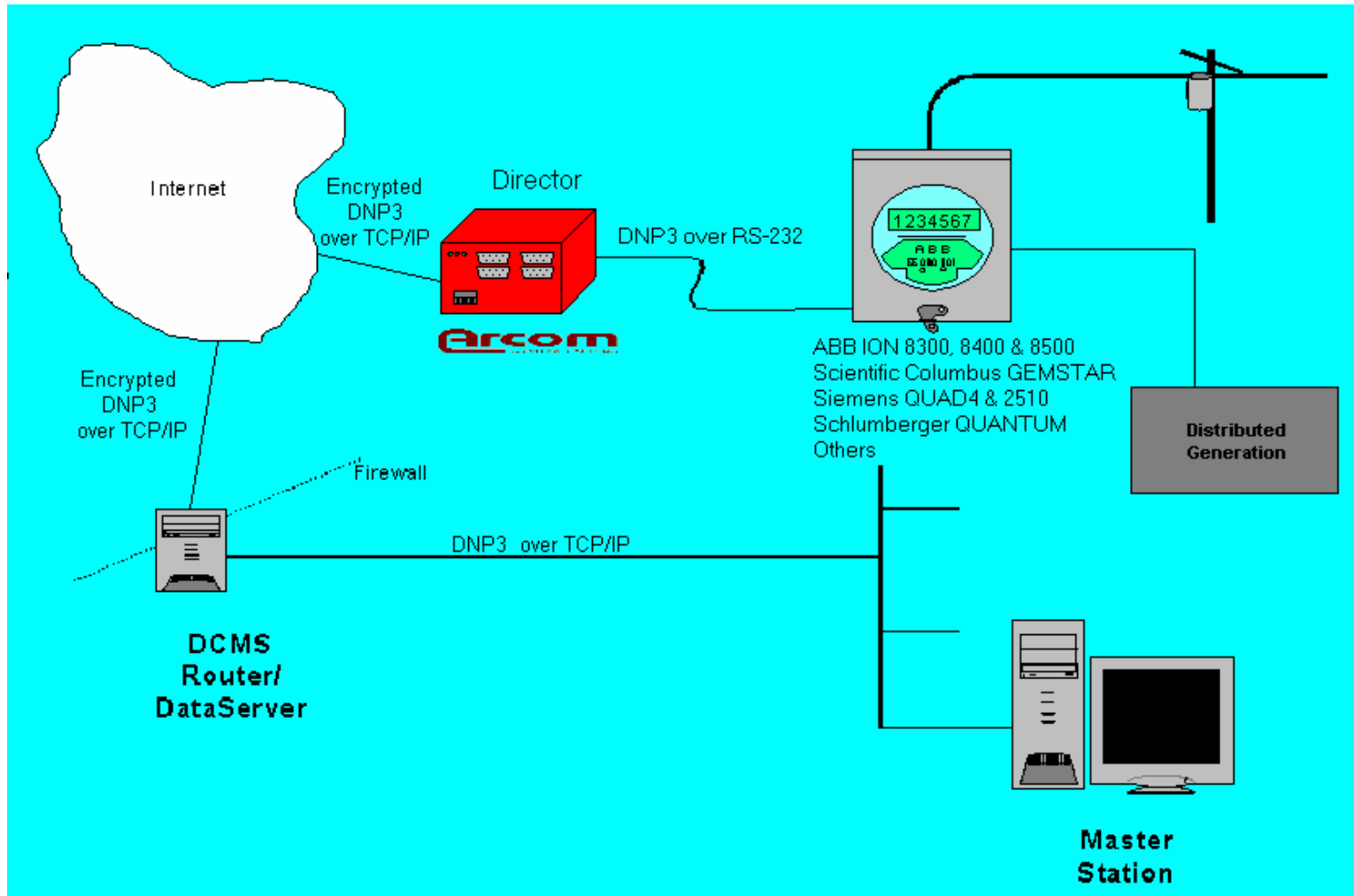
- **Non-Proprietary hardware/software interfaces**
  - Customer selects hardware supplier.
  - Industry standard IEC 61850 and DNP protocols.
- **Inexpensive**
  - Multiple suppliers for customer equipment.
- **Easy Installation**
  - Modular systems approach.
- **Low Maintenance**
  - Imbedded solution.
- **Bi-Directional**
  - Allows communications to and from customer.

- **Customer Interface**
  - Gives PJM capability to directly communicate with external customer.
- **Modularity**
  - Isolates Critical PJM Systems from discrete customer equipment.
  - Uses industry standard protocols and interfaces.
- **Single System Approach**
  - Combines acquisition of Real-Time and Revenue information into one system.
  - Simplifies usually complex task of interfacing to external customer equipment.

- **Non-Proprietary hardware/software interfaces**
  - Customer selects Meter/Concentrator supplier.
- **Support Additional Meter Types**
- **Lower Communications Costs**
  - Internet
  - Cellular Network
- **Easy Installation**
  - Modular systems approach.

- **Bi-Directional**
  - Allows communications to and from customer.
    - Near Real-Time (Wireless)
    - Real-Time (Internet)
- **Secure**
  - Triple Des Encrypted Messaging
  - Authenticated Message Sequencing
- **Rapid Deployment**
  - Instant ON





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