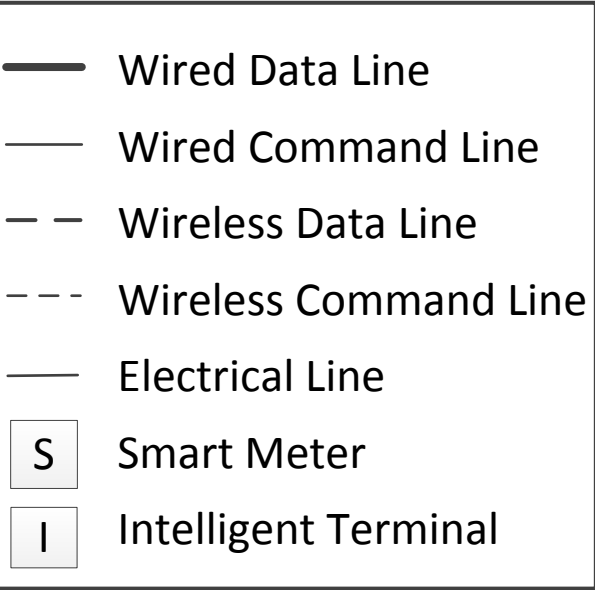


EMS, Network state
estimation
Network Fault Diagnosis

Power Character
Fusion
Distributed Fault
Diagnosis
Demond Side
Management

Power Metering
Fault Supervision

Cyber System



Meter Data
Management System,
MDMS

Data Acquisition Unit,
DAU1

...

Data Acquisition Unit,
DAU2

Building-area Network

Energy Service Interface, ESI
(Customer)

S I

S I

S I

S I

S I

S I

...

S I

IEEE
802.15.4
Protocol

Home
Area
Network

Appliance

Appliance

Appliance

Appliance

Physical System

Real-time Price Info
Network State

Real-time Price Info
Network State
Personal Power Info

**Building-area
Network**

