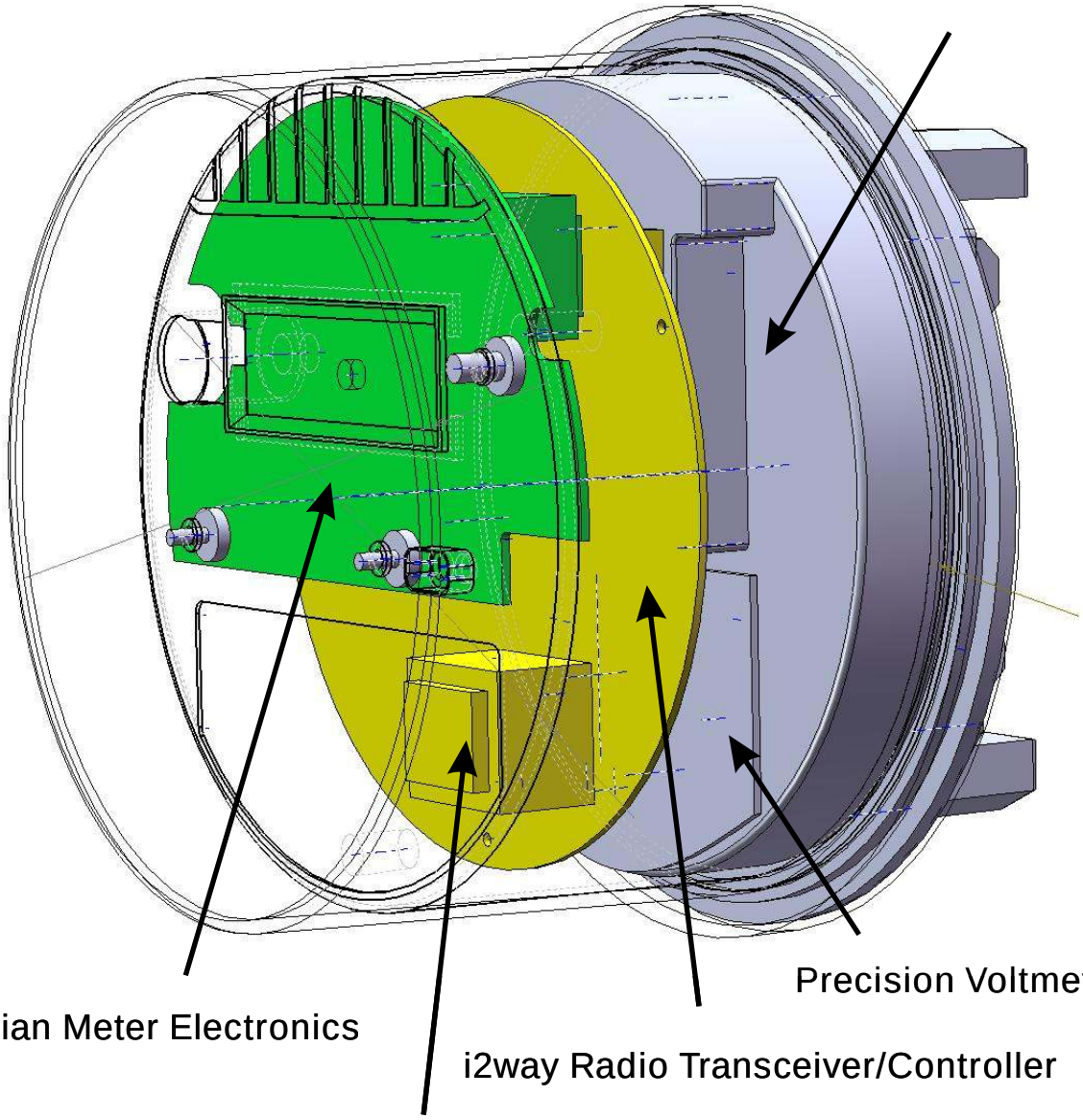
Motorized Service Disconnect Switch



Precision Voltmeter

Teridian Meter Electronics

i2way Radio Transceiver/Controller

220 VAC 50/60 Hz to 5 VDC Power Supply

DE-2000

i2way
Service Disconnect
Wireless Electric Meter

i2way

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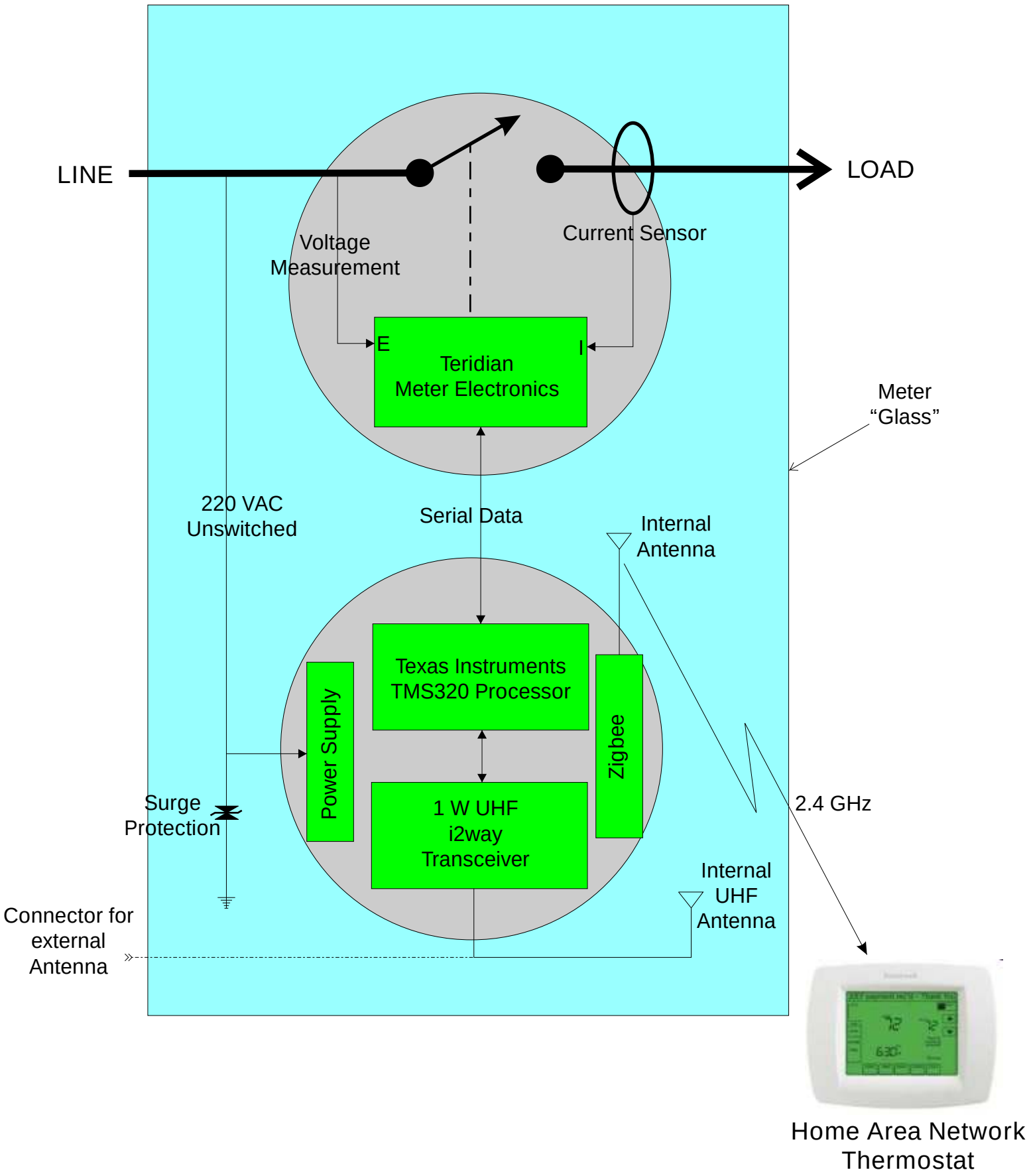
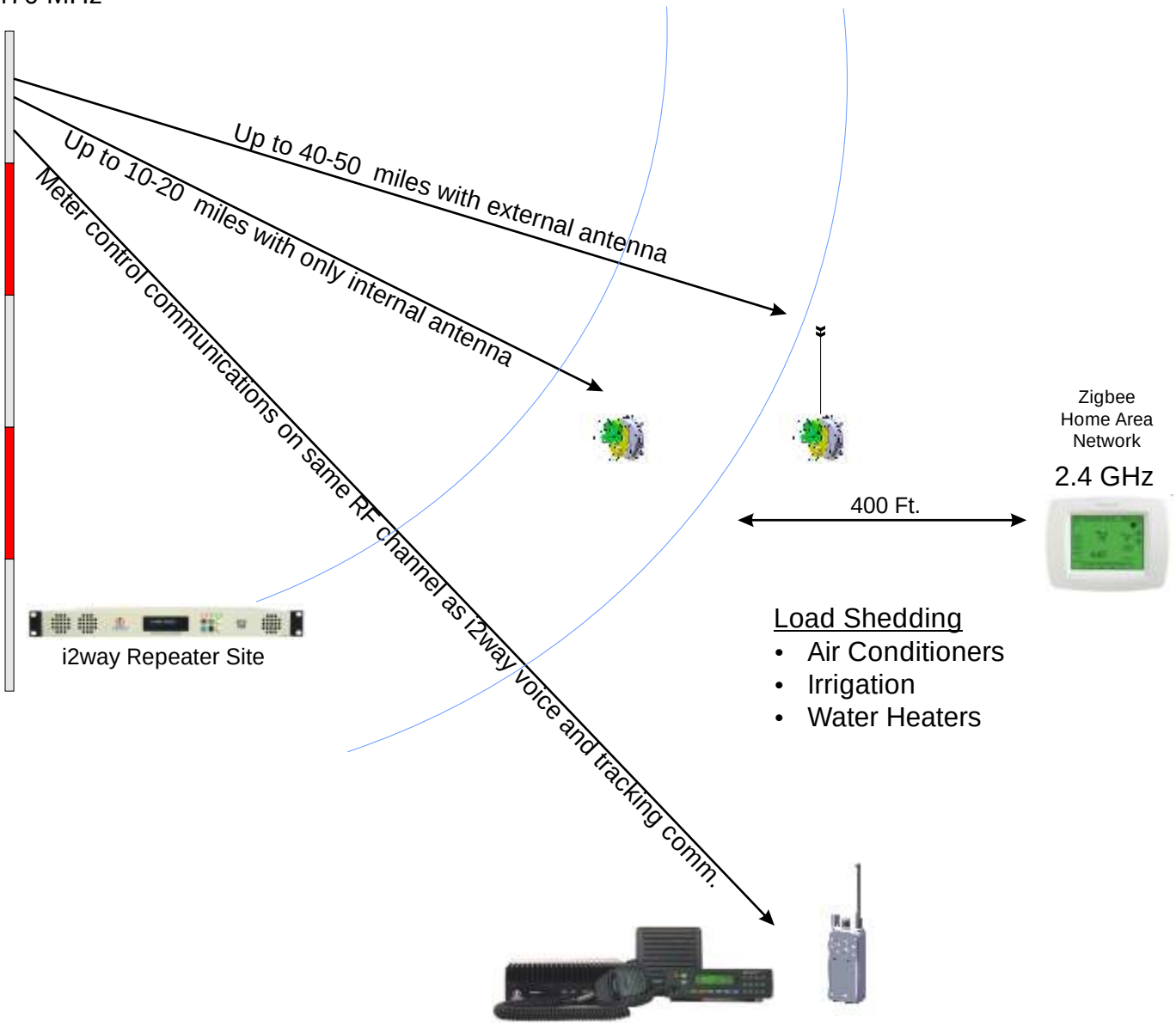

LINE
LOAD
Voltage
Measurement
Current Sensor
E
I
Teridian
Meter Electronics
Meter
“Glass”
220 VAC
Unswitched
Serial Data
Internal
Antenna
Texas Instruments
TMS320 Processor
Power Supply
Zigbee
1 W UHF
i2way
Transceiver
Surge
Protection
2.4 GHz
Internal
UHF
Antenna
Connector for
external
Antenna
Home Area Network
Thermostat

450-470 MHz



Load Shedding

- Air Conditioners
- Irrigation
- Water Heaters

Protocols

- ANSI C121.18/19-2006 Meter standards
- ANSI C12.22 Remote meter control
- i2way DV/IP 2.0-2008 Digital Radio Protocol
- Each meter transmission contains 17 bytes of data
- Raw transmission speed is 10,800 bps
- i2way protocol uses 256 bit AES encryption

Honeywell UtilityPro Zigbee thermostat shown as Home Area Network example above

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DB-1000 i2way Cell Site Base Station Transceiver

One DB-1000 can poll over 100,000 DE-2000 meters per hour

DE-2000 Pilot Phase

Simple Windows application allows remote reading of meter data and control of disconnect switch and Zigbee load switch from utility office.

Data exportable in standard data forwards. Formatted to allow import to existing accounting system

Load Management Pilot Phase

Simple Windows application allows remote control of individual Zigbee load switches and thermostats, establishment of interruption timing, remote readback of switch status and possible customer over-ride, where required.

Also allows grouping of any number of load switches via DE-2000 meter using standard i2way group capabilities.

DE-2000 Deployment Phase

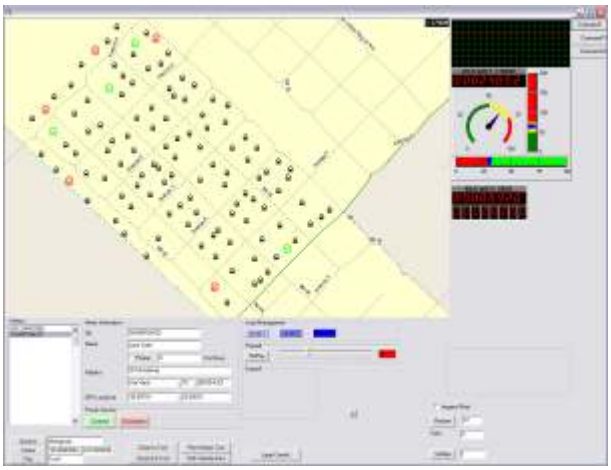
Operational Windows-based accounting system with fully-integrated Web-interface allowing remote GUI interface via standard browsers for

- Utility accounting office
- Utilty front office
- Third party collection points
- Customer direct web-browser access

Interface to and from existing accounting system possible.

Load Management Deployment Phase

Custom gateway software to allow fleet of remote meter/load management devices to interface to existing utility control systems.



Prototype version of i2way D-Trak Mapping Program with live meter location display

DWC's i2way D-Trak Mapping Program has been revised to display the location of DE-2000 Meters when meters are installed using the DP-2000 Portable Radio with Meter Test Software. The portable radio's internal GPS receiver provides the i2way system with the accurate location of each customer meter socket.

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