Triacta’s 6320 MDU Smart Metering Solution

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Industry technology evolution

- Mechanical meters
- Introduction of digital meters
- Introduction of MDU meters
- Introduction of smart meters for single family homes
- Introduction of standards based smart MDU meters
- MDU meters = communications
6320 smart meter

Metering

• Up to 20 meter points per unit
• Small footprint
• CT based meter, installs next to distribution panel
• Programmable interval data
• AMR via native ethernet, modem, RS-485
• Options for cellular modem, wireless and PLC available
• IP addressable for full 2 way communications
6320 smart meter cont’d

**Metering**
- Integration of ancillary devices (demand response/load control)
- Communication with BAS (building automation systems)
- PC-based Configuration tools
- Applicable for multi-residential, commercial and industrial applications

**Utility Grade**
- Measurement Canada approved
- UL and CSA approved for safety
Developer friendly
- Takes 1/20 of the space of traditional socket meters
- Smaller electrical closets mean more saleable square footage
- Avoided costs as no metering centers are required
Retrofit friendly

- Small meter footprint allows installs in tight electrical closets
- CT based system allows installs in tight electrical panels
- Very brief power disruption during installation
- No panel rewiring required
6320 smart meter - communications

Simplified two-way communications
- Leverage an existing phone line for daily reporting, or a high speed IP connection for real-time, bi-directional communications

Multi-Resident Building

Bulk Meter

PowerHawk 6320

Internet/Modem

Utility Data Centre
Simplified two-way communications

- On-board ethernet interface can support a variety of communication methods, including cellular (GPRS or CDMA), 802.11, power line, wireless (900 MHz) and radio (RF)
6320 smart meter – data file

Administrative Reporting
User account management
Meter management Tools
• Meter configuration
• Statistics and Maintenance

Multi-Resident Building

Bulk Meter

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Additional applications - load control

Demand response for multi-family buildings
- Meter uses power line or wireless communications to turn appliances on/off
- Integration with Smart Thermostats or other in-home displays

A/C unit (window or central)
Thermostat or in-suite display
Suite

Power line or wireless
Power line or wireless
Two-way connection
Any high speed network
Utility enacts demand response request

Utility Closet
Utility Company
Advantages Summary

- **Rapid deployment**
  - Easy installation and meter density allow for fast rollout to customer base

- **Data flexibility**
  - 2 way data communications over any network type eliminates manual meter reading and provides real time usage information

- **Integration**
  - Advanced communications allow utility to provide value added service offerings (web hosting, load control, demand response)

- **Standards based**
  - IP based solution that’s future enabled
Triacta’s 6320 MDU
Smart Metering Solution

Thank you for your time!

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