

Electric System Power Management Solution



FEATURES

- Real-Time Electrical System Monitoring and Optimization
- Compelling Increase in Electrical System Performance and Bill Savings
- Intelligent Electrical System Management
- Data Exchange via RS485 serial cable with over 1000 managed devices
- Intuitive, User-Friendly Web Management Interface
- Alarms and Notifications
- Building and Infrastructure Mode

How The Solution Works

1. The SmartPower 10 Meters, continuously measure electric current parameters such as KiloWatt electrical consumption.
2. The SmartPower 10 Meters send such information to the VoiceMaster Power Management server via RS485 protocol.
3. The VoiceMaster Power Management server stores and analyzes received information and sends commands to the corresponding SmartPower 10 Meter to turn on/off the connected electric appliances based on pre-defined time or electric consumption parameters. Additionally the software sends alerts and notifications to administrators about critical or threshold system conditions.
4. The VoiceMaster Power Management server uses the received data to compile management reports for cost control and energy consumption analysis. The software provides both graphical and table reports.

Business Opportunity

Increased global pollution from traditional energy sources and rising energy prices had driven up the demand for more efficient management of power consumption and energy cost control. Power saving, green energy and intelligent power management now become powerful trends that create demands for more advanced and centralized power management systems that enable real-time monitoring and switching of electrical equipment.

Business Solution

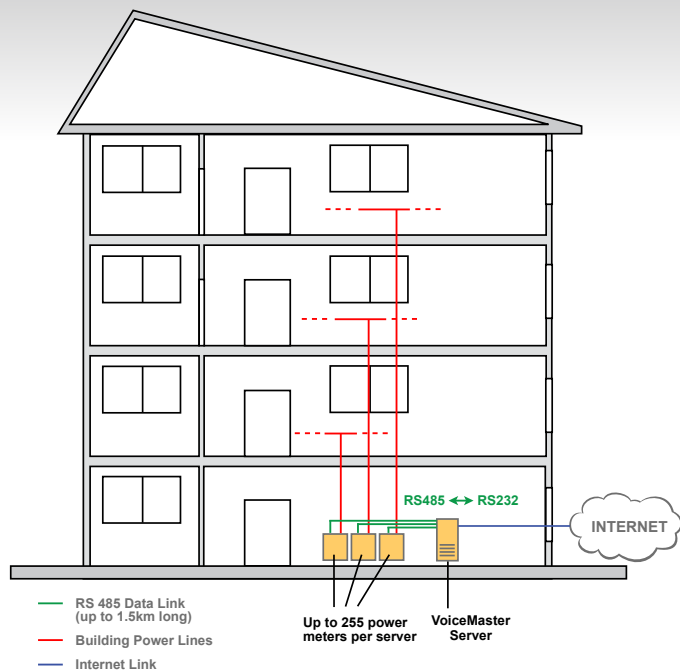
The manufacturer offers a universal Electric Power Management Solution that monitors and optimizes the performance of electric systems in real-time. The solution collects performance data from SmartPower 10 Meters that manage the electrical appliances. The VoiceMaster Power Management Server analyses the data, provides multiple reports for the user, and allows dynamic management of connected to the SmartPower 10 meter appliances. Additionally, the VoiceMaster Power Management utilizes the collected data to optimize the overall system performance by automatically disconnecting electric appliances based on predefined power and time parameters. Overall, the Electric Power Management Solution can increase the performance of commercial power systems by 30% or more.

Solution Components

The Solarian Electric System Power Management Solution consists of the following elements:

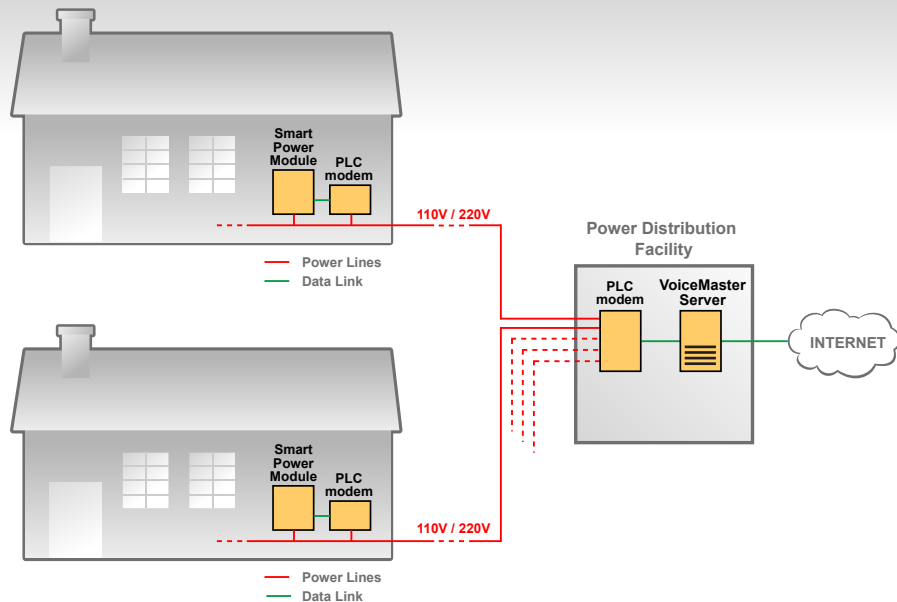
- VoiceMaster Power Management Server with RS485 interface
- SmartPower 10 Meter (one for each monitored electrical circuit)

BUILDING OPERATION MODE



Building Operation Mode is used for large building such as office building, shopping centers, large residential buildings, and buildings that aggregate many power meters for various power consumers. The SmartPower10 meters are connected to the central Voicemaster server using RS485 serial data cable that can connect up to 255 devices over 1.5km long line.

INFRASTRUCTURE OPERATION MODE



Infrastructure Operation Mode is used by the local utility power companies to automatically retrieve power meter readings and manage power meters remotely. The Infrastructure implementation uses PLC (power line communication) modem to support communication channel between the SmartPower 10 meter and the central Voicemaster server (located in the power transformer station) using the 110v/220v power lines.

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