



Packet Power[®] Data Hub



Introduction

The Packet Power Data Hub program allows Packet Power's wireless power and environmental monitoring technology to be used in conjunction with IT monitoring applications that can accept data in the SNMP format.

Overview

Data Hub utilizes Packet Power's advanced wireless mesh network to receive data from hundreds of Packet Power smart power cables and Environmental Nodes. Data is captured in real-time, formatted into the SNMP protocol, and transmitted to an installed IT monitoring application. Data Hub supports SNMP traps.



Data Hub runs on the Packet Power Ethernet Gateway. The Ethernet Gateway can be connected to any available SNMP port and requires 120V/240V AC power. A Data Hub deployment can consist of Data Hub running on a single Ethernet Gateway or a collection of many gateways.

Data Hub can collect and transmit a range of information, including:

- The count, identification number and communication interval for all wireless monitoring devices reporting through the Gateway.
- Power data including volts, amps, volt-amps, watts, watt hours and frequency
- Environmental information including temperature at up to 6 positions per cabinet (when used with the Environmental Monitor) and relative humidity

Any monitoring application that supports SNMP should be able to use information provided by Data Hub. This includes working integrations to software offerings from Automated Energy, Geist, Modius, OpenNMS, Power Assure, Rackwise and others. The Data Hub SNMP MIB is available from Packet Power upon request.



Summary

- Provides an SNMP interface into Packet Power's wireless power and environmental monitoring system
- Gathers power, temperature and humidity data in real time and transmits it using SNMP to an existing IT monitoring application.
- Unmatched ease of deployment
- Supports multiple Data Hub systems

Solution Components

- Record true power usage in real time using advanced energy monitors embedded in "smart power cables"
- Measures multiple power parameters
- Monitors temperature precisely
- True "plug and play" design

Smart Power Cables



- Measures temperature at six points per data center cabinet in one cabinet or three points per cabinet in two cabinets
- Scales to hundreds of nodes per facility
- Accurately tracks relative humidity
- Operates on AC or battery power

Environmental Nodes



- Small Ethernet Gateway device gathers data from hundreds of monitoring points in one location via a wireless mesh radio network
- System requires just one Ethernet port and IP address per Ethernet Gateway

Wireless Data Network

