



ConnectUPS™ Web/SNMP Cards

Solution Overview

ConnectUPS Web/SNMP Cards enable you to monitor and control remote UPSs from Web browsers or industry standard network management systems. Web/SNMP cards which fit into the slot on the back of your Avaya UPS (uninterruptible power system), support real-time web and SNMP (Simple Network Management Protocol) communication over 10/100BaseT Ethernet connections and serve as a power-protected switching hub to support three additional 10/100BaseT links (for all Avaya UPS models except 9 to 18 kVA models).



Solution Benefits

With the growth in distributed computing, computing and communication resources that reside in multiple remote locations—and so do the UPSs that protect them. The Web/SNMP card allows you to monitor and control remote UPSs and offers a broad range of networking enhancing features.

- Supports real-time monitoring and control of UPSs across the network
- Enables monitoring and control via web browsers, SNMP-compliant network management systems or power management software
- Delivers alarm notifications through email, to mobile phones, pagers, or SNMP traps
- Enables rapid identification and analysis of critical power conditions
- Logs and graphs detailed historical data to analyze trends
- Uses standard communication protocols on 10Mb and 100Mb Ethernet networks
- Performs as a switching hub for three 10/100Mbps connections (except for the 9 to 18 kVA UPS models)
- Enables orderly shutdown and restart of remote UPSs
- Supports orderly shutdown of protected operating systems during power outages

Solution Applications

The Web/SNMP cards are ideal for networking and communications applications that require remote monitoring via SNMP and the Web.

Ideally suited for:

- DEFINITY® Servers
- Media Servers (for example: S8100, S8300, S8500 and S8700)
- Communications Servers
- Wireless phone systems such as DEFINITY pocket phone

Through easily navigable web pages, network administrators can check system status and view critical meter information, such as input and output voltage, UPS load, battery voltage and condition, at any time. As a result, you gain up-to-the-minute assurance that computing and communication systems are receiving the continuous, clean power they demand.

The Web/SNMP card supports standard web browsers, such as Internet Explorer or Netscape. Displays have been designed for simplified viewing using mobile phone or PDA (personal digital assistant) browsers – enabling systems managers to stay informed even when away from their mission-critical workstations and servers.

The image shows two devices displaying the AlarmClock application. On the left is a laptop, and on the right is a tablet. Both screens show a user interface with a list of alarms on the left and a detailed view of a selected alarm on the right. The word "ALARM" is visible in red text on the tablet screen.

Integration with Standard SNMP Management Software

Netware 4.11i Setup

File Edit Format View Help

Back Forward Stop

Netware 4.11i Setup

Netware 4.11i Setup

Netware 4.11i Setup

Netware 4.11i Setup

Back

The Web/SNMP card sends real-time alert notifications to four designated recipients via email, PCS mobile phone or pager, and via SNMP traps to an NMS or network messaging to NetWatch software. Each recipient has the option of receiving real-time event messages, daily status reports based on criticality, containing data and event log files, or a combination of routine reports and event notifications.

For monitoring and managing remote UPSs through an NMS, the Web/SNMP card supports not only the standard UPS MIB (management information base) SNMP structure, but also unique extensions to that MIB structure, which enable advanced functions that are not addressed in the RFC-1628 standard.

ConnectWISE™ SMM/WIS Adapter

LSPS Control Settings

LSPS Link Disabled	☒	[F5]
LSPS Disabled on	☒	[F6]
LSPS Task Disabled on	☒	[F7]
LSPS Stationary Data	☒	[F8]
LSPS Real Time	☒	[F9]
LSPS SMM	☒	[F10]
LSPS LSPS Disabled on	☒	[F11]
LSPS LSPS Disabled on	☒	[F12]

Configuration of control settings is fast, easy and password-protected

Orderly Shutdown of Remote Operating Systems

The Netwatch software, included with ConnectUPS products and Avaya UPSs, provides user notification and shutdown capabilities for UPSs equipped with a Web/SNMP card. When alarm conditions persist for a specified period, from 1 to 600 seconds, the Web/SNMP card initiates orderly shutdown of affected equipment. Using NetWatch software (which is loaded on the protected computers), up to 255 Windows, Novell, and UNIX/Linux computers can be gracefully shut down without operator intervention. This capability ensures data integrity during a power outage that exceeds UPS backup time.

The system manager automatically receives warning messages when the UPS has shifted to battery power, battery power is getting low, or orderly shutdown procedures are being initiated. You define exactly how to manage this shutdown – such as how long after going to battery power to begin shutdown and how to sequence the shutdown of servers by importance.

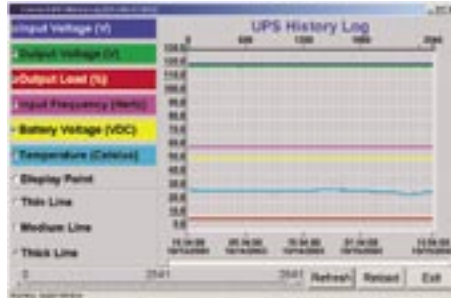
If the UPS supports individual control of Load Segments (groups of output receptacles on a UPS), the Web/SNMP card detects these Load Segments and provides the appropriate level of service to each, as configured by the system administrator.



Track key parameters with the data log

Track and Record Detailed Historical Data

The Web/SNMP card has built-in data and event logs that track and record specific power-related occurrences over time at user-defined increments as fine as one-minute intervals.



Analyze trends with powerful visualization tools.

Graph Historical Trends for Rapid Analysis

A JAVA applet on the Web/SNMP card graphs data and event log values over time, making it easy to analyze chronic power problems and identify trends and cause-and-effect relationships. Zoom and data-masking functions pinpoint specific anomalies for further investigation. Text-based event logs contain easy-to-understand event descriptions with corresponding date and time stamp.

Integrated Switching Hub Capability

The Web/SNMP card (for all Avaya UPS except the 9 to 18 kVA models) serves double duty as a switching hub for three additional power-protected 10/100BaseT Ethernet connections, thereby eliminating the expense of buying a separate switching hub and a UPS to protect it.



3000 VA Online UPS Back Panel

Embedded ConnectUPS Web/SNMP Card

Technical Specifications

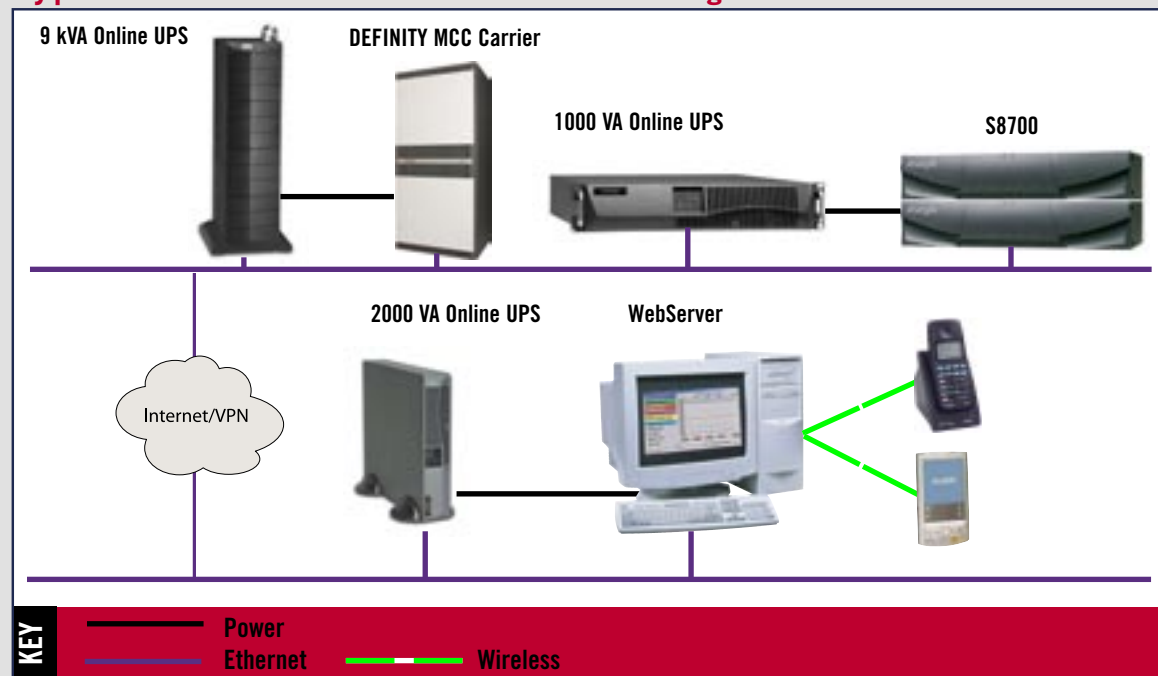
Model	ConnectUPS for 1000-6000 VA and 20 to 40 kVA Online UPS	ConnectUPS for 9 to 18 kVA Online UPS
Protocol Support	HTTP, SNMP, TFTP, Telnet, BootP, DHCP, WAP, ARP, RARP	
Network Support	Ethernet 10/100BaseT	
Switching hub	Yes (Three 10/100BaseT Connections)	
Supported MIB	UPS standard MIB RFC-1628, Powerware MIB, MIB II	
O/S Supported for Shutdown	Microsoft Windows 9X, ME, 2000/NT and XP, Various UNIX (including Linux) versions, Novell NetWare	
Operating Temperature	32 to 104° F (0 to 40° C)	
Operating Humidity	10 – 80%, non-condensing	
Power Input	9 Vdc unregulated	
Power Consumption	3.5 watts	
Dimensions (inches)	4.7 x 4.5 x 1.5	5.3 x 3.2 x 1.3
Weight	6 oz.	4 oz.
Regulatory	FCC Class B	

Web/SNMP Card Compatibility with Avaya UPS

Compatible UPS	Card SAP Code	UPS Embedded with Card?	UPS w/Card SAP Code
1000 VA Online UPS <i>Note: 1000 VA UPS with SAP code 40835710 ships with DEFINITY alarm contacts card.</i>	408427656	Yes	700290273
1500 VA Online UPS <i>Note: 1500 VA UPS with SAP code 408357028 ships with DEFINITY alarm contacts card.</i>	408427656	Optional*	194384 (700359726 after May 1, 2006)
2000 VA Online UPS	408427656	Optional*	N/A
3000 VA Online UPS w/PDM	408427656	Yes	181588
3000 VA Online UPS	408427656	Yes	700285265
6000 VA Online UPS	408427656	Yes	700315054
9 to 18 kVA Online UPS	700249048	Optional**	N/A
20 to 40 kVA Online UPS	408427656	Optional***	N/A

*Ships with the DEFINITY alarm contacts card embedded in UPS. Web/SNMP card is automatically configured in Avaya Solution Designer (ASD), but it ships separately and must be installed at the customer site. **Web/SNMP card is automatically configured in Avaya Solution Designer (ASD), but it ships separately and must be installed at the customer site. ***Must be ordered as a separate option.

Typical Networked UPS Solution Using Web/SNMP Card



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