



Minuteman UPS Power Monitoring and Control Software

User Manual

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1. Overview

SentryHD is a power monitoring and control software that communicates with a UPS to retrieve the UPS's information and protects the operating system. Using a Web Browser, you can easily obtain the current UPS status, configure your shutdown strategy and view the countdown to shutdown information. SentryHD also has the ability to notify the device managers through email and SMS.

SentryHD works with multiple MM ShutdownAgents to protect a large number of hosts which are powered by the UPS.



1.1 Features

- Works with MM ShutdownAgent to protect a large number of hosts: Each SentryHD can connect up to 255 MM ShutdownAgent. Each MM ShutdownAgent can forward the received SNMP trap to 255 MM ShutdownAgent.
- 2. Supports RS232 to monitor and control the connected UPS.
- 3. Supports USB to monitor and control the connected UPS.
- 4. Supports SNMPv1, v2c and v3 traps.
- 5. Supports SMS for mobile notification.
- 6. Supports SNMPv1, v3 server access for monitoring SentryHD status and configure shutdown parameters.
- 7. Supports web interface through HTTP and HTTPS.
- 8. Has the ability to send email and SMS to notify the user and device manager.
- 9. Supports scheduling shutdown, restart and battery test.
- 10. Supports batch configuration.
- 11. Supports console configuration for basic system parameters setup.
- 12. Supports 32/64 bit software programs.

1.2 OS Support

Windows: XP-sp2, Vista, 7, 8 Windows 2003, 2008 Windows 2008 Server Core, Hyper-V 2008 R2 Linux OpenSUSE 11.4 Linux ubuntu 10.04 Linux Fedora 3.1.9 CentOS 5.8 Citrix XenServer 6.0.0 Linux KVM

NOTE: When using the UPS's USB port with the Windows Operating Systems the "Power Options" in the Control Panel may need to be configured.

2. Installation/Uninstallation

2.1 For Windows OS

There are two setup programs: SentryHD-MM-Setup (win32).exe and SentryHD-MM-Setup(x64).exe. One is for the 32bit Windows operating system and the other is for the 64bit Windows operating system.

2.1.1 Installation Process

- 1. Execute the SentryHD-MM-Setup (xxx).exe to run the setup program.
- 2. Press the "Next" button to continue with the installation or press the "Cancel" button to stop the installation.

SentryHD - InstallShield Wizard	
	Welcome to the InstallShield Wizard for SentryHD
4	The InstallShield Wizard will install SentryHD on your computer. To continue, click Next
	Reck. Next> Cancel

3. Read the License Agreement and then press the "Yes" button to accept the License Agreement and continue with the installation or press the "No" button to cancel the installation.

Lioonoorigioonioni	
Please read the following licens	se agreement carefully.
Press the PAGE DOWN key to	see the rest of the agreement.
SentryHD	*
LICENSE AGREEMENT	囲
Minuteman grants the customer	r a license to use the software subject to the following:
1. GRANT OF LICENSE. This License Agreement permi	ite you to use one conviof the Minuteman software program(c)
included in this package on a s	single terminal connected to a single computer or a network.
2. COPYRIGHT.	The second se
all other applicable pational law	Minuteman and is protected by international treaty provisions and ws. Customer agrees that it does not have any title or ownership of
	· · · · ·
di bilei diplicable nationalia	
Do you accept all the terms of the	he preceding License Agreement? If you select No.
Do you accept all the terms of the terms of the terms will close. To install S	he preceding License Agreement? If you select No. Print SentryHD, you must accept this agreement.
Do you accept all the terms of the setup will close. To install S	he preceding License Agreement? If you select No, Print SentryHD, you must accept this agreement.

SentryHD Software

4. The destination location can be changed by pressing the "Browse" button or just press the "Next" to install the software in the default location.

Choose Destination Location	
Select folder where setup will install files.	
Setup will install SentryHD in the following f	older.
To install to this folder, click Next. To install folder.	I to a different folder, click Browse and select another
Destination Folder	
Destinátion Folder C\Prögram Files\SentryHD\	Browse
Destination Folder C\Program Files\SentryHD\	Erowse

5. Press the "Install" button to install the program to the selected location.

na yno mstansnicia wizara		
Ready to Install the Program		
The wizard is ready to begin installation.		25
Click Install to begin the installation.		-
If you want to review or change any of your wizard.	installation settings, click Back. Click Cancel to exit	the
stallShield		
	<back c<="" install="" td=""><td>ancel</td></back>	ancel

6. The installation is in progress.

SentryHD - InstallShield Wizard	X
Setup Status	
The InstallShield Wizard is installing SentryHD	
Bemoving applications	
instali§histd	
	Cancel

7. After the installation is complete, press the "Finish" button to exit the installation process.



8. Once the installation is complete, SentryHD will automatically start the service program and add an icon to the task bar. A dialog box will pop up to ask if you want to configure the basic parameters via a console. Press "No" to finish the installation and then configure the basic parameters once the software is opened or press "Yes" to launch the console configuration in the shell mode. See Chapter 3 for more details.

ntryhd - Instalisnieid Wizard		
Do you want to launch the UPS-Con	fig to configure the basic p	parameters?

The SentryHD software is comprised of two modules:

A **Service** module (UPS Service: UPS-Service.exe), which runs in the background as a Service and communicates with the UPS through the assigned port.

A **Status** module (UPS-Status.exe), which enables you to configure, control and monitor the software via a web browser.

After completing the installation, the setup program will create a SentryHD association with the following shortcuts:

- **Console Configure**: To launch the UPS-Config.exe for you to quickly configure the basic communication parameters.
- **Uninstall**: To remove the SentryHD program, the configuration data will still be kept in the installed directory.

- User Manual: The user manual in PDF format.
- Web Monitor: The major user interface of SentryHD, used to monitor and configure the software.

2.1.2 Uninstall Process

- 1. Select Uninstall from the SentryHD program folder to start the uninstall process. Or use the Add/Remove Program in the Control Panel.
- 2. Press the "OK" button to confirm removing all of the application or the "Cancel" button to cancel the uninstall process.

entryHD - InstallShield Wizard	
Do you want to completely ren features?	nove the selected application and all of its

3. Press the "Finish" button to complete the uninstall process.

SentryHD - InstallShield Wizard	
E	Uninstall Complete
	Back Finish Cancel

2.2 For Linux System

2.2.1 Installation Process

- Please login to the Linux system and change to the root account: su root
- 2. Copy the sentryhd-mm-linux-x86.tar.gz or sentryhd-mm-linux-x64.tar.gz to the /tmp directory:

sentryhd-mm-linux-xxx.tar.gz /tmp

- Change your working directory to /tmp: cd /tmp
- Uncompress the sentryhd-mm-linux-xxx.tar.gz: gunzip sentryhd-mm-linux-xxx.tar.gz
- 5. Extract the sentryhd-mm-linux-xxx.tar: tar xvf sentryhd-mm-linux-xxx.tar
- 6. Run the install script:

./install

```
+----+
| SentryHD for Linux |
| Copyright (c) 2013 Para Systems, Inc. |
| All Rights Reserved. |
+-----+
Do you want to install the SentryHD? [y|n]
```

7. Press 'y' to start the installation process:

```
+----+
| SentryHD for Linux |
| Copyright (c) 2013 Para Systems, Inc. |
| All Rights Reserved. |
+-----+
The destination directory is /usr/local/sentryhd.
Copying files .......
Install service link.
SentryHD 0:off 1:off 2:off 3:on 4:off 5:on 6:off
Starting SentryHD ... done
Do you want to configure the SentryHD right now? [y/n]
```

- 8. Now SentryHD has been installed in the following directory /usr/local/sentryhd/ and the service program will automatically start up.
- 9. Press 'y' to launch the /usr/local/sentryhd/configure program to configure the basic networking parameters for SentryHD or press 'n' to finish the installation process.

See Chapter 3 for more information about configuring the basic networking parameters.

2.2.2 Uninstall Process

1. Login to the Linux system and change to the root account:

su root

- 2. Change your working directory to /usr/local/sentryhd:
- cd /usr/local/sentryhd
- 3. Run the uninstall script to remove SentryHD:

./uninstall

4. Press 'y' to start the uninstall process.

3. Console Configuration

The configuration program is design to do the basic configuration for SentryHD in the shell mode. The software can be launched at the end of the installation process or you can go to the installed directory to launch it manually.

For Windows it is located in "C:\Program Files\SentryHD\UPS-Config.exe" For Linux it is installed in "/usr/local/sentryhd/configure"



3.1 Console Menu

No.	Function	Description	Default
1.	SNMP Server Port	The UDP port for replying to the SNMP get/set commands	161
2.	HTTP	Enable or disable the HTTP protocol	Enable
3.	HTTPS	Enable or disable the HTTPS protocol	Enable
4.	HTTP Port	The TCP port for HTTP	80
5.	HTTPS Port	The TCP port for HTTPS	443
6.	Manageable	Allow the management software to manage SentryHD	Enable
7.	Save	Save the configured parameters to config.ini file	
8.	Set Firewall	Insert or remove the firewall rule for the SentryHD. This option is provided for quickly testing the network communication. The firewall settings may be recovered after the OS reboots.	
9.	Restart SentryHD Service	Restart service program to apply the changes	
0.	Exit	Exit the configuration program	

4. Operation in Windows

After the installation, SentryHD places an icon in the task bar to indicate the status of the monitored UPS.

Icon	Description
Þ	Normal
Þ	Service stopped
•	UPS on battery mode
1	UPS battery low
	UPS on bypass mode
4	UPS disconnected

To show the pop-up menu, move the cursor over the SentryHD icon and then click the mouse button:

	Web Moniter
	Property
~	Show Countdown
	Cancel Countdown
	Pause Notify Message
	Stop Service

4.1 Web Monitor

SentryHD allows you to monitor and configure the software through the web interface.

Select the Web Monitor to launch the default web browser. If you are the Administrator then SentryHD will login to its web engine automatically. If you connect via a remote PC then you have to login with the proper account and password.

For more detailed information about the web operation, refer to the Chapter 5.

4.2 Property

Selecting the Property menu provides another way to configure the basic parameters of SentryHD. From the General page you can observe the software version number, IP address, host name and the default web ports.

System	
SentryHD	
02.01.02	
Host Information	
IP Address=	fe80::91bb:19d5:dfe8:48ec%11 192.168.168.157
Host Name=	RobertC7
	Web
	MITTP Port= 80
	ITTPS Port= 443
	Login Account

4.2.1 HTTP:

The HTTP port can be enable / disabled and assigned a different number. The default value is enabled and port 80. If you have changed the HTTP port number from 80 then you have to key in the URL as follows: http://192.168.1.100:8001. Where 192.168.1.100 is the IP address of the PC where SentryHD is installed and the 8001 is the port number which you assigned.

NOTE: Check the Windows firewall setting if the HTTP connection is refused.

4.2.2 HTTPS:

The HTTPS port can be enable / disabled and assigned a different number. The default value is enabled and port 443. If you have changed the HTTPS port number from 443 then you have to key in the URL as follows: http://192.168.1.100:4430. Where 192.168.1.100 is the IP address of the PC where SentryHD is installed and the 4430 is the port number which you assigned.

NOTE: Check the Windows firewall setting if the HTTP connection is refused.

4.2.3 Login Account:

SentryHD implements 3 levels of authentication for the web login as follows:

Administrator: Has sole right to modify the SentryHD system settings.

Device Manager: Does not have the rights to change the system settings, but is permitted to modify device-related settings.

Read Only User: Does not have the rights to change any of the system or devicerelated settings. The Read-Only User is only permitted to observe the SentryHD status.

The following is the default account and password list. **NOTE:** They are case-sensitive.

Authentication	Account	Password
Administrator	admin	password
Device Manager	device	password
Read Only User	user	password

Web Login Account		×
Administrator		
Account:	admin	
Password:	•••••	
Device Manage	r:	
Account:	device	
Password:	•••••	
Read Only User		
Account:	user	
Password:	•••••	
		Save

4.3 Show Countdown

Select the Show Countdown menu to display the countdown window when SentryHD starts counting down for the OS shutdown delay.



4.4 Cancel Countdown

Select the Cancel Countdown menu during the counting down to stop the shutdown process. To resume the shutdown process, uncheck the Cancel Countdown menu item. **NOTE:** When the shutdown event changes the software will start a new countdown process.

4.5 Pause Notify Message

Selecting the Pause Notify Message will stop the next pop-up notification message. The notification will resume the next time the status changes.

4.6 Stop Service

Selecting the Stop Service menu item will stop the SentryHD service module. To restart the service, uncheck the Stop Service menu item.

5. Web Interface

5.1 Run a Web Browser

To connect to SentryHD from the same PC where SentryHD is installed, select the Web Monitor from the task bar menu. SentryHD will open your default web browser and if you are the Administrator you will be automatically logged in.

NOTE: SentryHD allows a maximum of 16 users to be logged in at the same time.

You can also connect to SentryHD from a remote PC. Start your Web Browser. Enter http: //host_name or http: //ip_address in the address bar for the plain text web transmission or https: //host_name or https: //ip_address for the encrypted web transmission. If you have changed the port number for HTTP or HTTPS then enter http: //host_name:port_number or http: //ip_address:port_number in the address bar for the plain text web transmission or https: //host_name:port_number or http: //ip_address:port_number or https: //host_name:port_number or https: //ip_address:port_number or https:

NOTE: Connecting to SentryHD from a remote PC will require you to login.

	SentryHD
User Name : Password :	admin ●●●●●●●● OK
Site II	P: 192.168.168.157

5.2 Monitor >> Information >> Summary

Go to **Monitor** >> **Information** >> **Summary** to view the information about the identification, the shutdown status, the UPS status and the last 5 event logs.

NOTE: SentryHD will automatically logout the user if there is no data transmission for more than 30 minutes.

Monitor Device System System System Time-Wed 12/19/2012 F Information History About Summary Information * Summary Battery Information * Summary Summary Shutdown Battery Information * Summary Shutdown Information Summary Shutdown Identification Model: E750RTXL2U Type: Line interactive Rating VA: 750 vA Shutdown Type: Shutdown Status Indication O Shutdown Agent OS Countdown: ShutdownAgent UPS Communication: Normal Destal Schedule Next Restart Time: Output Load: Image: Status: Normal Output Load: Status: Normal Battery Capacity: Interfine Event Level Event Description Interfine: Last 5 Event Log Interfine Event Level Event Description Interfine: Interfine Event Level Event Description Interfine: Interfine: Interfine Event Level Event Description Interfine: Interfine: I	POWER TECHN	NOLOGIES De Pore System L. Ber		()	WEE MANAGER		
Information History About Summary Monitor = Information = Summary Battery D Monitor = Information = Summary In/OutBypass O Mentification Shutdown Identification O Shutdown Shutdown Status Indication O ShutdownAgent O Shutdown ShutdownAgent O UPS Properties Detail Shutdown Time: Next Restart Time: Output Source: Normal Output Source: Normal Ostitute: Output Source: Normal Status: Salus: Normal Output Source: Normal Battery Status: Normal Status: Specific Schedule Weekt% Schedule Last 5 Event Log Last 5 Event Log Event Description 1 12/19/2012 15:21:43 System Account admin login from 127.0.0.1/29874 Z 12/19/2012 15:17:32 System Account admin login from 127.0.1/29874 2 12/19/2012 15:17:32 System Service program startup 5 12/19/2012 15:17:32 System Service program startup 5 12/19/2012 15:17:27 Detail: 12/19/2012 15:17:32 System <	Monitor	Device	System			System Tim	e : Wed 12/19/2012 PM
Summary Monitor + Information + Summary Battery In/Out/Bypass Identification Identification Identification Identification Status Indication Identification Identification Status Indication Identification Identification ShutdownAgent UPS Properties Intervention ShutdownAgent UPS Communication: Normal Identification UPS Health: Normal Identification Output Source: Normal Identification Output Source: Normal Identification Output Source: Normal Identification Output Source: Normal Identification Battery Status: Normal Identification Battery Status: Normal Identification Battery Capacity: Identification Identification Itast 5 Event Log Identification Identification Itast 12:17:22 System Account admin login from 127.0.0.129874 Itast 2:17:17:22 System Identification from 127.0.0.129874 Itast 2:17:17:22 System Service program startup	Information	Histor	About				
Battery O In/Out/Bypass O Identification O Status Indication O Status Indication O ShutdownAgent O Shutdown Time: Next Restar Ti	Summary	0	Monitor » Information » Sum	imary			
In/Out/Bypass Identification Identification Model: E750RTXL2U Type: Line interactive Rating VA: 750 vA Data Shutdown Type: Shutdown ShutdownAgent UPS Properties Status Sta	Battery	Ø	Summary			Shutdown	
Identification Identification Status Indication ShutdownAgent O UPS Communication: Normal UPS Communication: Normal UPS Health: Normal Output Source: Normal Output Load: Battery Status: Normal Battery	In/Out/Bypass	0		dentification		Shutdow	n
Status Indication Detail OC CouldidWit. Image: Course of the status of the st	Identification	0	Model: E750RTXL2U	Type: Rating VA:	Line interactive 750 va	Shutdown Type:	Shutdown
ShutdownAgent UPS Properties © UPS Communication: Normal • UPS Status: Normal © UPS Health: Normal © Output Source: Normal © Output Load: • • • • • • • • • • • • • • • • • • •	Status Indication	0			Detail	US Countdown.	
• UPS Communication: Normal Next Shutdown Time: • UPS Health: Normal Normal • Output Source: Normal Normal • Output Load: • Imal • Battery Status: Normal • Battery Capacity: • Battery Capacity: • Event Level • Date/Time Event Level • Date/Time Event Level • 1 12/19/2012 15:21:43 System • 1 12/19/2012 15:17:32 System • 1 2/19/2012 15:17:32 System • 1 2/19/2012 15:17:27 System • 1 2/19/2012 15:17:27 • 1 2/19/2012 15:17:27 • 1 2/19/2012 15:17:27 • 1 2/19/2012 15:17:27 • 1 2/19/2012 15:17:27 • 1 2/19/2012 15:17:27 • 1 2/19/2012 15:03:3 • 1 2/19/2012 15:03:3 • 1 2/19/2012 15:03:3	ShutdownAgent	0	l	JPS Properties		Schedule	e
• UPS Health: Normal • Output Source: Normal • Output Load: • • • • • • • • • • • • • • • • • • •			OPS Communication:	Normal		Next Shutdown Time:	
Output Source: Normal Output Load:			OUPS Health:	Normal		Next Test Time:	
Output Load: Mormal Battery Status: Normal Battery Capacity: Date/Time Event Level Event Description 1 12/19/2012 15:21:43 System Account admin togin from 127.0.0.1:29874 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTP: OK 1 21/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTP: OK 1 21/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTP: OK 1 21/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK 1 21/19/2012 15:17:33 System Service program is terminated			Output Source:	Normal		Next Deep Batt. Test Time	
Output Load. Same Same Specific Schedule Battery Status: Normal Image: Schedule Specific Schedule Battery Capacity: Image: Schedule 100% Image: Schedule Last 5 Event Log Image: Schedule Image: Schedule Image: Schedule Date/Time Event Level Event Description Image: Schedule 1 12/19/2012 15:21:43 System Account admin togin from 127.0.0.1:29874 2 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTP: SC IPv6-HTTP: OK 3 12/19/2012 15:17:32 System IPv4-SNMP Server: OK IPv6-SNMP Server; OK 4 12/19/2012 15:17:27 System Service program is tartup 5 12/18/2012 16:05:33 System Service program is terminated		- 1	Contrast and		2224		Weekly Schedule
Battery Status: Normal Battery Capacity: Date/Time Event Level Event Description 1 12/19/2012 15:21:43 System Account admin login from 127.0.0.1:29874 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTP: OK 1 21/19/2012 15:17:32 System IPv4-SNIAP Server: OK IPv6-HTTP: OK 1 21/19/2012 15:17:27 System Service program tartup 5 12/18/2012 16:05:33 System Service program is terminated			• Output Load.		33%	-	Specific Schedule
Date/Time Event Level Event Description 1 12/19/2012 15:21:43 System Account admin login from 127.0.0.1:29874 2 12/19/2012 15:17:32 System Account admin login from 127.0.0.1:29874 3 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTP:: OK IPv6-HTTP:: OK 3 12/19/2012 15:17:32 System IPv4-SNMP Server: OK IPv6-SNMP Server: OK 4 12/19/2012 15:17:27 System Service program startup 5 12/18/2012 16:05:33 System Service program is terminated			Battery Status:	Normal			
Date/Time Event Level Event Description 1 12/19/2012 15:21:43 System Account admin login from 127.0.0.1:29874 2 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv6-HTTPS: OK IPv6-HTTPS: OK 3 12/19/2012 15:17:32 System IPv4-SNMP Server: OK IPv6-SNMP Server; OK 4 12/19/2012 15:17:27 System Service program startup 5 12/18/2012 16:05:33 System Service program is terminated			Battery Capacity:		100%		
Date/Time Event Level Event Description 1 12/19/2012 15:21:43 System Account admin login from 127.0.0.1:29874 2 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP:			Last 5 Event Log				
1 12/19/2012 15:21:43 System Account admin login from 127.0.0.1:29874 2 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv4-HTTPS: OK IPv6-HTTPS: OK 3 12/19/2012 15:17:32 System IPv4-SNMP Server: OK IPv6-SNMP Server; OK 4 12/19/2012 15:17:27 System Service program startup 5 12/18/2012 16:05:33 System Service program is terminated			Date/Time	Event Level		Event Description	
2 12/19/2012 15:17:32 System IPv4-HTTP: OK IPv6-HTTP: OK IPv4-HTTPS: OK IPv6-HTTPS: OK 3 12/19/2012 15:17:32 System IPv4-SNMP Server: OK IPv6-SNMP Server: OK 4 12/19/2012 15:17:27 System Service program startup 5 12/18/2012 16:05:33 System Service program is terminated			1 12/19/2012 15:21:43	System	Account admin login fro	om 127.0.0.1:29874	
3 12/19/2012 15:17:32 System IPv4-SNMP Server: OK IPv6-SNMP Server: OK 4 12/19/2012 15:17:27 System Service program startup 5 12/18/2012 16:05:33 System Service program is terminated			2 12/19/2012 15:17:32	System	IPv4-HTTP: OK IPv6-HTT	P: OK IPv4-HTTPS: OK IPv6-HT	TPS: OK
4 12/19/2012 15:17:27 System Service program startup 5 12/18/2012 16:05:33 System Service program is terminated			3 12/19/2012 15:17:32	System	IPv4-SNMP Server: OK	Pv6-SNMP Server: OK	
5 12/18/2012 16:05:33 System Service program is terminated			4 12/19/2012 15:17:27	System	Service program startu	p	
			5 12/18/2012 16:05:33	System	Service program is terr	ninated	

Identification: Displays the information about the UPS's Model, Type and VA Rating. **UPS Properties:** List the major UPS properties for monitoring the UPS health, output and battery status.

Shutdown: Displays the shutdown type (Shutdown, Power Off, Hibernate) and the countdown time to shutdown the OS (in second).

Schedule: Perform a shutdown and restart, a 10-second test or a deep battery test.

Last 5 Event Log: Shows the last 5 event logs if you want to see more event logs see the Event Log page.

5.3 Monitor >> Information >> Battery

Go to **Monitor** >> **Information** >> **Battery** to view the information of the Battery Status, the Battery Measurement, and the Battery Replacement Date.

	5	Sentry#D	🔂 Home 🗖 Logout
Device	System		System Time : Wed 02/06/2013 AM 08:10:0
Histo	ry About		
0	Monitor » Information » B	attery	
0	Battery		
0		Status	
0	St	atus: Normal rger: Charging	
0	Test Re	esult Passed	
0	On Battery 1	īme: Ú .Second(s)	
	N	leasurement	
- 1	Battery Cap	acity: 100%	
- 1	Vol	tage: 41.4 V	
	Tempera	ture: 23 °C	
- 1	Remaining 1	Time: 34 Minute(s)	
- 1	Rep	lacement Date	
	Last Battery Replacem	ent Date: 10/30/2011 (MM/DD/YYYY) ent Date:	
	N 2 LOGIE	Device System History About Monitor × Information × B Battery Battery Battery St Cha Cha Battery On Battery T Monitor × Information × B Battery Cha Battery St Cha Battery Cha Cha	Status Status Battery Battery Battery Status Battery Status Status Kormal Charges Charging Test Result: Passed On Battery Time: 0 Battery Status Resurement Battery Battery Capacity: Second(s) Measurement 100% Votage: 41.4 V Temperature: 23 C Remaining Time: 34 Minute(s) Replacement Date 10/30/2011 (MM/DD/YYYY) Next Battery Replacement Date: 10/30/2011 (MM/DD/YYYY)

5.4 Monitor >> Information >> In/Out/Bypass

Go to **Monitor** >> **Information** >> **In/Out/Bypass** to view the information of the Input, the Bypass (not applicable to all models) and the Output measurements.

Monitor	Device	System	Sys	item Time : Wed 12/19/2012 PM 03:2
Information	Histor	ry About		
Summary	0	Monitor » Information » In/Out/Bypas	5	
Battery	D	Input	Output	
In/Out/Bypass	0	Frequency: 60.0	Hz Measu	urement
Identification	0	Voltage: 122.7	V Output Source: N	Iormal
demandedom	~		Frequency: 6	i0.0 Hz
Status Indication	0	Bypass	Voltage: 1	22.7 V
Chutdownlacot			Current 1	I.6 A
ShutdownAgent			Power: 2	04 Watt
			Loading: 3	13 %
			Outlet Beat	
			Outlet Balik	-

5.5 Monitor >> Information >>Identification

Go to **Monitor** >> **Information** >> **Identification** to view the Identification and the UPS Rating information.

		5	Sentr	HD		🟦 Home	Logout
Monitor	Device	e System			System Ti	me : Wed 12/19/20	12 PM 03:23
Information	Histo	ry About					
Summary	0	Monitor » Information » I	dentification				
Battery	D	Identification		UPS Rating			
In/Out/Bypass	0	N	lodel: E750RTXL2U		VA:	750 VA	
Identification	0	UPS Firm	Type: Line interactive ware: T012_02 00	Inj	Power: out Voltage:	600 Watt 125 v	
Status Indication	0	Web Soft	ware: 02.01.02	Out	out Voltage:	125 v	
PhutdownAgoot					Frequency:	60.0 Hz	
ShutdownAgent				High Trans	fer Voltage:	166 V	
				Low Trans	fer Voltage:	78 v	_

5.6 Monitor >> Information >> Status Indication

Go to Monitor >> Information >> Status Indication to view the status of the UPS.

	EMAN OLOGIES		SentryHD	🔒 Home 🛛 Loga
Monitor	Device	System		System Time : Thu 08/28/2014 PM 02
Information	History	About		
Summary	-0× h	Nonitor » Information » Status	Indication	
Battery	0	Status Indication		
In/Out/Bypass	-0	Economy Mode	UPS Disconnect	Output Over Voltage
International Action Ser	100	Buzzer Enabled	Ø Buzzer Alarm	Output Under Voltage
Identification			Input Out Of Range	Overload
Status Indication	0		Battery Low	Over Temperature
Sec. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	10		Battery Depleted	Other Warning
ShuldownAgent			Battery Need Replace	Fan Abnormal
			Battery Ground Fault	Fuse Abnormal
			Test In Progress	Inverter Abnormal
			Test Fail	Charger Abnormal
			Output Off	Bypass Out Of Range
			On Bypass	Emergency Power Off
			UPS System Off	Phase Asynchronous
			UPS Shutdown	Rectifier Abnormal
			Output Breaker	

5.7 Monitor >> Information >> ShutdownAgent

Go to **Monitor** >> **Information** >> **ShutdownAgent** to view the information about the MM ShutdownAgents which you assigned to work with SentryHD to protect a group of servers.

	CHAN OLOGIES Je Fore System L. Dec		Sentry#D			🟦 Home	Logout
Monitor	Device	System		Sys	tem Time :	Tue 02/05/20	13 PM 02:18
Summary Battery	0	Monitor » Information » Sh	uutdownAgent				
n/Out/Bypass dentification	0	IP Address	OS	Countdown (sec)	Reason	Last Touch (sec)	
Status Indication	0	1 192.168.168.175 RobertXP	Microsoft Windows XP Professional Service Pack 3 (build 2600)		None	2	
ShutdownAgent	0						

5.8 Monitor >> History >>Event Log

Go to **Monitor** >> **History** >> **Event Log** to view the events that occurred. The existing events are overwritten when the maximum number of entries (10,000) is reached. You can also download the entire event log file (event_log.csv).

Information Ustory About System System System System information History About Monitor » History » Event Log » Page1 Information Event Log Information Event Log Information Event Log Information Event Log Information Information Event Log Information Information <td< th=""><th></th><th>Contract of the second</th><th>1. 0</th><th></th><th></th><th></th><th></th></td<>		Contract of the second	1. 0				
Information History About Sivent Log Image: Signal Log<	Monitor	Device	System			System Time : Thu 12/20/2012 A	AM 08:
Sivent Log Monitor = History = Event Log = Page1 Data Log Page Image: Complexity of the second	Information	History	ADOUT				
Data Log Event Log Configure Page I Page Page I Page Page I Page Page Page Page Page	Event Log	0	Monitor » History	» Event Log	» Page1		
Configure Page 1 2 Download A © From 122002012 (AMADDYYYY) To 122002012 (AMADDYYYY) To 122002012 Event Log Event Log Date Time Level Event Log 122002012 00:27:33 Warning Power restore 122002012 122002012 00:27:27 Warning Power restore 122002012 00:27:23 122002012 00:27:23 Warning On battery mode 122002012 00:27:23 122002012 00:27:23 Warning Power restore 122002012 00:27:33 122002012 00:27:23 Warning Power restore 122002012 00:27:34 12202012 00:27:23 Warning Power restore 121902012 15:59:36 121902012 15:30:53 Warning Power restore 121902012 15:30:52 121902012 15:30:52 information Stop countdown to stutdown 121902012 15:30:31 121902012 15:30:37 Warning Countdown to stutdown 121902012 15:30:31 121902012	Data Log	0	Event Log				
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12/18/2012 16:05:33 System Service program is terminated			12/19/2012	15:17:27	System	Service program startup	
			12/18/2012	16:05:33	System	Service program is terminated	
12/18/2012 14:00:15 System Account admin login from 127.0.0.1:15022			12/18/2012	14:00:15	System	Account admin login from 127.0.0.1:15022	

Date: The date when the event occurred.

Time: The time when the event occurred.

Level: The Event Level of the event occurred.

Event Log: The description of the event that occurred.

Download All: Download the entire event log file in csv format.

SentryHD sends a request to the UPS, collects the event logs saved in the UPS, and displays them in the event log. Please note that this option only appears when the UPS supports this function, and the event logs saved in the UPS may be different from the event logs saved in the SentryHD.

5.9 Monitor >> History >>Data Log

Go to **Monitor** >> **History** >> **Data Log** to view the history values for a single day, a month, a year and a user defined period of time. You can also download the history data by clicking the "Download" button.



5.9.1 Observe by Day

Click on the **Day** tab to view the history values for a specific day.

Date Text Box: Click on the Date text box to pop-up a calendar to pick a date to view the history values for the connected UPS.

Line Chart: Each line color indicates a different item's value. Move your cursor over the line to display the time and associated value.

Color Boxes: Click on the color boxes to disable the line, click them again to enable the line.

Download: Exports the data log to a csv file.

5.9.2 Observe by Month

Click on the **Month** tab to view the history values for a specific month.

Date Text Box: Click on the Month text box to pop-up a calendar to pick a month to view the history values for the connected UPS.

Line Chart: Each line color indicates a different item's value. Move your cursor over the line to display the time and associated value.

Color Boxes: Click on the color boxes to disable the line, click them again to enable the line.

Download: Exports the data log to a csv file.

5.9.3 Observe by Year

Click on the Year tab to view the history values for a specific year.

Year Text Box: Click on the Year text box to pop-up a calendar to pick a year to view the history values for the connected UPS.

Line Chart: Each line color indicates a different item's value. Move your cursor over the line to display the time and associated value.

Color Boxes: Click on the color boxes to disable the line, click them again to enable the line.

Download: Exports the data log to a csv file.

5.9.4 Observe by User Defined

Click on the Specific tab to view the history values for a specific period of time. **Date Text Box:** Click on the Date text box to pop-up a calendar to pick a range of days then press the Apply button to view the items for the connected UPS.

Line Chart: Each line color indicates a different item's value. Move your cursor over the line to display the time and associated value.

Color Boxes: Click on the color boxes to disable the line, click them again to enable the line.

Download: Exports the data log to a csv file.

5.10 Monitor >> History >>Configure

Go to **Monitor** >> **History** >> **Configure** to clear the history data logs and event logs. You can also assign the Save Data Interval.

	NOLOGIES be fore Systems, bec			💼 Home 🔲 Logout
Monitor	Device	System		System Time : Wed 12/19/2012 PM 03:28:0
Information	History	About		
Event Log	0 M	onitor » History » Co	onfigure	
Data Log	D	History Data		Event Log
lata Log	0	Clear History D Data Storage: 12 Apply Auto Export	atamonth(s)	Clear Event Log Maximum event log entry: 10000
		Path Name: (File Na C:\Program Fi Apply	ime:UPS.csv) les\SentryHD\Report\ .ii	

Clear Event Log: Clears all of the data logs.

Data Storage: Assign the number of months you want to save the data log.

Auto Export: Saves the data log in the specified directory at the assigned interval.

The software creates the "UPS.csv" file to export the data.

Interval: The interval to append the UPS data to the file.

Path Name: The directory where data file will be exported to.

5.11 Monitor >> About Information

Go to **Monitor** >> **About** >> **Information** to view the information about the Host computer and SentryHD.



5.12 Device >> UPS >>Configure

Go to **Device** >> **UPS** >> **Configure** to configure the UPS. The configuration values are saved in the UPS or in SentryHD and these values change the operation of the UPS. The configuration items include the following.

POWER TECH	NOLOGIES w Fare Sector 1 Jac		POWER MANAGER		
Monitor	Device	System		System Time : Thu 08/28/2	014 PM 02:00:4
ups	Management	Notification			
Configure	0	Device » UPS » Configure			
ontrol	0	Configure			
vent Level	0	Select UPS Configuration: Auto-Restart UPS Buzzer Low Battery Battery Replacement Date External Battery Pack Economy Mode Refresh		Economy Mode Economy Mode: 🗹 Enable Submit	

NOTE: Different UPSs support different configuration options.

Auto Restart: After you click Submit to confirm your auto restart setup, the SentryHD will send the command to the UPS to enable auto restart. The default value is enable. **UPS Buzzer:** After you click Submit to confirm your buzzer setup, the SentryHD will send the command to the UPS to enable buzzer. The default value is enable.

Low Battery: This configuration saves the setup values in the SentryHD and compares with the values received from the UPS. If the received battery level is lower than the assigned one, the SentryHD will trigger a low-battery alarm. The default value is disabled.

Battery Replacement Date: After you set up the battery replacement dates, the SentryHD will send the command to the UPS and save the information in the UPS. The user can define how many days in advance that the want to be notified of the Next Battery Replacement Date. The default values are enable and 60-days.

External Battery Pack: After you click Submit to confirm the number of External Battery Packs that are connected to the UPS, SentryHD will send the command to the UPS and save the information in the UPS. The default value is 0.

NOTE: The correct number of External Battery Packs must be selected so that the UPS and SentryHD will report the proper Estimated Runtime.

Outlet Banks: This option is for the "Load Shedding" function. The user can turn off Bank 1 or Bank 2 whichever has the non-mission critical equipment connected to it. Turning off this outlet bank can extend the battery backup time for the mission critical equipment.

Economy Mode: Configure the UPS to operate in the Economy mode. See the UPS user's manual for the Economy mode operation.

5.13 Device >> UPS >>Control

Go to **Device** >> **Management** >> **Control** to configure the control commands. After you click Submit, SentryHD will send the commands to the UPS to enable the functions. The control items include the following:

	HNOLOGIES		Sentry#D	🔂 Home	🗖 Logout
Monitor	Device	System	Syste	m Time : Wed 12/19/20	012 PM 03:32:17
UPS	Management	Notification			
Configure	0 0	levice » UPS » Control			
Control	0	Control			
Event Level	0	Select UPS Control: Battery Test Outlet Control Buzzer Mute	Battery Test Battery Test Type: 10-seconds Test Submit Description: Send the command to the UPS to perform to	+ battery test	

Battery Test: After you select the battery test type and click Submit SentryHD will send the command to the UPS to perform the selected battery test.

Outlet Control: Press the Switch Bank button to control the UPS outlet banks to turn them off or turn them on.

Buzzer Mute: The UPS's buzzer/alarm can be silenced while the UPS is operating in the Battery Mode. Once the UPS reaches a Low Battery Warning the buzzer/alarm will be turned back on and cannot be silenced during this period. If the UPS switches back to the AC Normal Mode the buzzer/alarm will be reset. Once another power failure occurs the buzzer/alarm will sound. The buzzer/alarm cannot be silenced during fault conditions.

5.14 Device >> UPS >>Event Level

Go to **Device** >> **UPS** >> **Event Level** to set up different event levels. If you want to receive an event notification, refer to **Notification - SNMP Trap** and **Notification - Mail Server.**

		Sentry#D	🔂 Home 🛛 Logo
Monitor	Device	System	System Time : Wed 12/19/2012 PM 03:
UPS	Management	Notification	
onfigure	0 0	evice » UPS » Event Level	
ontrol		Event Level	
		Funct Over temperature	
vent Level	0	Level: Alarm Vigidate	
		Event Description	Level
		1 Over temperature	Alarm
		2 Recover from over temperature Rower fail	Alarm
		A Power restore	Watning
		5 Output abnormal	Alarm
		6 Recover from output abnormal	Alarm
		7 Overload	Warning
		8 Recover from overload	Warning
		9 Bypass abnormal	Alarm
		10 Recover from bypass abnormal	Alarm
		11 Turn UPS output off	Alarm
		12 Turn UPS output on	Alarm
		12 UPS shutdown	Warning
		14 Recover from UPS shutdown	yvarning
		15 Charger abnormal	Alarm
		10 Charger back to normal	Alarm
		18 LIPS system on	Alarm
		10 Fan fail	Alarm
		20 Recover from fan fail	Alarm
		21 Fuse fail	Alarm
		22 Recover from fuse fail	Alarm
		23 UPS general fail	Alarm
		24 UPS recover from general fail	Alarm
		25 Waiting for the input power return	Alarm
		26 Input power returned	Alarm
		27 UPS count down to shutdown	Alarm
		28 UPS no longer count down to shutdown	Alarm
		29 UPS is shutting down	warning
		30 UPS is not in the shutdown process 34 LIPS buzzor is plarming	None
		32 LIPS buzzer is no longer slorming	None
		33 LIPS is in the economic mode	information
		34 No longer in the economic mode	Information
		35 Inverter abnormal	Warning
		36 Inverter back to normal	Warning
		37 Emergency power off	Warning
		38 Recover from emergency power off	Warning
		39 UPS buzzer is disabled	Information

5.15 Device >> Management >> Communication

Go to **Device** >> **Management** >> **Communication** to select the appropriate communications port to communicate with the UPS. The default value is Auto. SentryHD will detect the connected UPS automatically and keep this information in the configuration file.

	IN OLOGI		Sentry HD	🤠 Home 🛛 Logout
Monitor	Devic	e System		System Time : Wed 02/06/2013 PM 12:45:47
UPS	Маладете	nt Notification		
Communication	0	Device » Management »	Communication	
Configure	D	Communication		
Control	0	COM Port:	Auto 👻	
Weekly Schedule	0	1	Submit	
Specific Schedule	0			

5.16 Device >> Management >> Configure

Go to **Device** >> **Management** >> **Configure** to configure the major functions, they are: Shutdown, Reaction, Execute an External Command and Manageable.

	IN OLOGIES E Pare Sarbert, De	Sentry#	🔂 Home 🔤 Logout
Monitor	Device	System	System Time : Wed 12/19/2012 PM 03:33:2
Communication	Management	Notification Device » Management » Configure	Baselins
Control Weekly Schedule	0	OS Shutdown Type: Shutdown ▼ UPS Shutdown Delay: 120 second(s)	Period: 0 second(s)
Specific Schedule	0	Enable Event OS Shutdown Delay (in seconds) 1 Image: Power Fail 300 second(s) 2 Image: Power Fail 300 second(s) 3 Image: Schedule Shutdown 300 second(s)	Execute Command File
		Schedule Shutdown Send the Smart Shutdown SNMP Trap before Shutdown: 120 second(s) Submit	Run before Shutdown: 120 second(s) Submit Manageable
			Allow the SentryHD to be managed by an authenticated manager. Submit Note: The authenticated manager can be a centralized management software. Enable this option to integrate the SentryHD in the power management environment.

Shutdown: Select the Shutdown Type to determine the best way to shutdown the operating system. The options are Shutdown, Power Off and Hibernate. The default value is Shutdown. Select the event that will trigger the Shutdown action and enter the amount of time it will take the OS to shutdown. If the event recovers during the countdown then the shutdown process will be cancelled, the host will not be shutdown.

Reaction: Enable the Notify Message to pop-up a message box once an event occurs. Assign the period value to report the message periodically, setting a 0 as the value will pop-up the message only once.

Enable the Execute Command File to run an assigned external file before shutting down. Set a time value to the Run Before Shutdown to inform SentryHD when to launch the assigned executable file.

Manageable: Select Allow the SentryHD to be managed by an authenticated manager option to let SentryHD reply to queries from any authenticated manager. The authenticated manager can be a centralized management software. The authenticated manager can provide a comprehensive list of all of the SentryHDs and ShutdownAgents.

The authenticated manager communicates with SentryHD through SNMPv3 with the first default account in the SNMPv3 USM list. If the Allow the SentryHD to be managed by an authenticated manager option is enabled, then the permission of manager account changes to "Read/Write", otherwise the permission is Disable. The default setting of Allow the SentryHD to be managed by an Authenticated Manager option is enabled.

5.17 Device >> Management >> Control

Go to **Device** >> **Management** >> **Control** to configure the major functions, they are: Local Control, Remote Control, and Forward Simulation Trap.

Monitor	Device	System	System Time : Wed 12/19/2012 PM 03:3
UPS	Management	Notification	
Communication	0 0	levice » Management » Control	
Configure	0	Local Control	Forward Simulation Trap
Control	0	Cancel Countdown	Power Fail Power Restore
Weekly Schedule	0	Pause Notify Message	Note: The forward simulation trap will send the related trap of
Specific Schedule	0	Note: The Pause Notify Message will stop the pop up messages until the next time the status changes.	UPSv4 MIE to the assigned SIVMP ITAD LIST.
		Cancel Shutdown Note: Send the Cancel Shutdown SNMP trap to the assigned target	

Local Control: Press the "Cancel Countdown" button during the countdown shutdown process to stop the countdown. Press the button again to resume the shutdown process. In addition to selecting the Resume Countdown menu item to continue the countdown process, it will also start a new countdown process.

Press the "Pause Notify Message" to pause the notification message. The message will resume when the UPS status changes.

Remote Control: Press the "Cancel Shutdown" button to send the Cancel Shutdown trap to all of the target SNMP hosts to stop the shutdown process.

Forward Simulation Trap: Press the "Power Fail" button to send the simulated power fail SNMP trap to the assigned targeted IP addresses.

Press the "Power Restore" button to send the simulated power restore SNMP trap to the assigned targeted IP addresses.

5.18 Device >> Management >> Weekly Schedule

Go to **Device** >> **Management** >> **Weekly Schedule** to arrange a weekly schedule for the UPS. You can select No Action, Shutdown, Restart, 10-Second Test, and set up the day and the time you want the action to be executed.

NOTE: The priority of a specific schedule is higher than the weekly schedule.

Monitor	Dovico		Sustam	_				_		.0.	atam Tima	- West 19/10/01	12 011 02
UPS M	anagement		Notification							Sy	stern mine	: wed 12/19/20	112 PM 03.
Communication	0	Device »	Management » Wee	kly Sch	edule								
Configure	0	Wee	kly Schedule										
Control	0	1	Action		SUN	MON	TUE	WED	THR	FRI	SAT	Time	1
Weekly Schedule	0	1	10-Seconds Test	. 💌				V				06:00	
Pageific Schodula		2	Shutdown	•						1		17:00	
opecine ocnedule	- ×	3	Restart	•		1						05:00	
		4	No Action	•								00:00	
		5	No Action									00:00	
		6	No Action	-								00:00	
		7	No Action	•								00:00	
		8	No Action	-								00:00	

5.19 Device >> Management >> Specific Schedule

Go to **Device** >> **Management** >> **Specific Schedule** to arrange a specific schedule for the UPS. You can set up a specific date (MM/DD/YYYY) and time (hh:mm) for a specific action (Stop Action, Shutdown, Restart, 10-Second Test, Deep Battery Test) to be performed. **NOTE**: The priority of a specific schedule is higher than the weekly schedule.

POWER TECHN	OLOGIES		(a)	OWER MANAGER		
Monitor	Device	Sy	stem		System T	ime : Wed 12/19/2012 PM 03:
UPS M	anagement	Not	ification			
Communication	0	Device » Mar	nagement » Specific Schedule	8		
Configure	0	Specific	Schedule			
Control	0	1	Date(MM/DD/YYYY)	Time(hh:mm)	Action	
Veekly Schedule	0	1	00/00/2000	00:00	Stop Action	•
Casalifia Cabadula		2	00/00/2000	00:00	Stop Action	•
specific schedule	•	3	00/00/2000	00:00	Stop Action	T
		4	00/00/2000	00:00	Stop Action	•
		5	00/00/2000	00:00	Stop Action	•
	- 1	6	00/00/2000	00:00	Stop Action	¥ (
	- 1	7	00/00/2000	00:00	Stop Action	-
	- 1	8	00/00/2000	00:00	Stop Action	-
	- 1	9	00/00/2000	00:00	Stop Action	-
		10	00/00/2000	00:00	Stop Action	Ŧ
	- 1	11	00/00/2000	00:00	Stop Action	•
	- 1	12	00/00/2000	00:00	Stop Action	-
	- 1	13	00/00/2000	00:00	Stop Action	•
	- 1	14	00/00/2000	00:00	Stop Action	-
	- 1	15	00/00/2000	00:00	Stop Action	•
	- 1	16	00/00/2000	00:00	Stop Action	T
	- 1			Submit		

5.20 Device >> Notification >> SNMPv1 Access

Go to **Device** >> **Notification** >> **SNMPv1 Access** to configure the SNMPv1 access. SentryHD supports SNMP protocol and SNMP NMS (Network Management System), which are commonly used to monitor network devices. To prevent unauthorized access you can specify the NMS IP addresses, their community strings and access levels. The maximum number of IP entries is 255.

	NOLOGIE be Parts System L. La	5	() Se	entryHD			TE Home	La Logour
Monitor	Device	System				Syster	m Time : Tue 02/05/20	13 PM 02:21
UPS	Management	Notification						
SNMPv1 Access	0	Device » Notification » !	SNMPv1 Access					
SNMPv3 USM	0	SNMPv1 Access	Table					
SNMP Trap	0	SNMP Port. 161	Download MIB: Sentry	HD				
lail Server	0	Countrie		_		Anning (Deciden		
3MS	0	Access IP Community	: 192.168.168.175			packets to be rec	eived from any host.	sivir
Wake On LAN	0	Permission	Read Only Add Update	Delete				
			IP Address	11	Community	1	Permission	
		1	192.168.168.175		public		Read Only	

5.21 Device >> Notification >> SNMPv3 USM

Go to **Device** >> **Notification** >> **SNMPv3 USM** to configure the SNMPv3 access. SNMPv3 offers features such as the encryption of packets and authentication to improve security. The SNMPv3 USM (User Session Management) allows you to assign 32 User Names whose access is granted via SNMPv3 protocol. You can also define their respective Security Levels, Auth Passwords, Priv Passwords and Permission. The first account cannot be deleted, to disable it go to the **Device** >> **Management** >> **Configure** page and then uncheck the manageable option.

POWER TEC			() Ser	ntryHD		Home	
Monitor	Device	System			System Time	Wed 12/19/20	12 PM 03:38
UPS	Management	Notification					
3NMPv1 Access	0	Device » Notification » SNMF	V3 USM				
SNMPv3 USM	0	SNMPv3 USM					
SNMP Trap	0	Context Name: cn1027 Auth Protocol: MD5	Priv Protocol: C	BC-DES			
Mail Server	0	Submit					
SMS	0	User Name	e: manager		Security Level: Auth, Priv	*	
Wake On LAN	0	Auth Password Permission	d: ******** n: Read/Write ▼		Priv Password: ********		
				Add			
		User Name	Security Level	Auth Password	Priv Password	Permiss	ion
		1 manager	Auth, Priv	*******	*******	Read/W	rite

5.22 Device >> Notification >> SNMP Trap

Go to **Device** >> **Notification** >> **SNMP Trap** to configure the SNMP Traps. To enable the SNMP Traps, you must add the Target IP addresses to the Target IP list. Specify the Community String, Trap Type, MIB, SNMPv3 User Name (If the Trap Type is SNMPv3), UDP port, and Event Level. To update or delete a Target IP address, select the IP address in the Target IP list, and click Update or Delete. You can add up to 255 Target IP addresses in the list.

Monitor	Device	System			System Tin	ne : Tue 02/05/20	13 PM 02:24
UPS	Managemen	t Notification					
SNMPv1 Access	0	Device » Notification » SNMP Tr	ар				
SNMPv3 USM	0	SNMP Trap Target List					
SNMP Trap	0	Target IP:	192.168.168.175		Community String: public		
Mail Server	0	Тгар Туре:	SNMPv1 -		MIB: UPSv4	•	
SMS	0	Send Trap: SNMPv3 User Name:	Once 🔻		Trap Port: 162 Event Level: MM Shut	downAgent 👻	
Wake On LAN	0	The SNMPv3 User Name mu Name in the <u>SNMPv3 USM</u> t	st be the same as ti able.	ne User SNMP Port	for ShutdownAgent: 161		
		1 miles / 1 miles /	Ad	d Update Del	lete		
		Target IP	Community Po	ort MIB Type	Event Level	SNMPv3 Use	r.
		1 192.168.168.175	public 1	62 UPSv4 v1	MM ShutdownAgent		

You can select which event notifications should be sent to the Target IP addresses. **Event Level:** Three Event Levels are listed as follows:

Information: All event notifications are sent to the target IP address.

Warning: Both Warning and Alarm event notifications are sent to the target IP address.

Alarm: Only Alarm event notifications are sent to the target IP address.

Go to **Device** >> **Management** >> **Event Level** to change the event level.

MM ShutdownAgent: All of the power events will be sent to the assigned MM ShutdownAgent. SentryHD will collect all of the MM ShutdownAgent information via the SNMPv3 "manager" account and then display them in the **Monitor** >> **Information** >> **ShutdownAgent** page.

NOTE: SentryHD provides SNMPv1, SNMPv2c and SNMPv3 traps. If you use the SNMPv3 trap, the SNMPv3 USM table must be configured.

5.23 Device >> Notification >> Mail Server

Go to **Device** >> **Notification** >> **Mail Server** to configure the email notifications. The user can set up the SMTP Server and the email receiver so the designated recipient can receive the email notification from SentryHD whenever an event occurs.

Monitor	Device	System		System Time : Tue 02/05/2013	PM 02:28
UPS	Management	Notification			
3NMPv1 Access	0 0	evice » Notification » Mail Server			
SNMPv3 USM	D	Mail Server Configuration			
SNMP Trap	0	SMTP Server Name or IP: xxzzy.minutema	nups.com (51 bytes max.)	The Account and Password are not	
Mail Server	0	SMTP Server Port: 25		regulieu la seria emans.	
SMS	0	Account: admin	(32 bytes max.)		
Wake On LAN	0	Password: ••••••	(16 bytes max.) Submit		
			Mail List		
		Receiver: support@minutemanup Event Level: Information ▼ [s.com Add Update Delete		
		Re	eceiver	Event Level	
		1 support@mii	nutemanuns com	Information	

SMTP Server: This is the hostname of the SMTP Mail Server used to send the email message from SentryHD.

Account: The SMTP server login account (Not required).

Password: The SMTP Server login password (Not required).

Add, Update, and Delete: Add, update or delete a receiver.

5.24 Device >> Notification >> SMS

Go to **Device** >> **Notification** >> **SMS** to configure the SMS parameters. To send the SMS message to your mobile phone, a GSM modem must be connected to your computer through a RS232 COM port. SentryHD will send the SMS through AT command by PDU format. Any GSM modem that supports the following three AT commands will work with SentryHD:

AT AT+CMGF AT+CMGS

GSM Modem: Assign a COM port and the Baud Rate for the GSM modem. **Mobile Phone Number:** Add, edit or delete the mobile phone numbers in the list.

	H N O L O G I E S b Fore Setterne bet	Sentry#D	🔒 Home 🛛 Logout
Monitor	Device	System System Ti	me : Wed 12/19/2012 PM 03:47
UPS	Management	Notification	
SNMPv1 Access	0 1	vevice » Notification » SMS	
SNMPv3 USM	0	GSM Modem	
SNMP Trap	0	COM Port: Disable - Baud Rate: 2400	*
Mail Server	0	Submit	
SMS	0	Mobile Phone Number	
omo		Phone Number:	
Wake On LAN	0	Event Level: None Add	
		Mobile Phone Number	Event Level
		1	None

5.25 Device >> Notification >> Wake On LAN

Go to **Device** >> **Notification** >> **Wake On LAN** to configure the parameters to start up client PCs through the network using their MAC address. The maximum is 256 MAC addresses. This configuration can wake up client PCs after the power is restored or SentryHD starts up

						🔁 Home	Logout
Monitor	Device	System			System Time : V	Ved 12/19/20	12 PM 03:47:5
UPS	Management	Notification					-
SNMPv1 Access	0	Device » Notification » Wake C	Dn LAN				
SNMPv3 USM	0	WOL Host List					
SNMP Trap	0		Title: None				
lail Server	0	MAC (xx-xx-xx-	xx-xx-xx): 00-00-00-00-00 Delay: 0 minute(s)				
SMS	0	Wake Up C	ondition: Power Restore	System Startup			
Wake On LAN	0		Add				
		Title	MAC	Delay	Restore	Startup	
		1 None	00-00-00-00-00-00	Ō	No	No	

5.26 System >> Administration >> Information

Go to **System** >> **Administration** >> **Information** to assign the system information for SentryHD, including the Installation Date, the Location and a Description.

	MAN	5	Sen.	tryHD	🔂 Home	🗖 Logout
Monitor Administration	Device	System		-	System Time : Wed 12/19/20	012 PM 03:48:23
Information	0	System » Administration » In	formation			
Login User	0	Information				
Web	0	System Name:	SentryHD			
Batch Configuration	0	System Contactor:	Para			
		System Location: Installation Date:	12/18/2012	(MM/DD/YYYY)		
	- 1	Description	Battery Backup			
				Submit		

5.27 System >> Administration >> Login User

Go to **System** >> **Administration** >> **login User** to manage the login authentication for the web interface by assigning 3 different levels of user accounts.

The access permission for the account types are listed as follows:

Administrator: Permitted to modify all settings.

Device Manager: Permitted to modify device-related settings.

Read Only User: Only permitted to view the SentryHD status.

	O L O G I de Porte System c			Stells		💼 Home 🗖 Logout
Monitor	Devic	e Syst	em		System Time : Wed 12/19/2012 PM 03:49	
Administration	-		-			
Information	0	System » Adm	ninistration » Login User			
Login User	0	User Man	ager			
Web	0	1	Privilege	Account Name (16 chars max.)	Password (16 chars max.)	
Batch Configuration	0	1	Administrator	admin		
	- 1	2	Device Manager	device		
	- 1	3	Read Only User	user	*******	
	- 1			Submit		

5.28 System >> Administration >> Web

Go to **System** >> **Administration** >> **Web** to configure the HTTP/HTTPS communication protocols available in SentryHD.

	OLOGIE In Para System L. C	5	(Sentry	HD	te Home	Logout
Monitor Administration	Device	System		System	n Time : Wed 12/19/20	012 PM 03:50
Information	0	System » Administratio	n » Web			
Login User	0	Configure Web		SSL Certificate		
Web	0	HTTP:	Enable Disable	Certificate File (PEM format):		
Batch Configuration	0	HTTPS: HTTP Port	Enable Disable	Update the certificate file, which i for the new SSL connection.	Browse s generated by openssl	
		Web Refresh Period:	3 Seconds	Subm	ut]	

HTTP: Enabling or disabling the HTTP connection with SentryHD.

HTTPS: Enabling or disabling the HTTPS connection with SentryHD.

HTTP Port: The HTTP port can be changed to a different port instead of the standard HTTP port (80).

HTTPS Port: The HTTPS port can be changed to a different port instead of the standard HTTP port (443).

Web Refresh Period: The time period to refresh the web pages. The range is 1~9999 seconds.

SSL Certificate: To ensure a secure connection between SentryHD and the connected workstation, an SSL certificate can be used to encrypt and secure the integrity of transmitting data.

Certificate File: This allows you to replace your own SSL certificate file. SentryHD supports PEM format which is generated by OpenSSL. Click Choose File to upload a certificate file.

5.29 System >> Administration >> Batch Configuration

Go to **System** >> **Administration** >> **Batch Configuration** to perform batch configurations. SentryHD provides batch configuration to allow quick and effortless setup on multiple SentryHD hosts. You can duplicate settings by downloading the configuration file from the SentryHD that you have successfully configured, and upload the configuration files on other hosts.

Download: Download the config.ini for you to store or edit the configuration file. **Upload:** Upload the configuration file to SentryHD to apply the changes.

		Sentry#D	🔂 Home 🗖 Logout
Monitor	Device	System	System Time : Wed 12/19/2012 PM 03:50:18
Administration			
Information	0	System » Administration » Batch Configuration	
Login User	0	System Configuration	
Web	0	Configuration File: Download	
Batch Configuration	0	Browse Upload	
		Description The batch configuration is used to configure all of the system parameters at one time. Please follow the following steps to complete the process: Step 1 Press the Download button to download the configure ini file which includes all of the system compared to the system	
		Step 2 Please follow the file format, there must be a [Section] before the item_name=item_value. And the last line must be the [End] section.	
		Step 3 Edit the configure ini file by the text edit software. Remove the items which you don't want to be changed, just leave the items which you want to configure.	
		Step 4 Select the modified configure ini file and press the Upload button to upload the file.	
		Step 5 Wait for about 10 seconds for the system to update the changes.	

6. 2008 Server Core Setup for SentryHD

While installing SentryHD in the 2008 server core, it requires the following commands to transfer the file and add some rules for firewall.

1. Disable firewall:

netsh advfirewall set allprofiles state off

2. Enable firewall:

netsh advfirewall set allprofiles state on

- 3. Add a remotely shared directory: net use e: \\<ip address>\e
- 4. Open the SNMP Trap UDP 162 netsh advfirewall firewall add rule name="SNMPTrap" protocol=UDP dir=out localport=162 action = allow
- Open SNMP Server UDP 161
 netsh advfirewall firewall add rule name="SNMPServer" protocol=UDP dir=in localport=161 action = allow
- 6. Open the HTTP TCP 80

netsh advfirewall firewall add rule name="HTTP" protocol=TCP dir=in localport=80 action = allow

Open HTTPS TCP 443
 netsh advfirewall firewall add rule name="HTTPS" protocol=TCP dir=in localport=443 action = allow

First, put the SentryHD-Setup(x64).exe setup file in the 2008 server directory. If there is no CD-ROM you can set the "Disable firewall" command, "Add a remotely shared directory" command then copy the file from your PC to the 2008 server. Don't forget to set the "Enable firewall" command when finished.

Second, follow Chapter 2 to install SentryHD in the 2008 server.

The last step is to use the open HTTP/HTTPS, SNMP Trap/Server port commands to open the necessary ports.

You can run the UPS-Config.exe to configure the basic networking parameters for the web and SNMP network protocols after installation.

C:\Program Files\SentryHD\U	JPS-Config.exe	
		*
+22222222222222222222	+	
I SentryHD	1114	
[11 SNMD Server Dert.	101	
[1].SMMP Server Port: [21 HTTD.	Enable	
131 HTTPS	Enable	
[41.HTTP Port:	80	
[5] HTTPS Port:	443	
[6].Manageable:	Enable	
[7].Save		
[8].Set Firewall		
[9].Restart SentryHD	Service	
[0].Exit	Pair and	
Please Enter Your Cho	ice a>	÷

Select number [8] to configure the firewall for SentryHD.

C:\Program Files\SentryHD\U	PS-Config.exe	
		* [III]
+======================================	===+	
I SentryHD		
+======================================	===+	
[1].SNMP Server Port:	161	
[2].HTTP:	Enable	
[3].HTTPS:	Enable	
[4].HTTP Port:	80	
[5].HTTPS Port:	443	
[6].Manageable:	Enable	
[7].Save		
[8].Set Firewall		
[9].Restart SentryHD S	ervice	
[0].Exit		
Please Enter Your Choi	ce => 8	
We'll help to insert o	r remove the firewall rules of SentryHD for you,	
Do you want to insert	or remove the firewall? [I]nsert, [R]emove	
Please Enter Your Choi	ce =>	

7. XenServer Setup for SentryHD

To install SentryHD in the Citrix XenServer, see 2.2 For Linux in Chapter 2 Installation/Uninstallation. To configure the basic networking parameters including the firewall, see Chapter 3 Console Configuration.

7.1 Install PV driver for Guest OS

To shutdown the guest OS from XenServer, the PV driver must be installed on all of the guest OSes for them to properly shutdown.

7.2 Configure SentryHD for Xen

Enter the estimated time for all of the guest OSes that operate on the XenServer server to properly shutdown.

- 1. Login to the web interface of SentryHD. The account level should be equal to or greater than the device manager.
- 2. Go to the **Device** >> **Management** >> **Configure** page and fill in the estimated time in the Run Before Shutdown field of the Reaction group.
- 3. Enter /user/local/sentryhd/command/command.Xen script file to shutdown the guest OSes. Then check the Execute Command File checkbox to enable the shutdown of the guest OSes.

Monitor	Device	System	System Time : Thu 02/07/2013 PM 02:0
UPS	Management	Notification	
Communication	0	Device » Management » Configure	
Configure	0	Shutdown	Reaction
Control	0	OS Shutdown Type: Shutdown 👻	V Notify Message
Veekly Schedule	0	UPS Shutdown Delay: 120 second(s)	Period: 0 second(s)
Specific Schedule	0	Enable Event OS Shutdown Delay (in seconds)	Execute Command File
		1 V Power Fail 300 second(s) 2 V Battery Low 30 second(s) 3 V Schedule Shutdown 300 second(s)	/usr/local/sentryhd /command/command.Xen File:
		Schedule Shutdown Send the Smart Shutdown SNMP Trap	Run before Shutdown: 120 second(s) Submit
		before Shutdown: 120 second(s)	Manageable
			Allow the SentryHU to be managed by an authenticated manager. Submit Note: The authenticated manager can be a centralized management software. Enable this option to integrate the SentreHD.

4. Press the Submit button to update your changes.

8. Linux KVM Setup for SentryHD

To install SentryHD in the Linux server, see 2.2 For Linux in Chapter 2 Installation/Uninstallation. To configure the basic networking parameters including the firewall, see Chapter 3 Console Configuration.

8.1 Install libvirt Tools for KVM

To shutdown the guest OS from Linux server, you have to install the libvirt. SentryHD calls the virsh to shutdown the guest OSes.

8.2 Configure SentryHD for KVM

Enter the estimated time for all of the guest OSes that operate on the KVM server to properly shutdown.

- 1. Login to the web interface of SentryHD. The account level should be equal to or greater than the device manager.
- 2. Go to the **Device** >> **Management** >> **Configure** page and fill the estimated time in the Run Before Shutdown field of the Reaction group.
- 3. Enter /user/local/sentryHD/command/command.KVM script file to shutdown the guest OSes. Then check the Execute Command File checkbox to enable the shutdown of the guest OSes.

Monitor	Device	System	System Time : Thu 02/07/2013 PM 02:02 5
UPS	Management	Notification	and the second se
Communication	0	evice » Management » Configure	
Configure	0	Shutdown	Reaction
Control	0	OS Shutdown Type: Shutdown 🔻	Votify Message
Weekly Schedule	0	UPS Shutdown Delay: 120 second(s)	Period: 0 second(s)
Specific Schedule	0	Enable Event OS Shutdown Delay (in seconds)	Execute Command File
		1 Image: Power Fail 300 second(s) 2 Image: Battery Low 30 second(s)	/usr/local/sentryhd /command/command.KVM
		3 Schedule Shutdown 300 second(s)	File:
		Schedule Shutdown	Run before Shutdown: 120 Second(s)
		Send the Smart Shutdown SNMP Trap	Submit
		before Shutdown: 120 second(s)	Manageable
			Allow the SentryHD to be managed by an authenticated manager.
			Submit Note: The suthenticated manager can be a centralized management software. Enable this option to integrate the Sentruk/D is the neuror management environment

4. Press the Submit button to update your changes.

9. Working with the MM ShutdownAgent

1. Open SentryHD's Property menu from the Windows task bar to get the IP address of the Host Server.

eneral	
System	
SentryHD	
02.01.02	
Host Information	1
IP Address=	fe80::91bb:19d5:dfe8:48ec%11 192.168.168.157
Host Name=	RobertC7
	Web
	VHTTP Port= 80
	ITTPS Port= 443
	Login Account

2. Login to the MM ShutdownAgent input the Host Server IP address into the Source Trap IP and the trap port to receive the SNMP trap from SentryHD.

Monitor	Device	System	System Time : Thu 02/07/2013 PM 03
Hast	SNMP		
Configure	0	Device » Host » Configure	
Control	9	Shutdown	Source IP
Providen Lab	~ ~ I	Snutdown lype: Snutdown	Purpose: For Redundant (Logical OR)
		Enable Event OS Shutdown Delay (in seconds)	C For Parallel (Logical AND) Submit
		I Image: Power Fail 300 second(s) 2 Image: Power Fail 300 second(s) 3 Image: Power Fail 30 second(s) 3 Image: Power Fail 30 second(s)	Source Trap IP: 192.168.168.157 Community: public SNMPV3 User:
		Submit	Add UpHate Delete Note: Leave the SMMP40 User empty will accept any community string. Leave the SMMP40 User empty will accept all of the users in the SMMP40 USM table.
		Period: 60 second(s)	IP Address Community SNMPv3 User 1 192,168,168,157 public
		File: File: Rün Before Shutdown: 120 second(s) Submit	Manageable Main Mark State State Manage State Mark State State Mark Mark State Mark St

SentryHD Software

3. Open the MM ShutdownAgent property menu from Windows task bar to get the IP address of the Host Server.

neral			
System			
MM ShutdownA	igent		
02.00.01a			
Host Information			
IP Address=	192.168.168.175 fe80::20c:f1ff:fec6:cb31%4 fe80::5efe:192.168.168.175%2		
Host Name=	RobertXP		
	Web		
	FITTP Port= 80		
	F HTTPS Port= 443		
	Login Account		

4. Go to SentryHD's SNMP Trap page and input the IP address of the MM ShutdownAgent's Host Server into the SNMP Trap table as the Target IP. Select the MM ShutdownAgent for the Event Level and UPSv4 as the Trap MIB.

Monitor	Device	System			System Time	e : Tue 02/05/20	13 PM 02:
UPS	Management	Notification					
NMPv1 Access	0	Device » Notification » SNMP Tr	гар				
NMPv3 USM	D	SNMP Trap Target List	1				
SNMP Trap	0	Target IP:	192.168.168.175	Co	mmunity String: public		
lail Server	0	Тгар Туре:	SNMPv1 -		MIB: UPSv4 -	3	
MS	0	Send Trap: SNMPv3 User Name:	Once 🔻		Trap Port: 162 Event Level: MM Shutdo	ownAgent 👻	
Vake On LAN	0	The SNMPv3 User Name mu Name in the <u>SNMPv3 USM</u> 1	ist be the same as the Us table.	ser SNMP Part for S	ShutdownAgent: 161		
			Add	Update Delete			

5. If you enable the manageable option in the ShutdownAgent then you can view all of the shutdown status, countdown timer and shutdown reason from SentryHD. The web page is on the Monitor >> Information >> ShutdownAgent

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