



PowerPlus XM SNMP NetAgent

User's Manual

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Chapter 1. Introduction

Section 1. Features

NetAgent is a new generation SNMP (Simple Network Management Protocol) monitoring product. This product is for “RS232” interface UPS. The communication protocol includes the RS232[MegaTec], Three Phase[MegaTec]. NetAgent provides a simple and easy installation procedure. User only needs to install the software of NetAgent CD on a Windows environment to configure the IP address. All the other configurations could be accomplished in a Web browser.

NetAgent also provides shutdown utility for different operating systems. It could send out the shutdown command in different conditions. These conditions include the AC power failure, Battery Low, Over Loading, Over Temperature and scheduled shutdown. User could configure these conditions to initiate a system shutdown event, and to avoid the abnormal power disconnection of the system.

Features:

1. Provide SNMP MIB to monitor & control UPS.
2. Auto-sense 10M/100M Fast Ethernet.
3. Manage and configure via Telnet, Web Browser or NMS.
4. Support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP Protocol.
5. Providing easy setup and upgrade tools via MS-Windows, just a few seconds to finish IP setting, about 1.5 minutes to upgrade firmware.
6. Send both of SNMP TRAP and E-mail for events notification.
7. Auto email daily UPS history report.
8. Send SMS for events notification.
9. Matches with shutdown software to protect computer’s file saving and shut down safely.

Section2. Applications

2.1 NetAgent makes your UPS on the Internet

When the UPS install the NetAgent, the system manager could check each and every UPS condition by a computer with Browser installed. The manager could monitor and control the UPS by simply input the IP address of the NetAgent which connects to the UPS. When there is a power abnormal condition happened, the NetAgent could also send the trap information to the system manager to take proper action.

2.2 NetAgent Provides Shutdown Utilities

When a computer on the network with the NetAgent utility installed, it could locate all the NetAgent on the network. When the UPS of this NetAgent is in AC failure condition or Battery Low condition, the operating system could close all the files on the system, and perform a gracefully shutdown. This could avoid system corrupt when a power disconnection happened.

Chapter 2. NetAgent UPS Installation

Before using the NetAgent, the proper hardware and software configuration is necessary. Hardware installation is to connect the NetAgent and UPS and network. Software configuration includes the IP address, Firmware upgrade, or using the Browser or Telnet for configuration.

You could also install the shutdown utility-ClientMate to protect your Windows operating system. And also could use the UPS management software-SNMPView, to control and management multiple UPS on the network.

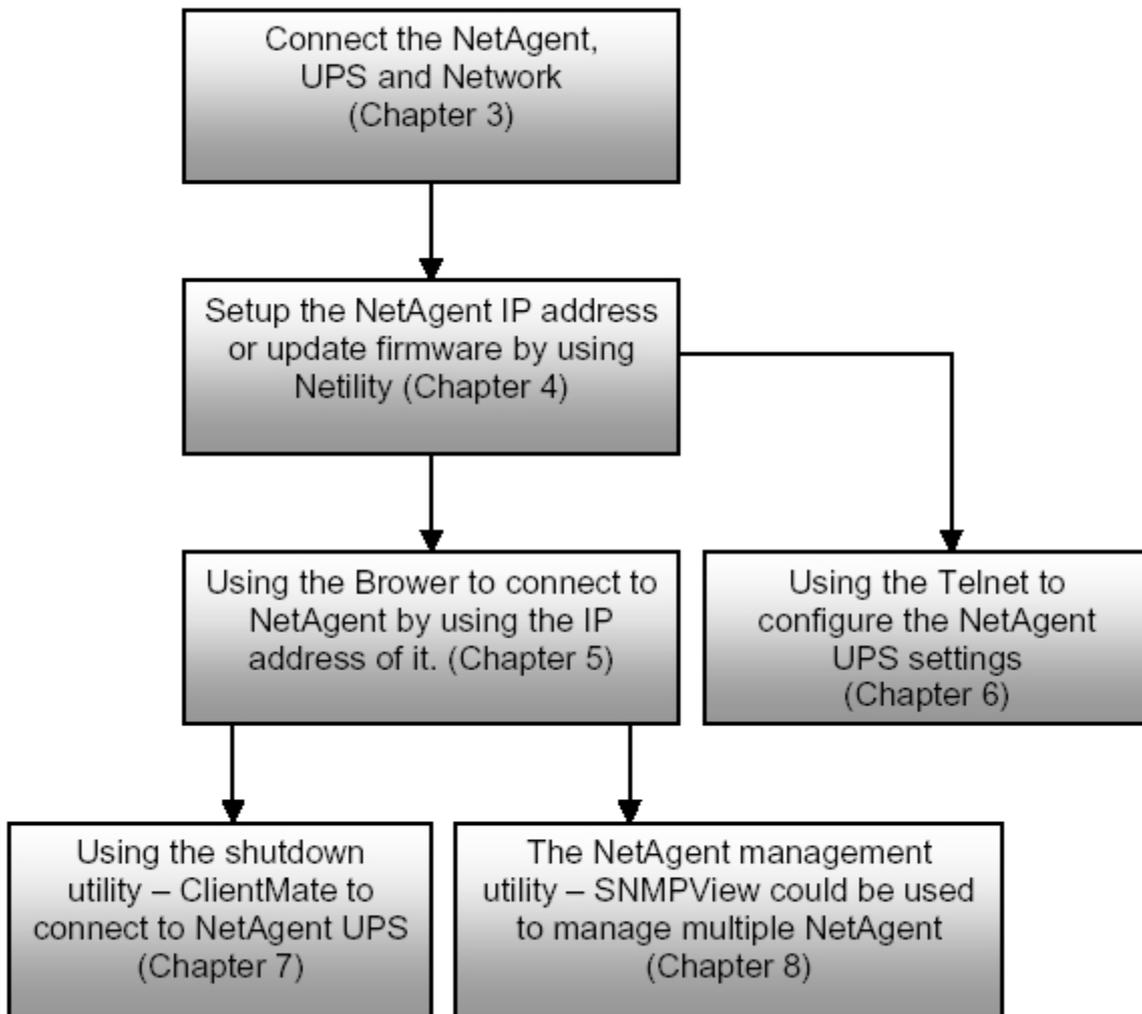


Fig.1 NetAgent UPS installation flowchart

Chapter 3. NetAgent, UPS and Network Connection

The interface between UPS and NetAgent is shown in figure 2. The monitoring Board SNT_PCB_3320_JK connected with NetAgent by ports J20.

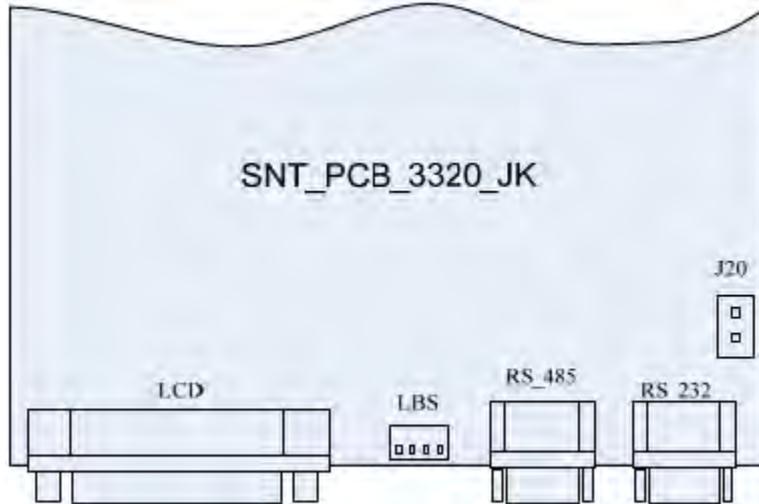


Fig.2 UPS External Interfaces



Light signal application of NetAgent Status LED		
Light Color	Signal definition	Condition description
Green	Power state	On: Normal power
Red	Connection state with UPS	Flash: no connection with UPS
Orange	Correspondence state	Light flashes when NetAgent transmits command to UPS

Light signal application of NetAgent LAN Port LED	
Light Color	Condition description
Green	On: Internet correspond speed is 100M Flash: Data transmmiting

Yellow	On: Internet correspond speed is 10M Flash: Data transmmiting
--------	--

Fig.3 NetAgent Out looking

Install the NetAgent with UPS and Network as follows:

1. Connect the NetAgent Adapter to LAN, using the appropriate UTP port.
2. Connect the specified serial cable (W304) from NetAgent Adapter to the serial port of UPS.
3. The connections of NetAgent reference to Figure 3 when UPS connect to AC.

Chapter 4. Using Netility Setup IP. Update Firmware

Section1. Install Netility

- ① Insert NetAgent Utility CD to the CD-ROM driver and execute Netility.exe.
- ② After complete installation, there will be a 'Netility' group in Windows 'Start' → 'Program Group'.



Fig.4 Netility Group

- ③ Click "Netility" could initiate the Netility and enter the mail window for configuration.

Section2. Using Netility

The main window of Netility is here below, right table is to show you all of NetAgent be searched in LAN; left side is function selection menu.



Fig.5 Netility Main window

① Launch Device

Click Launch Device or double click the NetAgent listed in the table to launch it. Enter the Account (Login Name) and Password (Login Password) set earlier to login. If you did not configure one, then just click Apply to login.

② Network Settings

Choose the NetAgent UPS from the right of the screen, then click “Configure”, would shows the following setting page.

IP Address: Set IP address for NetAgent UPS

When use at the first time, please set IP address; subnet mask; and gateway. After setting, enter IP address from Telnet or Browser to connect to NetAgent’s website.

When using DHCP or BOOTP to set up IP address, IP address, Subnet Mask and Gateway would receive directly by the system.

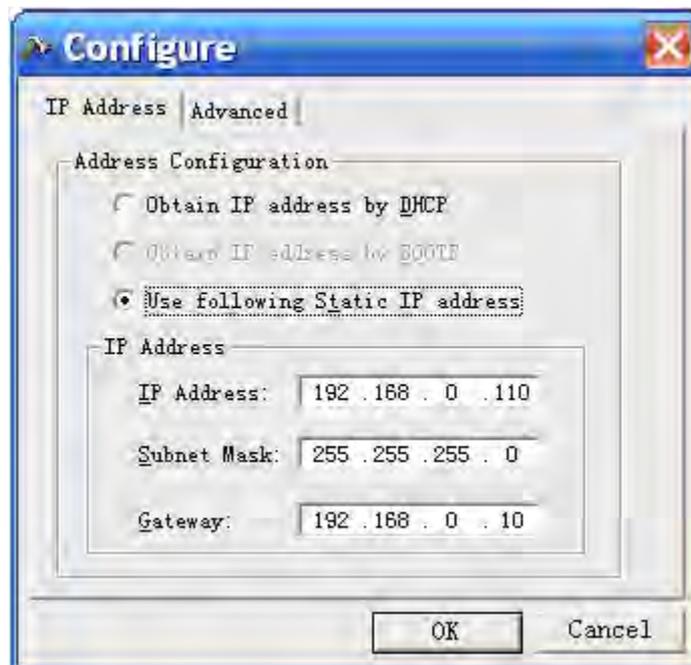


Fig.6 Netility: Set IP address for NetAgent UPS

Advanced: Advanced NetAgent UPS Setting

In order to ensure the secure management of UPS, Netility provides two protecting function:

Netility Password

After password setting here, there is no way to give any command to NetAgent by Netility software without user’s password. **(NB. If lose this password, NetAgent UPS will never be able to complete any upgrade process.)**

Management Protocol

NetAgent UPS provides HTTP(WEB) and Telnet to reference any related parameter setting for the manager. Concerning with security, the manager could build use openly or any advance port setting upon the above two methods. Followings are the description:

1. At advanced setting, two functions were set as activated by using port number 80 and 23.
2. Untick means not using the function.
3. When set to the other port value, full IP Address must be entered in order to login to the website or Telnet.

For example, Set 81 as HTTP port number, then `http://192.168.0.177:81` must be typed at the web address to proceed to NetAgent UPS's website.

Set 24 as Telnet port number, then "`192.168.0.177:24`" must be typed at Telnet to proceed to the Telnet screen of NetAgent UPS.



Fig.7 Netility : Advanced setting of NetAgent UPS

③ Firmware Upgrade

NetAgent offer convenient firmware upgrade function. When you are going to upgrade firmware, click Download Firmware from NetAgent Setup menu, click "Browser" select new firmware file (*.bin) and press "Start". Thus, Net Agent's Red LED and Yellow LED flashing alternative means the firmware is upgrading. After upgrade completed, Net Agent will auto reboot. To upgrade multi NetAgent with same firmware, hold on "shift" or Ctrl" and choose the NetAgent device from Netility list.

(Please connect to the <http://www.megatec.com.tw> for the latest firmware) If multi upgrade, select When upgrade firmware to multi NetAgent.

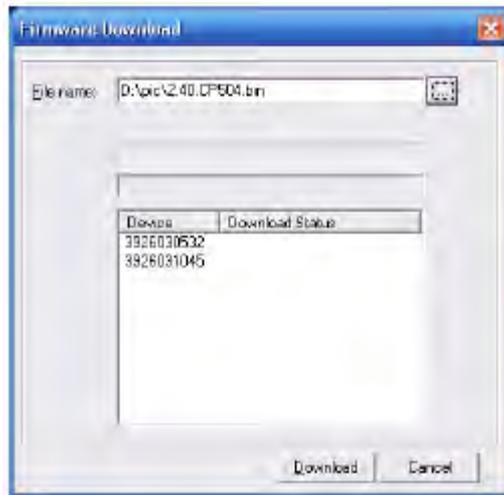


Fig.8 Netility: Update NetAgent UPS Firmware

④ About - Netility version examined

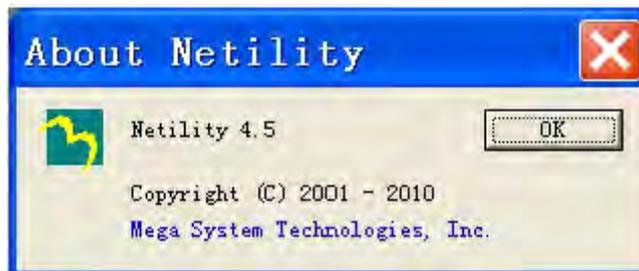


Fig.9 Netility version examined

⑤ Refresh List - Search Lan's NetAgent UPS manually

Netility would search NetAgent UPS from Lan automatically, or the user could search manually by click on "Search NetAgent".

Chapter 5. UPS Web management by NetAgent

Section 1. Introduction

After finishing NetAgent installation, including hardware installation and IP setting, you are now able to go to NetAgent web site to monitor and control UPS by inputting NetAgent IP address in Browser.

Starting the Web Browser (Internet Explorer). Enter the NetAgent IP Address (Which is setting on Netility, e.g. 211.21.67.51). On the first screen, enter the current password. If no password has been set, just press [ENTER].



Fig.10 Input NetAgent UPS IP address



Fig.11 NetAgent UPS Login dialog

Section2. NetAgent UPS Web Interface

Enter NetAgent UPS Web page, there are 4 main function items in the first Web page:

2.1 Information

2.2 Configuration

2.3 Log Information

2.4 Help

Enter the main function item, the sub-menu items will be shown on the left side of the page. **When using this NetAgent for the first time, please enter the [Config] menu item to set all the configuration items. Then the UPS status could be correctly revealed by other pages.**

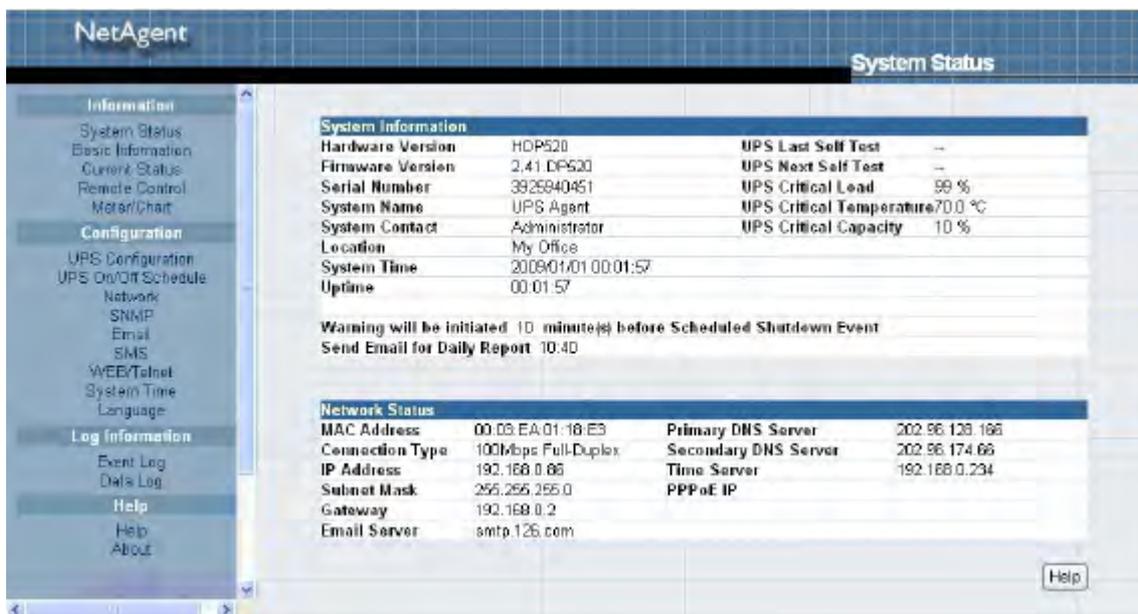


Fig.12 NetAgent UPS web page

2.1 Information

Sub-menu:

2.1.1 System Status

This page is to show NetAgent system information and Network settings. Values shown here are either provided by NetAgent itself or they are user settings from the Configuration pages.

System Information

This section is to show NetAgent system information. Values in Hardware Version/Firmware Version/Serial Number/System Time, are provided by NetAgent itself. Other values are user settings from the Configuration pages.

Network Status

This section is to show NetAgent Network settings. The MAC address is provided by NetAgent. All other values in this section are user settings from the Configuration pages.

System Information			
Hardware Version	HDP520	UPS Last Self Test	--
Firmware Version	2.41_DP520	UPS Next Self Test	--
Serial Number	3925940451	UPS Critical Load	99 %
System Name	UPS Agent	UPS Critical Temperature	70.0 °C
System Contact	Administrator	UPS Critical Capacity	10 %
Location	My Office		
System Time	2009/01/01 00:01:57		
Uptime	00:01:57		
Warning will be initiated 10 minute(s) before Scheduled Shutdown Event			
Send Email for Daily Report 10:40			
Network Status			
MAC Address	00:09:EA:01:18:E3	Primary DNS Server	202.96.128.166
Connection Type	100Mbps Full-Duplex	Secondary DNS Server	202.96.174.66
IP Address	192.168.0.86	Time Server	192.168.0.234
Subnet Mask	255.255.255.0	PPPoE IP	
Gateway	192.168.0.2		
Email Server	smtp.126.com		

Fig.13 NetAgent UPS system status

2.1.2 Basic Information

This page is to show UPS basic information. Values here are either provided by the UPS or they are user settings from the Configuration pages.

UPS Information	
UPS Manufacturer	*****
UPS Firmware Version	VER001.010
UPS Model	****
Battery Information	
Date of last battery replacement	
Number of Batteries	0
Battery Charge Voltage	0.0V
Rating Information	
Rectifier Voltage *	240V/415V 3P4W
Bypass Voltage *	240V/415V 3P4W
Output Voltage *	240V/415V 3P4W
Rectifier Frequency	50Hz
Bypass Frequency	50Hz
Output Frequency	50Hz
Battery Voltage	480V
Power Rating	100kVA
Connection Mode	3 IN 3 OUT
*: Phase-to-Neutral / Phase-to-Phase / Number-of-Phase and Number-of-Wire	

Fig.14 NetAgent UPS Basic Information

UPS Information

Information about UPS Manufacturer/UPS Firmware Version/UPS Model are provided by the UPS.

Battery Information

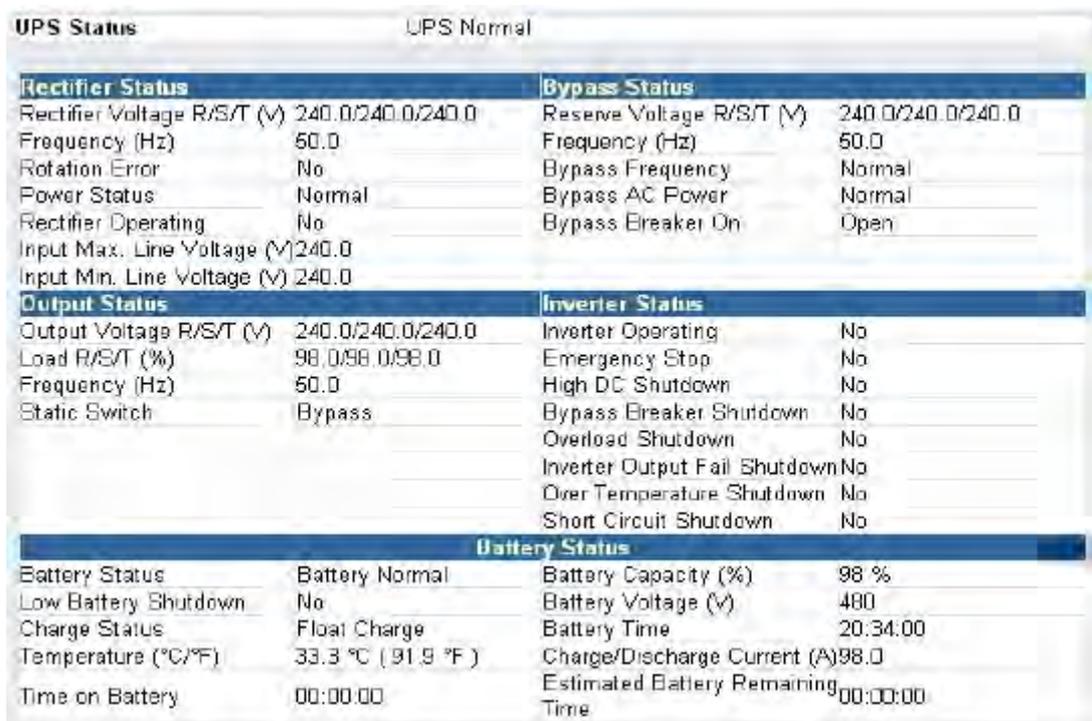
Values here are invalid in the current SNMP version of software.

Rating Information

Values here are provided by the UPS.

2.1.3 Current Status

This page is to show the UPS current status. Users can choose an interval from the drop-down box to refresh the status readings.



UPS Status		UPS Normal	
Rectifier Status			
Rectifier Voltage R/S/T (V)	240.0/240.0/240.0	Bypass Status	
Frequency (Hz)	50.0	Reserve Voltage R/S/T (V)	240.0/240.0/240.0
Rotation Error	No	Frequency (Hz)	50.0
Power Status	Normal	Bypass Frequency	Normal
Rectifier Operating	No	Bypass AC Power	Normal
Input Max. Line Voltage (V)	240.0	Bypass Breaker On	Open
Input Min. Line Voltage (V)	240.0		
Output Status		Inverter Status	
Output Voltage R/S/T (V)	240.0/240.0/240.0	Inverter Operating	No
Load R/S/T (%)	98.0/98.0/98.0	Emergency Stop	No
Frequency (Hz)	50.0	High DC Shutdown	No
Static Switch	Bypass	Bypass Breaker Shutdown	No
		Overload Shutdown	No
		Inverter Output Fail Shutdown	No
		Over Temperature Shutdown	No
		Short Circuit Shutdown	No
Battery Status			
Battery Status	Battery Normal	Battery Capacity (%)	98 %
Low Battery Shutdown	No	Battery Voltage (V)	480
Charge Status	Float Charge	Battery Time	20:34:00
Temperature (°C/°F)	33.3 °C (91.9 °F)	Charge/Discharge Current (A)	98.0
Time on Battery	00:00:00	Estimated Battery Remaining Time	00:00:00

Fig.15 NetAgent UPS Current status

UPS Status

This section is to show the UPS power status. The abnormal status will be displayed in red when there is a power event.

Input Status

This section is to show the UPS input status, including AC Status/Input Voltage/Input Frequency. Values here will be shown in red when an abnormal status condition occurs.

Output Status

This section is to show the UPS output status, including Output Voltage/Output Status/UPS Loading. Values here will be shown in red when an abnormal status condition occurs.

Battery Status

This section is to show the UPS Battery Status, including Temperature/Battery Status/Battery Capacity/Battery Voltage/Time on Battery. Values here will be shown in red when an abnormal status condition occurs. *The remaining battery time should refer to “Battery Time”. The “Estimated Battery Remaining Time” is invalid in the current version of software *.

2.1.4 Remote control

The remote control functions of PowerPlus XM series have been closed in the current version of software.

2.1.5 Meter/Chart

This page displays temperature, capacity, load, voltage. etc of the UPS by appearing with meters diagrams.

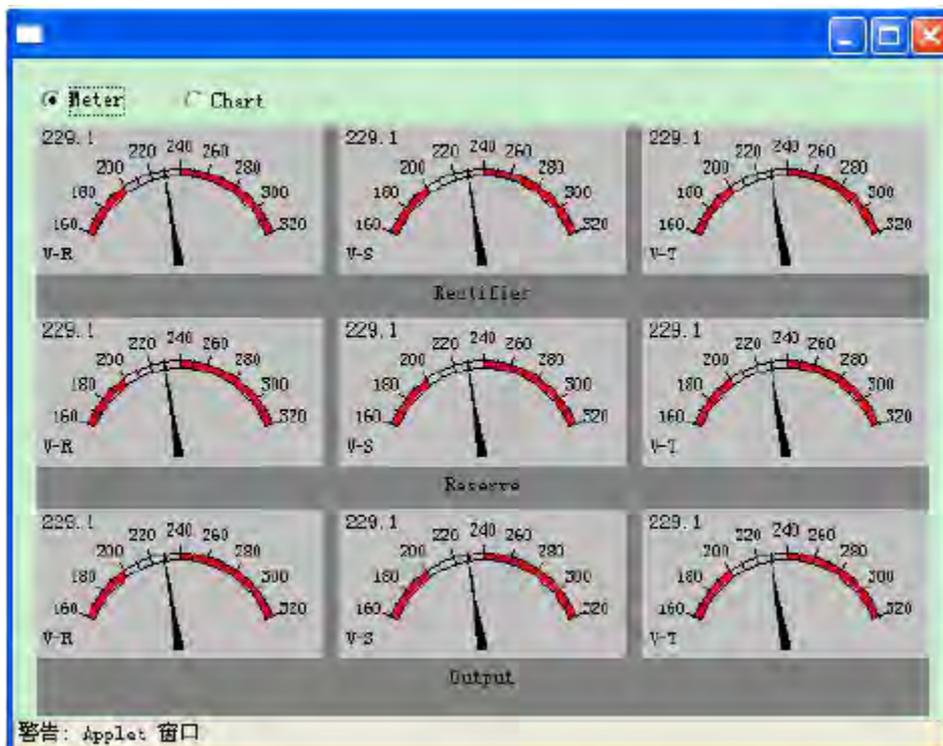


Fig.16 Meter/chart

2.2 Configuration

Sub-menu:

2.2.1 UPS Configuration

This page is to set the UPS configuration. Any wrong settings will cause incorrect display values or disconnection between the UPS and NetAgent.

UPS Properties	
UPS Communication Type	MegaTec Three Phase
UPS Device Name	2#
UPS Model	98
UPS Voltage Rating (V)	230.0
Date of last battery replacement (yyyy/mm/dd)	2008/01/05

UPS Recorded	
UPS Data Log	1 minute

Test UPS	
Test UPS every	None
Test UPS on Weekday	Monday
Start Time of UPS Test (hh:mm)	

Warning Threshold Value	
Time out after loss of connection	30 seconds
Critical Load (%)	99
Critical Temperature (°C)	70.0
Critical Capacity (%)	10

Apply Reset Help

Fig.17 UPS Configuration

UPS Properties

UPS Communication Type

This section is to set up the communication interface of the UPS. (eg. MegaTec / MegaTec Three phase etc). The PowerPlus XM series should choose MegaTec Three Phase. Any wrong settings will cause disconnection between the UPS and NetAgent.

UPS Device Name, UPS Model

User can set these values as required.

UPS Voltage Rating (V)

Please refer to the UPS manual to set the value.

Date of last battery replacement (yyyy/mm/dd)

This section is to record the date when the UPS battery was last replaced.

UPS Recorded

UPS Data Log

This section is to set how often the UPS data should be logged.

Test UPS

The Test functions of PowerPlus XM series have been closed in the current version of

software.

Warning Threshold Value

Time out of after lost of connection

This section is to set a period of time after which NetAgent will send a disconnection warning message. This warning message will be sent after NetAgent has lost contact with the UPS for the time specified.

Critical Loading (%)

This section is to set the UPS critical loading. (shown as %) NetAgent will send a warning message when the UPS is overloaded.

Critical Temperature (C)

This section is to set the UPS critical internal temperature. NetAgent will send warning messages when the UPS overheats.

Critical Capacity (%)

This section is to set the UPS critical battery capacity (shown as %) NetAgent will send warning messages when UPS low battery occurs.

2.2.2 UPS On/Off Schedule

The UPS On/Off Schedule functions of PowerPlus XM series have been closed in the current version of software.

2.2.3 Network

This page is to set NetAgent Network settings.

IP Address

IP Address

This section is to set NetAgent IP address.

Subnet Mask

This section is to set NetAgent Subnet Mask.

Gateway

This section is to set NetAgent Gateway.

Obtain an IP address

This section is to choose to set NetAgent IP address manually or via DHCP. The above 4 sections can be set in Netility as well. NetAgent will reboot after any of the above are changed.

DNS Server IP

Primary DNS Server IP

This section is to set NetAgent primary DNS Server IP address.

Secondary DNS Server IP

This section is to set NetAgent secondary DNS Server IP address. NetAgent will use the secondary DNS Server IP address when the Primary DNS Server IP address is not working.

Ethernet

Connection Type

This section is to set communication speed between NetAgent and Network. NetAgent will reboot after Connection Type is changed.

Stop UPS communication when Ethernet disconnected

This section is to set if stop UPS communication when NetAgent disconnects with Ethernet.

Dynamic DNS

This is a free service that allows the user to alias a dynamic IP address to a static hostname.

Services Provider

NetAgent can be configured to register with any of the Dynamic DNS providers. In general, to register a Domain Name;

- a. Go to the DDNS provider website listed.
- b. Register a new user account and password with the DDNS provider.
- c. Choose a Domain Name to point to your current Dynamic IP
- d. Enter information obtained in (b) and (c) into NetAgent DDNS fields

Domain Name

This is the Domain Name you have created from the above selected DDNS provider.

Login Name

This is the Login / Account name that you have created with the selected DDNS provider.

Login Password

Enter the Password you have assigned to your DDNS Account.

Use external STUN server to get Public IP to register

Choose Yes to ensure that NetAgent uses the WAN / Public IP to update the selected DDNS server.

PPPoE

Use this option to allow NetAgent to connect to the Internet directly using your xDSL modem. Once set-up, NetAgent will connect directly to the Internet without going through a router. The LCD will display the current WAN / Public IP instead of the LAN IP Address.

When Connection should be made

This is to set if use PPPoE to connect with NetAgent UPS

Disabled : Default setting.

Connect always : NetAgent will automatically dial up and maintain continuous

connection.

Login Name

Enter the login name assigned by your ISP.

Login Password

Enter the password assigned by your ISP.

The screenshot displays a network configuration interface with several sections:

- IP Address:** IP Address (192.168.0.86), Subnet Mask (255.255.255.0), Gateway (192.168.0.2), Obtain an IP address* (Manually).
- DNS Server IP:** Primary DNS Server IP (168.96.1.1), Secondary DNS Server IP (empty).
- Ethernet:** Connection Type* (Auto Sense), Stop UPS communication when Ethernet disconnected (No).
- Dynamic DNS:** Services Provider (None), Domain Name (empty), Login Name (empty), Login Password (empty), Use external STUN server to get Public IP to register (Yes), Primary STUN Server IP (67.153.142.67), Secondary STUN Server IP (empty).
- PPPoE:** When Connection should be made (Disabled), Login Name (empty), Login Password (empty).

Fig.18 Network

2.2.4 SNMP

This page is to set NetAgent SNMP settings so it can be used by a NMS (Network Management System). (Eg: SNMPView, SNMPView can be found on the NetAgent Utility CD.)

MIB System		
System Name	System Contact	System Location
UPS Agent	Administrator	My Office

Access Control			
Manager IP Address	Community	Permission	Description
****	public	Read/Write	
****	public	Read/Write	
****	public	Read/Write	
****	public	No Access	
****	public	No Access	
****	public	No Access	
****	public	No Access	
****	public	No Access	

Trap Notification					
Destination IP Address	Community	Severity	Accept	Description	Events
192.168.0.182	public	Warning	Yes		Select
192.168.0.182	public	Information	Yes		Select
192.168.0.182	public	Severe	Yes		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select

Device Connected			
Device	Rating (%)		Connected
	0		NO

Apply Reset Help

Fig.19 NetAgent UPS SNMP Setting

MIB System

System Name

This section is to give a name to a NetAgent.

System Contact

This section is to give a name to the administrator.

System Location

This section is to set NetAgent location.

Access Control

Manager IP Address

This section is to set the IP address that the administrator can manage NetAgent from. It is valid for up to 8 IP addresses. To manage NetAgent from any IP address, enter *.*.* into

Manager IP address.

Community

This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS.

Permission

This section is to set authorities of administrators. Options are Read, Read/Write, and No Access.

Description

This section is for an administrator to make notes.

Trap Notification

Receiver IP Address

This section is to set receivers IP address for receiving traps sent by NetAgent. It is valid for up to 8 IP Addresses.

Community

This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS.

Severity

This section is to set Trap receiver levels. There are three levels of Trap receiver: (Please refer to NMS manual for Trap levels.)

- Information: To receive all traps.
- Warning: To receive only “warning” and “severe” traps.
- Severe: To receive only “severe” traps.

Accept

This section is to set to receive a trap or not.

Description

This section is for an administrator to make notes.

Event

This section is to select events for NetAgent to send traps. Clicking on Select will open a Select Events List. Event Traps may be selected from this list. Events list is below:***The “Schedule Shutdown Event”, “UPS entering Test mode”, “UPS entering Sleeping mode”, “Turn Off UPS” are invalid in PowerPlus XM series of current software version*.**

UPS Events	Yes	No
Schedule Shutdown Event	<input type="radio"/>	<input checked="" type="radio"/>
UPS Failure	<input checked="" type="radio"/>	<input checked="" type="radio"/>
UPS entering Test mode	<input type="radio"/>	<input checked="" type="radio"/>
UPS entering Sleeping mode	<input type="radio"/>	<input checked="" type="radio"/>
UPS Load Overrun	<input checked="" type="radio"/>	<input type="radio"/>
UPS Communication Lost	<input checked="" type="radio"/>	<input type="radio"/>
Turn Off UPS	<input type="radio"/>	<input checked="" type="radio"/>
AC Power Failed	<input checked="" type="radio"/>	<input type="radio"/>
UPS Battery Low	<input checked="" type="radio"/>	<input type="radio"/>
UPS Temperature Overrun	<input checked="" type="radio"/>	<input type="radio"/>
UPS Capacity Underrun	<input checked="" type="radio"/>	<input type="radio"/>
Bypass Frequency Fail	<input checked="" type="radio"/>	<input type="radio"/>
Bypass AC Abnormal	<input checked="" type="radio"/>	<input type="radio"/>
Rectifier Rotation Error	<input checked="" type="radio"/>	<input type="radio"/>
Static Switch Mode in Bypass Mode	<input checked="" type="radio"/>	<input type="radio"/>
Inverter Short Circuit Shutdown	<input checked="" type="radio"/>	<input type="radio"/>
Inverter Over Temperature Shutdown	<input checked="" type="radio"/>	<input type="radio"/>
Inverter Output Fail Shutdown	<input checked="" type="radio"/>	<input type="radio"/>
Inverter Overload Shutdown	<input checked="" type="radio"/>	<input type="radio"/>
Inverter Bypass Breaker Shutdown	<input checked="" type="radio"/>	<input type="radio"/>
Inverter High DC Shutdown	<input checked="" type="radio"/>	<input type="radio"/>
Inverter Emergency Stop(EPO)	<input checked="" type="radio"/>	<input type="radio"/>
Low Battery Shutdown	<input checked="" type="radio"/>	<input type="radio"/>

Fig.20 UPS Events

Device Connected

This section is to set the usage power and connection status of other devices which connects to the same UPS as NetAgent uses.

2.2.5 Email

This page is to set Email details for use by NetAgent.

Email Setting	
Email Server	smtp.126.com
Email Port	25
Sender's Email Address	ABC@126.com
Email Server Requires Authentication	YES
Account Name	ABC@126.com
Password	*****
Send Email When Event Occurs	YES

Recipient's Email Address (for Event Log)		Events
Account1	ABC@126.com	Select
Account2		Select
Account3		Select
Account4		Select
Account5		Select
Account6		Select
Account7		Select
Account8		Select

Recipient's Email Address (for Daily Report)	
Account1	ABC@126.com
Account2	
Account3	
Account4	
Send Email for Daily Report (hh:mm)	YES at 10:40
Send Email when Event Log overflows (100 records)	YES
Send Email when Data Log overflows (500 records)	NO

Apply Reset Help

Fig.21 Email

Email Setting

Email Server

This section is to set NetAgent Email Server.

Sender's Email Address

This section is to set NetAgent's Email address. ***The Email must have the POP3 function*.**

Email Server Requires Authentication

This section is to set whether the Email Server requires authentication.

Account Name

This section is to set an Email account name when the email server requires authentication.

Password

This section is to set a password when the email server requires authentication.

Send Email When Event Occurs

This section is to set NetAgent to send warning Email when an event occurs.

Recipient's Email Address (for Event Log)

This section is to set Email Addresses to receive warning email sent by NetAgent when an event occurs. It is valid for up to 8 Email addresses.

Event

This section is to select events for NetAgent to send warning email. Clicking on Select will open a Select Events List. Event email may be selected from this list. (The list is the same as under SNMP setting. Please refer to figure 21).

Recipient's Email Address (for Daily Report)

This section is to set Email Addresses to receive Daily Report email sent by NetAgent when an event occurs. It is valid for up to 4 Email addresses.

Send Email for Daily Report (hh:mm)

This section is to set a particular time for NetAgent to send Daily Report every day.

Send email when Event Log overflows (500 records)

Select **YES** to have NetAgent send a warning email stating Event Log has reached 500. The data will now be purged to make room for new data.

Send email when Data Log overflows (500 records)

Select **YES** to have NetAgent send a warning email stating Data Log has reached 500. The data will now be purged to make room for new data.

2.2.6 SMS

When NetAgent detects UPS events, it allows Short Message Signals (“SMS”) be sent and received using a GSM Modem. It requires to use remote “SMSAgent” to send SMS.

SMS Settings

SMS Server, SMS Server Port

This section is to set SMSAgent’s IP address (e.g. 192.168.0.182) and Port Number (default:80).

Account Name, Password

This section is to set SMSAgent’s account, password (SMSAgent webpage→Configuration →Web/Telnet).

Send SMS When Event Occurs

Select **YES** to receive SMS when an Event Occurs. **NO** (default) to disable.

Receiver cellular number (for Event Log)

This section is to set the recipient’s mobile number. A total of 8 mobile numbers can be assign. (Selectable events list is same as SNMP webpage. Refer to figure 21: UPS Event).

SMS Settings	
SMS Server	192.168.0.182
SMS Server Port	80
Account Name	
Password	
Send SMS When Event Occurs	YES

Receiver cellular number(for Event Log)		Events
Cellular Phone number 1	0123456789	Select
Cellular Phone number 2		Select
Cellular Phone number 3		Select
Cellular Phone number 4		Select
Cellular Phone number 5		Select
Cellular Phone number 6		Select
Cellular Phone number 7		Select
Cellular Phone number 8		Select

Apply Reset Help

Fig.22 SMS

2.2.7 WEB/Telnet

This page is to set up the User Account in NetAgent.

User Account

User Name

This section is to set a user name for NetAgent web pages. It is valid for up to 8 users. Users have to input the user name to get access to NetAgent web pages from a web browser.

Password

This section is to set a password for NetAgent web pages. Users have to input the password to get access to NetAgent web pages from a browser.

Permission

This section is to set user's authorizations of Read, or Read/Write.

IP Filter

This section is to set a particular IP address. Users can only gain access to NetAgent web pages if they come from this IP address. If you want to manage NetAgent from any IP address, you can set it as *.*.*.*.

User Name	Password	Permission	IP Filter
		Read/Write	****
		No Access	****

Apply Reset Help

Fig.23 WEB/Telnet

2.2.8 System Time

This page is to set NetAgent system time. You can provide NetAgent with up to 2 time servers or you can set a time zone.

The screenshot shows a web-based configuration interface for NetAgent system time. It is divided into several sections:

- System Time**: Contains fields for "Time Between Automatic Updates" (set to 12 Hours), "Time Server" (set to 192.168.0.234 with an Edit button), and "Time Zone (Relative to GMT)" (set to GMT+8:00). Below these are "Adjust Now >>" and "Reset" buttons.
- System Time (yyyy/mm/dd hh:mm:ss)**: A text input field showing "2009/01/01 03:08:30" with "Apply", "Reset", and "Help" buttons below it.
- Auto Restart**: A section with "Auto Restart System for Every (0: Disable)" set to "0" and "Minute(s)" as the unit. It includes "Apply" and "Reset" buttons.
- Manual Restart System After 30 Seconds**: A section with a text input field containing "30" and an "Apply" button.

Fig.24 System Time

System Time

Time Between Automatic Updates

This section is to set an interval for time synchronization.

Time Server

Choose the nearest **Time Server** to your NetAgent location. The Administrator can choose from the list of a maximum of 30 Time Servers.

Time Zone (Relative to GMT)

This section is to set a different time zone for different countries.

System Time (yyyy/mm/dd hh:mm:ss)

This section is to set NetAgent system time manually. Set this in the format: yyyy/mm/dd hh:mm:ss

Auto Restart

Auto Restart System for Every n Minute(s)

Use this setting to auto restart the system at a predetermined interval. The default value is set to "0" (disabled). Enter between, 1 to 9999 Minute (i.e., between 1 minute or 166.65 hour) or 1 to 9999 Hour (1 hour to 416.6 days).

Manual Restart System After 30 Seconds

Use this feature to manually restart the system NetAgent restart in about 30 seconds.

2.2.9 Language

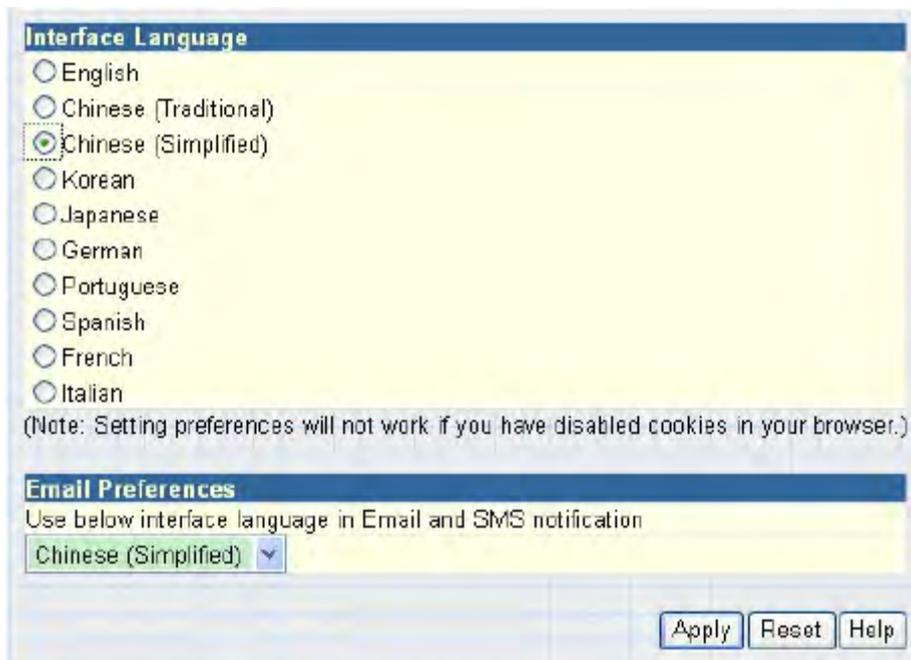
This page is to set the language for NetAgent.

Interface Language

This section is to set the language for NetAgent web pages. When users start NetAgent in a browser, NetAgent will auto detect the language in the computer system and show the same language on its web pages. Users can also choose the languages they prefer from the “Interface Language” list. Note: Users will have to enable cookies before they use this function.

Email Preferences

Tick it to apply the language preference to emails sent and SMS receipt.



The screenshot shows a web interface for language settings. It is divided into two main sections: "Interface Language" and "Email Preferences".

Interface Language

- English
- Chinese (Traditional)
- Chinese (Simplified)
- Korean
- Japanese
- German
- Portuguese
- Spanish
- French
- Italian

(Note: Setting preferences will not work if you have disabled cookies in your browser.)

Email Preferences

Use below interface language in Email and SMS notification

Chinese (Simplified) ▼

Buttons: Apply, Reset, Help

Fig.25 Language

2.3 Log Information

Sub-Menu :

2.3.1 Event Log

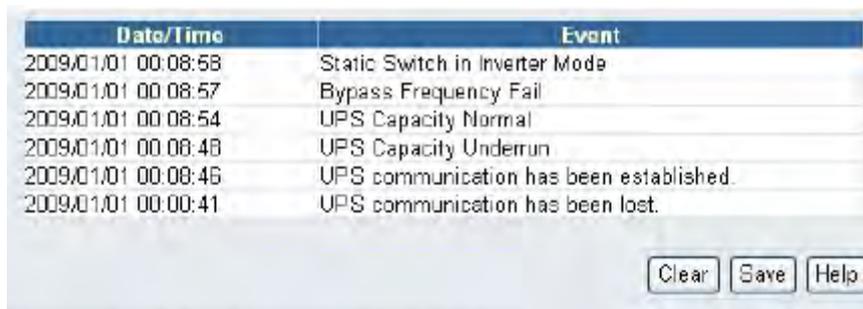
This page is a UPS Event log. It shows a record of all events, giving the Date/Time of the event and a detailed description of each. When reach to the limit, it rewrites on the previous logs.

Date/Time

This is a record of the Date (yyyy/mm/dd) and Time (hh:mm:ss) that the event occurred.

Description

This is a detailed description of the event.



Date/Time	Event
2009/01/01 00:08:58	Static Switch in Inverter Mode
2009/01/01 00:08:57	Bypass Frequency Fail
2009/01/01 00:08:54	UPS Capacity Normal
2009/01/01 00:08:48	UPS Capacity Underrun
2009/01/01 00:08:46	UPS communication has been established.
2009/01/01 00:00:41	UPS communication has been lost.

Fig.26 Event Log

2.3.2 Data Log

This page is a UPS data log. It records UPS Input Voltage/ Output Voltage/ Frequency/ Loading/ Capacity/ Temperature. When reach to the limit, it rewrites on the previous logs. Logs can be saved in CSV format by clicking on “Save Data Log”.

Date/Time

This is a record of the Date (yyyy/mm/dd) and Time (hh:mm:ss) that the data was recorded. The interval between every log can be set in /Configuration/ UPS configuration/ UPS recorded/UPS data Log.

Input Volt.

This section shows records of the UPS Input voltage readings. (Unit: Volt.)

Output Volt.

This section shows records of the UPS Output voltage readings. (Unit: Volt.)

Freq. (Hz)

This section shows records of the UPS Input Frequency. (Unit: Hertz)

Load

This section shows records of the UPS Output loading. (shown as %)

Capacity

This section shows records of the UPS battery capacity. (shown as %)

Temp.

This section shows records of the UPS internal temperature. (unit: degrees Centigrade)

Date/Time	Input Volt.(R/S/T)	Output Volt.(R/S/T)	Load(R/S/T)	Input Freq.	Bypass Freq.	Output Freq.	Capacity	Temp.
2009/01/01 00:08:22	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:07:22	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:06:18	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:05:18	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:04:14	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:03:14	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:02:10	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:01:07	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F
2009/01/01 00:00:07	229.1/229.1/229.1	229.1/229.1/229.1	98.1/98.2/98.3	55.1	55.1	55.1	98	33.3°C 91.9°F

Clear Save Data Log Help

Fig.27 Data Log

2.3.4 Save Data Log

This function is to record RS232 UPS's voltage, frequency, load, capacity, temperature. etc to save as another file for the other purpose to the manager.



Fig.28 Save Data Log

2.4 Help

2.4.1 Help

Display the information about NetAgent.

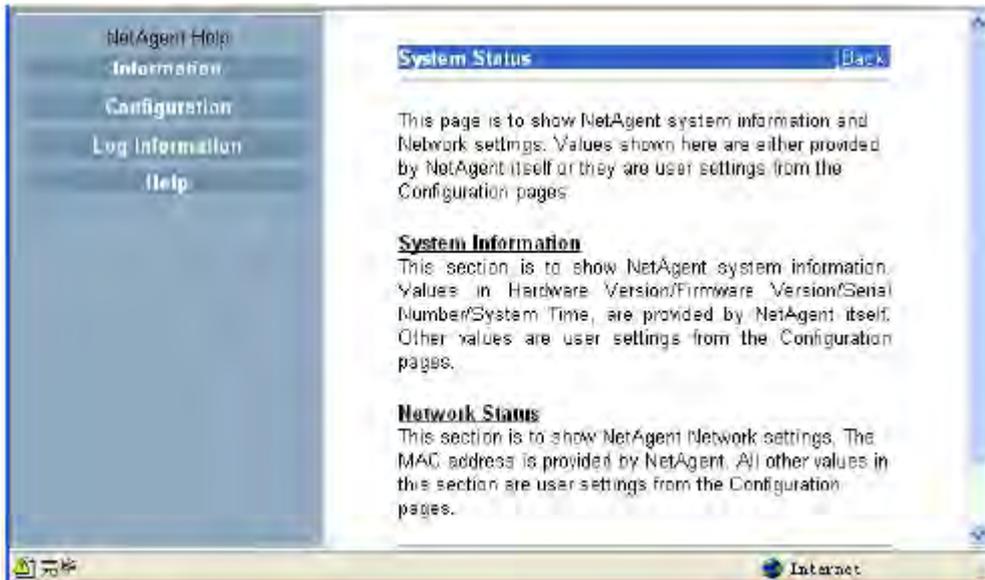


Fig.29 Help

2.4.2 About

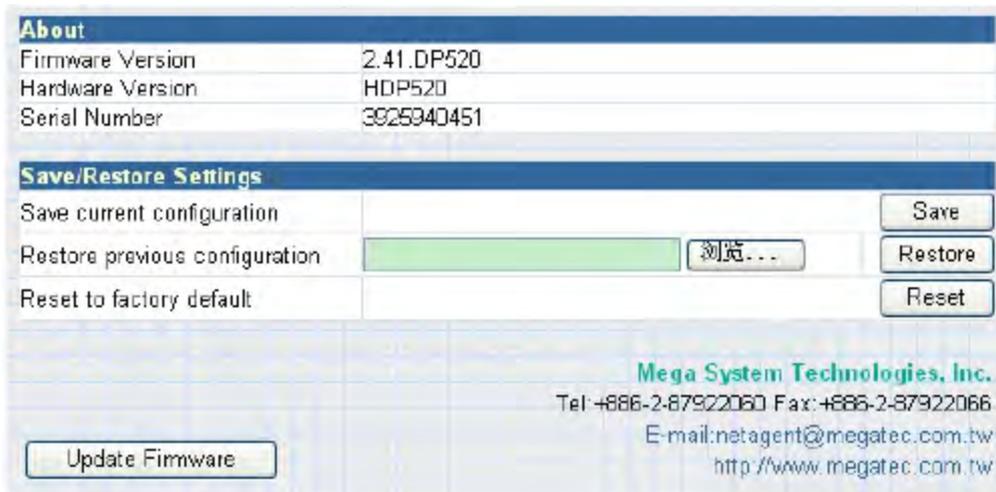


Fig.30 About

About

User may check NetAgent's instruction, version of software/hardware, manufacture. etc. from here.

Save/Restore Settings

Click Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####.cfg. Administrator permission required. Use this function to restore a *.cfg configuration that has been saved earlier. Click Browse... to the location of the file and

click Restore.

Reset to factory default

This function will reset all settings to its default value.

Update Firmware

This function will help you link to MegaTec's Web server, in order to download the latest firmware.

Chapter 6. Telnet (Remote Monitoring)

Section1. Introduction

NetAgent supports multiple Network Management systems and LAN protocols. After finishing hardware installation, you are now able to choose any utilities that provided by NetAgent to monitor and control UPS. Here are introduction for using Telnet.

Section2. Telnet Configuration

Select “Start” from Windows, click “Run” to key-in NetAgent IP Address.

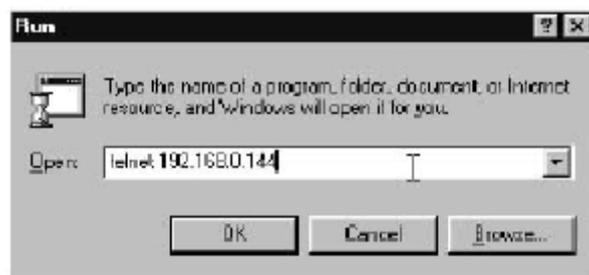


Fig.31 Telnet Startup

Successful link-up display:

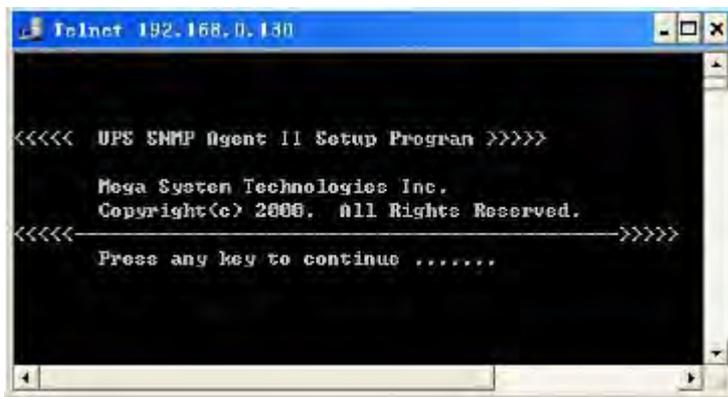


Fig.32 Telnet Connection

Initial to setup, please press “Enter” to enter telnet main screen. If the User Name and Password had been set before, please enter actual value to access.



Fig.33 Telnet: Input User Name / Password

Main screen is as follows:

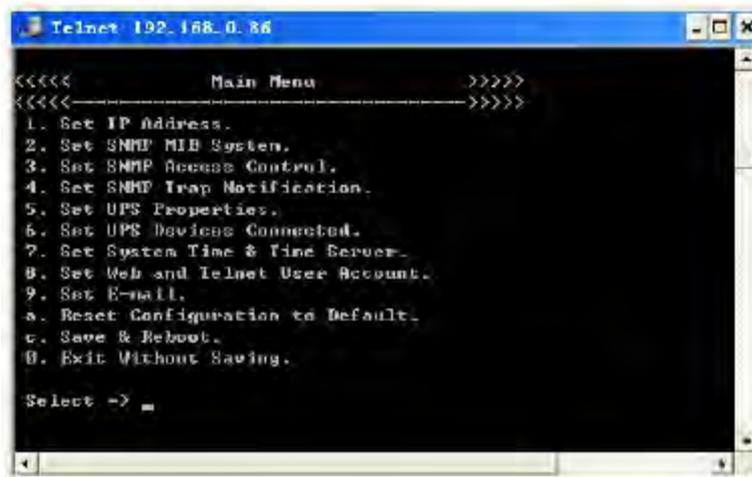


Fig.34 NetAgent Telnet Window

1. Set IP Address.

This function allows you to setup IP Address, Gateway Address, Subnet Mask parameters.

2. Set SNMP MIB System.

This function allows you to set the MIB system group parameters.

3. Set SNMP Access Control.

This function allows you to set the Manager IP, Community, Access Permission. Note: The configuration of 'Set SNMP Access Control' is only used for SNMP Network Manager.

4. Set SNMP Trap Notification.

If you want to use a PC and perform the 'Trap' function of SNMP manager to manage UPS through Net Agent, the IP address of the PC must be added in this list of Net Agent. Note: The configuration of 'Set SNMP Trap Receiver' is only used for SNMP Network Manager.

5. Set UPS Properties.

This allows you to setup the Communication Type of UPS, UPS Device Name and Battery Replacement Date.

6. Set UPS Devices Connected.

This allows you to setup the System Name, Rating which connected.

7. Set System Time & Time Server.

This allows you to setup the System date, time and two time servers.

8. Set Web and Telnet User Account.

This is allows to set users account's authority.

9. Set E-mail.

This is allows to set e-mail accounts to receive power event notification for emergency management.

a. Reset Configuration to Default.

Set all values to their default settings.

b. Save & Reboot.

Save the current configuration data, including any changes you have made, and reboot the Net Agent.

0. Exit Without Saving.

Exit, all configuration changes will be lost.

Chapter 7. ClientMate - Windows Shutdown Utility

ClientMate is a utility for connecting to NetAgent. This utility is for the Windows platform. When the ClientMate get the power failure signal from the NetAgent. The ClientMate will save the files and shutdown the system gracefully. When the hardware installation of the NetAgent has been completed, you could install the ClientMate on any of the Windows system on the network. When the ClientMate detects the AC Fail, Battery Low, Schedule Shutdown signals from the NetAgent, it will save the file and shutdown the system. Please check the operation description here below.

Section1. Install ClientMate

Put the NetAgent Utility CD into the CD driver. And execute the “ClientMate” program. After complete installation, there will be a ‘ClientMate’ group in the Windows Start group.



Fig.35 ClientMate Group

Click “ClientMate” to initiate the ClientMate and start using the ClientMate.

Section2. Using ClientMate

Please find the ClientMate main window here below: press the left icon to enter the configuration dialog. On the right of the window is the current status of the UPS.



Fig.36 ClientMate Main Window

2.1 Configuration

When the ClientMate gets the signal from the NetAgent about the AC power failure or battery low signals, the ClientMate will based on the configuration below to initiate the shutdown process. The details of the configuration are here below.

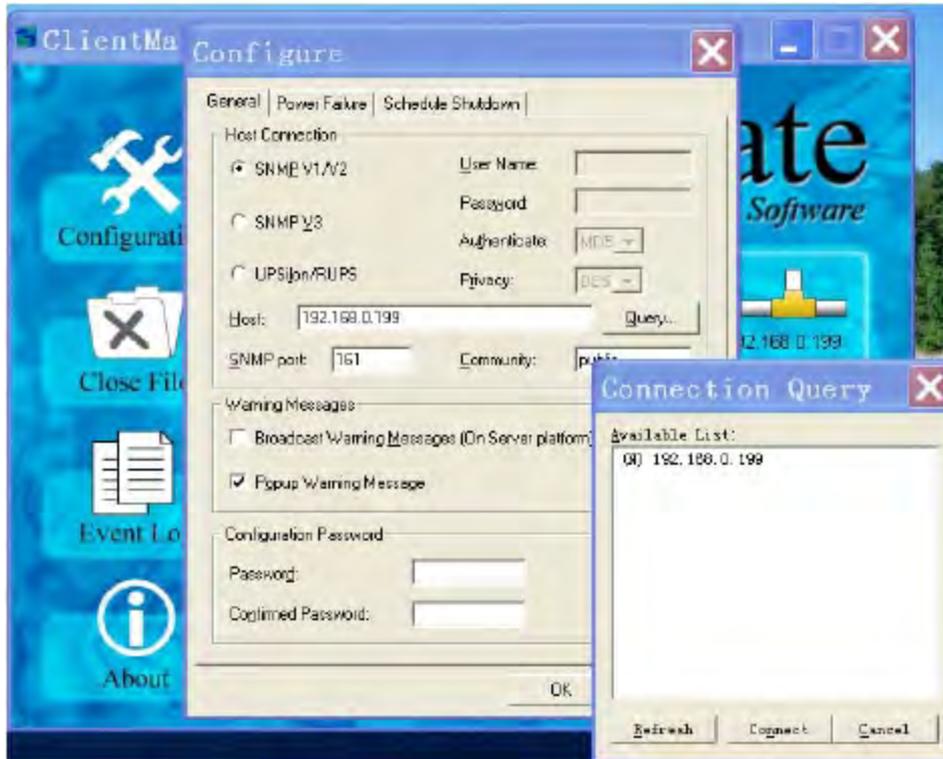


Fig.37 ClientMate: Config

i. Host Connection

Configure the Host connection IP address.

ii. Host

Press the “Query” to search the host on the network automatically. If a host RUPS2000 Host located on different network segment. Please input the IP in the HOST edit box. The IP searched on the Connect Query:

(N): The NetAgent Host

(S): The UPSilon2000 Host

iii. Community Name (For NetAgent only)

The community name of the NetAgent, thus the ClientMate could be able to make connection to NetAgent.

iv. Computer Shutdown

Set the shutdown configurations.

v. Broadcast Warning Messages (On Server platform only)

To configure if sending the warning messages when power failed. (only for WinNT, Win2000

and XP server operating system).

vi. Shutdown Windows

To configure if shutdown the Windows system when power failure.

vii. When AC failed, commence computer shutdown sequence in xx Min.

To configure the time delay between the AC failure and the system shutdown.

viii. When Battery Low, commence computer shutdown sequence in xx Min.

To configure the time delay between the Battery Low and system shutdown.

ix. Notify Scheduled shutdown before xx Min.

Time before the 'Schedule Shutdown' to make notification.

x. Turn Off UPS (For NetAgent Only)

Setting if to turn-off NetAgent UPS AC power after system shutdown.

xi. Turn Off UPS shutdown sequence in xx Sec.

Time delay of turn-off the UPS power.

xii. Auto save application files

Check if to save the application files before system shutdown.

xiii. Run Application before shutdown computer

Execute the application before system shutdown.

2.2 Closed Files

User could review all the files closed during previous shutdown process. If the "Auto save application files" function has been turn-on in the "Setting" dialog, the details of the closed application and files could be reviewed here.



Fig.38 ClientMate: Closed Files

2.3 About

Press this button could review the version information of the ClientMate, as here bellowed.

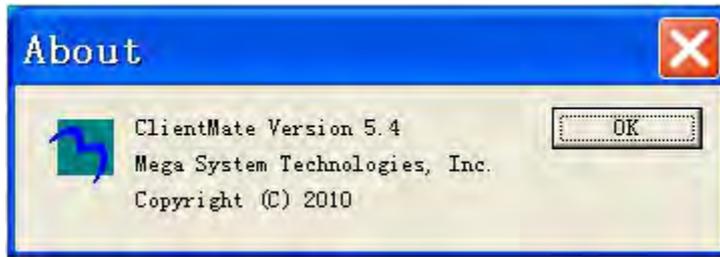


Fig.39 ClientMate: About

2.4 Event log

Press this button could review all the network status and UPS status happened. Shown as below.

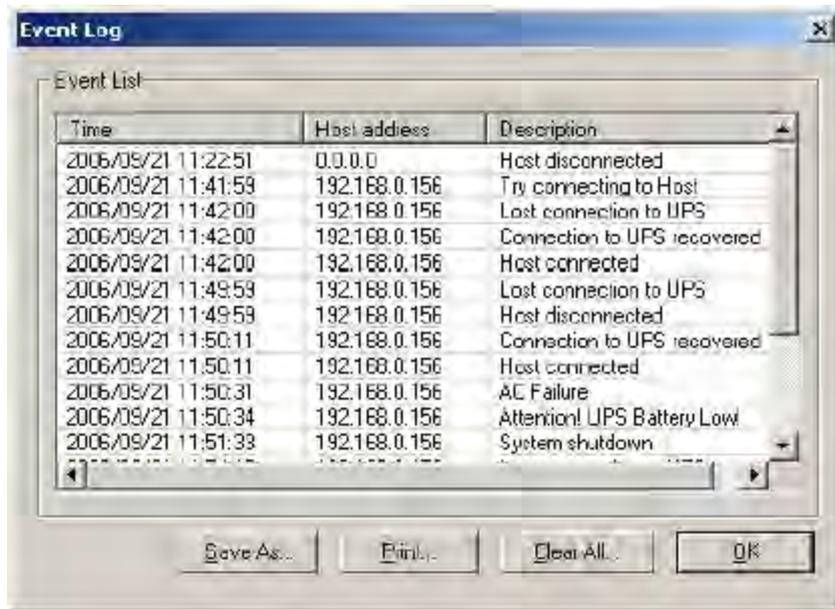


Fig.40 ClientMate: Event log

2.5 IP address of connection

Status ICON	Descriptipn
	Already connect to NetAgent UPS at IP 192.168.0.199
	Does not connect to any NetAgent.

2.6 AC power status

Status ICON	Descriptipn
	The connected NetAgent UPS AC power is normal.
	The connected NetAgent UPS AC power is failed.

2.7 Battery status

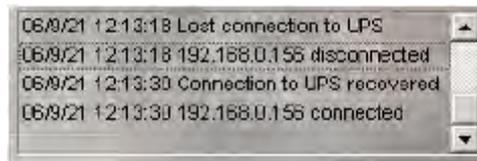
Status ICON	Descriptipn
	The connected NetAgent UPS battery is in normal condition.



The connected NetAgent UPS is in battery low condition.

2.8 Status history

In the right-lower corner of ClientMate, the 'Status History' showing all the network status and UPS status happened.



Chapter 8. SNMPView-Windows Based UPS Management System

Section1. Introduction

SNMPView is a software to remotely monitor and control multiple UPS connected to a network. When an event occurs, SNMPView can be programmed to send an email or a pager to inform the designated network manager. It can also inform the user of the UPS current condition or configuration, send a history file and more.

SNMPView features:

- ① A windows interface that is simple and user friendly.
- ② Automatic detection and identification of any UPS with NetAgent connected to a network.
- ③ Capable of simultaneously monitoring up to 1,000 UPS
- ④ Remotely control, monitor, and manage the networked UPS
- ⑤ Able to simultaneously support both RS-232 Interface (1 or 3 phase) UPS.
- ⑥ UPS condition displayed in either a graphic or analog bar chart.
- ⑦ Supports MegaTec's SNMP Agent and SNMP Internal Card.
- ⑧ Able to send email for notification
- ⑨ Able to send SMS for notification

Section2. System Requirements

- ① LAN/WAN network system with TCP/IP

- ② RS-232 Interface UPS
- ③ External SNMP Agent or SNMP Internal Card
- ④ Microsoft Windows 95, 98, NT, 2000, XP, Me, 2003

Section3. Install SNMPView

- ① Put the NetAgent Utility CD into the CD driver. And execute the SNMPView program.
- ② After installation, there will be a NetAgent group in the Windows Start group.
- ③ Click “NetAgent” → “SNMPView” → “SNMPView for Windows” to start using SNMPView.



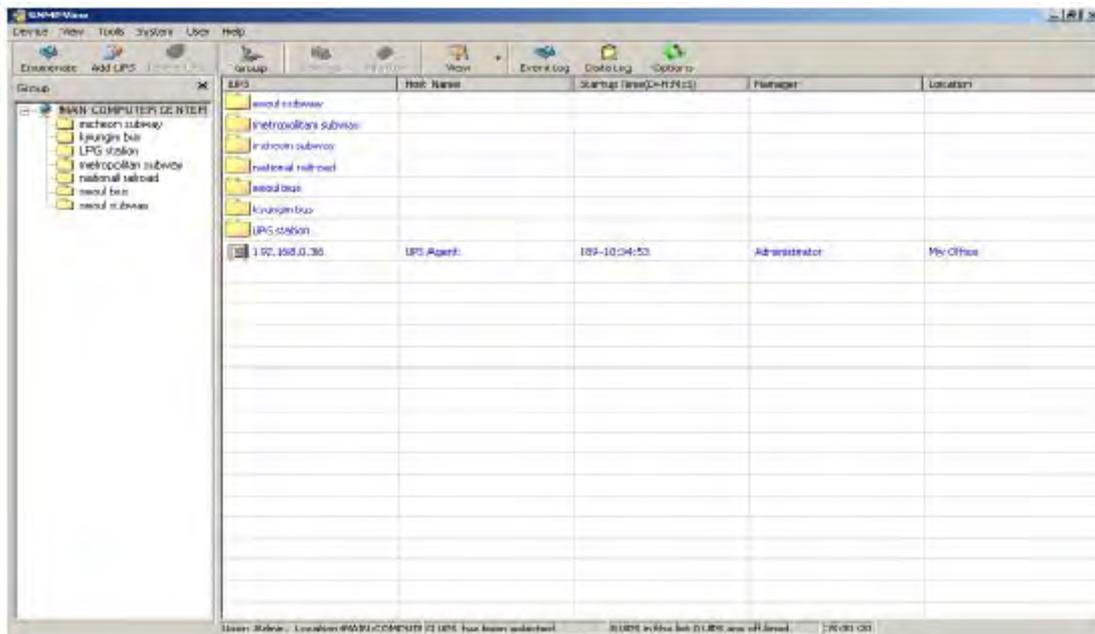
Section4. Using SNMPView

When use SNMP view at the first time, the system will ask for input the user's name and password. Please enter the default value as follows to start the SNMPView.

User Name: Admin

Password: <blank> (just press <Enter>)

After the SNMPView program start up the main windows will be displayed. The left panel will list the available stations by area and the right panel will list the UPS, Host Name, Startup Time, Manager and Location of UPS found in each station.



Shows that the device is a UPS



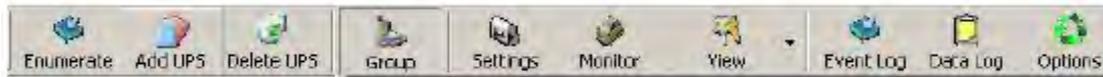
Shows that the UPS is Battery Low



Shows that the UPS is Disconnect / Off-Line

Section5. SNMPView Buttons

When use SNMPView, configuration could be done by all function icons displayed or right click on the mouse to show functions list.



Followings are the explanation of each function icon:

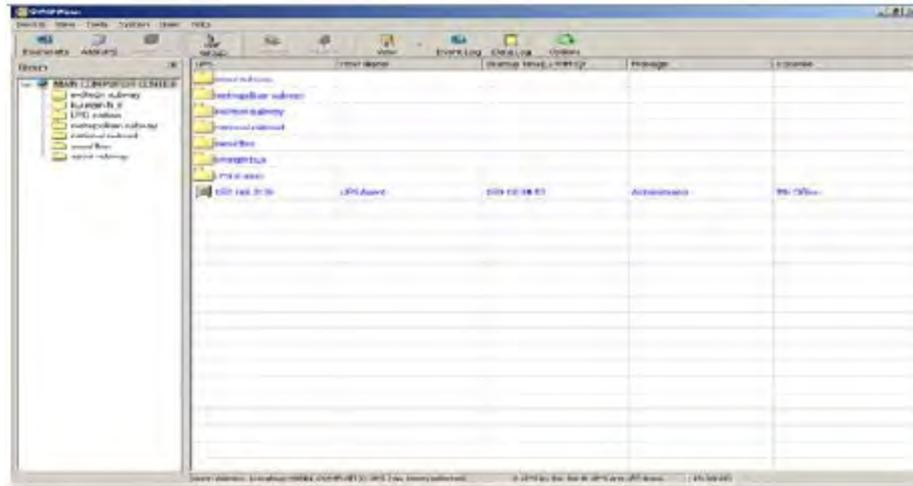
Enumerate	Search all SNMP hosts that supports Public group and display them on the screen
Add UPS	Manually add a host into the window
Delete UPS	Manually delete a host into the window
Group	Shows the Main group windows
Settings	If the host is a UPS, just click on it to view and modify the UPS's general information
Monitor	If the host is a UPS, just click on it to start monitoring UPS
View	Display in either, Large icons, small icons or details
Event Log	Records the UPS, date, time and description of an event
Data Log	Records data of all UPS listed
Options	Sets the SNMP Parameter for community, Trap port and UPS SNMP port

Following is the main function icons and its reference chapter.

Main List	Sub List
5.1 Device(D)	<ul style="list-style-type: none"> • 5.1.1 Enumerate • 5.1.2 Add Group • 5.1.3 Add UPS • 5.1.4 Delete • 5.1.5 Browse Device
	<ul style="list-style-type: none"> • 5.1.6 Export Configurations • 5.1.7 Import Configuration
	<ul style="list-style-type: none"> • 5.1.8 Open archive Event Log • 5.1.9 Open archive Data Log
	<ul style="list-style-type: none"> • 5.1.10 Quit
5.2 View(S)	<ul style="list-style-type: none"> • 5.2.1 Large Icons • 5.2.2 Small Icons • 5.2.3 Details • 5.2.4 Map Background
5.3 Tools(P)	<ul style="list-style-type: none"> • 5.3.1 UPS Settings • 5.3.2 UPS Monitor
	<ul style="list-style-type: none"> • 5.3.3 SNMP Management
5.4 System(S)	<ul style="list-style-type: none"> • 5.4.1 Event Log • 5.4.2 Data Log • 5.4.3 SNMP Option
5.5 User(U)	<ul style="list-style-type: none"> • 5.5.1 Change Password • 5.5.2 Account Management
5.6 Help(H)	<ul style="list-style-type: none"> • 5.6.1 Help
	<ul style="list-style-type: none"> • 5.6.2 About

5.1 ENUMERATE(D)

Start SNMPView and press the “Enumerate” button, SNMPView will start a search for all the NetAgent on network and list them in the main window.

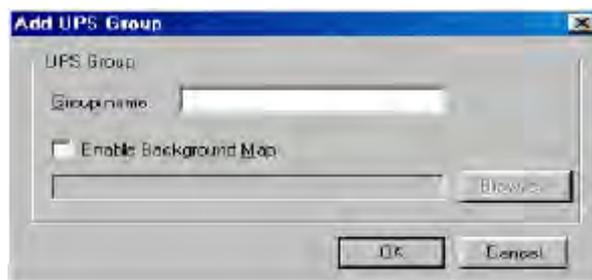


5.1.1 Enumerate

When press, SNMPView will start a search for all the NetAgent on network and list them in the main window.

5.1.2 Add Group

This is to edit or display all the group station of NetAgent under network



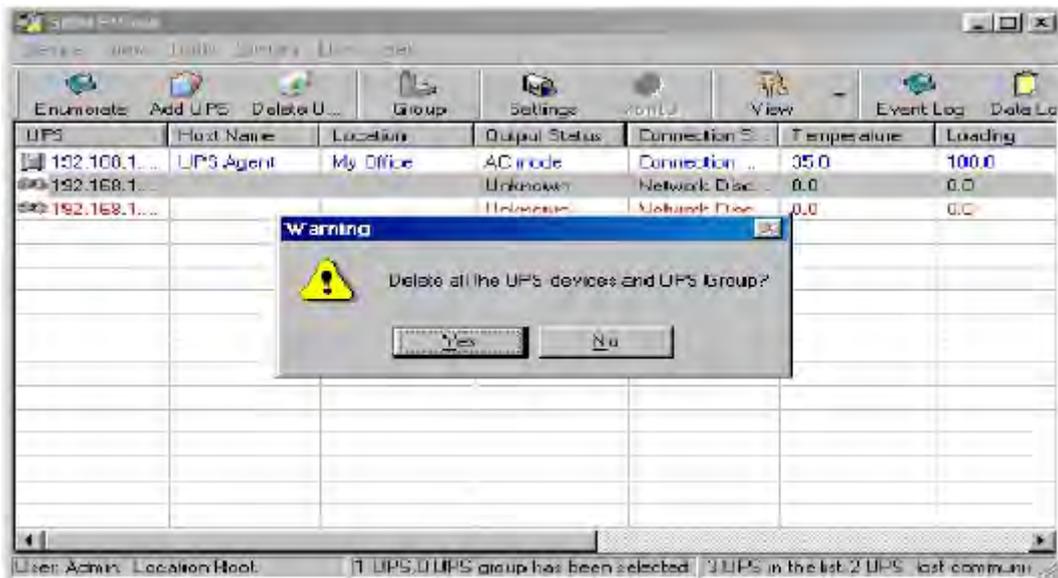
5.1.3 ADD UPS

Click “Add UPS” to enter the IP address of the UPS manually. Once entered, the UPS will be shown on the main list.



5.1.4 DELETE UPS

Highlight the unit to be deleted from main list and right click on it to choose Delete or use click on the Delete icon from main function list. Hold On “Shift” to select multi NetAgent UPS

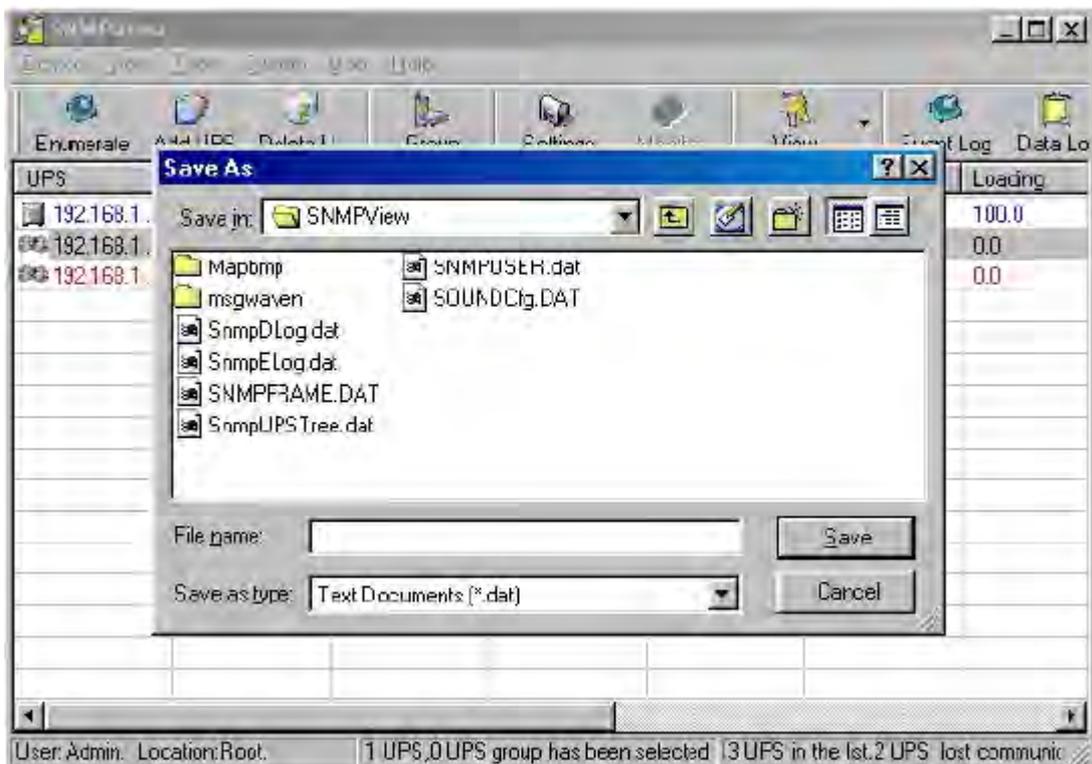


5.1.5 Browse Device

Highlight the unit to be browsed and click it to enter NetAgent's webpage.

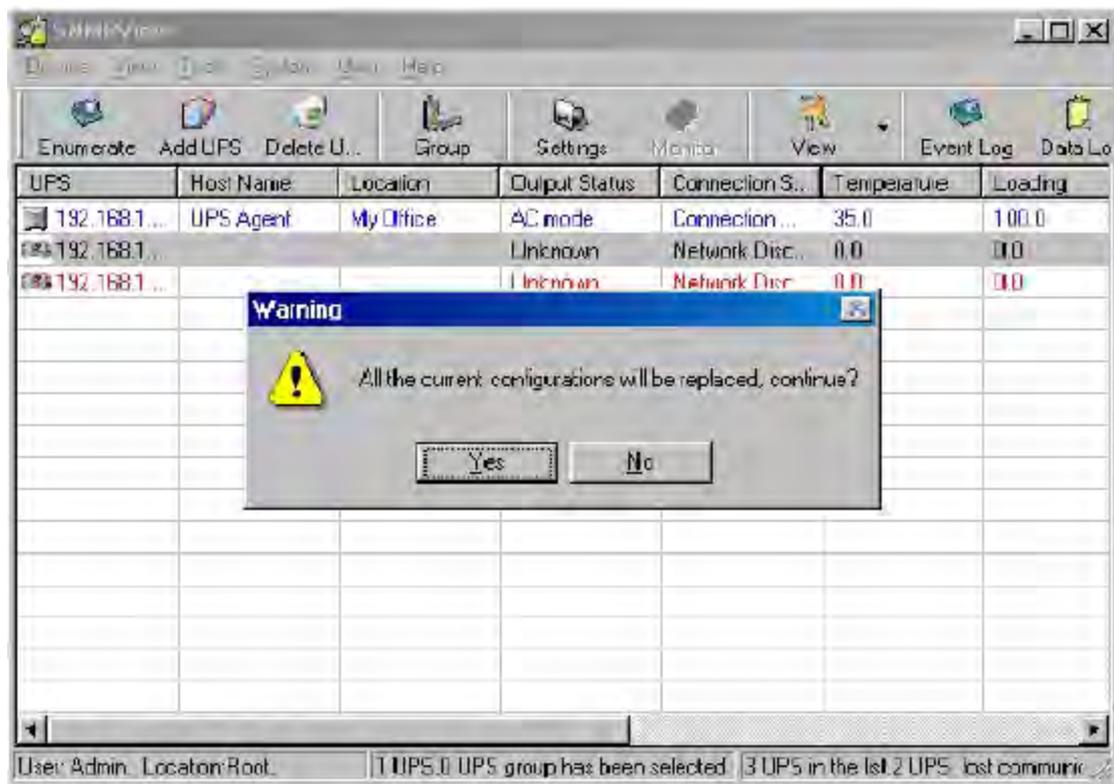
5.1.6 Export Configuration

This is to save the NetAgent UPS's configuration



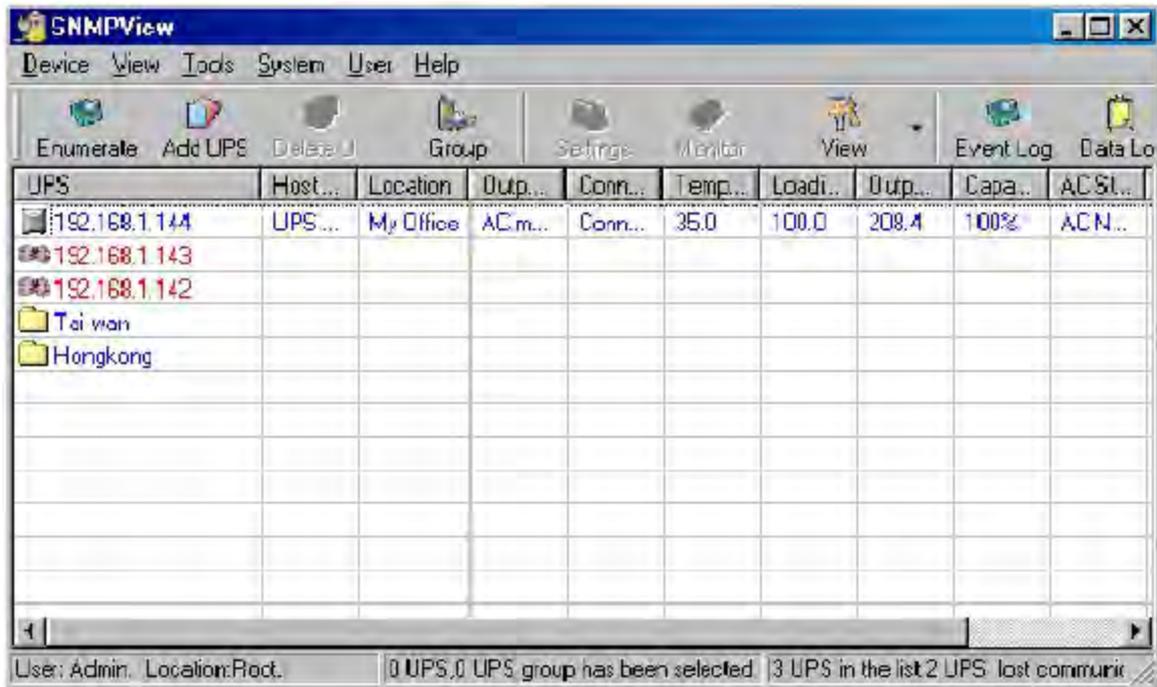
5.1.7 Import Configuration

This is to import the configuration of NetAgent UPS that saved



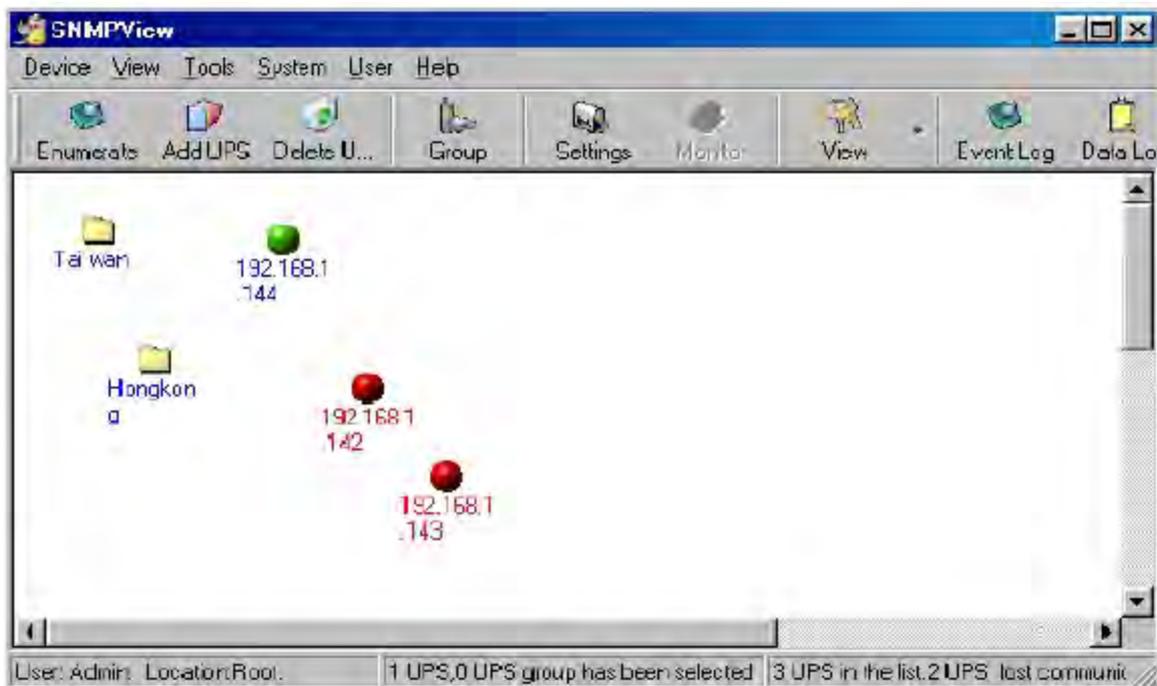
5.2.3 Details

Detailed Information displays NetAgent UPS's IP address, name, input voltage, output voltage, battery capacity, load, frequency. etc.



5.2.4 Map Background

Import a map image (JPG) by right click on the main screen and move NetAgent UPS icon to its suitable location.



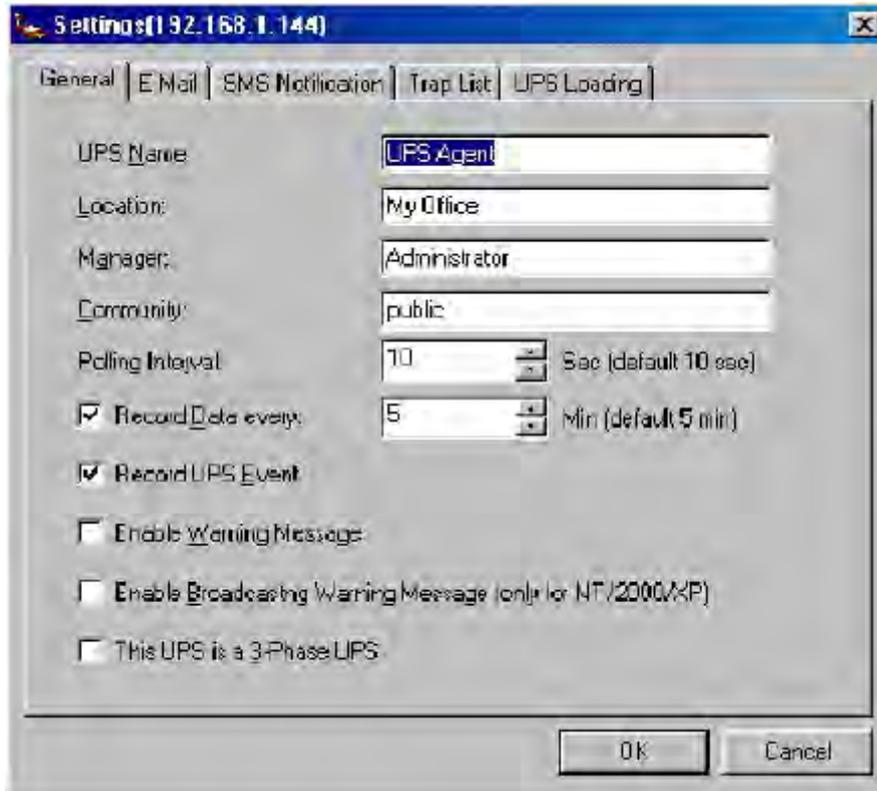
5.3 Tools(P)

Highlight NetAgent UPS device and configure.

5.3.1 Settings

General

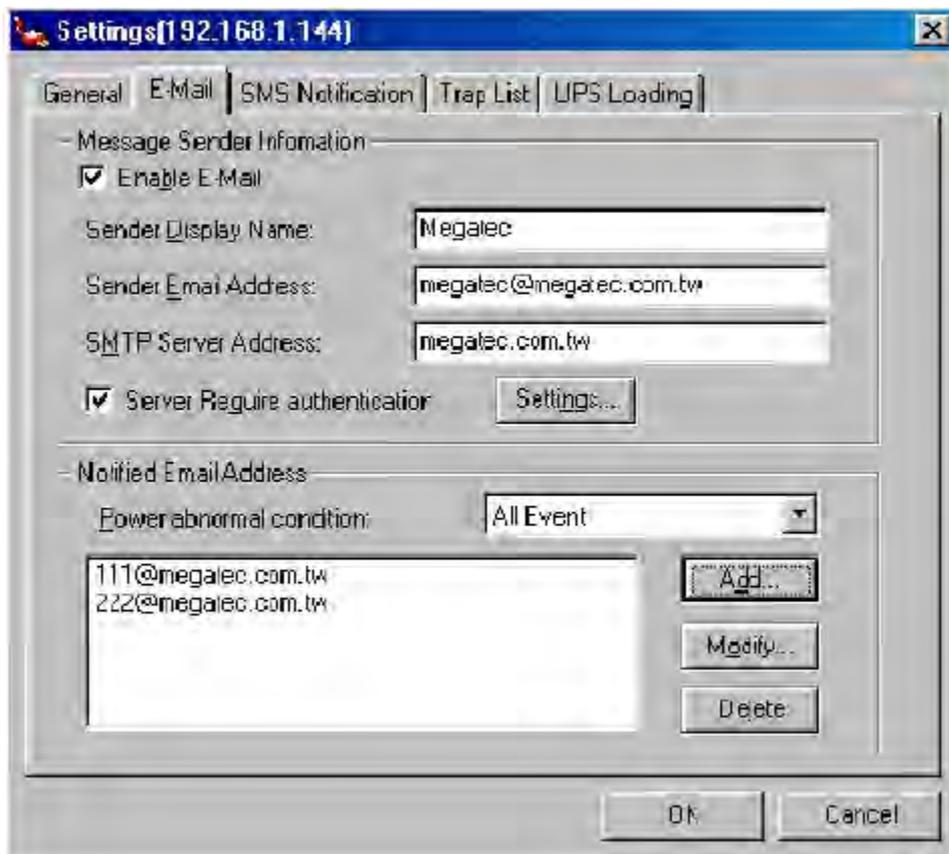
This to configure UPS information, record UPS event, enable trap alarm.. etc.



Email

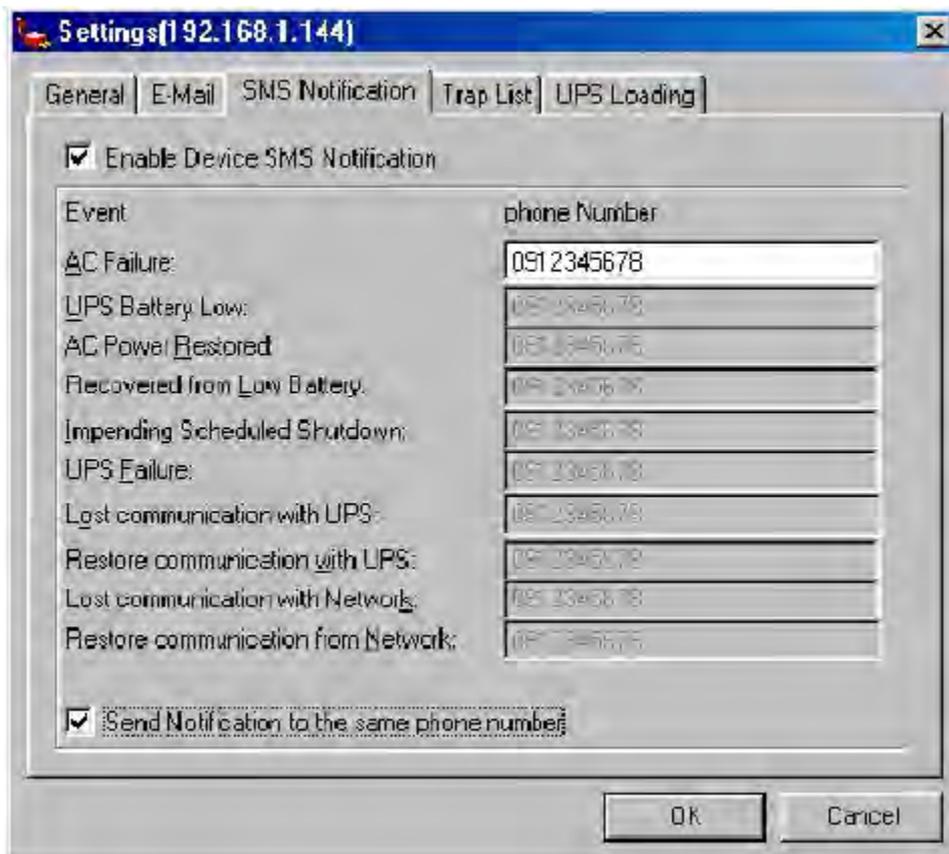
Send email notification when event occurs

- ◆ Sender Display name: Please enter sender display name
- ◆ Sender email address: Please enter sender email address
- ◆ SMTP server address: Enter SMTP address, IP address or domain name.
- ◆ Server requires authentication: Click Setting, then enter your Account Name and Account Password.
- ◆ Notified Email Address: Click add and enter new email address.



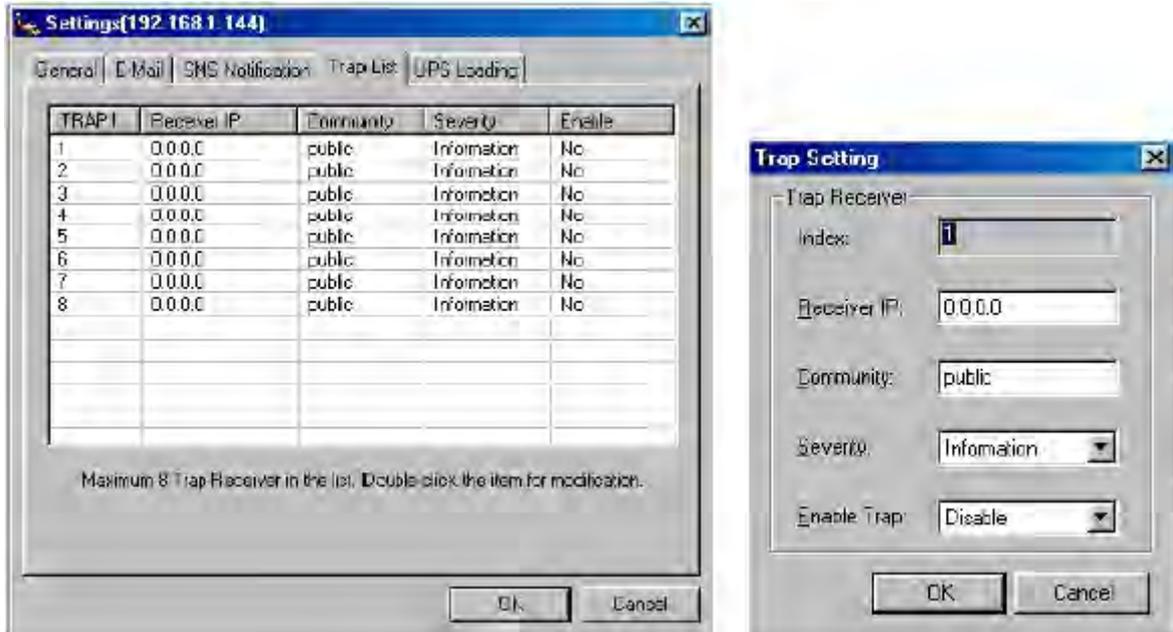
SMS Notification

Send SMS when event occurs



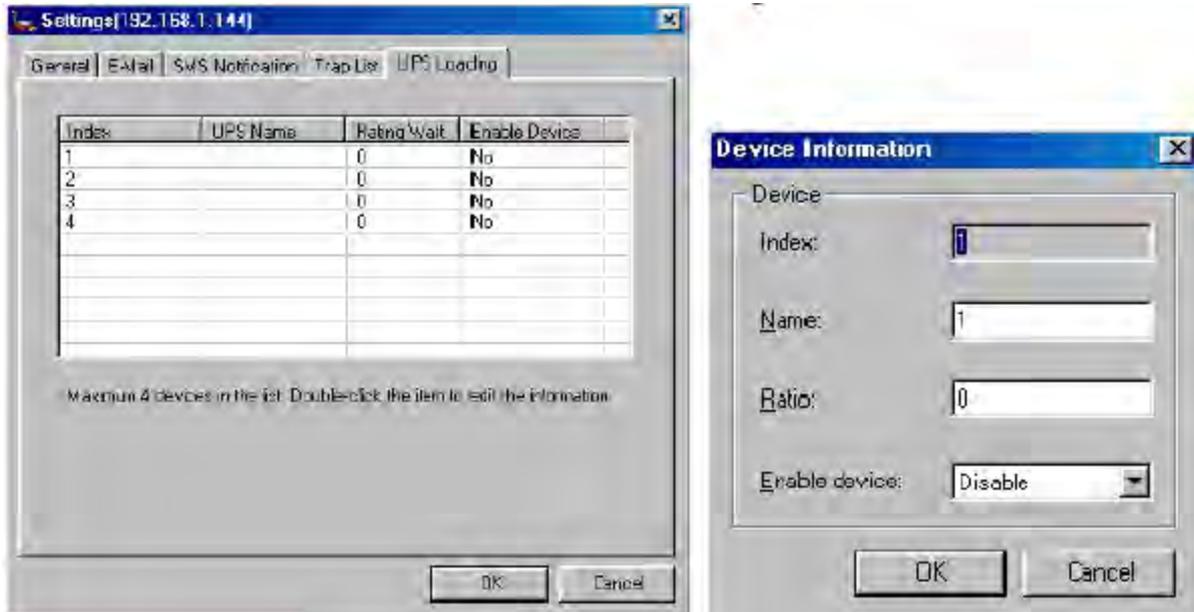
Trap List

Double click on the trap that listed and configure



UPS Loading

To configure all the other devices and its load that connects with NetAgent UPS. Double click on the device listed and configure.

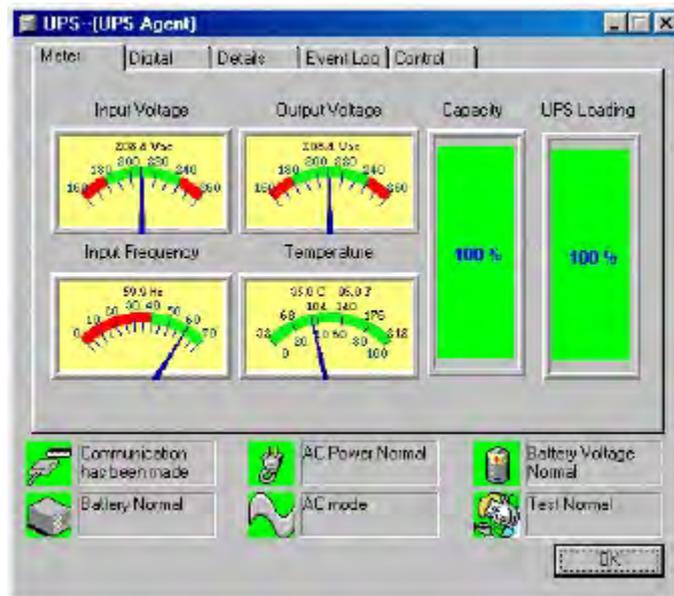


5.3.2 UPS Monitor

Highlight NetAgent UPS device and configure. Or right click on the highlighted device and click on monitor device.

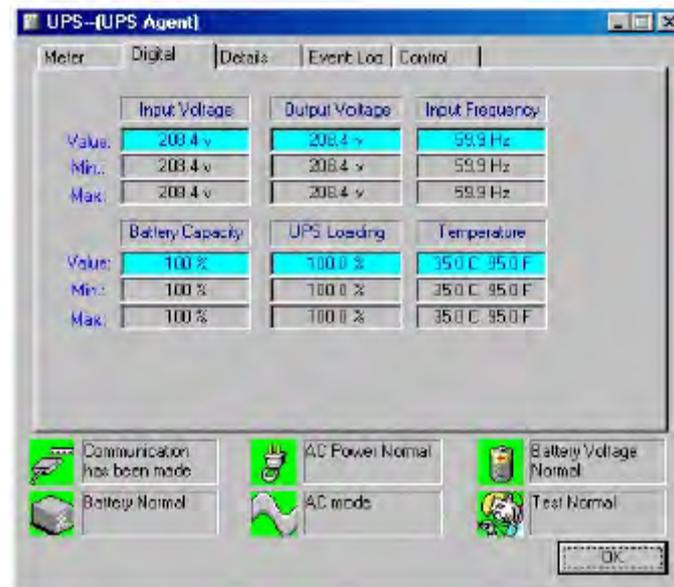
Meter

Display NetAgent UPS information such as input voltage, output voltage, temperature, capacity. .etc in diagram.



Digital

Display NetAgent UPS information such as input voltage, output voltage, temperature, capacity. .etc in digital.



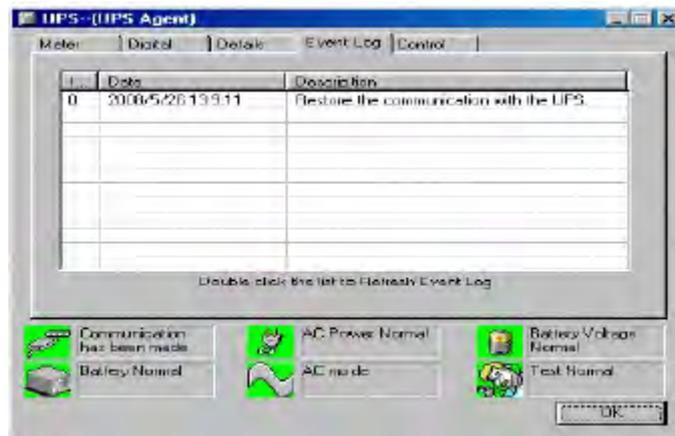
Details

Display NetAgent UPS's IP address, location, user, manufacturer and all other detailed information.



Event Log

This display event happened with date/time and its description.



Control

The functions of PowerPlus XM series have been closed in the current version of software.

Test Control

The functions of PowerPlus XM series have been closed in the current version of software.

Turn-Off Parameters

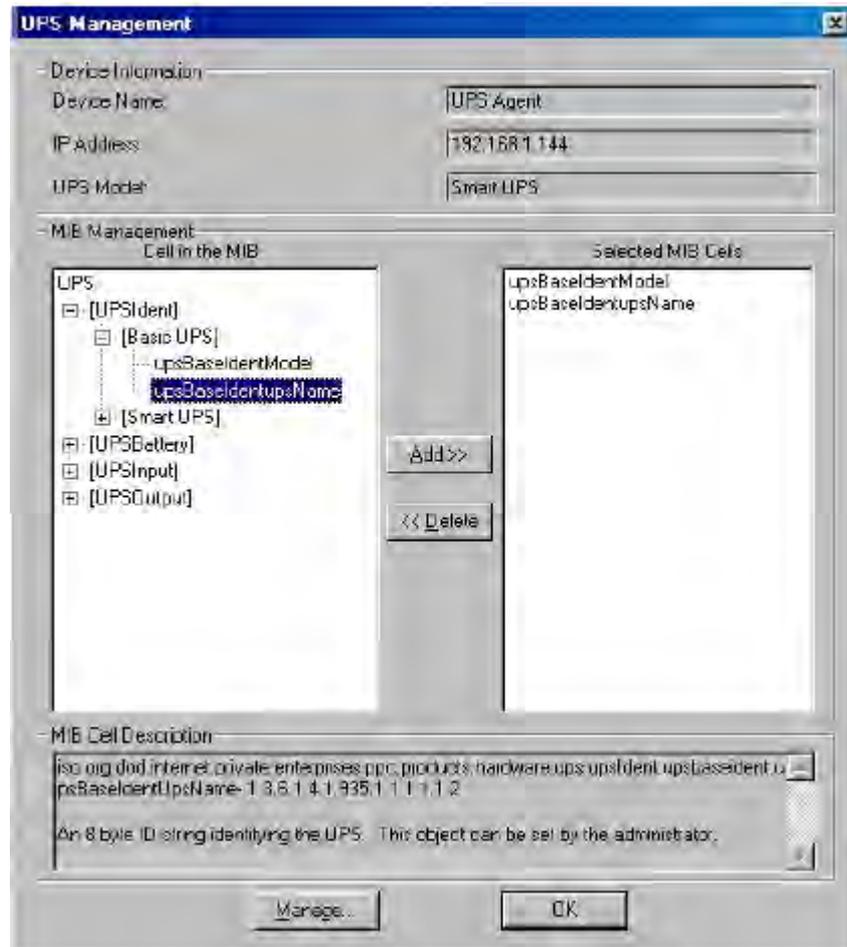
The functions of PowerPlus XM series have been closed in the current version of software.

Test Period

The functions of PowerPlus XM series have been closed in the current version of software.

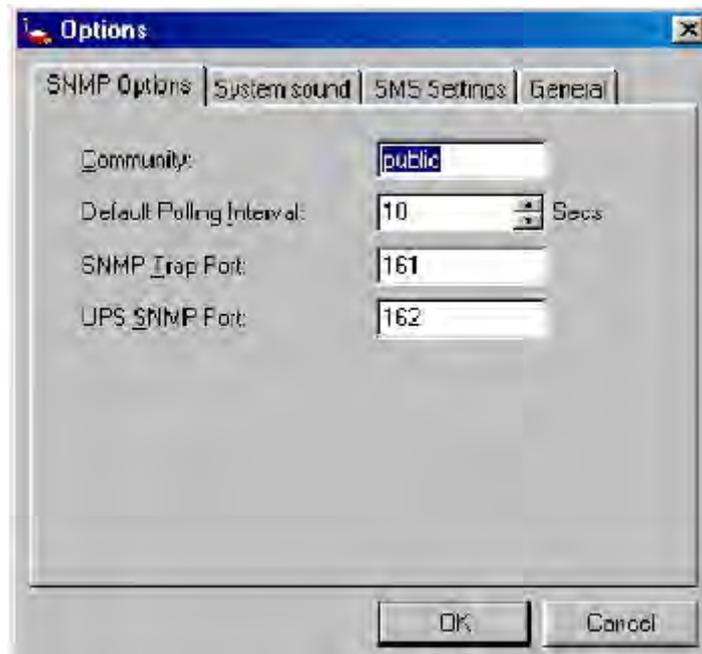
5.3.3 UPS Management

To configure SNMP of its NetAgent UPS



5.4.3 SNMP Option

To set NetAgent UPS's parameter.



5.5 User(U)

Total of 8 users account can be created to manage and control its NetAgent UPS.

5.5.1 Change Password

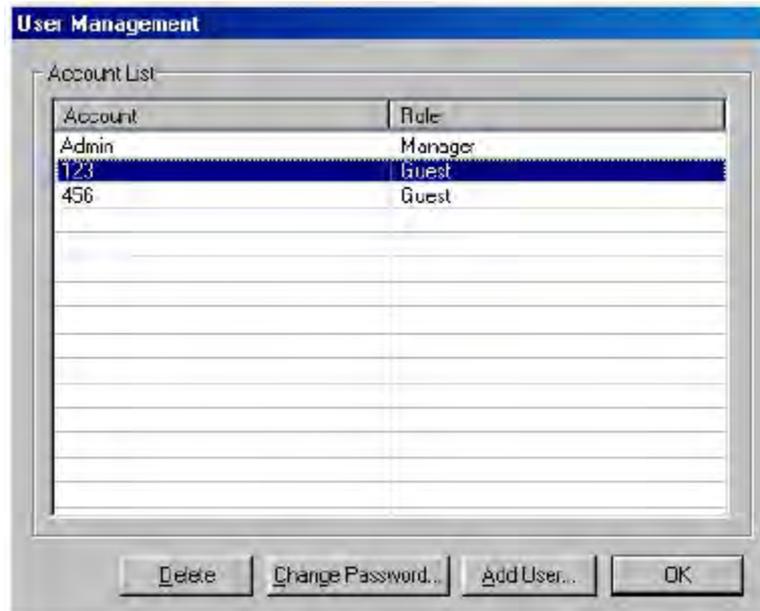
To change existing user's password to login.



A dialog box titled "Change Password" with a close button (X) in the top right corner. It contains three text input fields under the heading "Account Information": "Old password:", "New password:", and "Confirm new password:". At the bottom, there are two buttons: "OK" and "Cancel".

5.5.2 User Management

This is only for Admin user to add, edit or remote other user's info.



A dialog box titled "User Management" with a close button (X) in the top right corner. It contains a table with two columns: "Account" and "Role". The table has three rows: "Admin" with "Manager" role, "123" with "Guest" role, and "456" with "Guest" role. The "123" row is selected. Below the table are four buttons: "Delete", "Change Password...", "Add User...", and "OK".

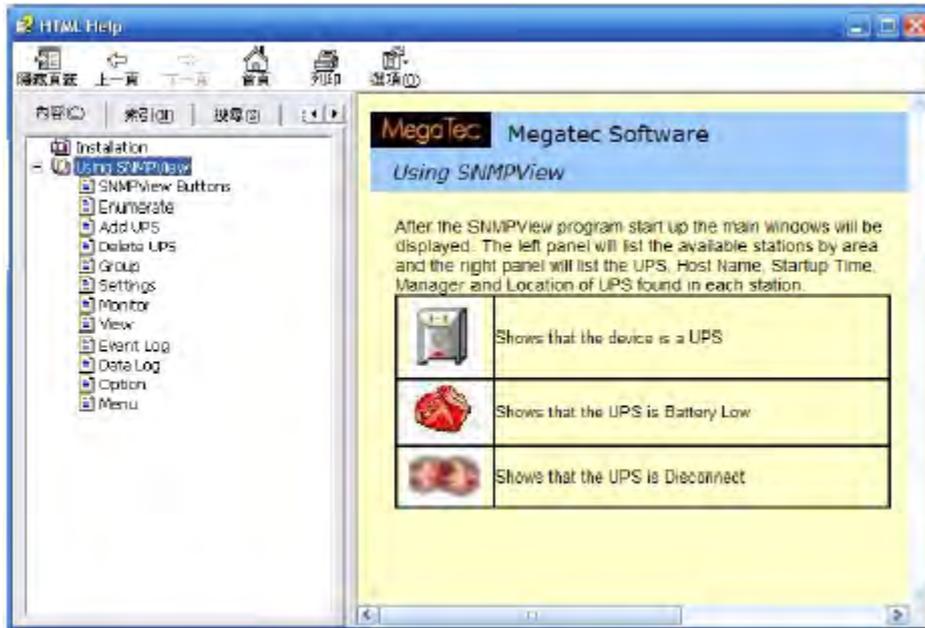
Account	Role
Admin	Manager
123	Guest
456	Guest

5.6 Help(H)

Display the current SNMPView version, and operation information

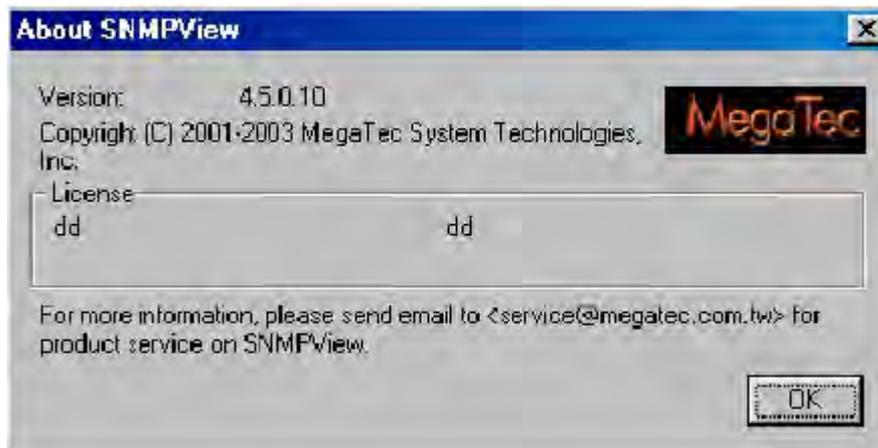
5.6.1 HTML Help

This is to check the operation of SNMPView.



5.6.2 About

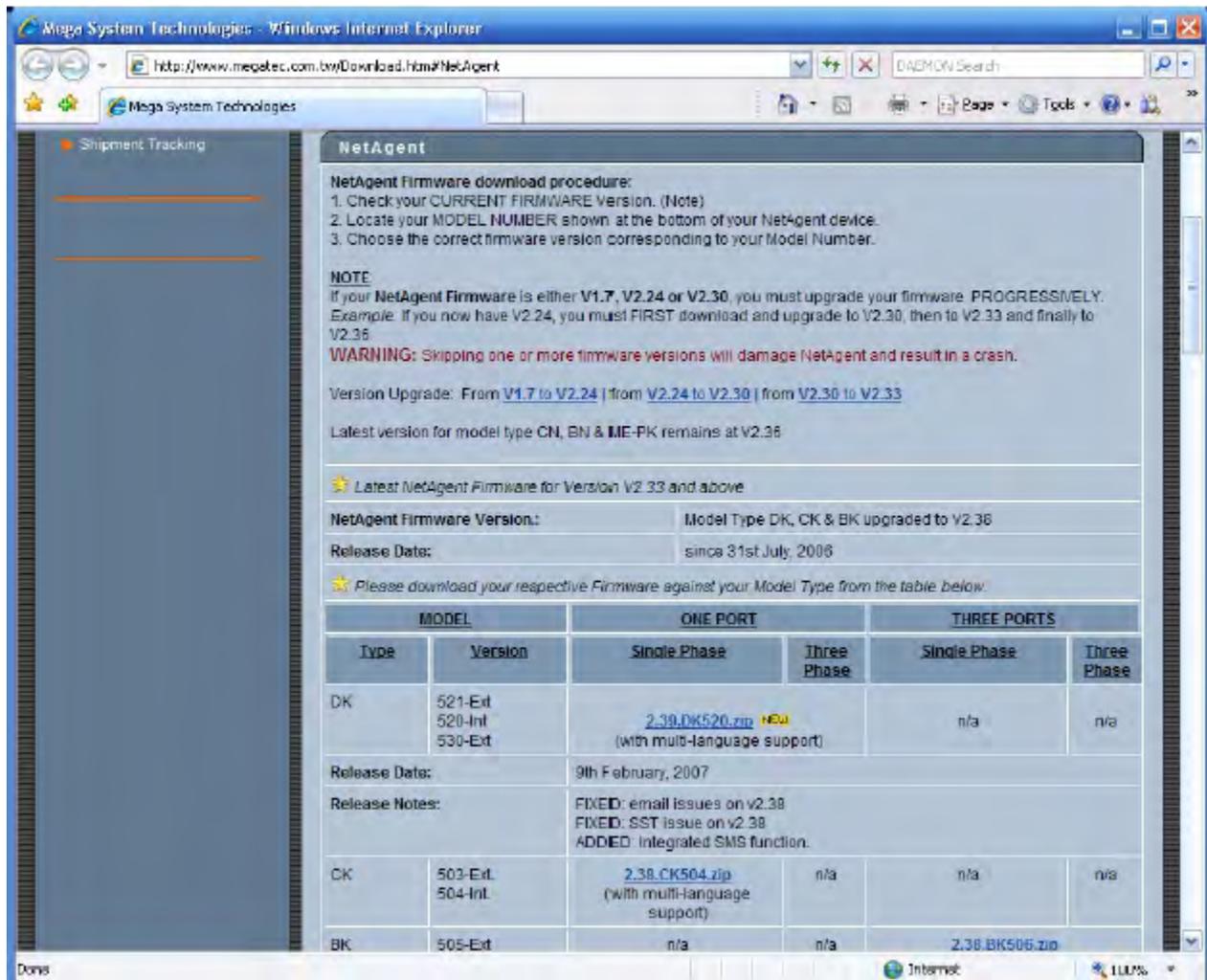
Display the current SNMPView version, Copyright information and product service contact.



Appendix - Update the firmware of NetAgent UPS

NetAgent provides the following convenient methods for user to update the latest firmware of the NetAgent

1. Click firmware upgrade under About of NetAgent webpage and it would link to MegaTec's server to download the latest firmware. Then use Download Firmware from Netility to upgrade it.



NetAgent

NetAgent Firmware download procedure:

1. Check your CURRENT FIRMWARE version. (Note)
2. Locate your MODEL NUMBER shown at the bottom of your NetAgent device.
3. Choose the correct firmware version corresponding to your Model Number.

NOTE
If your NetAgent Firmware is either V1.7, V2.24 or V2.30, you must upgrade your firmware PROGRESSIVELY. Example: If you now have V2.24, you must FIRST download and upgrade to V2.30, then to V2.33 and finally to V2.36.

WARNING: Skipping one or more firmware versions will damage NetAgent and result in a crash.

Version Upgrade: From [V1.7 to V2.24](#) | from [V2.24 to V2.30](#) | from [V2.30 to V2.33](#)

Latest version for model type CN, BN & ME-PK remains at V2.36

★ Latest NetAgent Firmware for Version V2.33 and above

NetAgent Firmware Version: Model Type DK, CK & BK upgraded to V2.36

Release Date: since 31st July, 2006

★ Please download your respective Firmware against your Model Type from the table below.

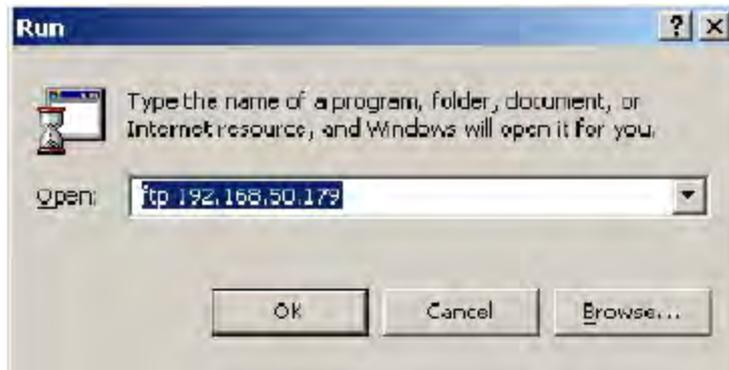
MODEL		ONE PORT		THREE PORTS	
Type	Version	Single Phase	Three Phase	Single Phase	Three Phase
DK	521-Ext 520-Int 530-Ext	2.30_DK520.zip NEW (with multi-language support)		n/a	n/a
Release Date:		9th February, 2007			
Release Notes:		FIXED: email issues on v2.30 FIXED: SST issue on v2.30 ADDED: Integrated SMS function.			
CK	503-Ext 504-Int	2.30_CK504.zip (with multi-language support)	n/a	n/a	n/a
BK	505-Ext	n/a	n/a	2.30_BK506.zip	

2. Use FTP to update (suitable for BK, CK, DK, BP, CP, DP using firmware version 2.35 and later)

The FTP is an easy and common way to upload the latest firmware into the NetAgent. Please follow the instruction below to update the firmware. If there is other FTP client application on your computer, that will also be fine to use it for updating the firmware.

For example: if wish to update the latest firmware of the NetAgent UPS which IP address is 192.168.50.179, then please operate with the steps below:

(1) Enter Windows, then type ftp 192.168.50.179 under “Run” of the “Start Menu”



(2) After executed, the systems will requests for the user name and password. Please enter “admin” under the user name and enter the password that was been set at Netility under password. If did not set before, then please enter the default value as user name: “admin” and nothing under password. (press “Enter”).

- Once the account and password been checked, the server will response with 230 OK to indicate Login succeeded.

- If entered wrong account and password, the server will response with 530 Not Logged in to indicate Login failed.

(3) Operation commands as followings:

-ls: This command is to request server to list up all the file and sub file under current Menu. User may finds out the firmware version of the NetAgent UPS of its IP.

-put<client’s file route>: This command is to ask the client to copy its specific file route to the Server point. User may use this method to upload the latest firmware to the remote NetAgent

-quit: This command is to allow the user to logout with the current username account as well as close the connection of FTP.

For example: The picture below is to upload the latest NetAgent firmware file (c:\work\netagent\prjs\nag\2.32.DK520.bin) which is in this computer to the NetAgent UPS with IP address of 192.168.50.179

```

C:\WINDOWS\System32\Ftp.exe
Connected to 192.168.50.179.
220 Service ready for new user
User (192.168.50.179:(none)): admin
331 need password
Password:
230 OK
ftp> ls
200 Port command successful.
150 Opening ASCII mode data connection for file list.
2.32.DK520.bin
226 Transfer complete.
ftp>
ftp> put c:\work\netagent\prjcs\nag\2.32.DK520.bin
200 Port command successful.
150 Opening data connection for 2.32.DK520.bin
226 File received OK.
ftp>
ftp> quit
good bye version now type OK

```

3. Use IE browser to update (suitable for BK,CK,DK,BP,CP,DP version)

This method is to enter the account, password and IP address of the NetAgent UPS which the user wish to update under the website column. Once entered, user may see the current firmware version, and then please copy the latest firmware to here to complete the updating process.

Two method of entering:

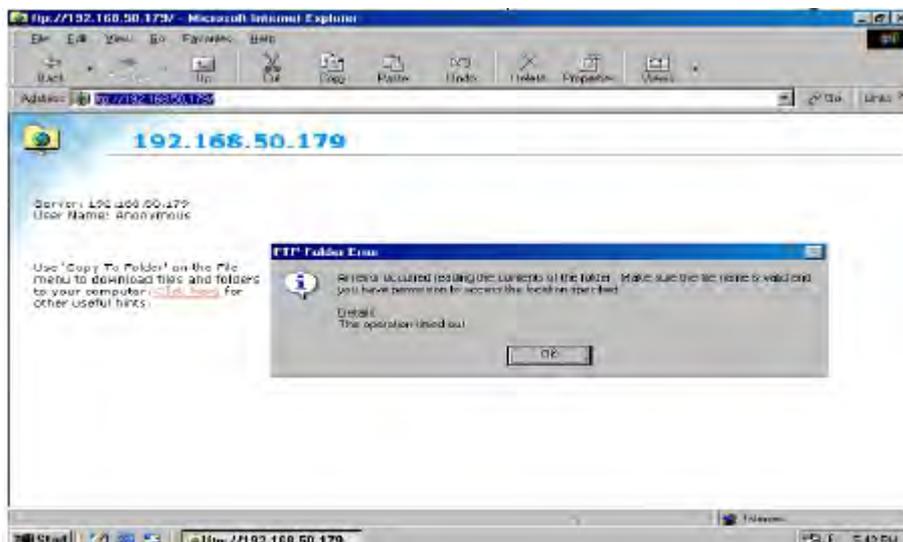
- (1) <ftp://admin:password@192.168.50.179>

Again, the password here is the one been set at Netility, if did not set anything before, then enter NetAgent’s default value as:

Account: admin

Neglect password (<ftp://admin:@192.168.50.179>)

- (2) <ftp://192.168.50.179/> , when using this method to enter, the follow error message will be show. At this moment, select “**Enter Identity**” at the top left corner of file menu. Then enter admin as account name and password to re-enter again.



Once the connection been established, the following window will be display. Then the user may transfer the latest firmware to here for the replacement in order to complete the updating steps.

