

# **NetAgent**

UPS SNMP Agent

User's Manual

## **User Guide for the NetAgent**

Version 3.10.1

Firmware version 2.31

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### **Technical Support and Contact Information**

Mega System Technologies, Inc.

Tel: +886-2-87922060

Fax: +886-2-87922066

Web: [www.megatec.com.tw](http://www.megatec.com.tw)

E-mail: [service@megatec.com.tw](mailto:service@megatec.com.tw)

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# **Chapter1. Introduction**

## **Section1. Features**

NetAgent is a new generation SNMP (Simple Network Management Protocol) monitoring product. Not only could remote control the UPS and get the current status of it, the NetAgent II –3Ports also could provide other functions, ex. connect to Modem could make the monitoring possible when there is no permanent connection to Internet. The NetAgent II – 3Ports could also been used to connect to 'NetFeeler Lite', to get the temperature, humidity and water conditions. To get the condition of Smoke detector, Gas detector, door and window detector will also be possible.

This product is for "Contact Closure" and "RS232" interface UPS. The communication protocol includes the MegaTec.PPC.SEC 2400 / 9600. And user could also provide their own protocol to build in. 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:

- ❶ Provide SNMP MIB to monitor & control UPS
- ❷ Auto-sense 10M/100M Fast Ethernet
- ❸ Manage and configure via Telnet, Web Browser or NMS
- ❹ Support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP Protocol
- ❺ Providing easy setup and upgrade tools via MS-Windows, just a few seconds to finish IP setting, about 1.5 minutes to upgrade firmware.
- ❻ Sending both of SNMP TRAP and E-mail for events notification.
- ❼ Auto email daily UPS history report
- ❽ Matches with shutdown software to protect computer's file saving and shut down safely
- ❾ NetAgent II – 3Ports : Environment Measurement (Optional Kits), External modem dial in/out via PPP protocol.

## **Section2. Applications**

### **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.

### **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.

### **NetAgent II for Surrounding Monitoring**

3Port NetAgent II could be used to connect the surrounding monitoring utility, NetFeeler Lite, to get the temperature/humidity/smoke/fire signals. These informations could also be revealed on the NetAgent Web page. When there is an abnormal condition happened, it could also be sent as a trap to the system manager.

### **When we need the NetAgent?**

- ❶ When we need to remote monitoring and controls the UPS conditions. For example, the system manager could use the Internet to control all the UPS conditions all over the country. When the shutdown utility is installed, the shutdown utility could close all the files and shutdown the system when a power abnormal condition happened.
- ❷ When we need to monitor surrounding conditions of the machine room, warehouse, office, ...etc. For example, the system manager could know the temperature, humidity, smoke and water condition by using the NetAgent II-3Ports version and NetFeeler Lite. The system manager could always know these surrounding conditions by using a Web browser.

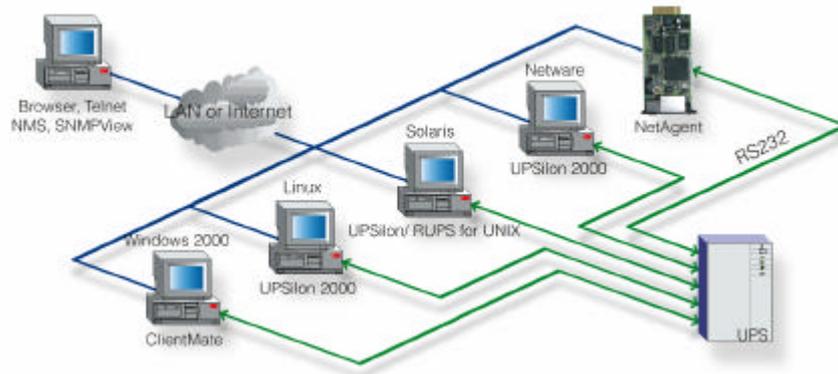


Fig.1. NetAgent connection Software

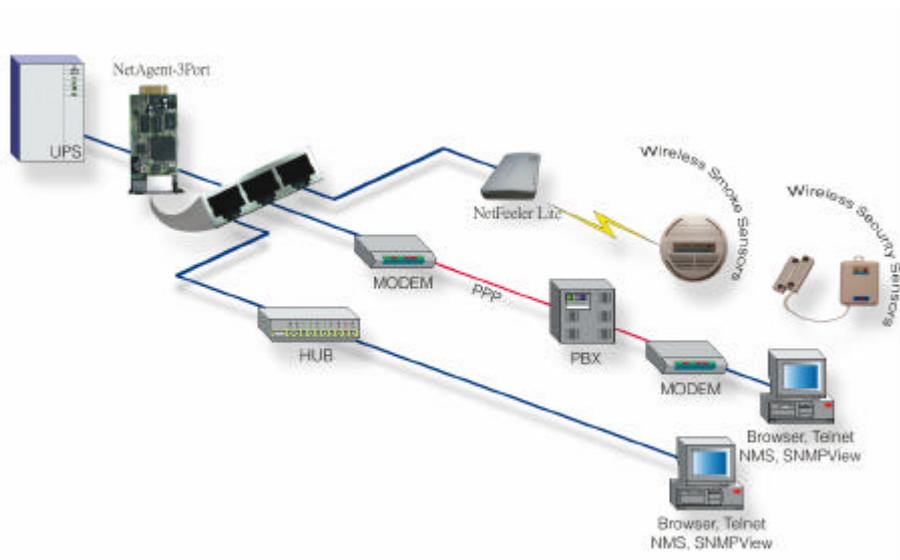


Fig.2. 3 Port NetAgent II Diagram

### Section3. NetAgent Models

#### NetAgent Models

NetAgent II Model				
P/N	Package Contents	Internal/External	1/3 Port	1/3 phase
503	1.1 Port External Agent 2.NetAgent Utility CD 3.M2501 Cable 4.M2502 Cable (or M2505 Cable) 5.9V DC adapter	External	1 Port	1 phase
504	1.1 Port Internal 2.NetAgent Utility CD	Internal		
505	1.3 Port External Agent 2.NetAgent Utility CD 3.M2501 Cable 4.M2502 Cable(or M2505 Cable) 5.M2506 Cable 6. 9V DC adapter	External	3 Port	3 phase
506	1.3 Port Internal 2.NetAgent Utility CD 3.M2506 Cable	Internal		
513	1.3 Port External Agent 2.NetAgent Utility CD 3.M2501 Cable 4.M2502 Cable(or M2505 Cable) 5.M2506 Cable 6.9V DC adapter	External	3 Port	1 phase
514	1.3 Port Internal 2.NetAgent Utility CD 3.M2506 Cable	Internal		

NetAgent Mini Model				
P/N	Package Contents	Internal/External	1/3 Port	1/3 phase
DK521	1. External NetAgent Mini 2.NetAgent Utility CD 3.6V DC adapter	External	1 Port	3 phase
DK520	1.Internal NetAgent Mini 2.NetAgent Utility CD	Internal		3 phase

Fig.3. NetAgent Models

## Pictures of NetAgent

NetAgent II (PK,BN,BK,CN,CK Serise)		
PK504		
PK506 PK514		
BN506 BN514 BK514		
CN504 CK504		
PK503 CN503 CK503		
PK505 PK513		
BN505 BN513 BK513		

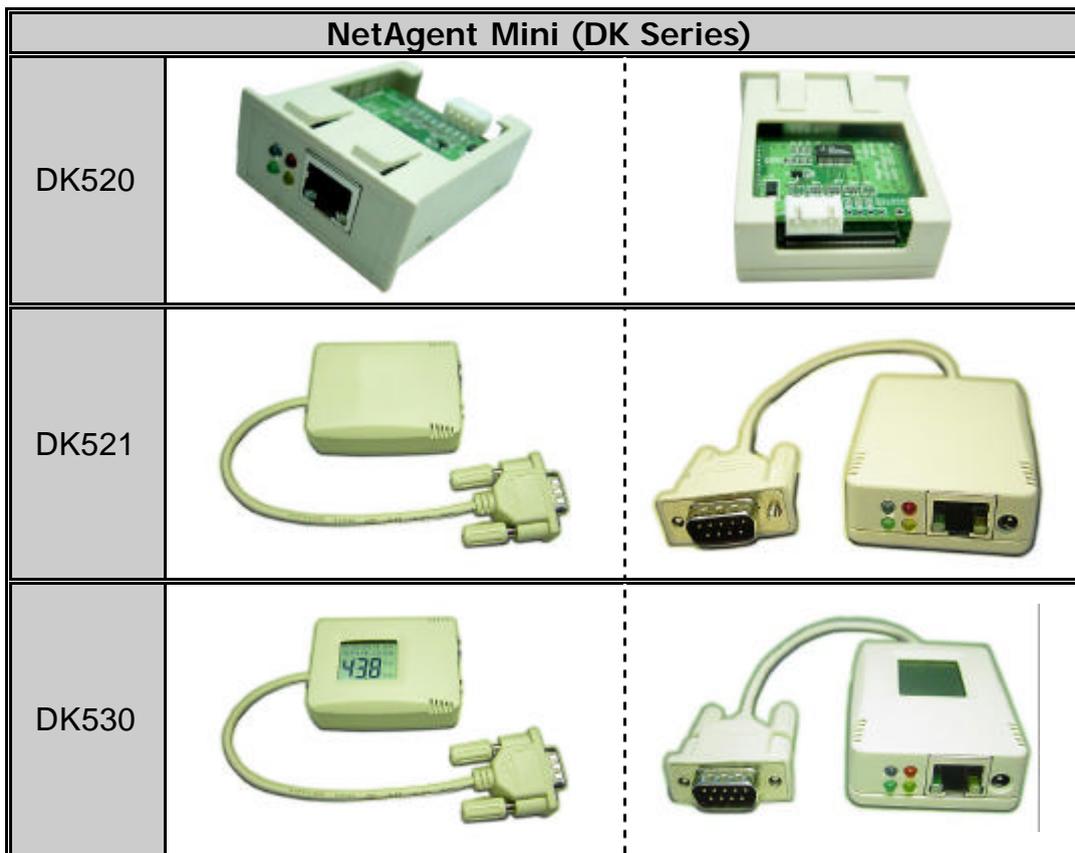


Fig.4. Pictures of NetAgent

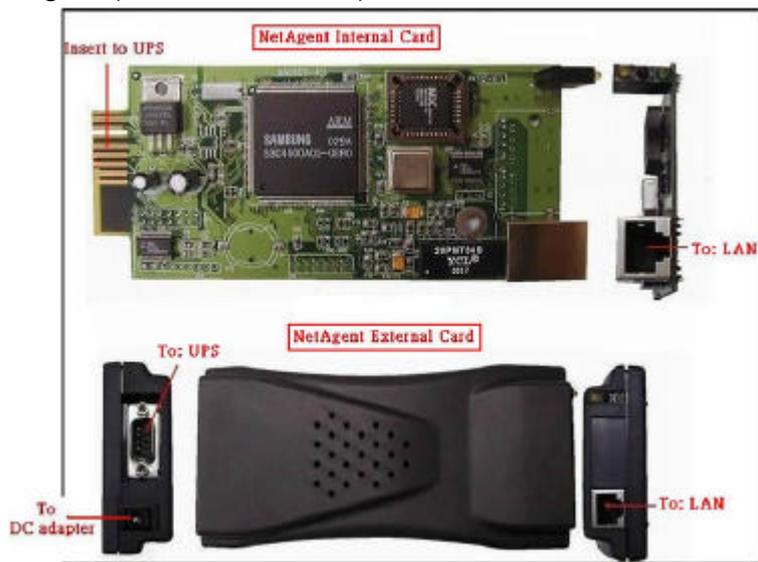
### NetAgent Package Contents

Netagent has three models: “Internal/External”; “1 phase/3 phase”; and “1 port/3 port”. The different model has different equipment items.

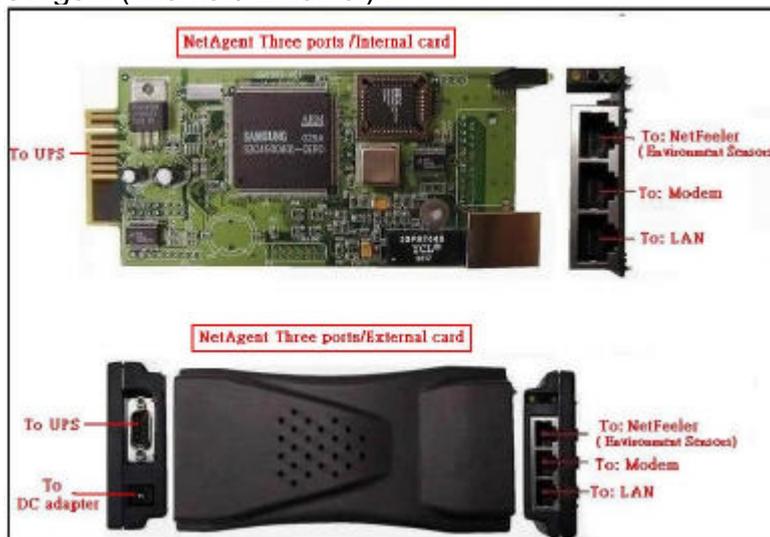
- ❶ NetAgent Utility CD, including:
  - ◆ Netility:Configure NetAgent UPS IP address, update firmware
  - ◆ ClientMate:Windows shutdown utility.
  - ◆ SNMPView:Windows platform multiple NetAgent UPS management software.
  - ◆ UPS MIB:MIB file for the Network Management System
  - ◆ Time Server:Time adjustment utility
  - ◆ And NetAgent installation/users manual
- ❷ M2501 Cable:For external NetAgent connection to contact closure UPS
- ❸ M2502 (or M2505) Cable:For external NetAgent connection to RS-232 UPS.
- ❹ M2506 Cable:For connection 3Port NetAgent and the “NetFeeler Lite”.
- ❺ 9V DC Adapter:For External NetAgent II
- ❻ 6V DC Adapter:For Enternal NetAgent Mini

## NetAgent II Out looking

- ◆ 1 Port NetAgent (Internal / External):



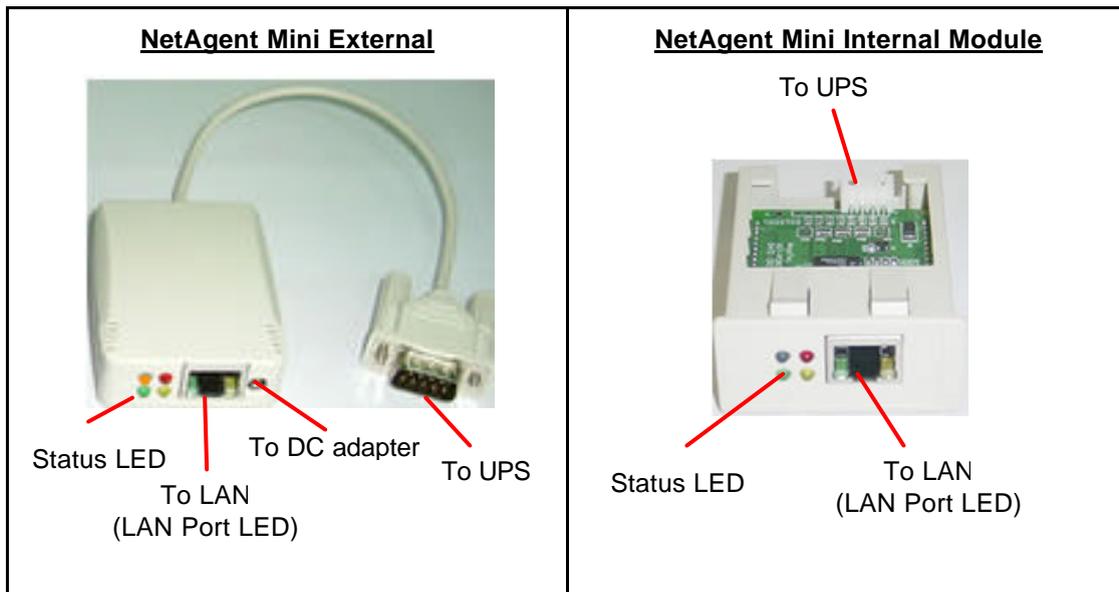
- ◆ 3 Port NetAgent (Internal / External) :



LED Table			
Yellow	Red	Green	Status
Solid Off	Solid Off	Solid ON	Power ON
Flashing	Solid ON	Solid ON	System initial
Solid ON	Solid Off	Solid ON	Normal operation
Solid ON	Flashing	Solid ON	No connection to UPS
Flashing	Flashing	Solid ON	Writing data to flash memory
Green light : Power state			
Red light : Connection state with UPS			

Fig.5. NetAgent II Out looking

## NetAgent Mini Out looking



Light signal application of NetAgent Mini - 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 Mini - 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.6. NetAgent Mini Out looking

## 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.

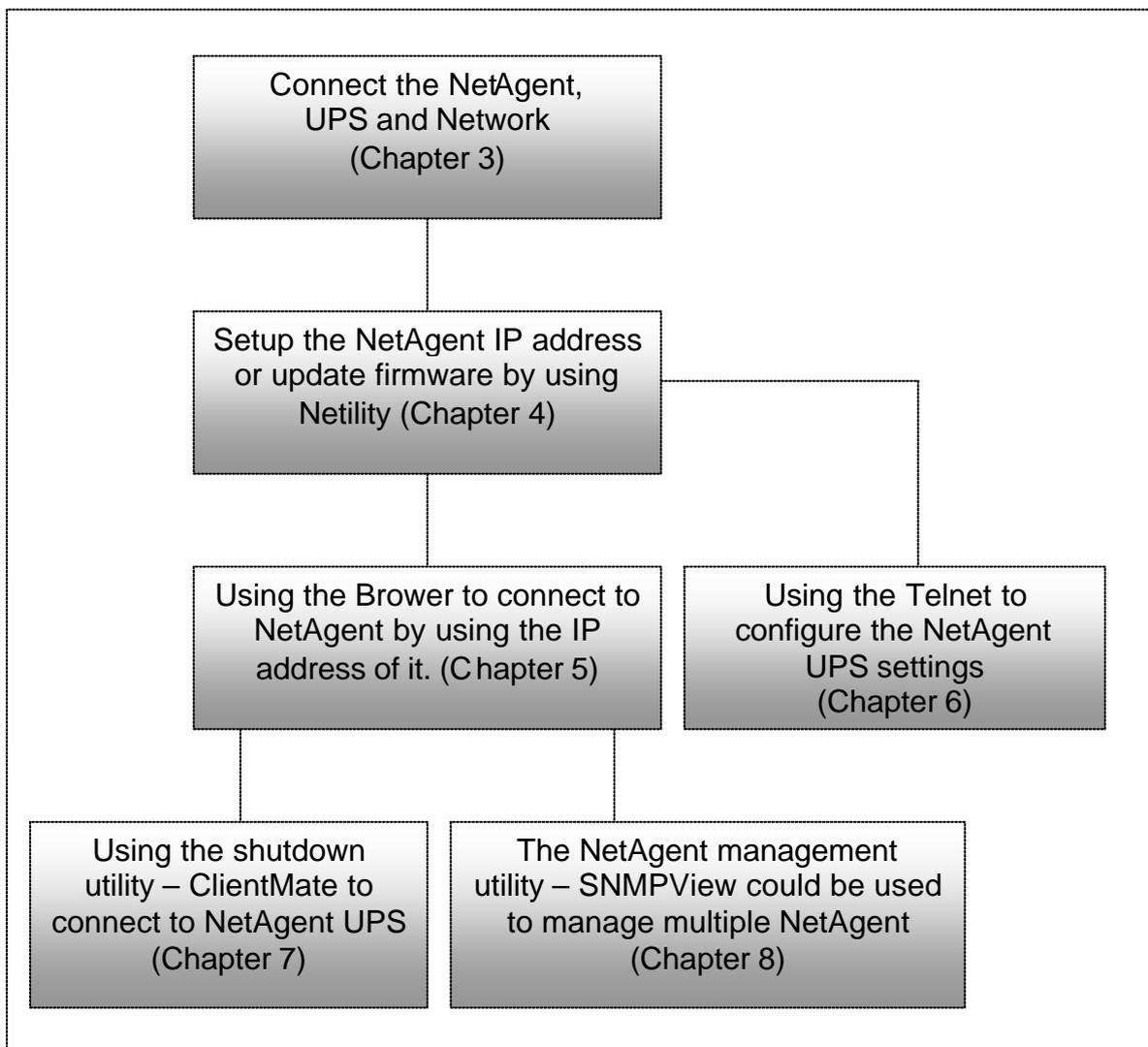


Fig.7. NetAgent UPS installation flowchart

## Chapter 3. NetAgent, UPS and Network Connection

NetAgent II and NetAgent Mini provides External and Internal model for different UPS interface requirement. Please reference the following description for detailed information of UPS and network connection.

### Section1. Install the NetAgent II with UPS and Network

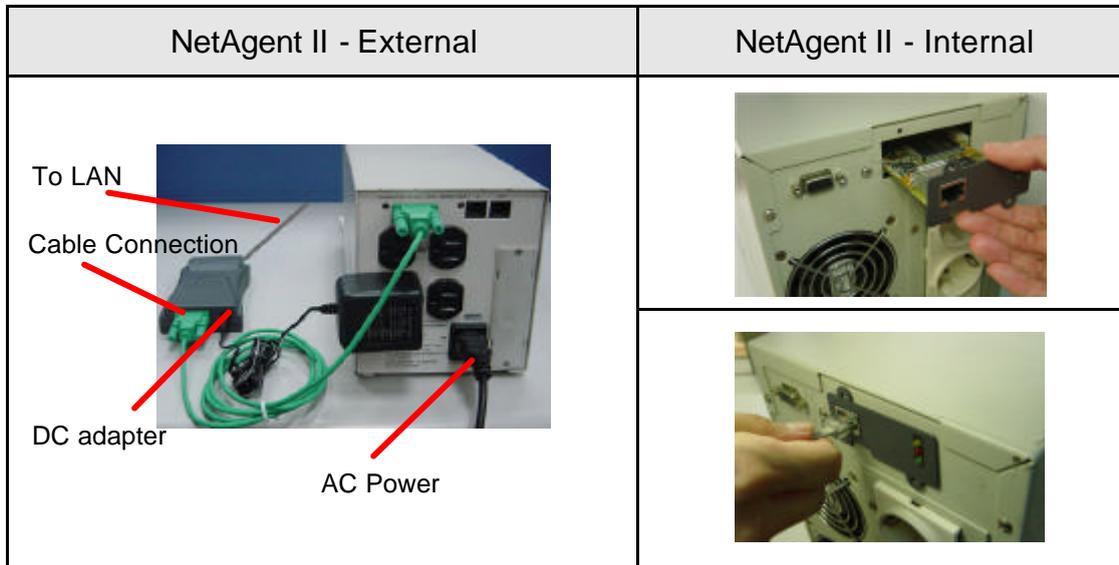


Fig.8. NetAgent II Installation

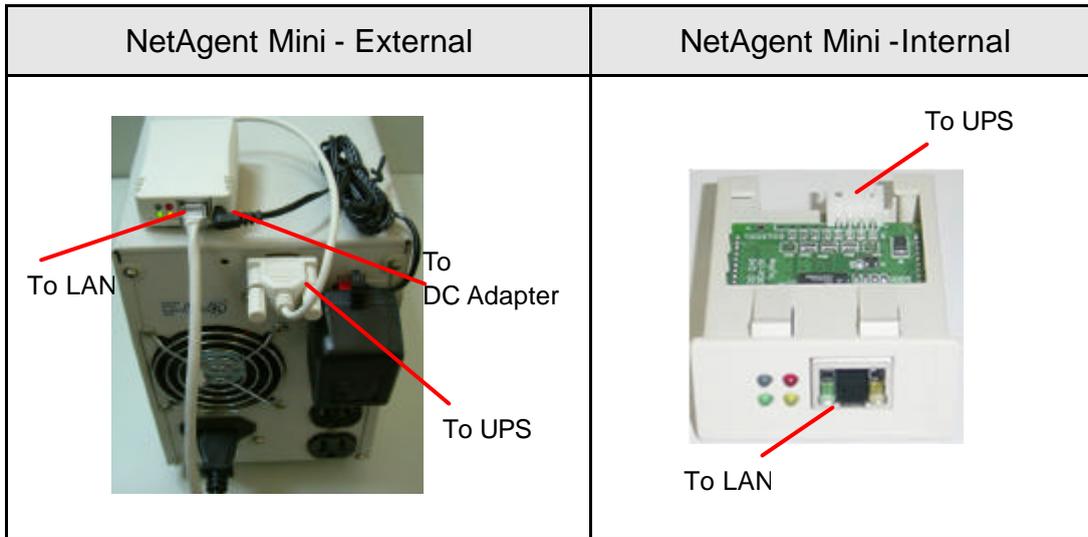
#### For External NetAgent II

- 1 Connect the NetAgent II Adapter to LAN, using the appropriate UTP port.
- 2 Connect the specified serial cable (M2501/M2502/M2505) from NetAgent II Adapter to the serial port of UPS.
- 3 Plug supplied AC adapter to the wall socket, the other side connection with NetAgent Adapter.

#### For Internal NetAgent II

- 1 Insert the Net Agent Card into the slot of UPS.
- 2 Connect the Net Agent Card to LAN, using the appropriate UTP port.

## Section2. Install the NetAgent Mini with UPS and Network



### For External NetAgent Mini

- ❶ Connect the NetAgent Mini to LAN, using the UTP port.
- ❷ Connect the cable from NetAgent Mini to the serial port of UPS.
- ❸ Plug the DC adapter to UPS outlet, the DC plug connected with NetAgent Mini.

### For Internal NetAgent Mini

- ❶ Please make sure the connector direction of the cable is correct before connecting to the NetAgent.
- ❷ Connect the NetAgent module to LAN, using the UTP port.

**Warning:** Please make sure the input Voltage and Frequency of the DC power adapter (NetAgent II – DC 9V / NetAgent Mini – DC 6V) is correct before plug the power into!

## 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.9. 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, left table is to show you all of NetAgent be searched in LAN; right side is function selection menu.



Fig.10. Netility Main Window

## ① NetWork Selection

After execute Netility, Netility would search computer's internet card automatically, or, click on Network Selection from the main page. The screen would show the internet card that has been searched. Now, click on the internet card that connects with internet, then return to the main page. Automatically, Netility would shows the NetAgent UPS Lan that was been seeked.

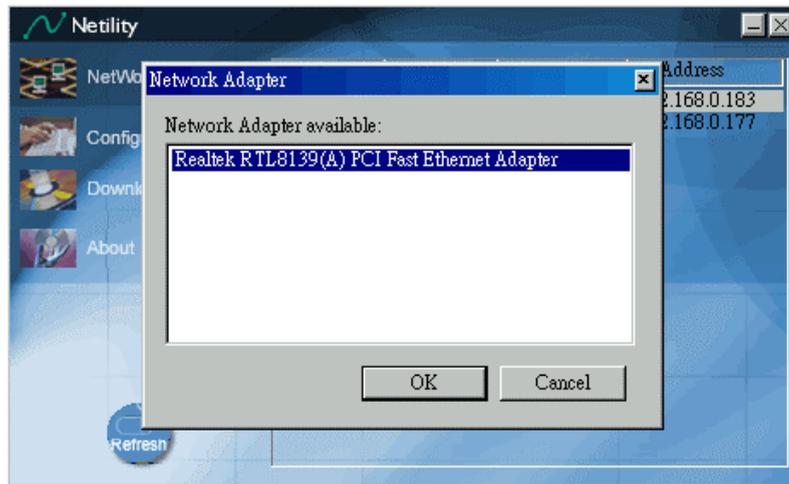


Fig.11. Netility: NetWork Selection

## ② Configure

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.

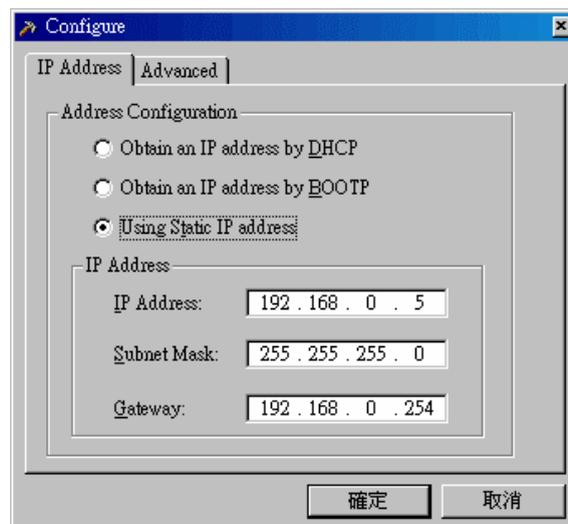


Fig.12. Netility : Set IP address for NetAgent UPS

## 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.

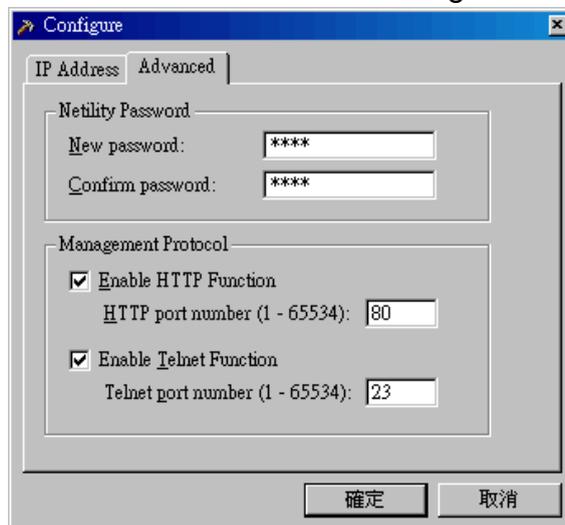


Fig.13. Netility : Advanced setting of Netagent UPS

## ④ Download Firmware

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. (Please connect to the <http://www.megatec.com.tw/CustomerService/Download/CSDownload.htm>) for the latest firmware)

Note:Net Agent provided well-considerable protection function. If uploading was interrupted and raised data in incomplete, Net Agent will keep its default to avoid of complete data loss. In the case, just repeat “firmware upload” as well.

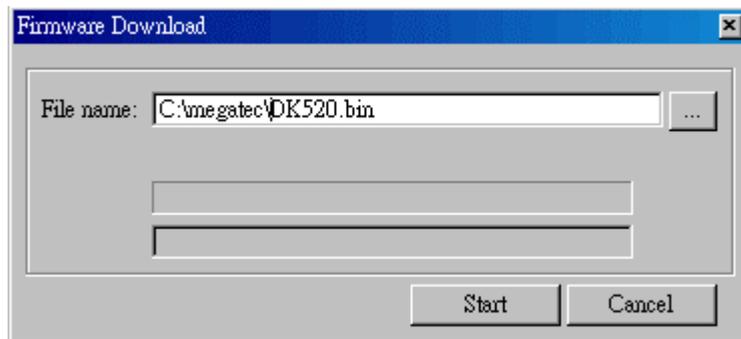


Fig.14. Netility : Update NetAgent UPS firmware

#### ④ About - Netility version examined



Fig.15. Netility version examined

#### ⑤ Search NetAgent - 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”.



Fig.16. Netility:Netagent UPS search manually

## Chapter 5. UPS Web management by NetAgent

### Section1. 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.

- 1 Starting the Web Browser (Netscape or Internet Explorer)
- 2 Enter the NetAgent IP Address (Which is setting on Netility, e.g. 211.21.67.51).



Fig.17. Input NetAgent UPS IP address

- 3 On the first screen, enter the current password. If no password has been set, just press [ENTER].



Fig.18. 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:

- 1 Information
- 2 Configuration
- 3 Log Information
- 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.

## Information

### Sub-Menu :

- System Status
- Basic Information
- Current Status
- Remote Control
- Meter/Chart
- Environment Sensors-NetFeeler Lite

Note: The options available on this menu depend on the UPS mode. (e.g. For the Basic UPS, the "Current Status" & "Meter" will not available.)

### 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	HDK520	UPS Last Self Test	--
Firmware Version	2.31_DK520	UPS Next Self Test	--
Serial Number	3925889714	UPS Critical Loading	80 %
System Name	UPS Agent	UPS Critical Temperature	70.0 C
System Contact	Administrator	UPS Critical Capacity	10 %
Location	My Office		
System Time	09/03/2003 09:27:07		
Uptime	06:02:38		

Warning will be initiated 10 minute(s) before Schedule Shutdown Event  
Send Email for Daily Report

Network Status			
MAC Address	00:03:EA:00:52:B2	Primary DNS Server	192.168.0.1
Connection Type	Auto Sense	Secondary DNS Server	
IP Address	211.21.67.51	Primary Time Server	128.118.46.3
Subnet Mask	255.255.255.0	Secondary Time Server	128.250.36.2
Gateway	211.21.67.49		
Email Server			

Fig.19. System Status

- **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**

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

- **Battery Information**

- Values here are user settings from the Configuration pages.

- **Rating Information**

- Values here are user settings from the Configuration pages.

UPS Information	
UPS Manufacturer	ON-LINE
UPS Firmware Version	H05E9A5
UPS Model	500VA

Battery Information	
Last Battery Replaced Date	2003/01/01
Number of Battery	2
Battery Charge Voltage	2.267V

Rating Information	
Voltage Rating	120.0V
Frequency Rating	50.0Hz
Battery Voltage Rating	24.0V

Fig.20. Basic Information

- **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**

- 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.

Refresh status every

<b>UPS Status</b>	UPS Normal
<b>Input Status</b>	
AC Status	Normal
Input Line Voltage	115.0 V
Input Max. Line Voltage	115.0 V
Input Min. Line Voltage	112.0 V
Input Frequency	59.9 Hz
<b>Output Status</b>	
Output Voltage	117.0 V
Output Status	On line
UPS loading	0 %
<b>Battery Status</b>	
Temperature	27.0C (80.6F)
Battery Status	Battery Normal
Battery Capacity	100 %
Battery Voltage	28.44 V
Time on Battery	00:00:00

Fig.21. Current Status

• **Remote Control**

This page is to provide remote UPS test functions. Choose the test item, then click on 'Apply' to execute it. (Please refer to the UPS manual for individual UPS Test functions.)

If you are using a Contact Closure UPS, you will only be able to use the function ' Turn off UPS when AC Failed'.

**Cancel Test**

This function is to abort a test when it is executing.

**Turn off UPS when AC failed/Reboot UPS**

Selecting ' Turn off UPS when AC failed' will turn off the UPS. You can reboot the UPS by selecting ' Reboot UPS'.

**Put UPS in Sleep mode for \_\_ minutes/Wake up UPS**

When the UPS is put into Sleep mode, it will not provide power. The UPS will provide power again after Sleep mode time is complete.

<b>UPS Testing</b>	
<input checked="" type="radio"/>	10-Second Test
<input type="radio"/>	Deep Battery Test until for <input type="text" value="10"/> minute(s)
<input type="radio"/>	Test Until Battery Low
<b>Miscellaneous</b>	
<input type="radio"/>	Cancel Test
<input type="radio"/>	Turn off UPS when AC Failed
<input type="radio"/>	Put UPS in Sleep mode for <input type="text" value="60"/> minute(s)
<input type="radio"/>	Wake up UPS
<input type="radio"/>	Reboot UPS
<input type="radio"/>	UPS Buzzer On/Off

Fig.22. Remote Control

- **Meter/Chart**

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

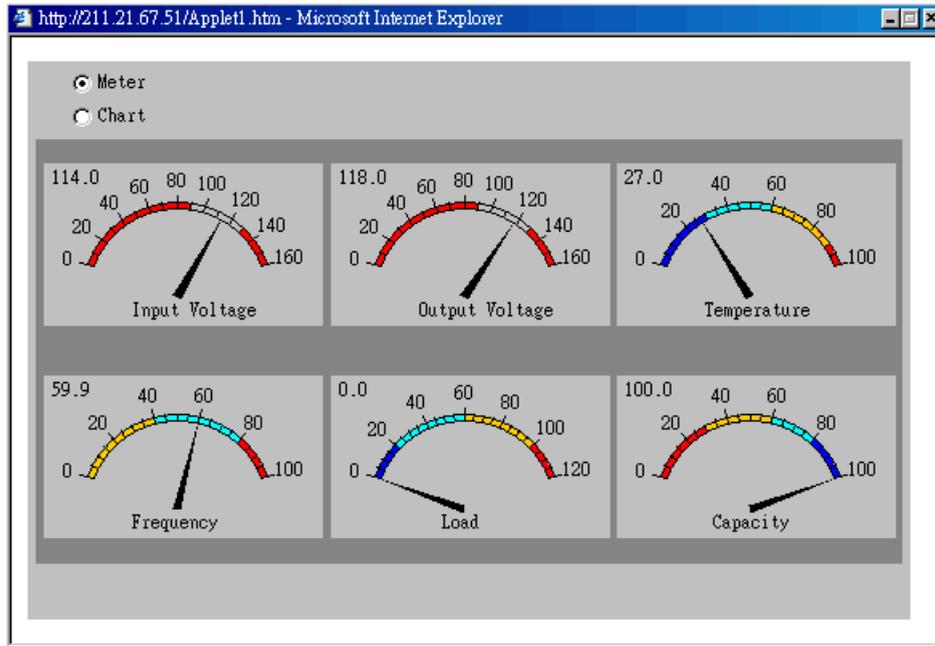


Fig.23. Meter/Chart

- **Environment Sensors-NetFeeler Lite**

A NetAgent with three ports can be connected to a NetFeeler Lite to detect the environment status. NetFeeler Lite can detect Temperature , Humidity and water(Water). It can receive signals from wireless smoke sensors, gas sensors and security sensors to detect further environmental conditions.

This page is to show details of the environment detected by NetFeeler Lite. Users can choose an interval from the drop-down box to refresh the status. All settings can be set in the Configuration/NetFeeler Lite page. The status will be displayed in red when NetFeeler Lite detects an abnormal status condition. In addition, NetFeeler Lite will also set off an alarm for notification.

**Environmental Temperature**

This section is to show current temperature which is detected by NetFeeler Lite.

**Environment Humidity**

This section is to show current humidity which is detected by NetFeeler Lite.(shown as%)

**Water Status**

This section is to show water presence (ie. flood)which is detected by NetFeeler Lite.

**Smoke Status**

This section is to show smoke presence (ie. fire) which is detected by smoke sensors.

**Security Status**

This section is to show open/close status for doors and windows. NetFeeler Lite can monitor up to 7 Security Sensors.

Refresh status every

NetFeeler Lite Status	
Environmental Temperature	29.0C (84.2F)
Environmental Humidity	43 %
Water Status	Normal
Gas Status	Normal
Smoke Status	Normal
Security1 Status	Normal
Security2 Status	Normal
Security3 Status	Normal
Security4 Status	Normal
Security5 Status	Normal
Security6 Status	Normal
Security7 Status	Normal

Fig.24. Environment Sensors - NetFeeler Lite

## ⊖ Configuration

### Sub-Menu :

- **UPS Configuration**
- **UPS On/Off Schedule**
- **Network**
- **SNMP**
- **Email**
- **WEB/Telnet**
- **System Time**
- **NetFeeler Lite**
- **Language**

Please set each parameter correctly, so that Netagent would operate properly.

Note: This page's selection would differ according to the different interface of the UPS.

### • **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**

This section is to set up the communication interface of the UPS. (eg. Contact Closure/RS232/3 phase etc.) Please refer to the UPS manual to set the correct communication type. Any wrong settings will cause disconnection between the UPS and NetAgent.

##### **UPS Rating Voltage(V)**

This section is to set the UPS Rating Voltage. (Unit: Volt) Please refer to the UPS manual.

##### **Number of Battery**

This is to set the UPS battery unit number. Please refer to the UPS manual.

##### **Battery Charge Voltage**

This section is to set the UPS battery Charge Voltage. (Unit: Volt) Please refer to the UPS manual.

##### **Last Battery Replaced Date ( mm/dd/yyyy)**

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**

**Test UPS for every**

This section is to schedule the UPS to test once a week or once every two weeks.

**Test UPS on Weekday**

This section is to set the UPS to test on a particular day of a week.

**Time of UPS Testing ( hh:mm)**

This section is to set the UPS to test at a certain time on the test day.

**Warning Threshold Value**

**Time Out when Connection Lost**

This is to set a certain period of time. When NetAgent loses contact with the UPS it will send a disconnection warning message after this certain period of time

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.

UPS Properties	
UPS Communication Type	RS232 [MegaTec] ▾
Number of Battery	2
Battery Charge Voltage (V)	2.267
Last Battery Replaced Date (mm/dd/yyyy)	2003/01/01
UPS Recorded	
UPS Data Log	1 minute ▾
Test UPS	
Test UPS for every	None ▾
Test UPS on Weekday	Monday ▾
Time of UPS Testing (hh:mm)	
Warning Threshold Value	
Time Out of Connection Lost	30 seconds ▾
Critical Loading (%)	80
Critical Temperature (C)	70.0
Critical Capacity (%)	10

Fig.25. UPS Configuration

• **UPS On/Off Schedule**

This page is to schedule On/Off time for the UPS.

**Weekly Schedule**

This section is to set the time to turn on/off the UPS each day in the week.

**Date Schedule**

This section is to set the time to turn on/off the UPS on particular days. (Eg, holidays.) The settings here override the settings in 'Weekly Schedule'.

**Warning will be initiated \_ before Schedule shutdown event**

NetAgent will send a warning message before a scheduled shutdown. This section sets the delay time period after the message is sent and before the scheduled shutdown is started.

Weekly Schedule			
	Turn On (hh:mm)		Turn Off (hh:mm)
Sunday	<input type="text"/>		<input type="text"/>
Monday	<input type="text"/>		<input type="text"/>
Tuesday	<input type="text"/>		<input type="text"/>
Wednesday	<input type="text"/>		<input type="text"/>
Thursday	<input type="text"/>		<input type="text"/>
Friday	<input type="text"/>		<input type="text"/>
Saturday	<input type="text"/>		<input type="text"/>

Date Schedule			
Date (mm/dd/yyyy)	Turn On (hh:mm)		Turn Off (hh:mm)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

Warning will be initiated  before Schedule Shutdown Event

Fig.26. UPS On/Off Schedule

• **Network**

This page is to set NetAgent Network settings.

**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.

IP Address	
IP Address	<input type="text" value="211.21.67.51"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="211.21.67.49"/>
Obtain an IP address*	<input type="button" value="By manual"/>
DNS Server IP	
Primary DNS Server IP	<input type="text" value="192.168.0.1"/>
Secondary DNS Server IP	<input type="text"/>
Ethernet	
Connection Type*	<input type="button" value="Auto Sense"/>

\* : NetAgent will be rebooted when these items had been modified.

Fig.27. Network

### • 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

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  $\{ \text{Manager IP address} \}$ .

#### 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 :

- Information: To receive all traps.
- Warning: To receive only “warning” and “severe” traps.
- Severe: To receive only “severe” traps.  
( Please refer to NMS manual for Trap levels.)

### **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.

<b>MIB System</b>					
System Name		System Contact		System Location	
<input type="text" value="UPS Agent"/>		<input type="text" value="Administrator"/>		<input type="text" value="My Office"/>	

<b>Access Control</b>			
Manager IP Address	Community	Permission	Description
<input type="text" value="****"/>	<input type="text" value="public"/>	<input type="text" value="Read/Write"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="No Access"/>	<input type="text"/>

<b>Trap Notification</b>					
Receiver IP Address	Community	Severity	Accept	Description	Events
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>
<input type="text"/>	<input type="text" value="public"/>	<input type="text" value="Information"/>	<input type="text" value="No"/>	<input type="text"/>	<input type="button" value="Select"/>

<b>Device Connected</b>		
Device	Rating (%)	Connected
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="NO"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="NO"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="NO"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="NO"/>

Fig.28. SNMP

- **Email**

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

**Email Server**

This section is to set NetAgent Email Server .

**Sender's Email Address**

This section is to set NetAgent's Email address.

**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.

**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.ss)**

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

Email Setting			
Email Server	<input type="text"/>		
Sender's Email Address	<input type="text"/>		
Email Server Requires Authentication	NO <input type="button" value="v"/>		
Account Name	<input type="text"/>		
Password	<input type="text"/>		
Send Email When Event Occurs	NO <input type="button" value="v"/>		

Recipient's Email Address (for Event Log)			Events
Account1	<input type="text"/>		Select
Account2	<input type="text"/>		Select
Account3	<input type="text"/>		Select
Account4	<input type="text"/>		Select
Account5	<input type="text"/>		Select
Account6	<input type="text"/>		Select
Account7	<input type="text"/>		Select
Account8	<input type="text"/>		Select

Recipient's Email Address (for Daily Report)			
Account1	<input type="text"/>		
Account2	<input type="text"/>		
Account3	<input type="text"/>		
Account4	<input type="text"/>		
Send Email for Daily Report (hh:mm:ss)	NO <input type="button" value="v"/>	at	<input type="text"/>

Fig.29. Email

- **WEB/Telnet**

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

**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 Account			
User Name	Password	Permission	IP Filter
afdafdasdfas	*****	Read/Write	*.*.*
guest	*****	Read	*.*.*
		Read/Write	*.*.*

Fig.30. WEB/Telnet

- **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.

**Time Between Automatic Updates**

This section is to set an interval for time synchronization.

**Primary Time Server / Secondary Time Server**

This section is to set a Primary Time Server and a Secondary Time Server for NetAgent.

**Time Zone (Relative to GMT)**

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

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

This section is to set NetAgent system time manually.

Set this in the format: mm/dd/yyyy hh:mm:ss

System Time	
Time Between Automatic Updates	1 Hour
Primary Time Server	128.118.46.3
Secondary Time Server	128.250.36.2
Time Zone (Relative to GMT)	GMT+8:00
<input type="button" value="Apply"/> <input type="button" value="Reset"/>	
System Time (mm/dd/yyyy hh:mm:ss)	08/26/2003 11:29:35
<input type="button" value="Apply"/> <input type="button" value="Reset"/> <input type="button" value="Help"/>	

Fig.31. System Time

• **NetFeeler Lite**

This page is to set Environment sensors-NetFeeler Lite configurations.

**Critical UnderRun**

This section is to set the lowest critical values for temperature and humidity. NetFeeler Lite will send a warning message when it detects temperature or humidity values below these settings.

**Critical OverRun**

This section is to set the highest critical values for temperature and humidity. NetFeeler Lite will send a warning message when it detects temperature or humidity values above these settings.

NetFeeler Lite		
	Critical UnderRun	Critical OverRun
Humidity (%)	<input type="text" value="5"/>	<input type="text" value="90"/>
Temperature (C)	<input type="text" value="5.0"/>	<input type="text" value="70.0"/>

Security Label	
Label 1	<input type="text" value="Security1 Status"/>
Label 2	<input type="text" value="Security2 Status"/>
Label 3	<input type="text" value="Security3 Status"/>
Label 4	<input type="text" value="Security4 Status"/>
Label 5	<input type="text" value="Security5 Status"/>
Label 6	<input type="text" value="Security6 Status"/>
Label 7	<input type="text" value="Security7 Status"/>

Fig.32. NetFeeler Lite

• **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**

This section is to set the language for Email sent by NetAgent.

Interface Language
<input type="radio"/> English <input checked="" type="radio"/> Chinese (Traditional) <input type="radio"/> Chinese (Simplified) <input type="radio"/> Korean
(Note: Setting preferences will not work if you have disabled cookies in your browser.)
Email Preferences
Apply Interface Language to Email <input type="radio"/> Yes <input checked="" type="radio"/> No

Fig.33. Language

## ⊖ Log Information

### Sub-Menu :

- **Event Log**
- **Data Log**
- **Save Data Log**

Note: This page's selection would differ according to the different interface of the UPS.

### • **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. It can log up to 99 events. When this limit is reached NetAgent will delete the earliest event record and continue logging new events.

#### **Date/Time**

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

#### **Description**

This is a detailed description of the event.

Date/Time	Event
08/25/2003 20:37:01	Utility power has been restored.
08/25/2003 20:36:47	UPS has switch to battery backup power.
08/25/2003 20:36:44	Utility power has been restored.
08/25/2003 20:36:27	UPS has switch to battery backup power.

Fig.34. Event Log

### • **Data Log**

This page is a UPS data log. It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature. It can log up to 500 events. When this limit is reached NetAgent will delete the earliest event record and continue logging new events. Logs can be saved in CSV format by clicking on "Save Data Log".

#### **Date/Time**

This is a record of the Date (mm/dd/yyyy ) 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.)

#### **Loading**

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

#### **Capacity**

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

#### **Frequency**

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

#### **Temp.**

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

Date/Time	Input Volt.	Output Volt.	Freq. (Hz)	Loading	Capacity	Temp.
08/25/2003 20:32:49	115.0	117.0	60.0	0	100	26.0C 78.8F
08/25/2003 20:31:49	114.0	117.0	59.9	0	100	26.0C 78.8F
08/25/2003 20:30:47	114.0	117.0	60.0	0	100	26.0C 78.8F
08/25/2003 20:29:45	114.0	117.0	59.9	0	100	26.0C 78.8F
08/25/2003 20:28:43	114.0	118.0	60.0	0	100	26.0C 78.8F

Fig.35. Date Log

- **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.

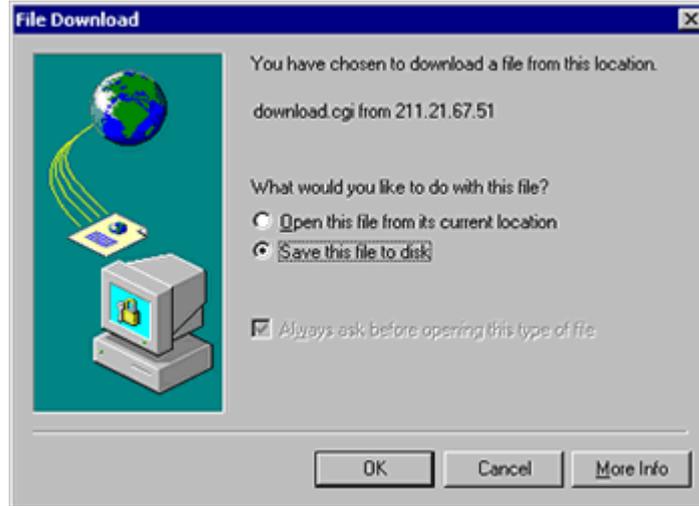


Fig.36. Save Data Log

- ④ **Help**

Sub-Menu :

- **Help**
- **About**

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

## 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

- 1 Select "Start" from Windows, click "Run" to key-in NetAgent IP Address

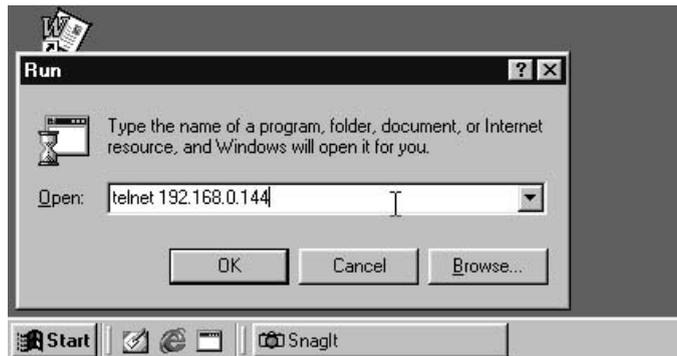


Fig.37. Telnet startup

- 2 Successful link-up display:



Fig.38. Telnet Connection

- 3 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.39. Telnet: Input User Name / Password

- 4 Main screen is as follows:



Fig.40. NetAgent Telnet window

◆ **Set IP Address.**

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

◆ **Set SNMP MIB System.**

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

◆ **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.

◆ **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.

◆ **Set UPS Properties.**

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

◆ **Set UPS Devices Connected.**

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

◆ **Set System Time & Time Server.**

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

◆ **Set Web and Telnet User Account.**

This is allows to set users account's authority.

◆ **Set E-mail.**

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

◆ **Reset Configuration to Default.**

Set all values to their default settings.

◆ **Save & Reboot.**

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

◆ **Exit Without Saving.**

Exit, all configuration changes will be lost.

## Chapter 7. ClientMate - Windows Shutdown Utility

ClientMate is a utility for connecting to the RUPS 2000, UPSilon 2000 and NetAgent. This utility is for the Windows platform. When the ClientMate get the power failure signal from the RUPS2000, UPSilon 2000, or 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

- 1 Put the NetAgent Utility CD into the CD driver. And execute the "ClientMate" program.
- 2 After complete installation, there will be a 'ClientMate' group in the Windows Start group.



Fig.41. ClientMate Group

- 3 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.

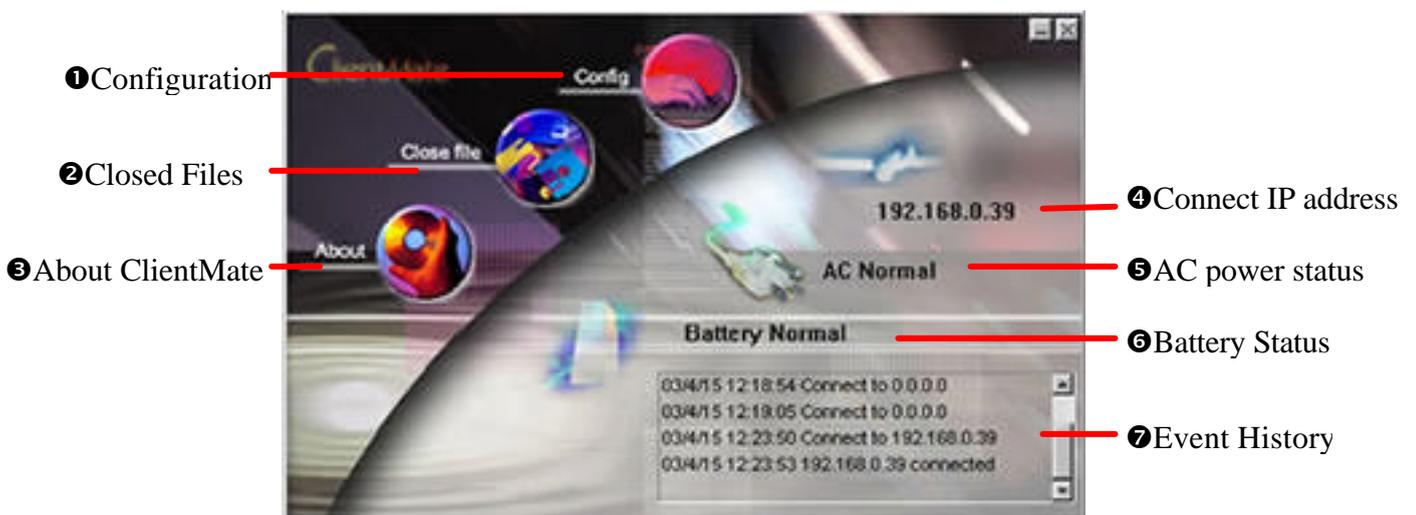


Fig.42. ClientMate main window

## ❶ 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.

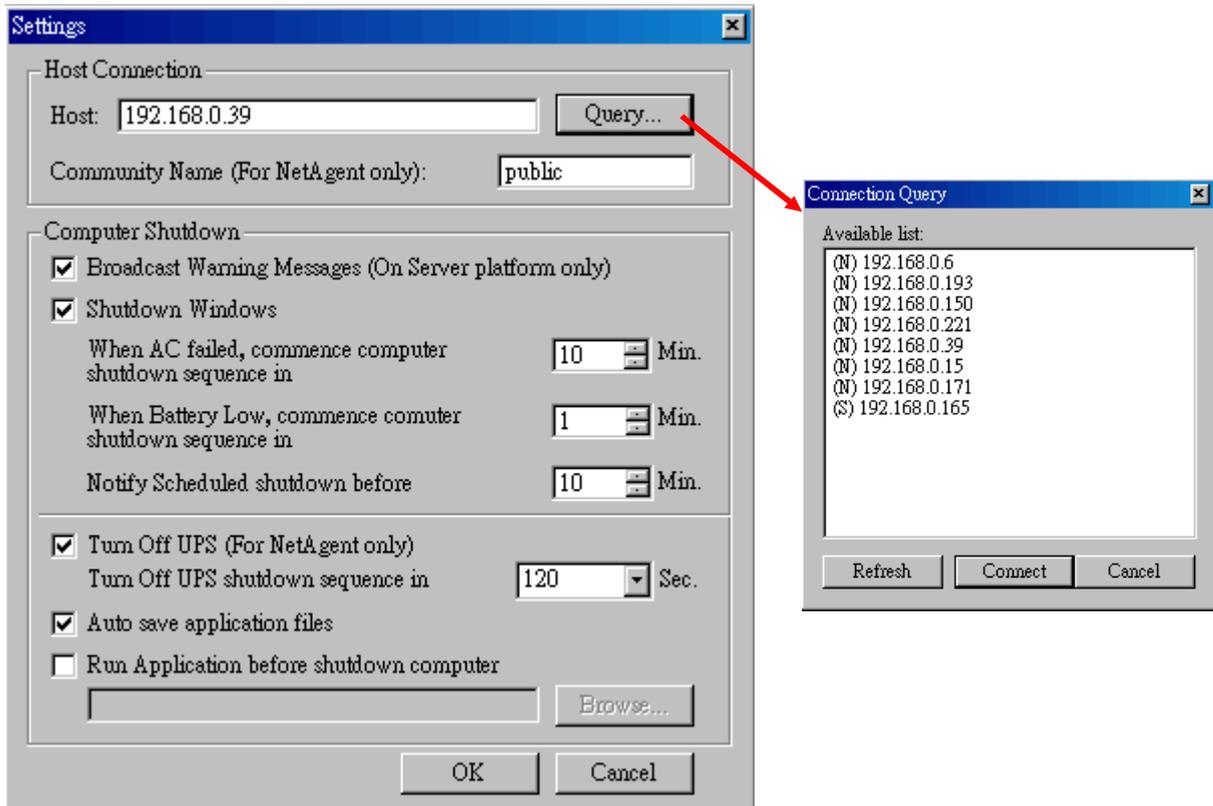


Fig.43. ClientMate: Configuration

### ◆ Host Connection

Configure the Host connection IP address.

### ◆ Host

Press the “Query” to search the host on the network automatically. If a 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 or RUPS2000 Host

### ◆ Community Name (For NetAgent only)

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

### ◆ Computer Shutdown

Setting the shutdown configurations.

### ◆ 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)

### ◆ Shutdown Windows

To configure if shutdown the Windows system when power failure.

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

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

- ◆ **When Battery Low, commence computer shutdown sequence in xx Min.**

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

- ◆ **Notify Scheduled shutdown before xx Min.**

Time before the 'Schedule Shutdown' to make notification.

- ◆ **Turn Off UPS (For NetAgent Only)**

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

- ◆ **Turn Off UPS shutdown sequence in xx Sec.**

Time delay of turn-off the UPS power.

- ◆ **Auto save application files**

Check if to save the application files before system shutdown.

- ◆ **Run Application before shutdown computer**

Execute the application before system shutdown.

### 🔍 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.

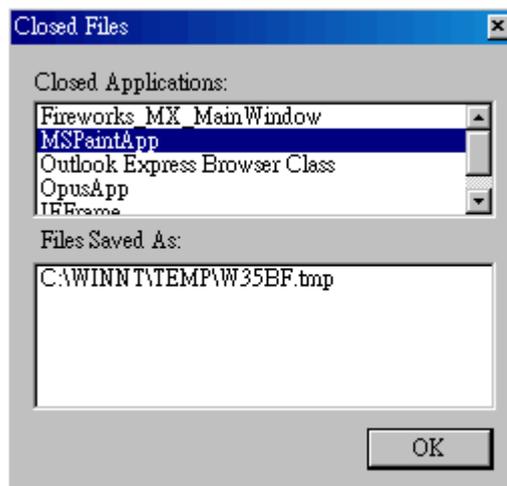


Fig.44. ClientMate: Closed Files

### 🔍 About

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

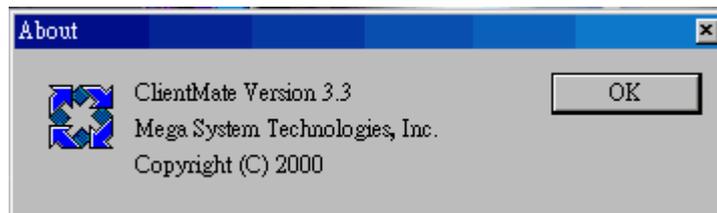


Fig.45. ClientMate:About

#### ④ IP address of connection

Status ICON	Description
	Already connect to NetAgent UPS at IP 211.21.67.51
	Does not connect to any NetAgent.

#### ⑤ AC power status

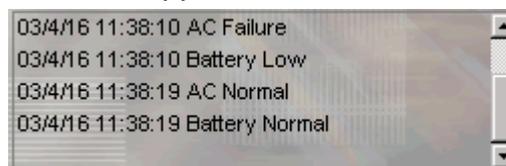
Status ICON	Description
	The connected NetAgent UPS AC power is normal.
	The connected NetAgent UPS AC power is failed.

#### ⑥ Battery Status

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

#### ⑦ 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 Software provides web-based monitoring and controlling of any UPS that is connected to the network. With the use of this software, the network managers can monitor and control UPS remotely on your own site. Besides, it is also available to send email and pager to inform user the current UPS condition, including the UPS configuration, UPS self-test, History File, Turn On/Off UPS...and other features.

- ❶ Windows interface that is simple and easy to generate
- ❷ Automatic detection and identification of network UPS
- ❸ Simultaneous monitoring of many UPS
- ❹ Remotely monitor, control, manage UPS like Turn Off/On, Self-test... etc.
- ❺ Can be used on both RS-232 Interface and Contact Closure Interface UPS simultaneously
- ❻ Graphical and Analog display of UPS Condition
- ❼ Supports MegaTec's SNMP Agent and SNMP Internal Card

### Section2. System Requirements

- ❶ LAN/WAN network system with TCP/IP
- ❷ RS-232 Interface or Contact Closure Interface UPS
- ❸ External SNMP Agent or SNMP Internal Card
- ❹ Microsoft Windows 95, 98, NT, 2000, XP, Me

### Section3. Install SNMPView

- ❶ Put the NetAgent Utility CD into the CD driver. And execute the SNMPView program.
- ❷ After complete installation, there will be a 'SNMPView' group in the Windows Start group.

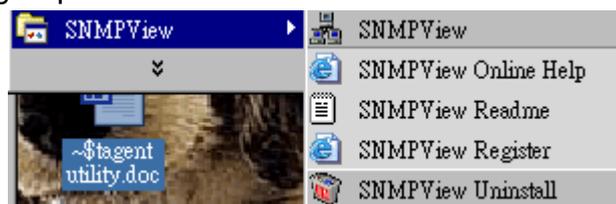


Fig.46. SNMPView program group

- ❸ Click "SNMPView" to initiate the SNMPView and start using the SNMPView.

## Section4. Using SNMPView

Please find the main windows of the SNMPView below. The main window in the SNMPView showing all the UPS find on the network. And the buttons below are for individual functions.

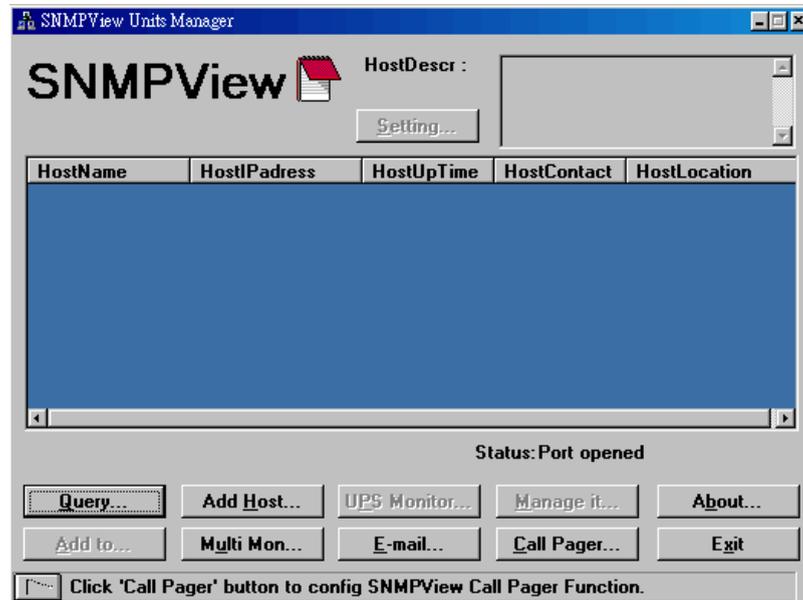


Fig.47. SNMPView main window

### SNMPView buttons

- ◆ Query: Search all SNMP hosts that supports Public group and display them on the screen.
- ◆ Add Host(/Del Host): Manually add or delete a host into the window
- ◆ UPS Monitor: If the host is a UPS, just click on it to start monitoring UPS.
- ◆ Setting: If the host is a UPS, just click on it to view and modify the UPS's basic information.
- ◆ Manage it: If the host is a UPS, just click on it to start monitoring UPS.
- ◆ Add to: Attach the selected UPS into the simultaneous UPS monitoring.
- ◆ Multi Mon: Simultaneous monitoring of many UPS.
- ◆ E-mail : Configure sending email function.
- ◆ Call Pager: Configure sending call pager function.
- ◆ RED Notebook: View SNMPView History Records
- ◆ About: View About SNMPView product.
- ◆ Exit: Exit SNMPView.

### ❶ Query

Enter SNMPView and press the "Query", SNMPView will start to search all the NetAgent on network and listed in the main window.

## ② Add Host (/Del Host)

### • Add Host

- ◆ Automatic Addition: Click “ID Request”, then SNMPView will automatically search SNMP Hosts on the network. (Diagram below)

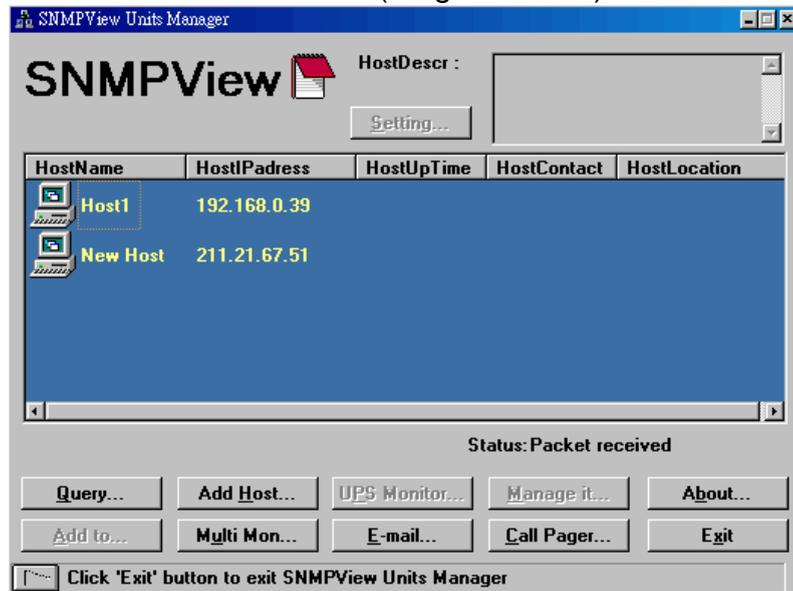
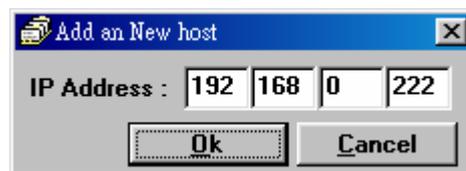


Fig.48. SNMPView: Query

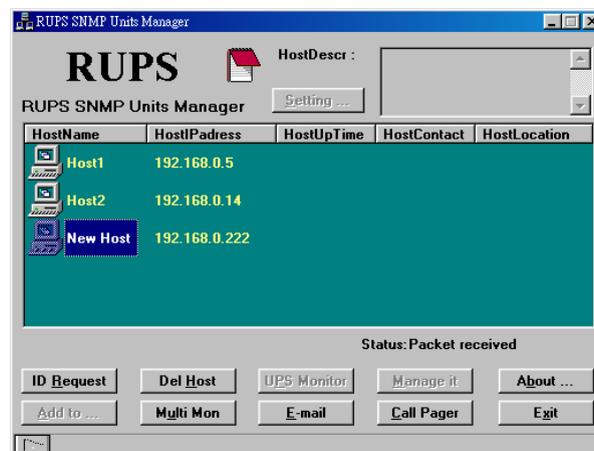
- ◆ Manually Add: Click “Add Host” and enter the IP address of the host to be included (as shown below).



ATTENTION: Utilized the Request ID, the old Host Lists on the window will be deleted. (Using Add Host will not delete the previous lists)

### • Del Host

Click and choose the host to be got rid of, the “Add Host” button will become “Del Host”. Press “Del Host”, this will enable you to remove the selected Host.

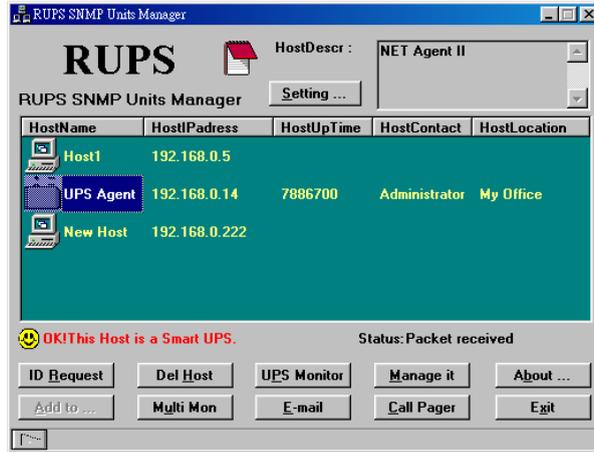


**ATTENTION: The Host Range does not support multiple selection.**

- **Start managing and monitoring selected UPS**

After Adding Host or requesting ID, Host will be named “Host+Index” or “New Host”. Click on the new Host to check and view information about this host. SNMPView detects whether the Host is a UPS and then displays the result in the bottom part of the Window.

To start managing and monitoring the UPS, use the Feature Icons below the main screen window.



### ③ UPS Monitor

Select a UPS Host on the lists of main screen. Click “UPS Monitor” or double click on the Host. This will enable user to monitor the current condition of the UPS.

SNMPView also supports RS-232 communication interface and dry contact interface UPS. The icons below indicates the different types of UPS:



Dry Contact Interface UPS



RS-232 Interface UPS

- **UPS condition display of dry contact interface UPS**

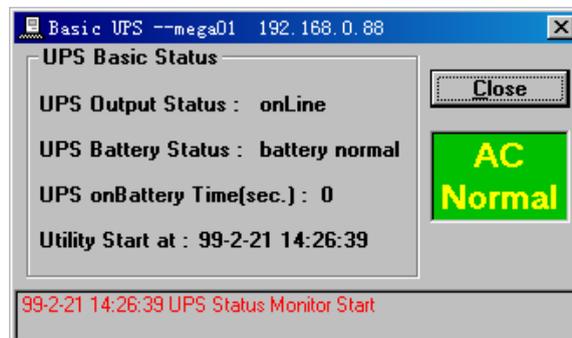


Fig.49. SNMPView: Contact Closure UPS status

- ◆ UPS Output Status:UPS output status
- ◆ UPS Battery Status:UPS battery status
- ◆ UPS onBattery Time(sec.):UPS on battery time
- **UPS condition display of RS-232 interface UPS**



Fig.50. SNMPView: RS232 UPS status

- ◆ Input: Show the voltage input from AC power.
- ◆ Output: Show the voltage output from UPS.
- ◆ Load: Show the loading of UPS. Display on meter.
- ◆ Freq.: Frequency of AC power.
- ◆ Temp.: Temperature in UPS.
- ◆ AC Normal: Current AC status.
- ◆ OnLine: Current UPS's Output status.
- ◆ battery normal: Current UPS battery status.
- ◆ Close: Close and exit monitoring window
- ◆ Gray area on bottom: List all event logs since the monitoring starts.

#### ④ UPS Basic Message Settings

Select a UPS host on the Host list. Select "Setting..." to adjust the basic message settings window. (Diagram below)

The "Set MIB Value" dialog box has the following fields and buttons:

- UPSDescr :** A list box containing "NET Agent II".
- UPSContact :** A text box containing "Administrator".
- UPSName :** A text box containing "UPS Agent".
- UPSLocation :** A text box containing "My Office".
- Buttons:** "Ok" and "Cancel".

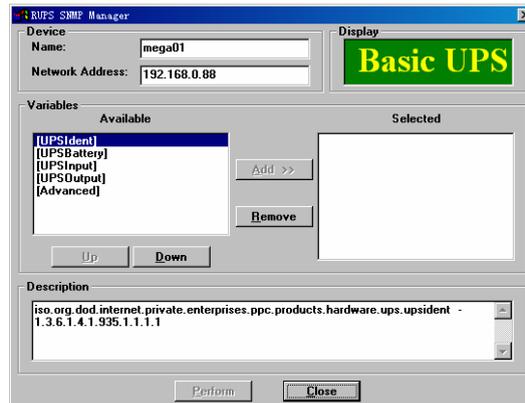
- ◆ UPSDescr: Description of this UPS
- ◆ UPSContact:Contact Person of this UPS

- ◆ UPSName:Name of this UPS
- ◆ UPSLocation:Location of the UPS
- ◆ Ok:Save UPS information and exit the settings window
- ◆ Cancel:Do not save UPS information and exit the settings window

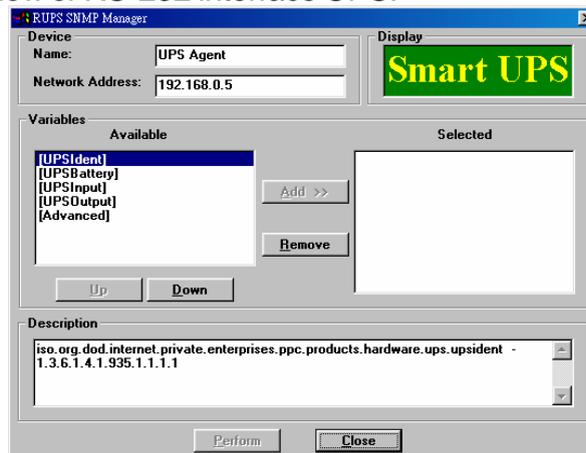
## ⑤ Manage it

After selecting the UPS host, select “Manage it”.

- ◆ Managing Window of dry contact interface UPS:



- ◆ Managing Window of RS-232 interface UPS:

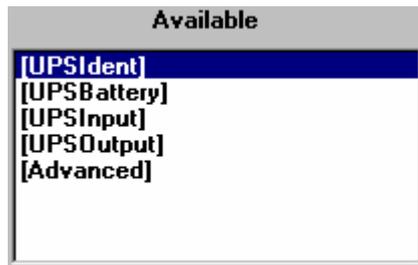


The function of each items are here below:

- Device Area: Displays name and location IP Address of the current managed UPS
- Display Area: Displays the UPS interface type of the managed UPS
  - Basic UPS :Dry contact interface UPS
  - Smart UPS :RS232 interface UPS
- Variables Area:
  - Down:Leads you to the next item
  - Up:Leads you back to the previous item
  - Add >>:Inserts the items in the “Available” list to the “Selected” list
  - Remove:Remove “Selected” items
- Description Area:
  - Perform:Execute the managing items in “Selected” list
  - Close:Exits the Managing Window

- **Detailed Management Contents**

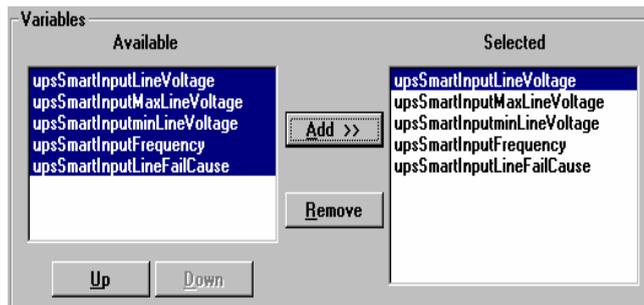
There are 5 items in the upper level of “Available”:



Features:

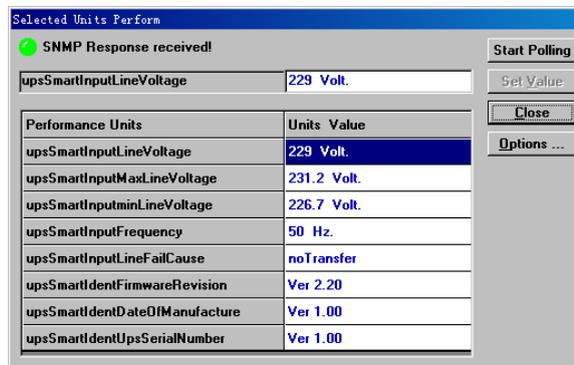
- [UPSIdent]: UPS identity group
- [UPSBattery]: UPS battery message group
- [UPSInput]: UPS input message group
- [UPSOutput]: UPS output message group
- [Advanced]: Advanced management group

If the “Down” icon is enabled in selecting an item in the “Available” list, there will be lower levels to be opened, and the “Add” icon will be disabled. Vice versa, the “Down” icon is disabled and the “Add” icon is enabled, meaning that it is the last level that can be opened. This will enable you to include all the managing items in the “Available” list into the “Selected” list. Diagram below:



When there is no any items in the “Selected” list, the “Perform” Button will be disabled and unfunctioned. After selecting the managing items, the “Perform” icon will then be enabled and functioned.

All the managed items selected will be displayed above. Choose the items you want to view and it will display the appropriate data. (Diagram above)



Item name and properties will be displayed on the top part of the window. If the field is write-possible, then the “Set value” will be enabled. To edit the properties, click “Set Value”.

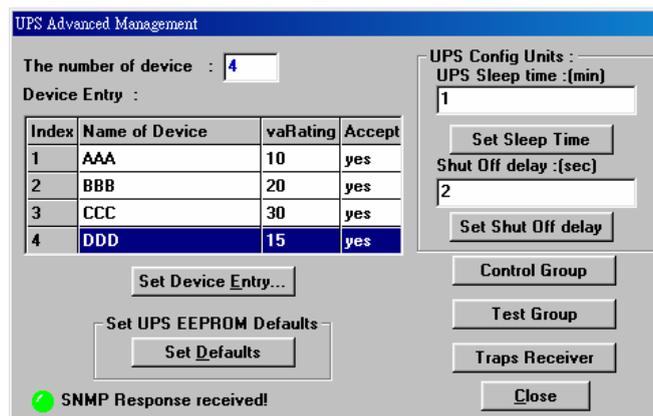
After clicking ‘Options ...’, it will enter into the Polling setting window. In “Polling:” input the polling value and then press “Ok”. Confirm and go back to “Selected Units Perform” Management window. (Diagram below)



On “Selected Units Perform” Management Window, click on “Start Polling”, this will start polling for the data that were previously configured. During polling period, the “Start Polling” will become “Stop Polling”. To stop polling, click on “Stop Polling”.

If user wants to exit “Selected Units Perform” management window, just click “Close” or press “Esc”.

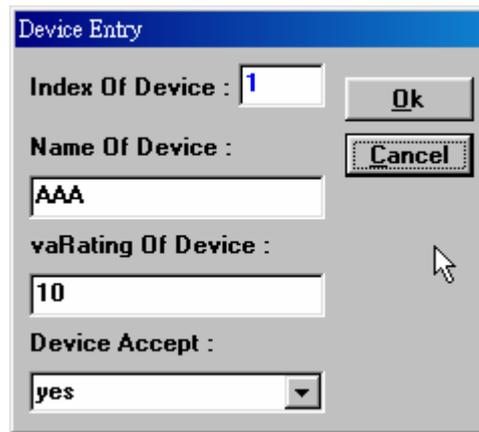
- **[Advanced] Management Window diagram**



- ◆ The number of device:Description and number of devices on UPS.
- ◆ Device Entry:Device powered by the UPS; power usage in percent and usage status.
- ◆ Set Device Entry ...:Enter and configure “Device Entry :”
- ◆ UPS Config Units:
  - a.UPS Sleep Time:Sleep time of UPS when UPS is in sleep mode. Unit=min.
  - b.Shut off Delay:Delay for UPS shutdown time. Unit=sec.
  - Set Config Units:Configure and confirm the values on the fields. (Basic UPS don’t have this value)
- ◆ Set UPS EEPROM Defaults:Configure the values to Default value. (Basic UPS don’t have this value)
- ◆ Control Group:Enter the Management Window of this UPS. (Basic UPS don’t have this value)
- ◆ Test Group:Enter the Testing Management Window of this UPS. (Basic UPS don’t have this value)
- ◆ Traps Receiver:Enter the Traps Receiver Management Window of this UPS.
- ◆ Close:Close the Advanced-Management Window.

- **Advanced Level of Management**

◆ “Device Entry” Configuration Window



To edit, select “Set Device Entry ...” or “Device Entry ...”. After editing, select “Ok” and exit. To cancel editing, select “Cancel”.

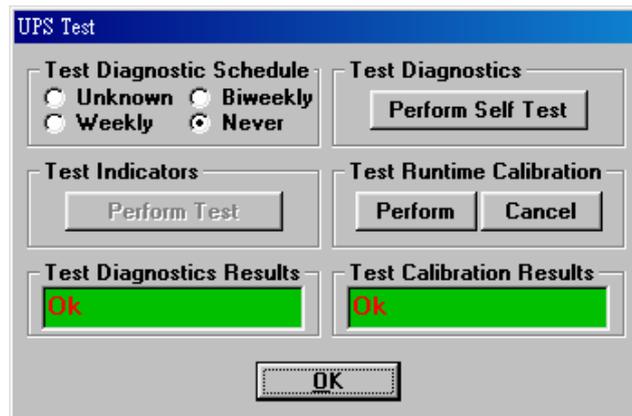
◆ UPS Controlling Management Window (for Smart UPS)



- Control UPSOff: Immediately turn off UPS
- Control UPSSleep: Put UPS to sleep mode
- Control FlashAndBeep: Turn On/Off UPS beep
- Control TurnOnUPSLoad: Turn on UPS’s Output
- Control UPSReboot: Immediately reboot UPS.
- Control SimulatePowerFail: Simulate system power failure
- Control ConserveBattery: Close UPS loading, conserve the current battery capacity.
- Close: Close the Controlling Window

*ATTENTION: The above features are only available for UPS that provides these functions.*

- **UPS Testing Management Window(For Smart UPS)**



- Test Diagnostic Schedule: Configure the Weekly auto-testing schedule of UPS
- Test Diagnostics: Begin UPS testing
- Test Indicators: Indicate Test function on UPS. This area will be disabled if UPS did not support Test function.
- Test Runtime Calibration: Testing until battery low.
- Test Diagnostics Results: View testing results
- Test Calibration Results: View testing order results
- OK: Close Testing Window

- **UPS Trap Receiving/Sending Management Window**

- ◆ mconfigTrapsReceiversNumber : Number of Host that can receive trap messages.
- ◆ MconfigTrapsReceiversEntry: Displays the Host, IP address, group, trap type and trap message authority.
- ◆ Setting ...: Configuration of Host, IP address, group, trap type and trap message authority. (Diagram below)
- ◆ Close: Close UPS Trap Sending/Receiving Window.



## 6 Multi Mon

Click on “Multi Mon” on the main screen to start multi-UPS monitoring, diagram below:

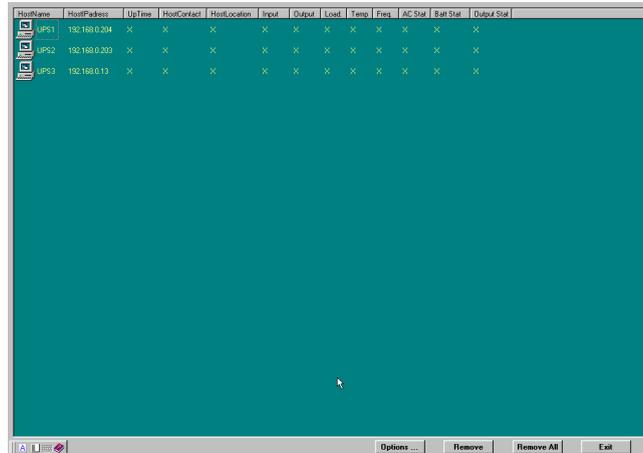


Fig.51. SNMPView:Multi Mon interface

“Add to ...” icon will then be enabled, this will enable you to select a UPS from the list of UPS to be included into the multi-monitoring window. The UPS monitoring data will be displayed. Diagram below:

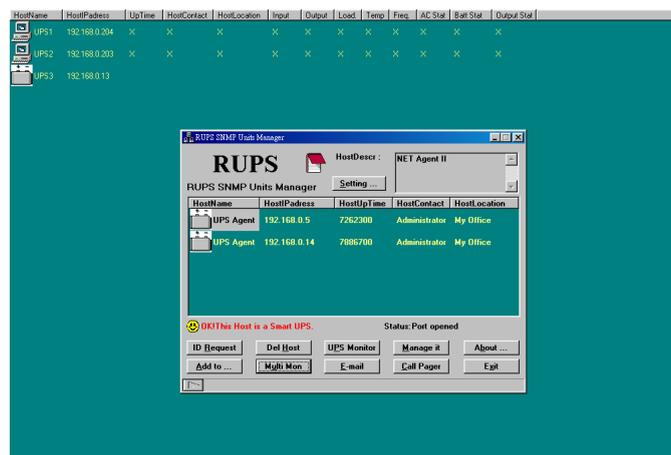


Fig.52. SNMPView: Add to interface

### • UPS Condition Area

This area shows the list of UPS current status, the items are:

- ◆ HostName: UPS Name
- ◆ HostIPAddress: UPS IP location
- ◆ UpTime: UPS start up time
- ◆ HostContact: UPS contact person
- ◆ HostLocation: UPS location
- ◆ Input: Input power voltage value. Unit = <Volt> (no value in Basic UPS)
- ◆ Output: Output power voltage value. Unit = <Volt> (no value in Basic UPS)
- ◆ Load: UPS loading. Unit = <%> (no value in Basic UPS)
- ◆ Temp: UPS internal temperature. Unit = <.> (no value in Basic UPS)
- ◆ Freq.: Power Frequency. Unit = <Hz.> (no value in Basic UPS)
- ◆ AC Stat: AC Power status
- ◆ Output Stat: UPS Output status

- **Buttons Row Command Features**



Fig.53. SNMPView:SNMP Query Options

- ◆ Options ... : Enter Polling Window; configure Multi-Monitoring Polling. Diagram below:
- ◆ On “Polling:” area, input the polling value and select “OK” to modify the polling settings.
- ◆ Remove: Remove the UPS on the UPS status list.
- ◆ Remove All: Remove all the UPS on the UPS status list.
- ◆ Exit: Exit UPS multiple monitoring window.

- **E-mail**

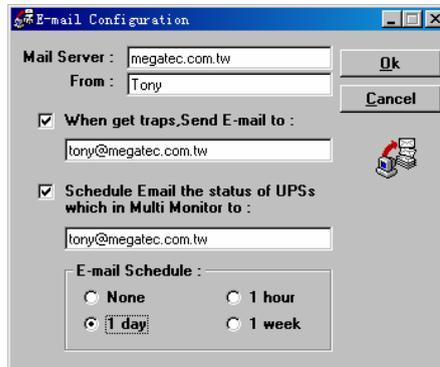
Click “Email” from the main screen to configure the SNMPView E-mail Warning configuration, diagram shown below:



Fig.54. SNMPView:Email Configuration

- ◆ Mail Server: Fill out this field with the appropriate SMTP Server. Use either IP address or the domain name.
- ◆ From: Fill out this field with the name of the sender. This will display in the “From:” within the email.
- ◆ When get traps, Send E-mail to: “When get traps, Send E-mail to” is marked, the other items will be available and ready for sending Email. Diagram shown below:  
When SNMPView receives trap messages, the “Trap E-mail message” will be sent to the configured e-mail receiver.
- ◆ S Schedule E-mail the status of UPSs which in Multi Monitor to: Mark on this selection will enable this function.
- ◆ Enter the e-mail address of the receiver on “Schedule” and select the E-mail schedule to None, 1-hour, 1-day or 1-week

- ◆ ATTENTION: After starting up this function, the multiple monitoring window will also be started. Every time the SNMPView starts, the multiple monitoring window will also be started, if this function is disabled, the multiple monitoring window will also be disabled.
- ◆ Items 3 & 4 can be set at the same time, see diagram below.



### ③ Call Pager

On the main screen, select the “Call Pager” icon to configure the “Call Pager” function of SNMPView. Diagram shown below:



Fig.55. SNMPView: Call Pager Configuration

- ◆ Enable Call Pager Function: This will enable the “Call Pager” function to start up. Unmark this item, the “Call Pager” function will be closed and turn disabled and unusable.
- ◆ Modem Connect to com: Select the com port connected Modem.
- ◆ Configuration:
  - Events : Events be sent to the pager
  - Pager Number: The pager number to be dialed to send warning messages to.
  - Send Code: Codes indicated the event and to be sent to the Pager.
  - Setting the UPS's Code: The Configuration of the UPS Code when paging.
    - UPS's Name: Name of the UPS
    - UPS IP Address: IP address of the UPS
    - UPS Code: The UPS code sent to the pager
    - Add UPS: To add a UPS to the list

- Modify: Modify a UPS information, diagram shown below:

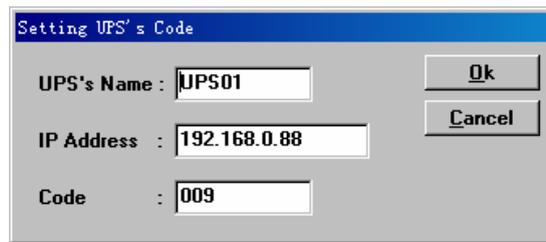


Fig.56. SNMPView: Setting UPS'S Code

- Remove: Remove a UPS from the list.
- Ok: After the complete configuration of the fields, click on this icon to save and exit the "Call Pager" function, diagram shown above.
- Cancel: Do not save the configurations and exit the "Call Pager" window.

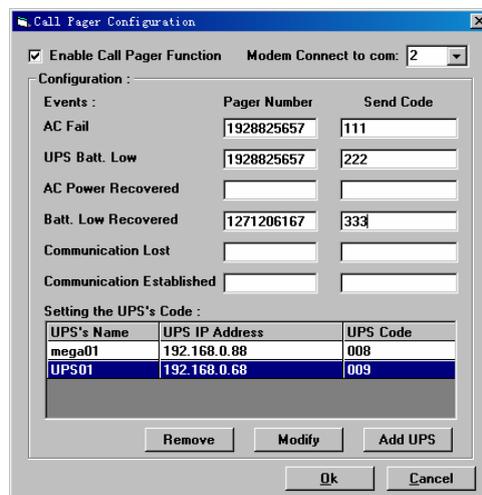


Fig.57. SNMPView: Call Pager

### Ⓢ SNMPView Traps Warning Message

When there is a Trap on the UPS SNMP Agent (or the SNMP Internal Card), the SNMP Agent (Internal Card) will automatically send Trap messages to the configured Hosts. When SNMPView receives the trap messages, it will immediately display it on the screen, as below:

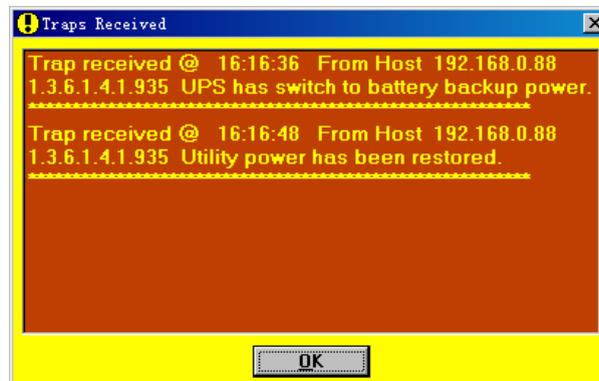


Fig.58. SNMPView: Traps Received