# NetAgent 9 mini (p.1 - p.148)

# NetAgent A mini (p.149 - p.209)

UPS SNMP Agent

User’s Manual

**User Guide for NetAgent**

Version 7.0

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# *Chapter 1. Introduction*

## *1.1 Features*

NetAgent is the SNMP (Simple Network Management Protocol) card for monitoring UPS. Not only could remote control the UPS and get the current status of it, the NetAgent that has 3 ports or USB ports could also provide other functions, ex. connect to compatible modem to send SMS notification, or our NetFeeler II and its additional sensors for ambient temperature, humidity and water status. This product is for “Contact Closure” and “RS232” interface UPS. The communication protocol includes the Contact Closure, RS232[MegaTec], Phoenixtec], SEC 2400, SEC 9600, Megatec Three Phase, ..etc. NetAgent provides a simple and easy installation procedure. CD provides along with NetAgent offers several software to allow the user to configure IP address; central monitoring and multi shutdown on different operating systems. Other advance configurations could be accomplished in the Web browser.

Features:

❶ Provide SNMP MIB to monitor & control UPS

❷ Auto-sense 10M /100M Fast Ethernet ***(10M/100M/l000M is available for specific model)***

❸ Manage and configure via Telnet, Web Browser or NMS

❹ Support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, HTTPS, SMTP, Modbus Protocol

❺ Support SSL/TLS, SSH Encryption

❻ Providing easy setup and upgrade tools via our Netility software

❼ Send SNMP TRAP ; E-mail and SMS for events notification.

❽ Auto email daily UPS history report

❾ Perform graceful shutdown with our ClientMate software

❿ Add-on optional NetFeeler II for temperature, humidity, water, smoke and door sensor

## *1.2 Applications*

- **NetAgent allows UPS to be monitor on network**

When the UPS connects with 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 happens, the NetAgent could also send the trap information to the system manager to take proper action.

- **NetAgent Provides Shutdown Utilities**

When a computer install our shutdown software in the network that connects to the NetAgent, when UPS is in AC failure condition or Battery Low condition, the software would close all the files of the operating system and shutdown gracefully. This could avoid system corrupt when a power disconnection happened.

- **NetAgent II for Surrounding Monitoring**

3 Ports NetAgent or NetAgent with USB ports could connect to optional sensor-NetFeeler II to get the surrounding temperature/humidity/smoke/fire signals. These information 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 server room, warehouse, office, etc. For example, the system manager could know the temperature, humidity, smoke and water condition by our NetFeeler II which connects with NetAgent. User may read the data via NetAgent webpage.

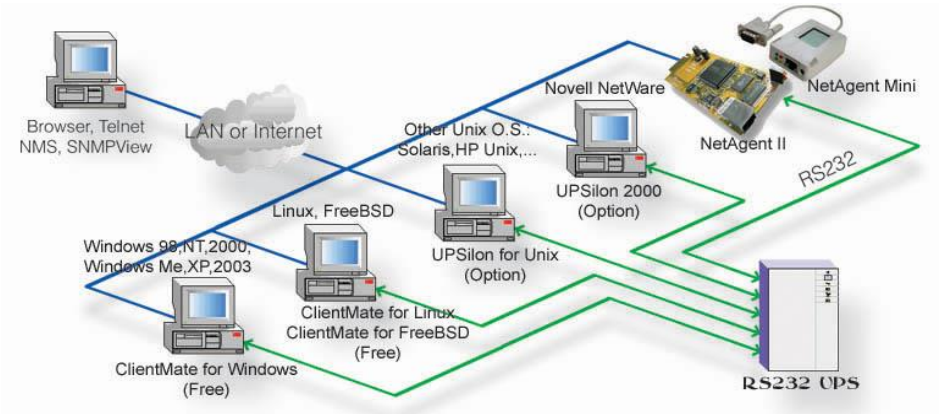



Fig.1 Network connection diagram of NetAgent and shutdown software

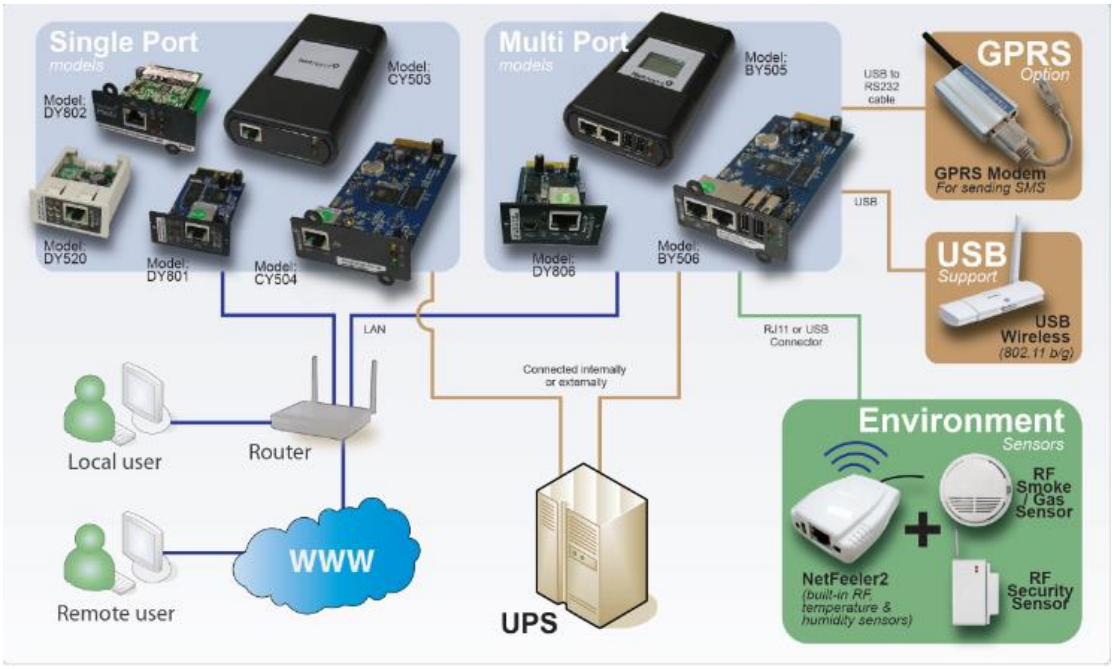



Fig.2 NetAgent 9 connection diagram with NetFeeler

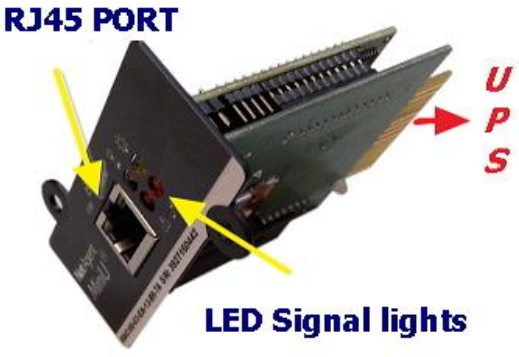
# *Chapter 2. NetAgent Series*

## *2.1 NetAgent Mini*

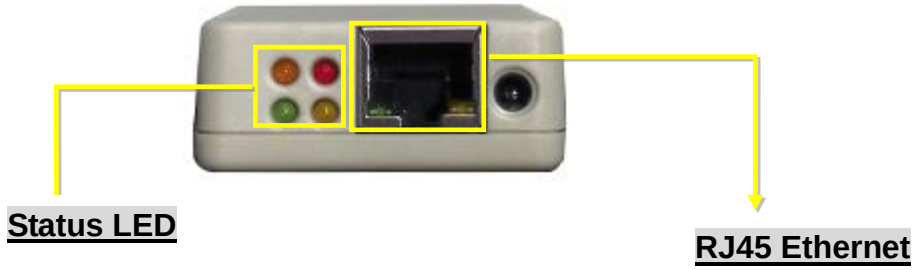
| NetAgent Mini Model | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Model Name** | **Package Contents** | **Internal** | **External** | **RJ45 Port** | **RS232 Port** | **ENV Port** | **USB Port** | **Single Phase** | **Three Phase** |
| **DP520**<br>**DT520** | 1. NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DP801**<br>**DT801** | 1. NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DP802**<br>**DT802** | 1. NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DP522**<br>**DT522** | 1. NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |
| **DP523**<br>**DT523**<br>**(Dry Contact Only)** | 1. NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |
| **DP532**<br>**DT532** | 1. NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |
| **DP630** | 1. USB NetAgent Mini SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |

### 2.1.1 NetAgent Mini Outlook

| DP/DT520 | DP/DT522 | DP/DT523 | DP/DT532 |
|---|---|---|---|
| | | | |
| **DP/DT801** | **DP/DT802** | **DP630** | |
| | | | |



### *2.1.2 NetAgent Mini LED Indication*




| Amber | | Red | |
|---|---|---|---|
| Communication | | Connection Status with UPS | |
| Flashing | | Flashing | Off |
| Transferring data with UPS | | Lost connection | Connecting with UPS |

| Green | | Yellow | |
|---|---|---|---|
| Power Status | | NetAgent Mini Status | |
| On | Off | On | Off |
| Normal | No Power | Operating | Stop working |

| Green | |
|---|---|
| On | Flashing |
| 100 Mbps | Sending/ Receiving Data |

| Yellow | |
|---|---|
| On | Flashing |
| 10 Mbps | Sending/ Receiving Data |

NOTE : When writing firmware, red and yellow led alternating flashing, DO NOT remove any power

## 2.2 NetAgent II Models

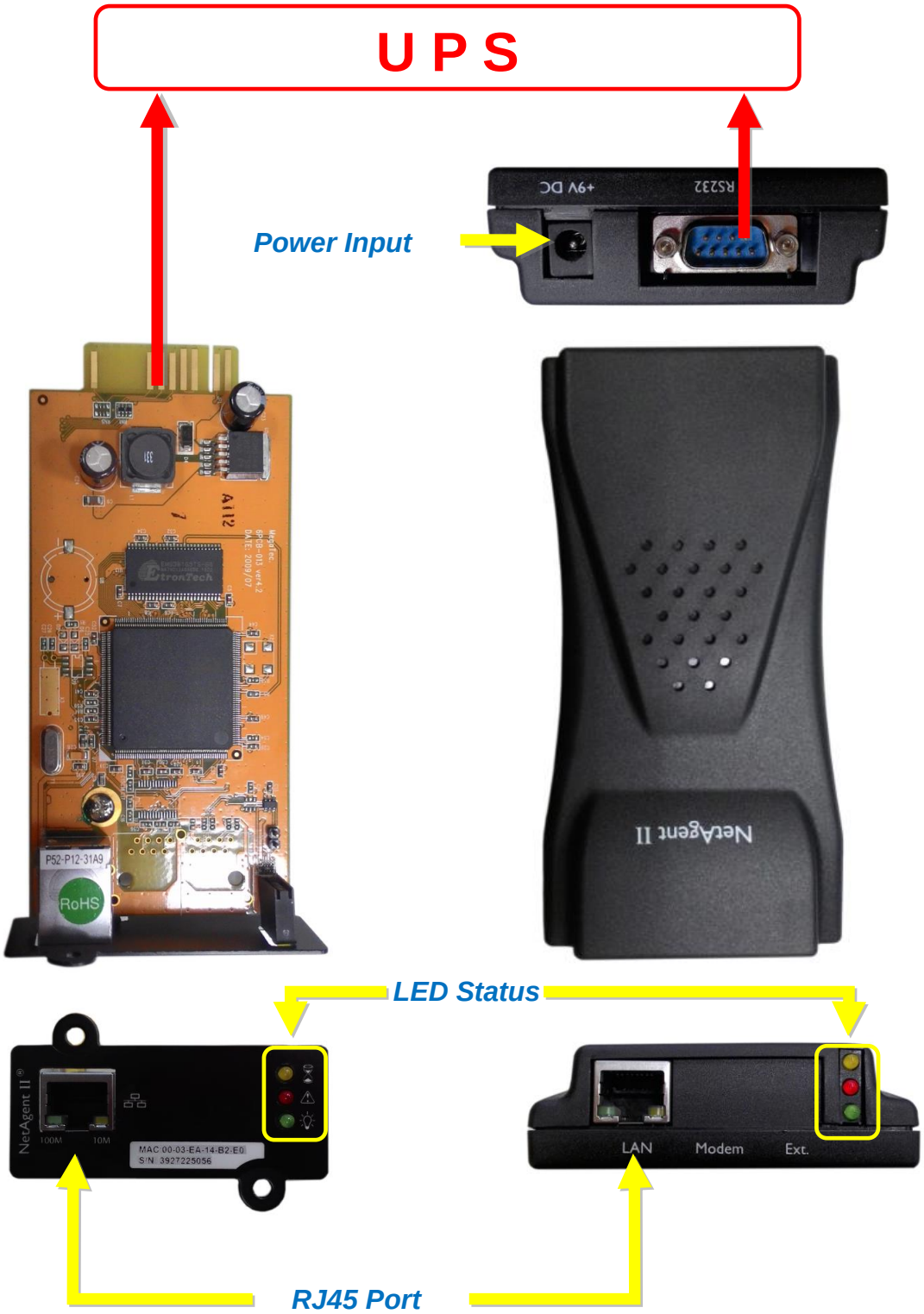
| NetAgent II Model | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Model Name** | **Package Content** | **Internal** | **External** | **RJ45** | **RS232** | **ENV** | **USB** | **Single Phase** | **Three Phase** |
| **CP503**<br>**CT503** | 1. NetAgent SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2501 Cable( For Dry Contact UPS)<br>5. M2502 or M2505 Cable(For RS232 UPS)<br>6. Adaptor | | V | V | | | | V | V |
| **CP504**<br>**CT504** | 1. NetAgent SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **BT505** | 1. NetAgent SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2501 Cable( For Dry Contact UPS)<br>5. M2502 or M2505 Cable(For RS232 UPS)<br>6. M2506 Cable (For Modem)<br>7. Adaptor | | V | V | V | V | | V | V |
| **BT506** | 1. NetAgent SNMP Card<br>2. NetAgent utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2506 Cable (For Modem)<br>5. Adaptor | V | | V | V | V | | V | V |

***NOTE : Model CP/CT are discontinued.***

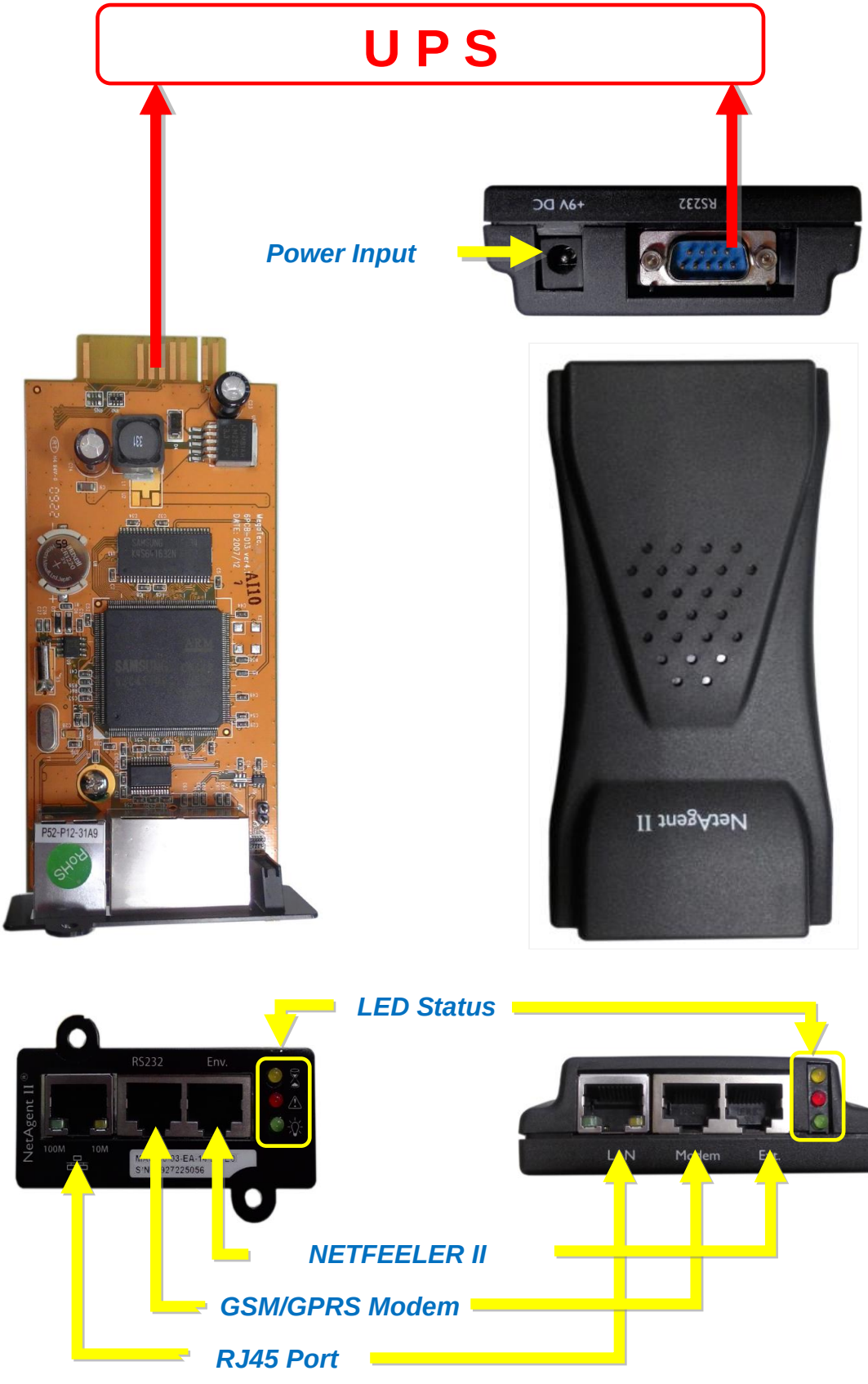
### 2.2.1 NetAgent II Outlook

| **CP/CT 503** | **CP/CT 504** |
|---|---|
| | |
| **BT505** | **BT506** |
| | |

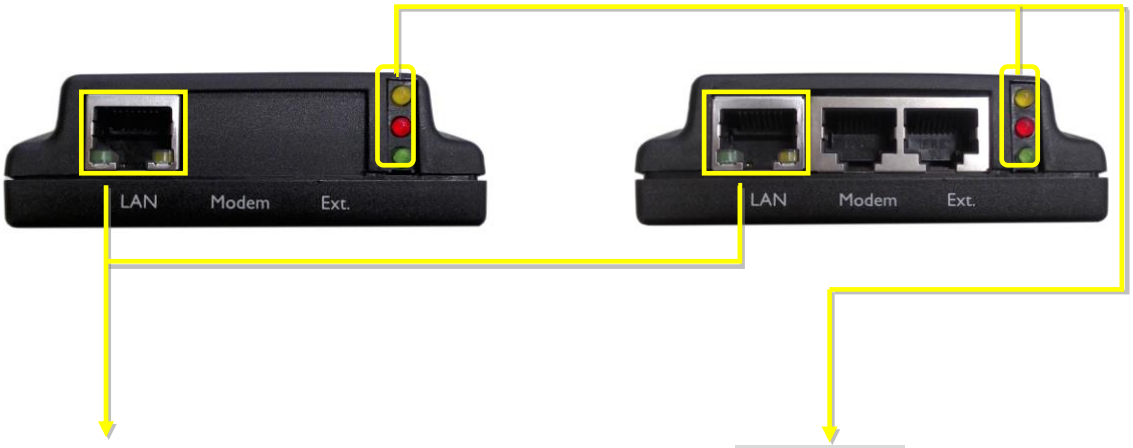
## ◆ One Port NetAgent II



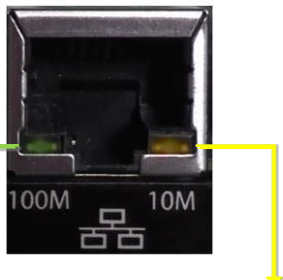
## ◆ Three Ports NetAgent II



### 2.2.2 NetAgent II Led Indication




**RJ45 Ethernet**




| Green | |
|---|---|
| On | Flashing |
| 100 Mbps | Sending/ Receiving Data |

| Yellow | |
|---|---|
| On | Flashing |
| 10 Mbps | Sending/ Receiving Data |

**Status LED**

| Status | Power On | Lost Communication | Writing Firmware |
|---|---|---|---|
| Yellow NetAgent II Status | On | On | Flashing |
| Red UPS Communication | Off | Flashing | Flashing |
| Green Power | On | On | On |

NOTE : When writing firmware, red and yellow led alternating flashing, DO NOT remove any power

## *2.3 NetAgent Mini 9/ NetAgent 9*

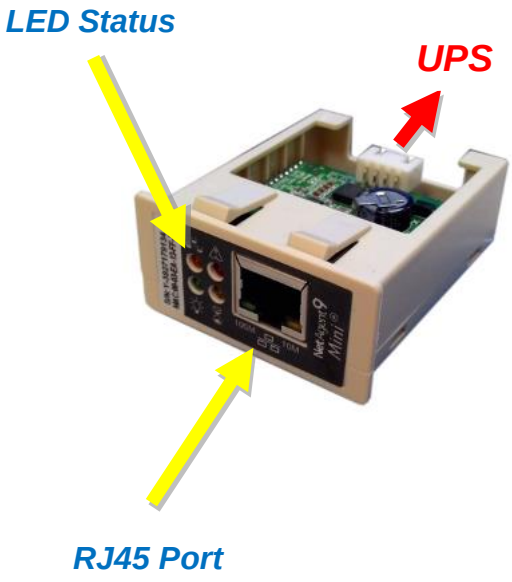
### NetAgent Mini 9 Models

| NetAgent Mini 9 Model | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Model Name** | **Package Contents** | **Internal** | **External** | **RJ45** | **RS232** | **ENV** | **USB** | **Single Phase** | **Three Phase** |
| **DX520 DY520** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DX801 DY801** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DX802 DY802** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DX806 DY806** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2509 Cable (USB) | V | | V | | | V | V | V |
| **DY807** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | V | V | V |
| **DX522 DY522** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |
| **DX523 DY523 (Dry Contact Only)** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |
| **DX532 DY532** | 1. NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |
| **DX630 DY630** | 1. USB NetAgent Mini 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. Adaptor | | V | V | | | | V | V |

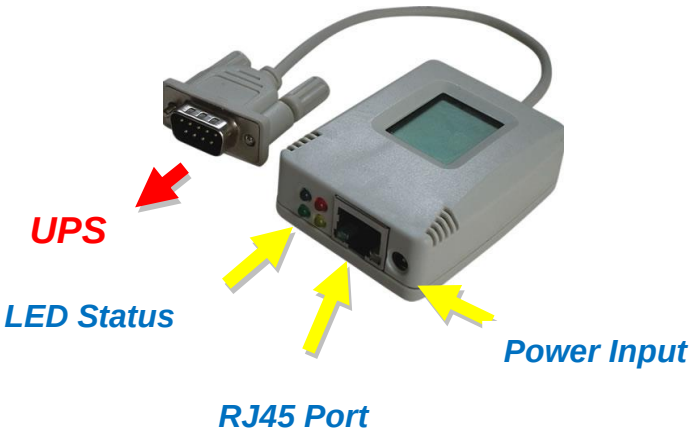
### 2.3.1 NetAgent Mini 9 Outlook

| NetAgent Mini 9 Series | | | |
|---|---|---|---|
| **DX/DY 520** | **DX/DY 522** | **DX/DY 523** | **DX/DY 532** |
| | | | |
| **DX/DY 801** | **DX/DY 802** | **DX/DY 806** | **DY 807** |
| | | | |
| **DX/DY 630** | | | |
| | | | |

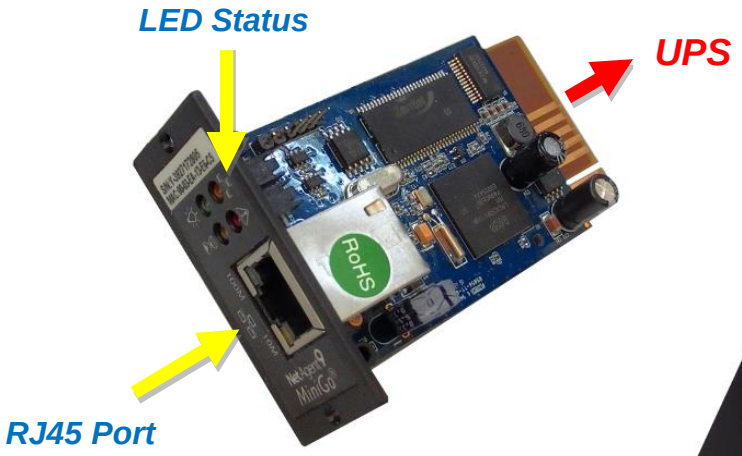
**DX/DY Internal**



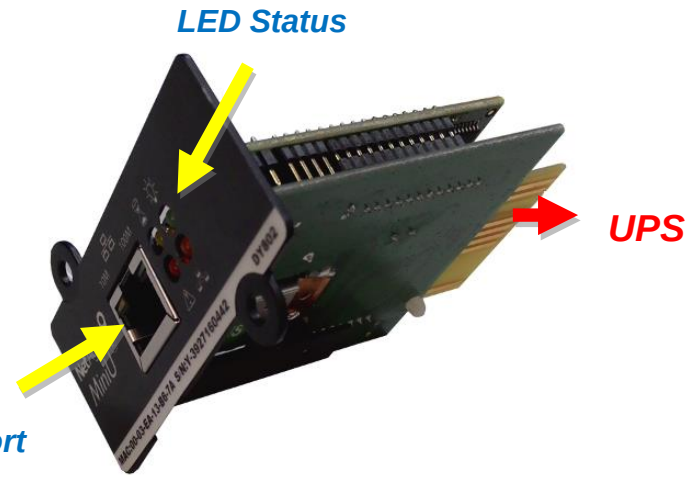

**DX/DY External**



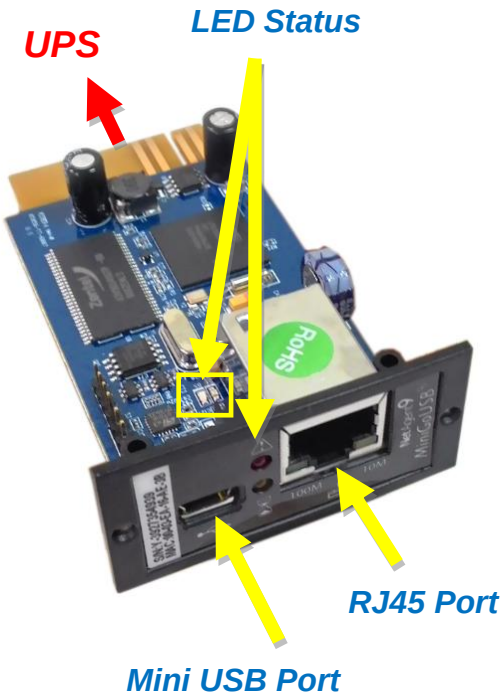
## DX/DY 801



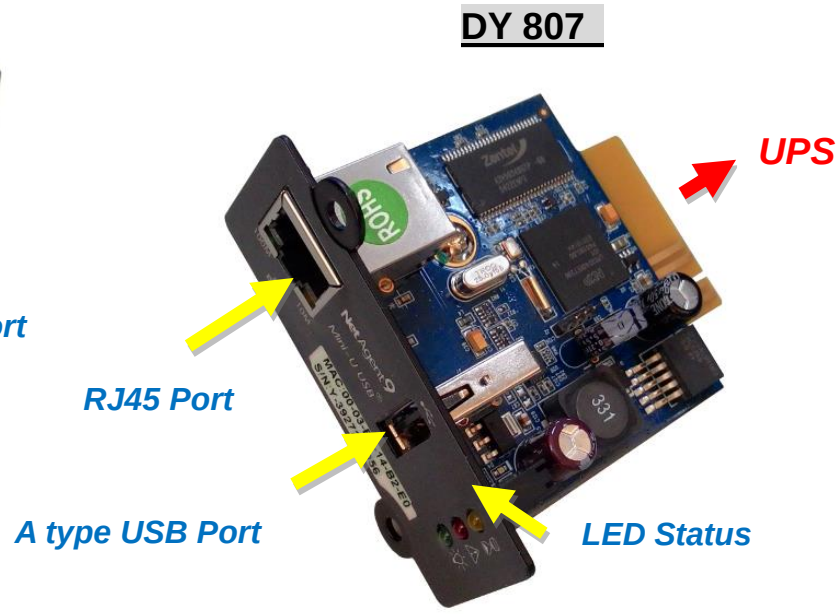

## DX/DY 802




## DX/DY 806




## DY 807

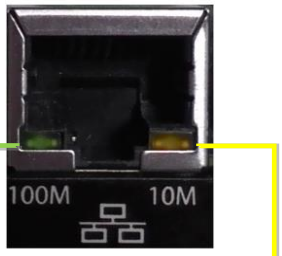


### 2.3.2 NetAgent Mini 9 LED Indication

**Status LED** **RJ45 Ethernet**

| Amber | | Red | |
|---|---|---|---|
| **Communication** | | **Connection Status with UPS** | |
| **Flashing** | | **Flashing** | **Off** |
| Transferring data with UPS | | Lost connection | Connecting with UPS |

| Green | | Yellow | |
|---|---|---|---|
| **Power Status** | | **NetAgent Mini Status** | |
| **On** | **Off** | **On** | **Off** |
| Normal | No Power | Operating | Stop working |




| Green | |
|---|---|
| **On** | **Flashing** |
| 100 Mbps | Sending/ Receiving Data |

| Yellow | |
|---|---|
| **On** | **Flashing** |
| 10 Mbps | Sending/ Receiving Data |

NOTE : When writing firmware, red led alternating flashing, DO NOT remove any power

**DX/DY 520 Internal**

**DX/DY 801**

**DX/DY 802**

**DX/DY 806**

| D5 | D4 |
|---|---|
| Green | Blue |
| Power | Communication |
| On / Off | Flashing |
| Normal / No Power | Sending/Receiving Data |

| Red |
|---|
| UPS connection |
| Flashing / Off |
| Lost connection / Connecting with UPS |

| Yellow |
|---|
| NetAgent Mini 9 Status |
| On / Off |
| Operating / Stop Working |

| D4 |
|---|
| Blue |
| Communication Status |
| Flashing |
| Sending/Receiving Data |

**DY 807**

| Status | Power On | Lost Communication | Writing Firmware |
|---|---|---|---|
| Yellow / NetAgent Mini 9 Status | On | On | Off |
| Red / UPS Communication | Off | Flashing | Flashing |
| Green / Power | On | On | On |

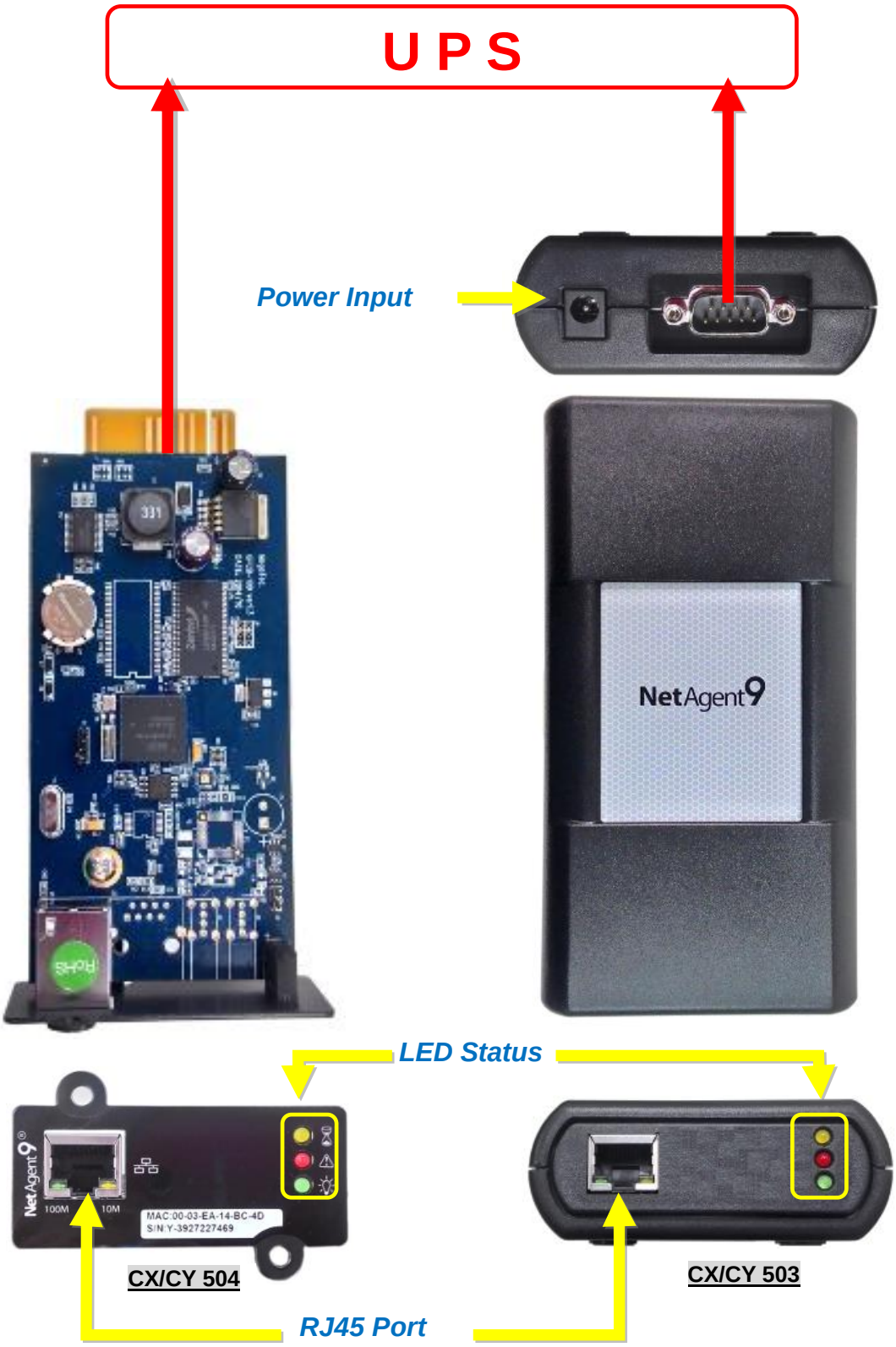
## *2.4 NetAgent 9 Series*

| NetAgent 9 Model | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Model Name** | **Package Contents** | **Internal** | **External** | **RJ45** | **RS232** | **ENV** | **USB** | **Single Phase** | **Three Phase** |
| **CX/CY 503** | 1. NetAgent 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2501 Cable(For Dry Contact UPS)<br>5. M2502or M2505 Cable(For RS232 UPS)<br>6. Adaptor | | V | V | | | | V | V |
| **CX/CY 504** | 1. NetAgent 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **BX/BY 505** | 1. NetAgent 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2501 Cable(For Dry Contact UPS)<br>5. M2502 or M2505 Cable(For RS232 UPS)<br>6. M2506 Cable ( For ModBus on RS485)<br>7. RS485 Converter board<br>8. Adaptor | | V | V | | V | V | V | V |
| **BX/BY 506** | 1. NetAgent 9 SNMP Card<br>2. NetAgent Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2506 Cable ( For ModBus on RS485)<br>5. RS485 Converter board | V | | V | | V | V | V | V |

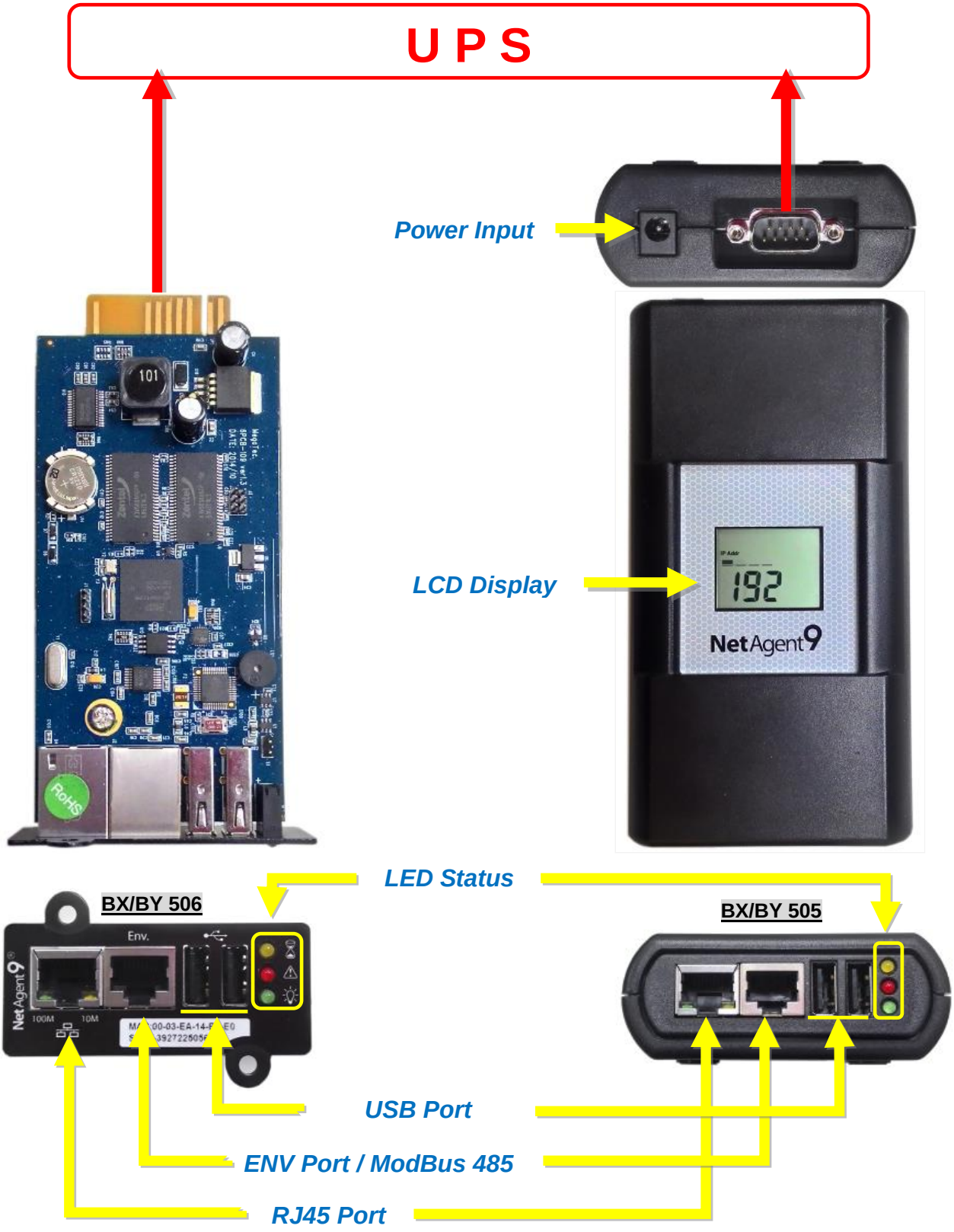
### *2.4.1 NetAgent 9 Outlook*

| CX/CY 503 | CX/CY 504 |
|---|---|
| | |
| **BX/BY 505** | **BX/BY 506** |
| | |

◆ **One Port NetAgent 9**

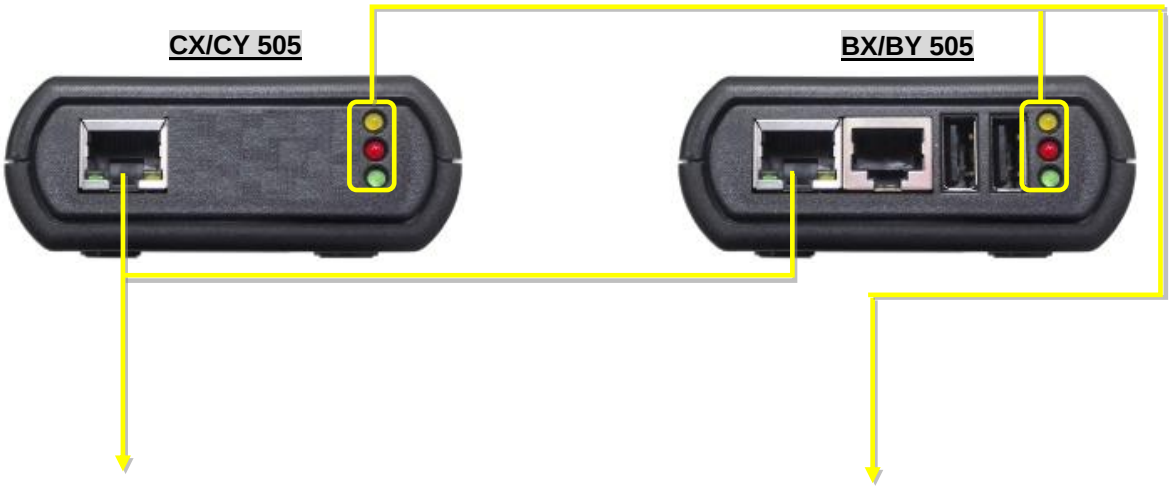


## ◆ NetAgent 9 W/USB Ports

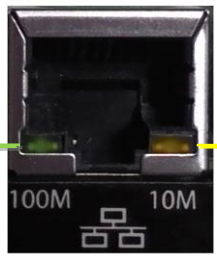


## ◆ NetAgent 9 USB Port Add-On

### 2.4.2 NetAgent 9 LED Indication




**RJ45 Port**




| Green | |
|---|---|
| On | Flashing |
| 100 Mbps | Sending / Receiving Data |

| Yellow | |
|---|---|
| On | Flashing |
| 10 Mbps | Sending / Receiving Data |

**LED Status**

| Status | Power On | Lost Communication | Writing Firmware |
|---|---|---|---|
| Yellow NetAgent 9 Status | On | On | Off |
| Red UPS Communication | Off | Flashing | Flashing |
| Green Power | On | On | On |

NOTE : When writing firmware, red led alternating flashing, DO NOT remove any power

**CX/CY 504**

**BX/BY 506**

## *2.5 NetAgent Mini 9 / NetAgent 9 Package Accessories*

(1) **Utility CD**

**CD Contens :**

- **Netility** - NetAgent Software too – IP configuration / Firmware Upgrade
- **ClientMate** - Shutdown Software
- **SMS Server** - SMS Notification Software (with compatible Modem)
- **SNMPView** - NMS Software/ Multi Monitoring
- **Time Server** - Time ServerSoftware
- **iMConfig** - Multi Configuration Software

**(2) Quick Installation Guide (Optional)**

**(3) Adaptor**

***5.3V***

***For NetAgent Mini Series***

***9V***

***For NetAgent 9 Series***

**(4) ModBus On RS485 Coverter Board**

**(5) Cables**

- **M2501 – For connection between NetAgent and dry contact UPS**

- **M2502 – For connection between NetAgent and RS232 pin 6,7,9 UPS**

- **M2505 –For connection between NetAgent and RS232 pin 2,3,5 UPS**

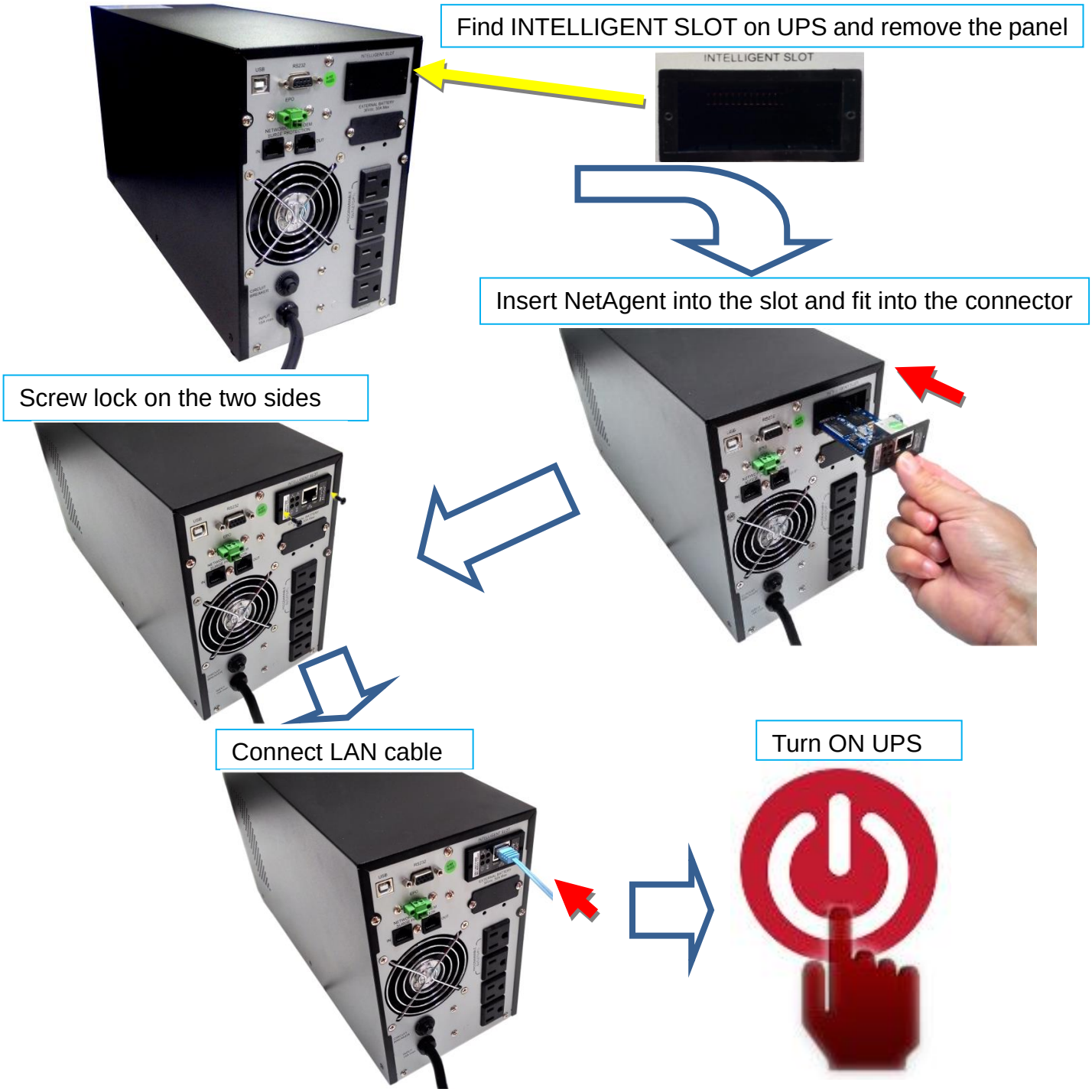
- **M2506 – For connection between NetAgent and GPRS / CDMA modem**

# *Chapter 3. NetAgent Installation*

## *3.1 Hardware Installation*

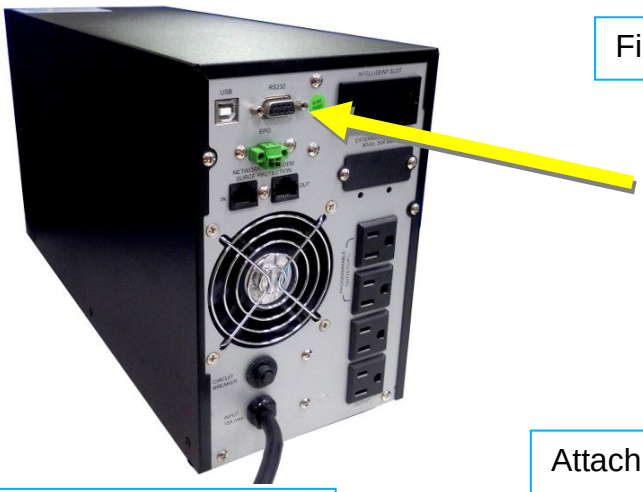
■ **Internal NetAgent**

✹ **NOTE：Turn Off UPS Power before installation**



## ■ External NetAgent Mini

**✹ Turn Off UPS Power before installation**



Find RS232 port on UPS

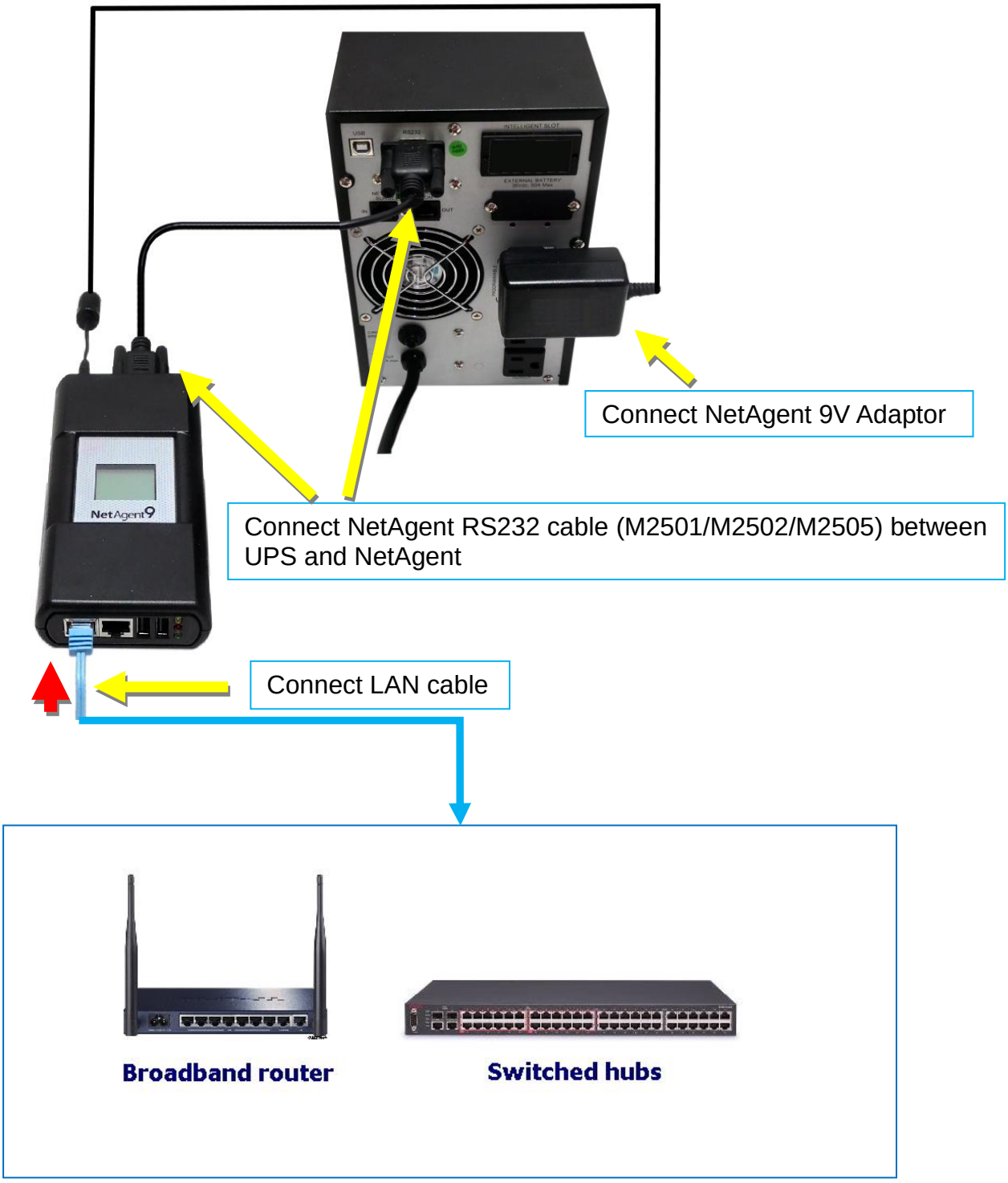
Attach and screw NetAgent's RS232 connector on it

Connect LAN cable

Connect NetAgent Mini 5.3V adaptor

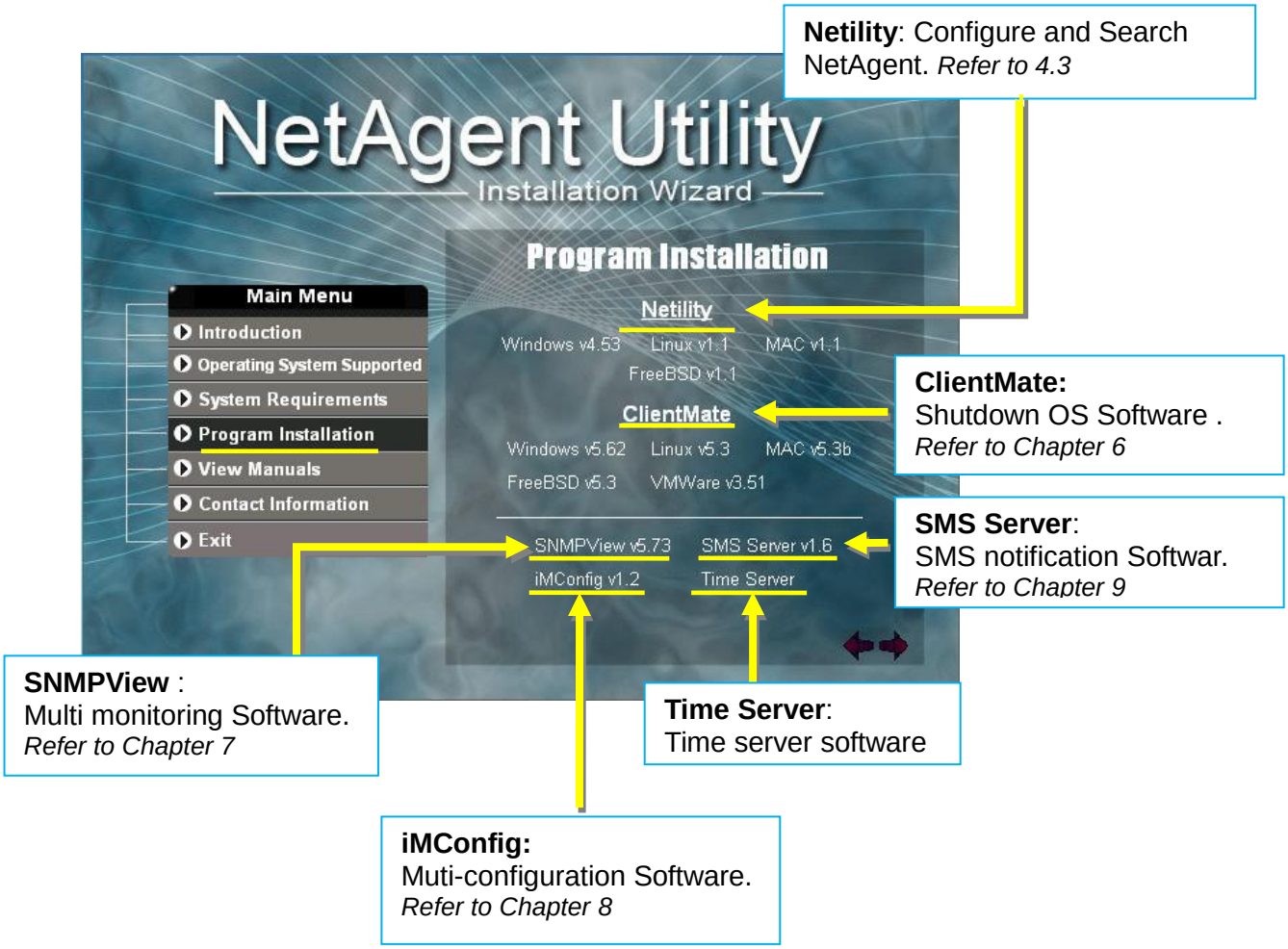
Turn ON UPS

## ■ External NetAgent II / 9

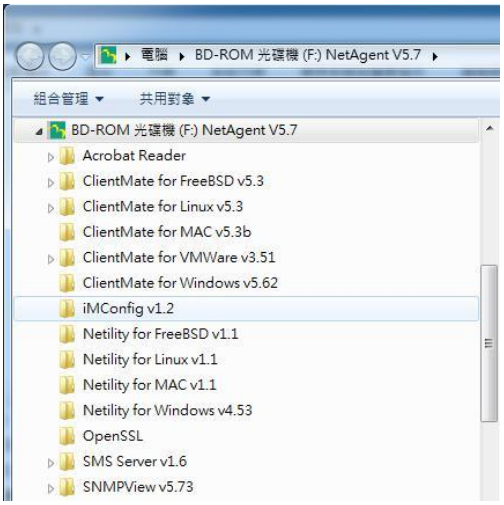


## *3.2 Software Installation*

NetAgent Utility CD offers several management and shutdown software. Insert CD into CD-ROM and software can be select under **【Program Installation】**



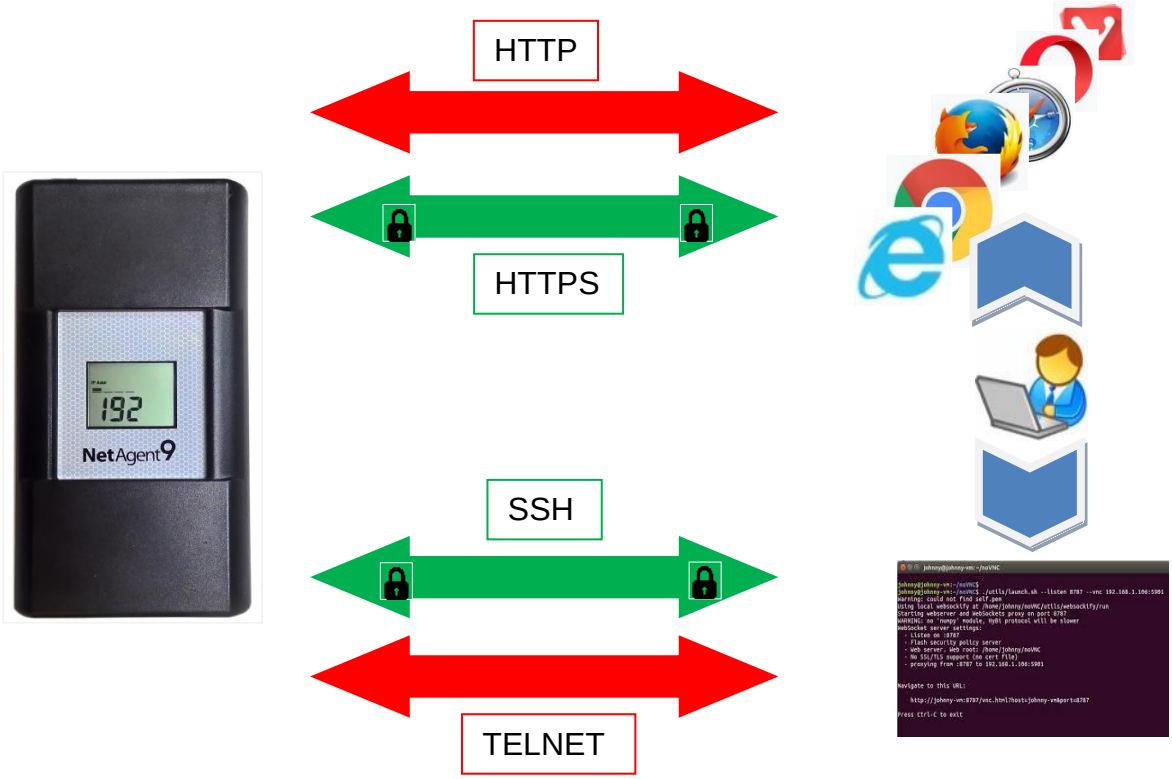

If the PC does not executes CD program automatically, please select from File Managment



# *Chapter 4. NetAgent Setting*

## *4.1 Introduction*

NetAgent can be login via web or HyperTerminal with protocol and encryption of HTTP/HTTPS/SSH/Telnet. Enter the IP address of NetAgent to configure and monitor the UPS status.



## *4.2 NetAgent Login Procedure*

1. Connect NetAgent to modem/router

2. Install Netility under same network

3.NetAgent searches all available NetAgent within same network

4.Configure IP address of NetAgent
(1)DHCP IP (Default) (2)Static IP

5. Enter IP address of the NetAgent on browser

5. Double click NetAgent from Netility

5. Login via HyperTerminal

6. Select the compatible protocol under UPS Configuration webpage of NetAgent

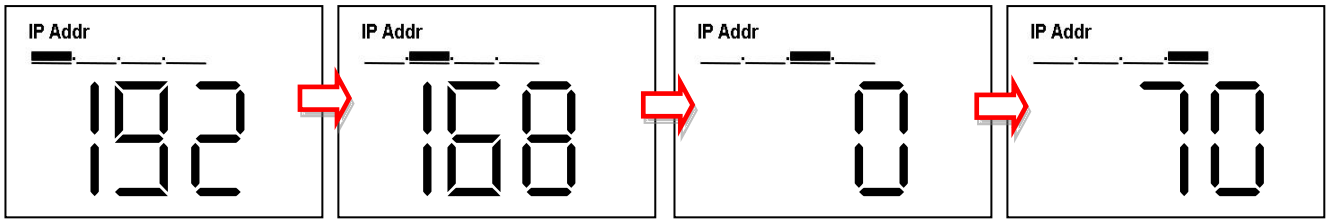
7.Enter other parameter on NetAgent webpage

**NOTE 1**：Each NetAgent has its unique serial number / MAC address and Password. This is available on the label of each unit. This helps to identify the card information on Netility

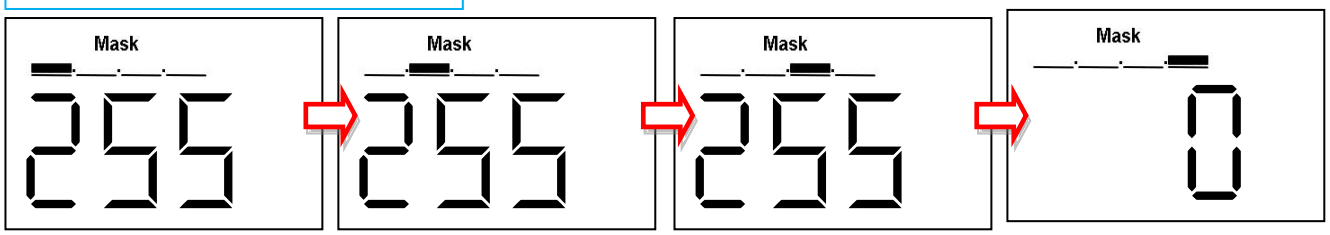
**NOTE 2**： NetAgent with LCD display may obtain the IP info from it.

Example of LCD display format as below

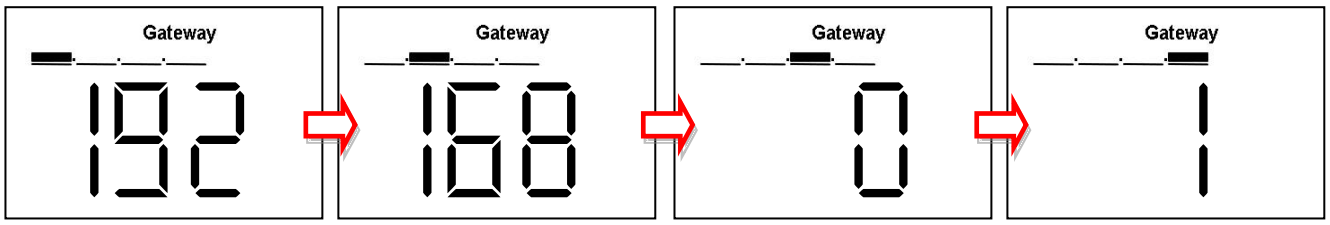
IP address 192.168.0.70



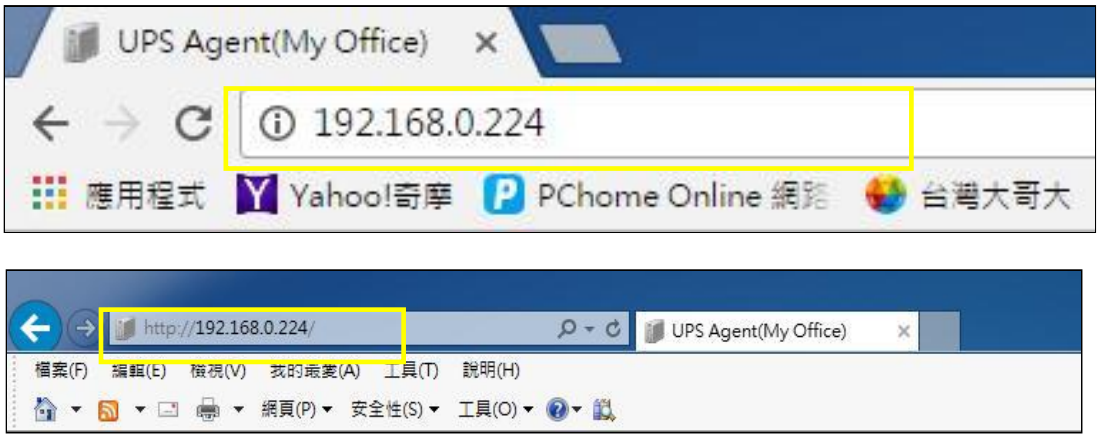

Subnet Mask: 255.255.255.0




Gateway:192.168.0.1



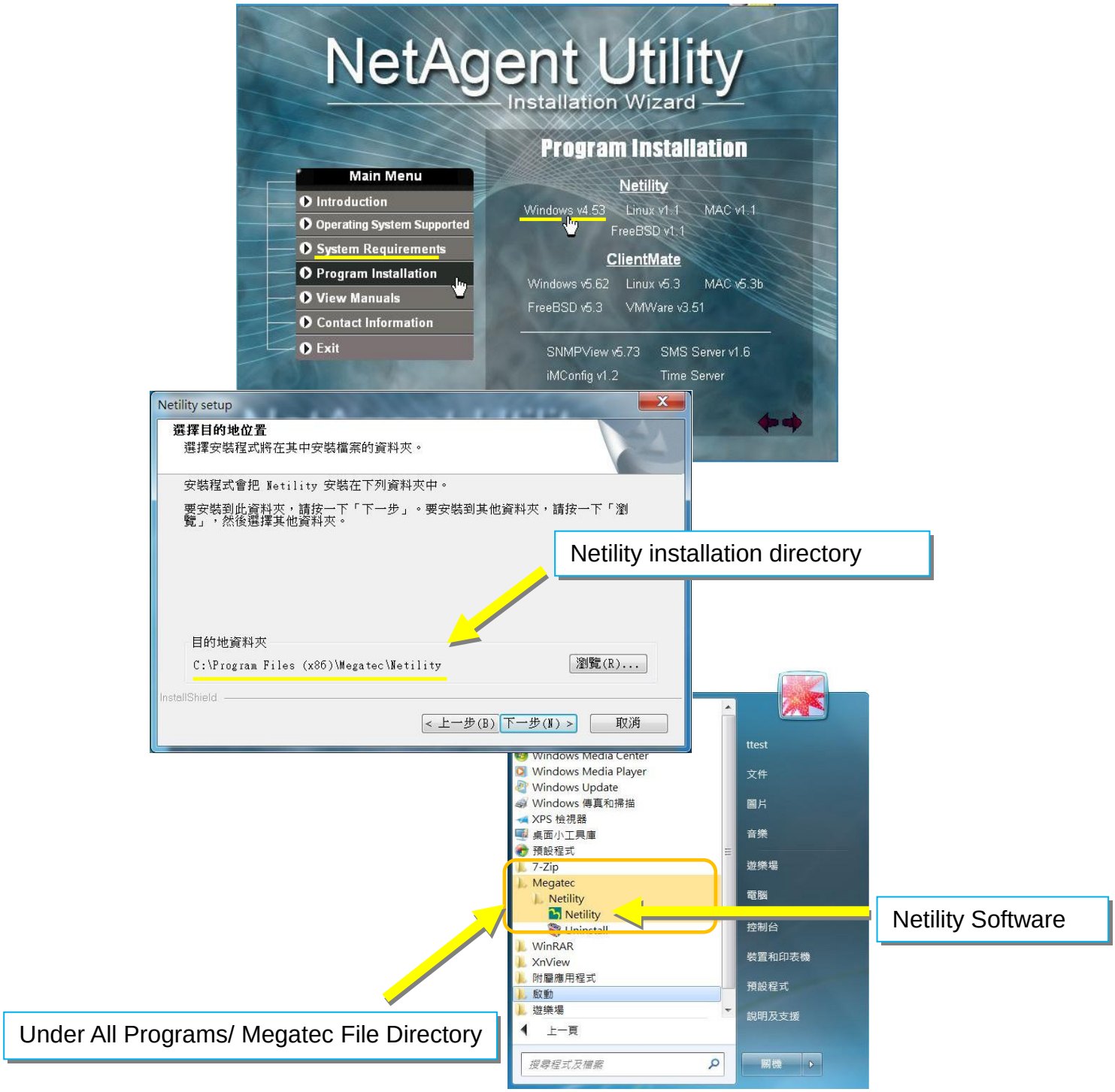

When NetAgent IP is known, enter such IP address on the browser to login. If non-LCD NetAgent model, install Netility software to find and configure its IP address.



## *4.3* Netility Installation and Setting

### ■ Netility Installation

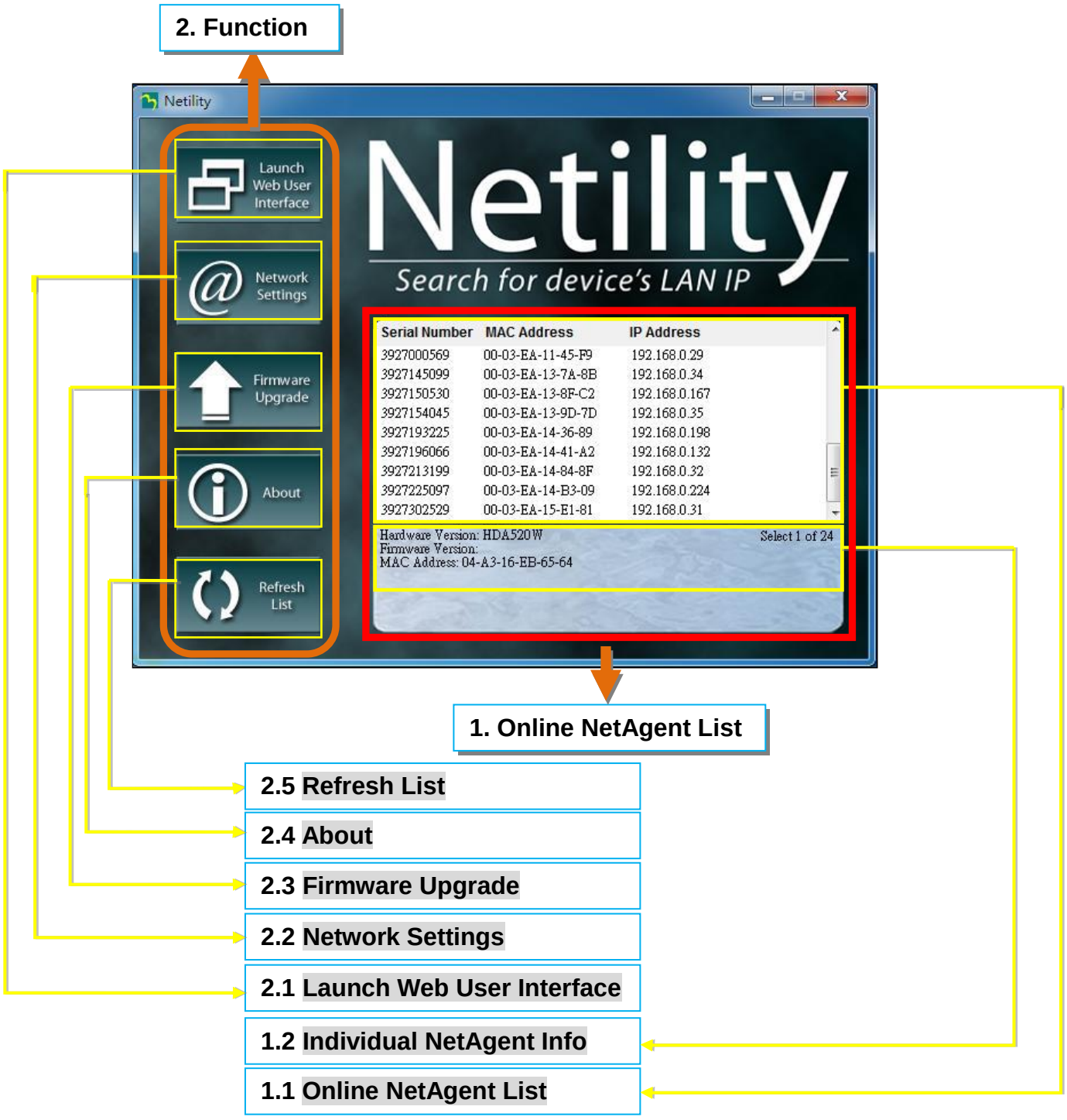
Netility is tool software that helps the user to search all the available NetAgent within network as well as to configure IP address and firmware upgrade. Mount the NetAgent Utility CD on CD-ROM and click on Program Installation>Netility>Windows v4.53



## ■ Netility Operation and Setting

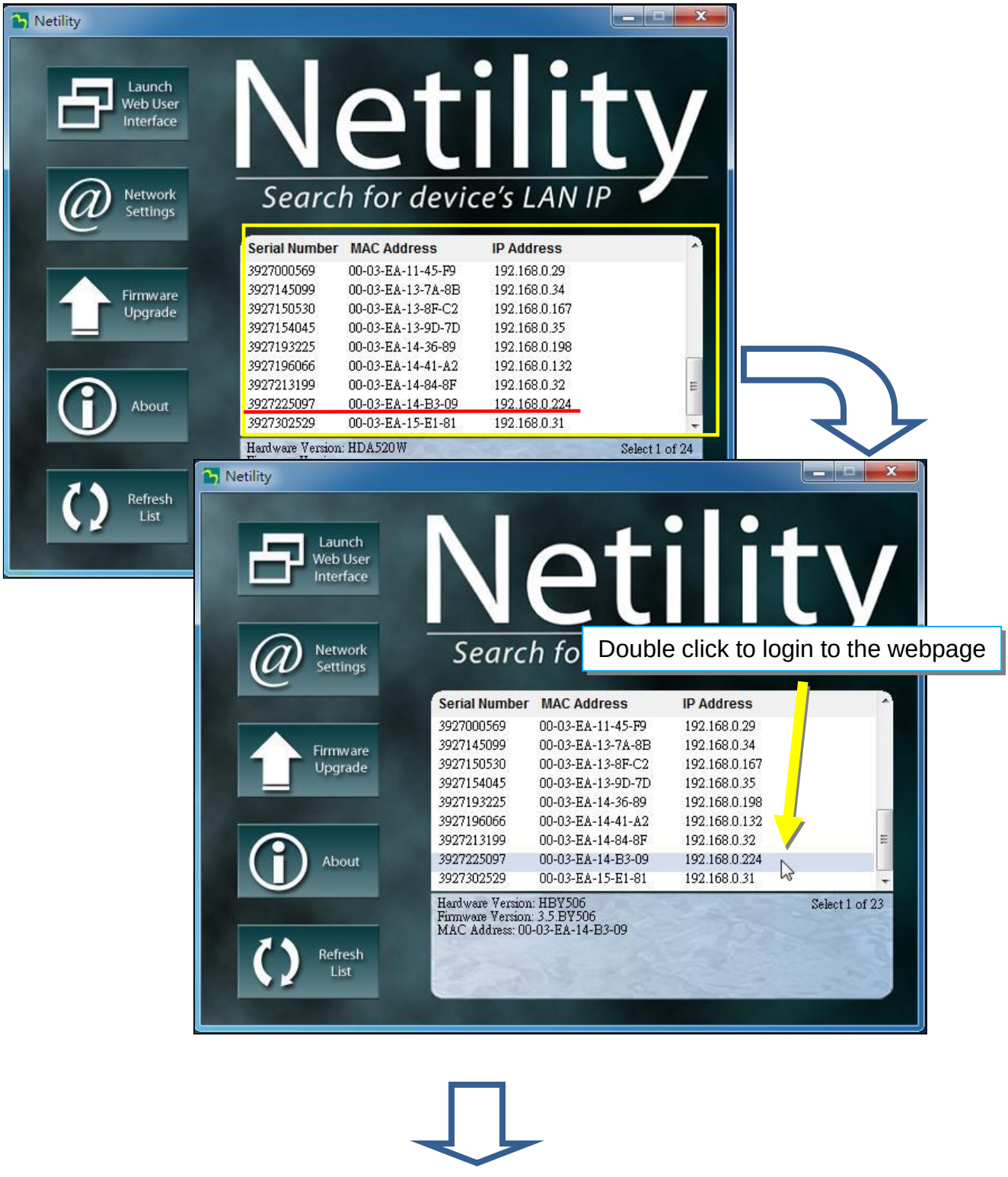
Netlity main pages divided into 2 sections:

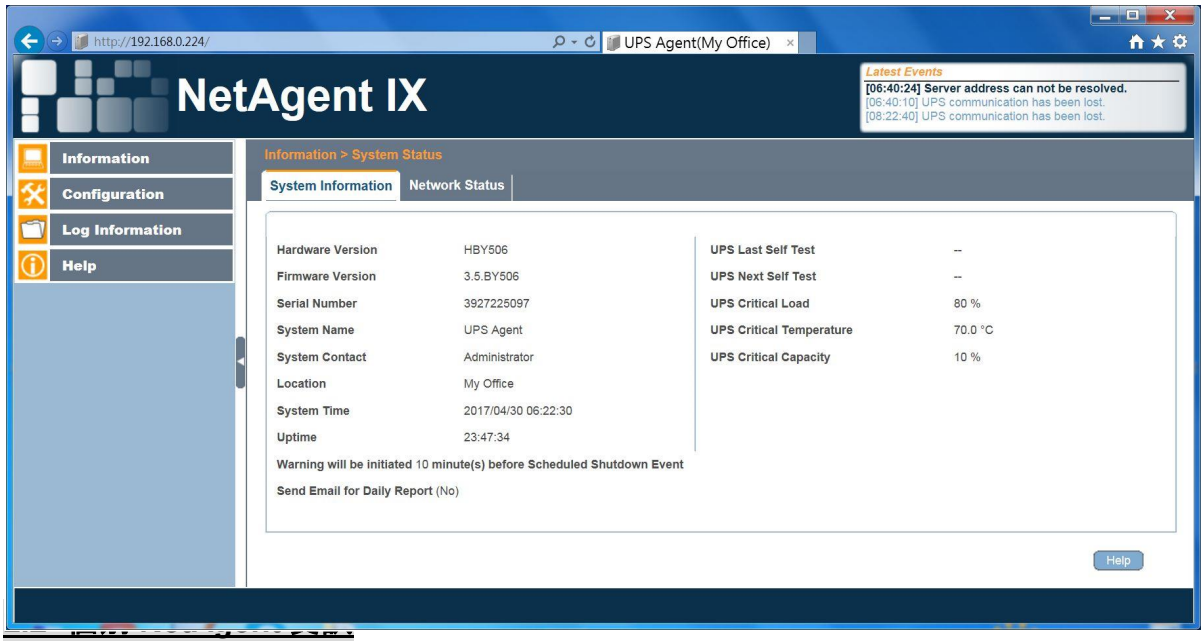
**1. Online NetAgent List  2. Function Selection**



## 1.1 Online NetAgent List

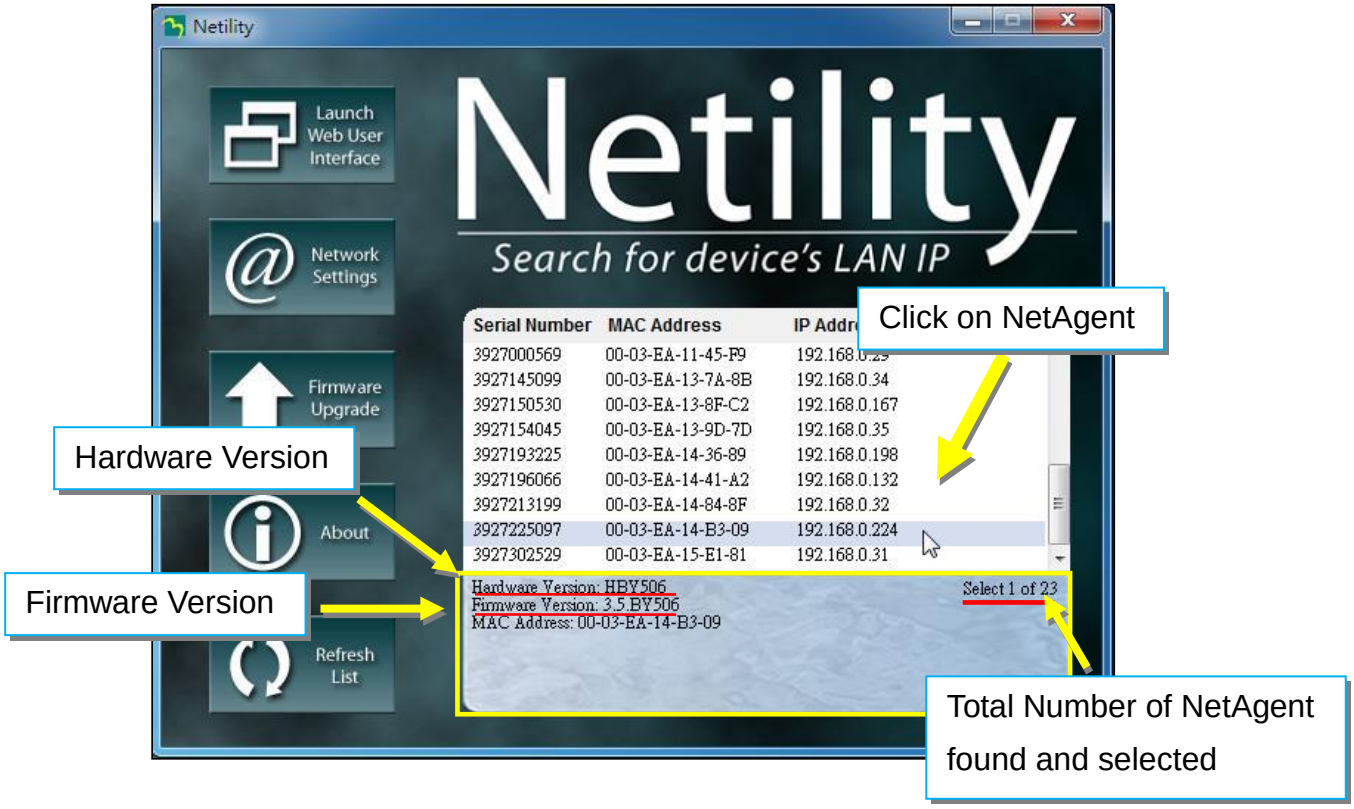
When open up Netility , it automatically searches all the available online NetAegnt within the network with its serial number, IP address, MAC address. Double click on the specific NetAgent with valid IP address, it will direct to the NetAgent's webpage. (List refreshes automatically every 2 minutes)





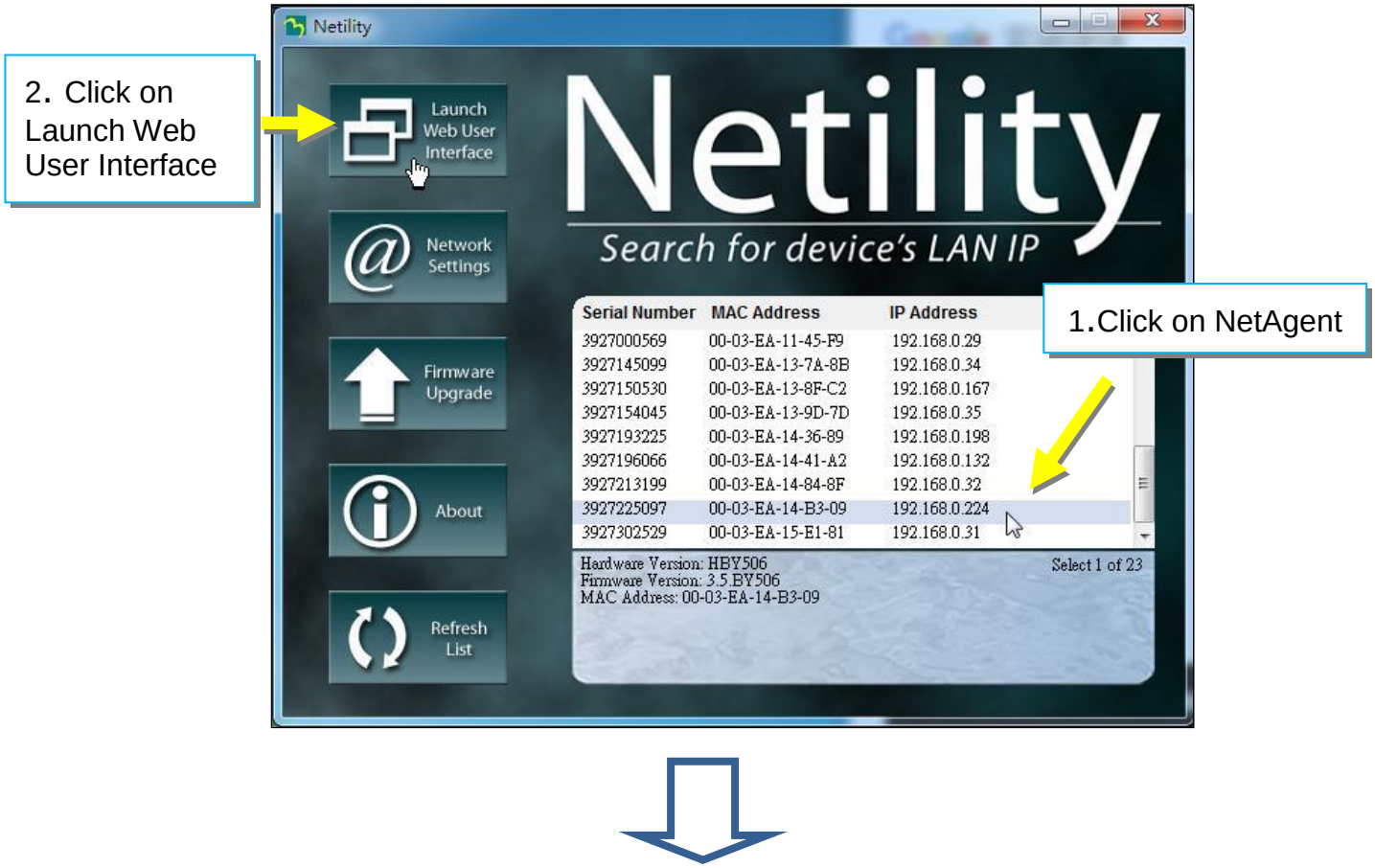

## 1.2 Individual NetAgent Info

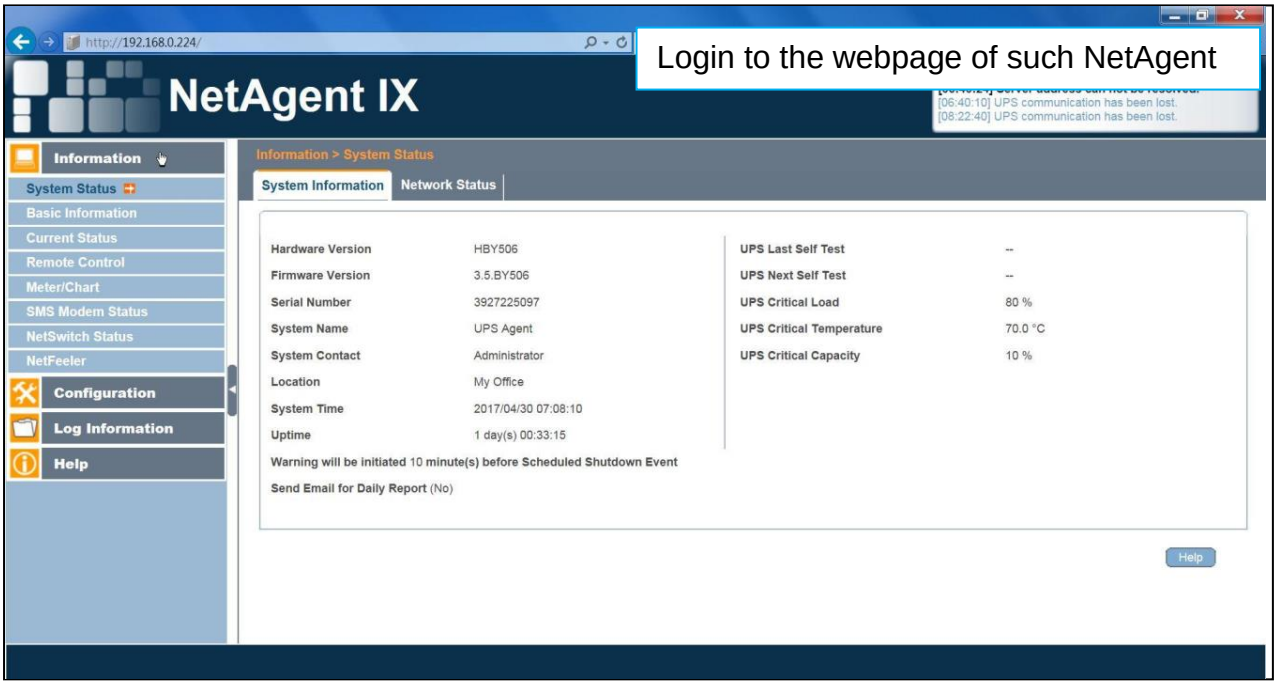
Click on specific NetAgent , the bottom column shows its hardware , firmware version and MAC address. It also shows the total NetAgent number that found by Netility and selected



## 2.1 Launch Web User Interface

Select specific NetAgent from the list and click on Launch Web User Interface to login to the NetAgent's webpage



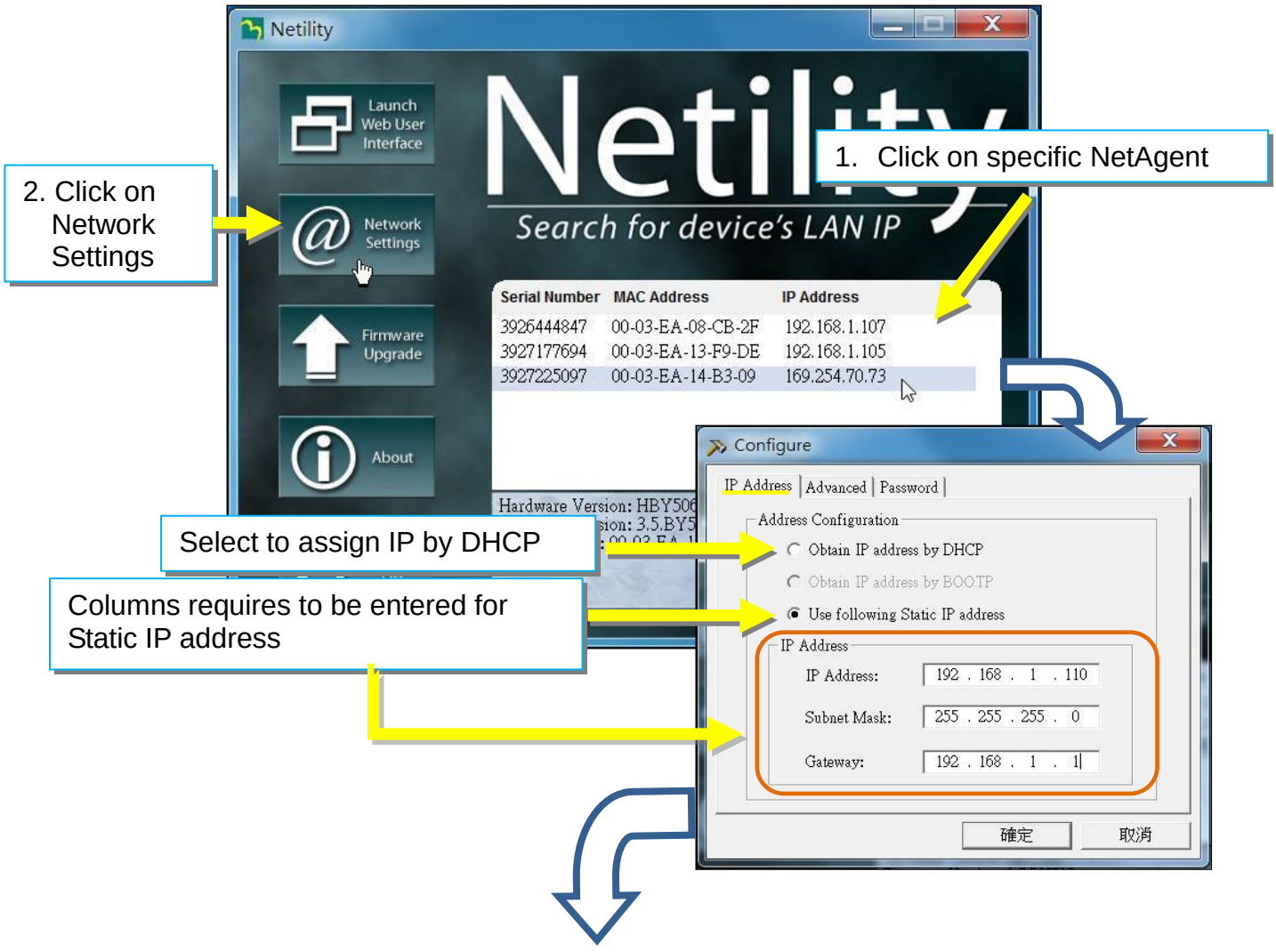
## 2.2 Network Settings

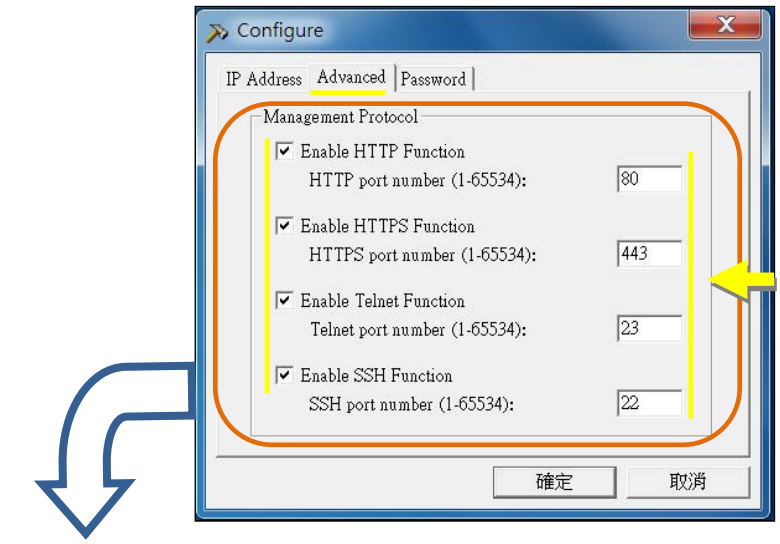
- When connecting the NetAgent for the first time, ensure IP address and other network setting are correctly entered in order to login to the NetAgent's webpage via browser or HyperTerminal

- When select to obtain IP address by DHCO or BOOTP, IP address and other network parameter will be assign by the network

- NetAgent offers 4 network protocols - HTTP / HTTPS / TELNET / SSH for management with security consideration. If any change on port number, the it require to enter the full IP address with port number in order to login
  For example：HTTP port number change to 81
  The full address to be enter on browser should be "http://X.X.X.X:81" (X.X.X.X is the IP address of the NetAgent)
  For Example：Telnet port number change to 24
  The full address to be enter on HyperTermnal should be "http://X.X.X.X 24" (X.X.X.X is the IP address of the NetAgent)

- When password of the NetAgent is enabled, it is necessary to enter the correct password before making any configuration change and firmware upgrade






Default port for each protocol

Enter password

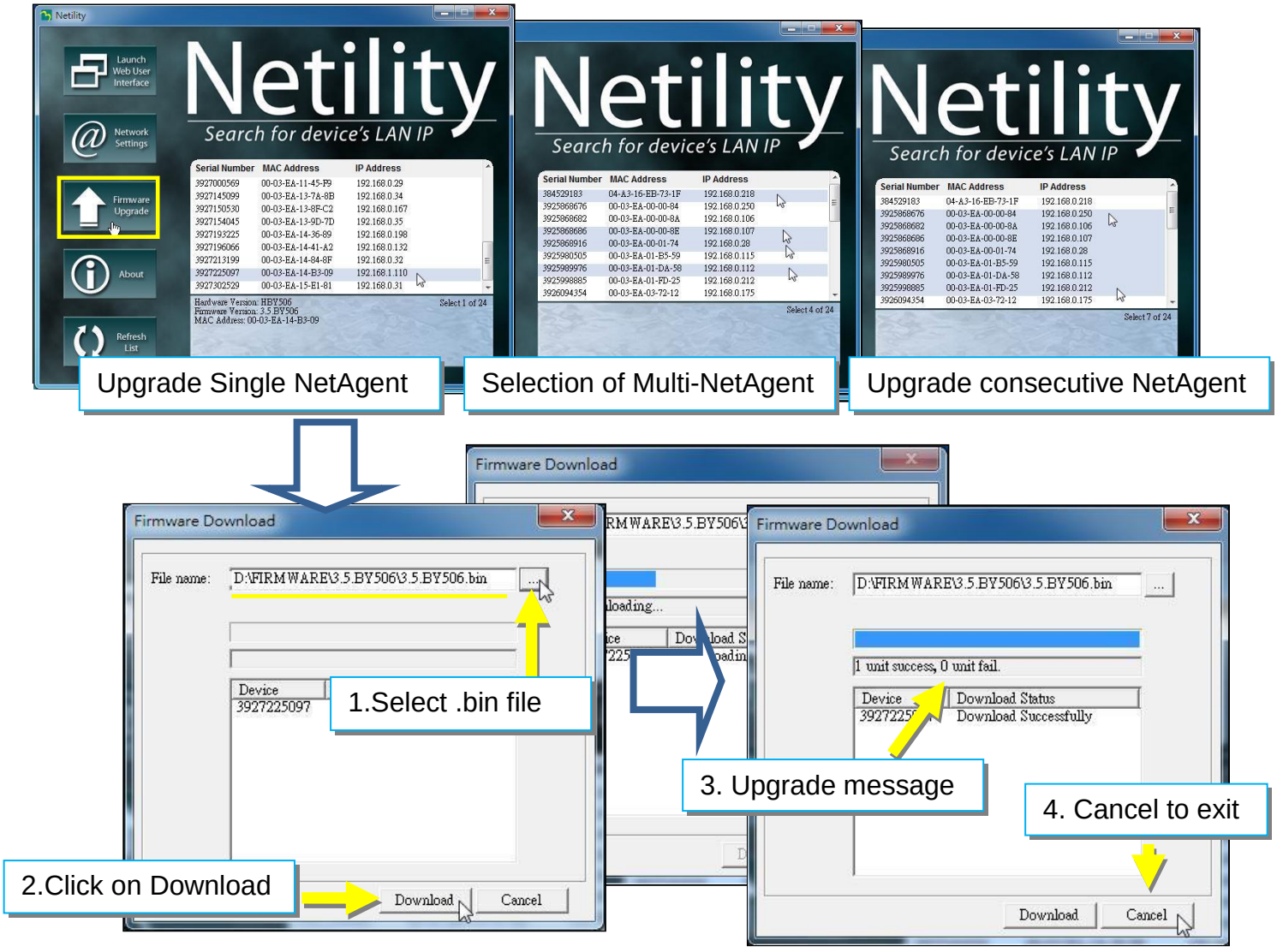
Once password is enabled and configured, it is required to enter the correct password when change any setting or firmware upgrade

## 2.3 Firmware Upgrade

- This is to upgrade or re-load the firmware to the NetAgent unit. Firmware version is available on the official website. Ensure to check the NetAgent model, hardware version for the correct firmware version (.bin)
- Ways to select NetAgent for firmware upgrading
  (1) Click on specific NetAgent from the Netility list
  (2) Press and hold on CTRL key then select multi NetAgent unit from the list=>This is to upgrade multi units at once
  (3) Click on the first NetAgent from the list, then press and hold on SHIFT key as well as click on the last unit of the NetAgent =>This is if all NetAgent from the list are same model

  ✹ **WARING**：Please makes sure the multi NetAgent selected are same model

- If any failure during firmware upgrading, please upgrade again until it is successfully done
- While upgrading, red and yellow LED would alternating flashing, or red led flashing. DO NOT remove any power or cable to the NetAgent. Once firmware is successfully upgraded, NetAgent would reboot automatically.



## 2.4 About

Here shows the current Netility verison

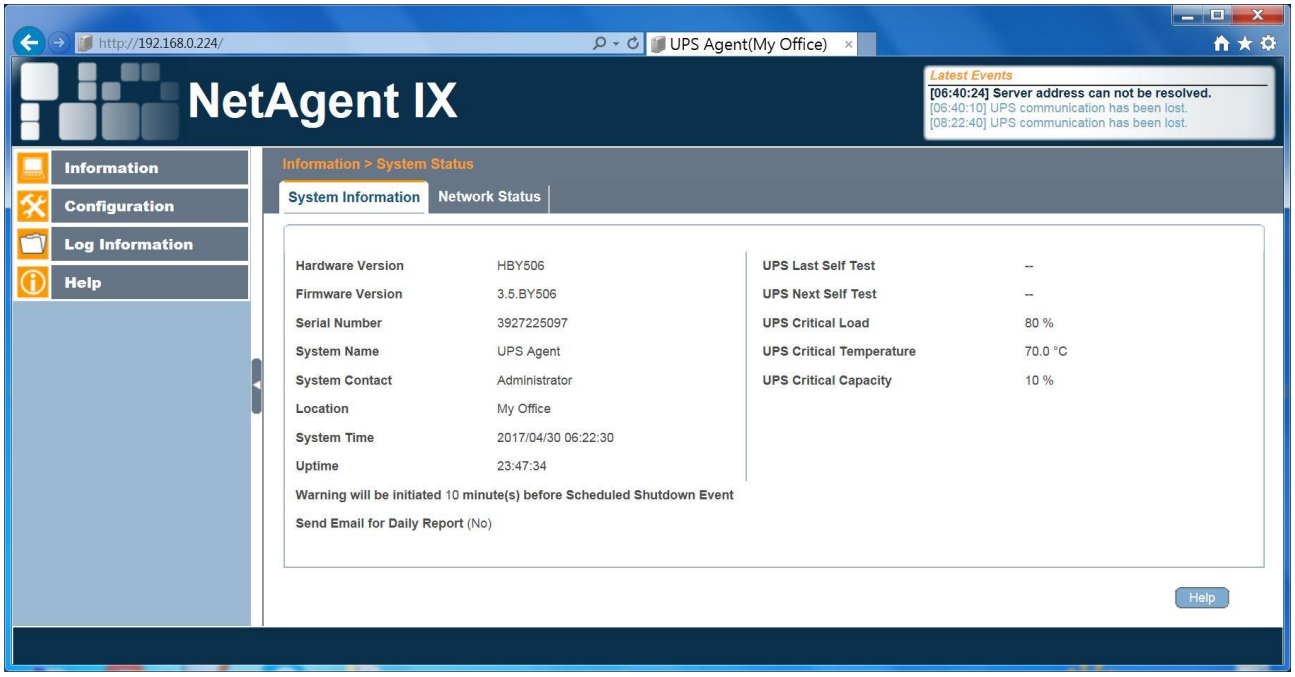
## 2.5 Refresh List

The list on Netility would refresh every 2 minutes automatically, however, manual refresh is also possible by clicking Refresh List

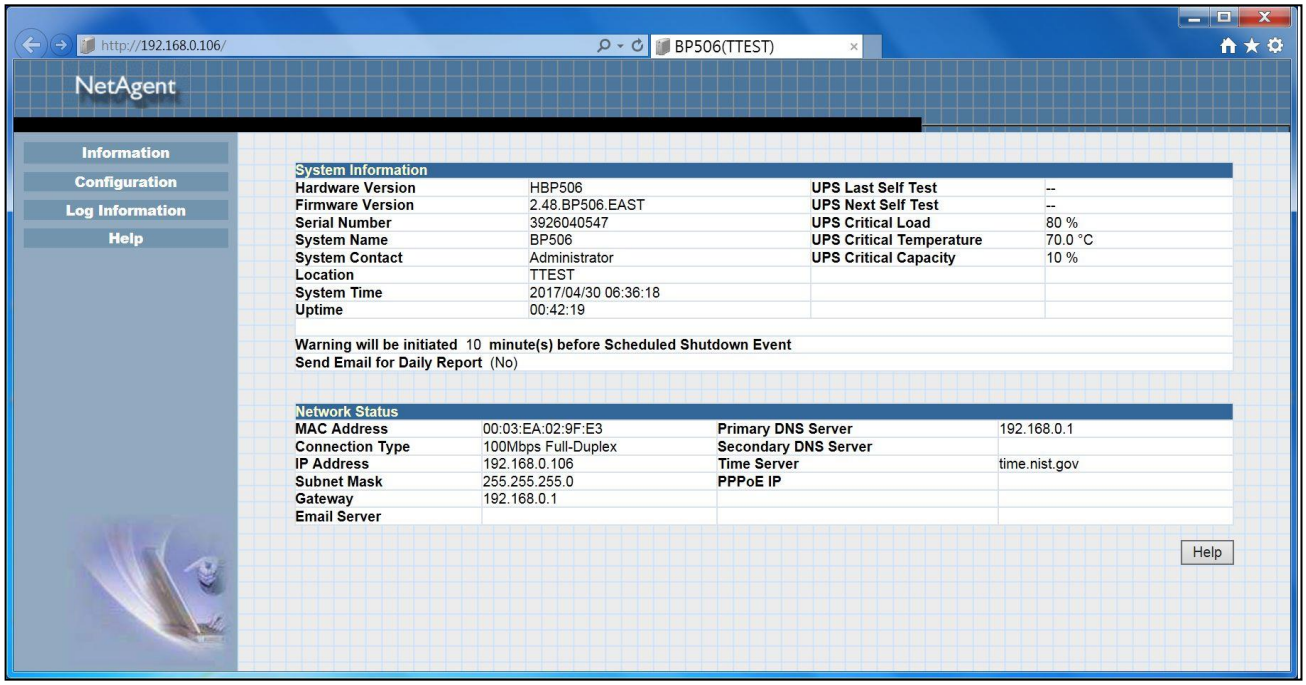
## 4.4 NetAgent Setting

### 4.4.1 Web Interface

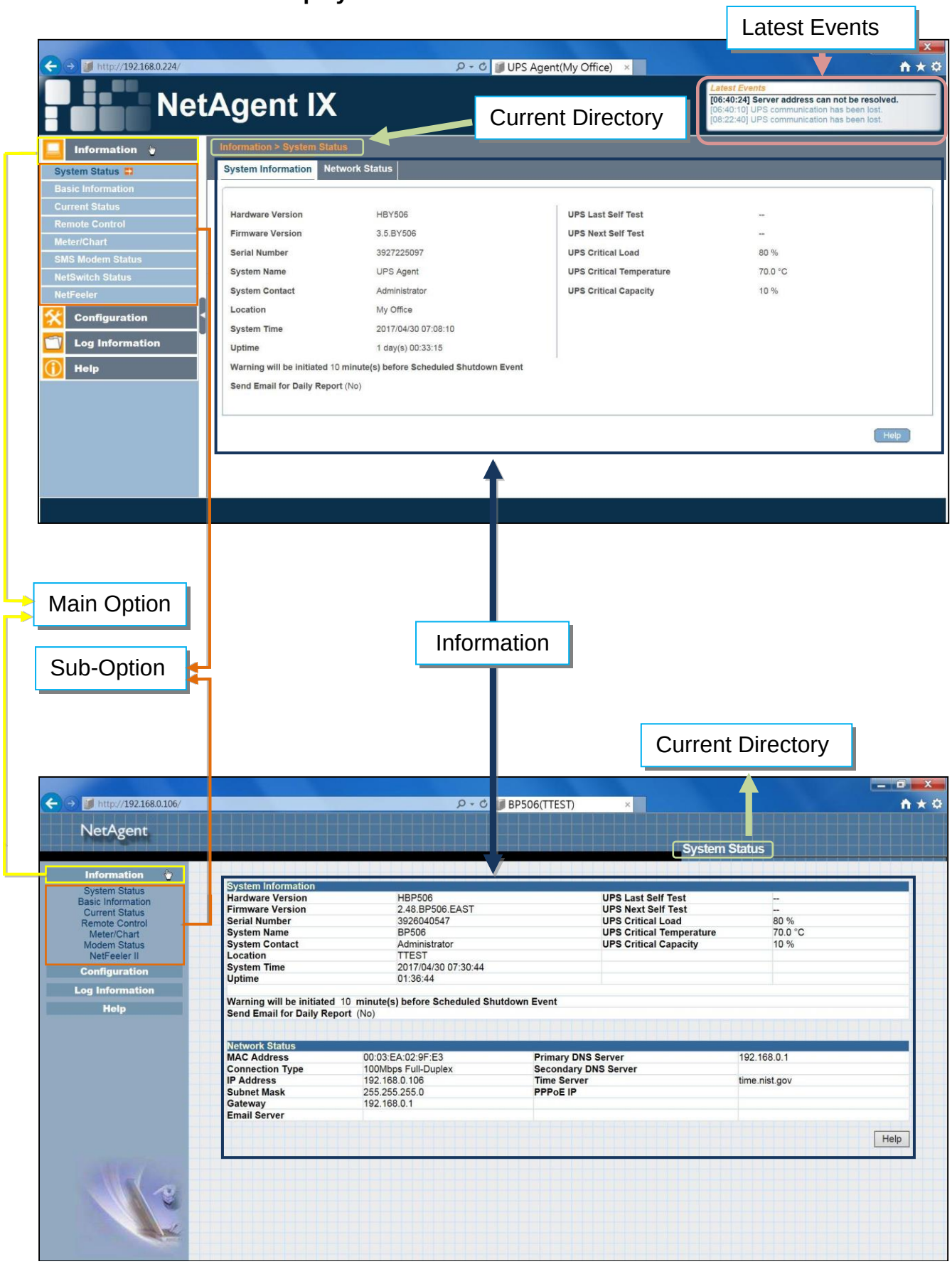
NetAgent 9 Mini & NetAgent 9



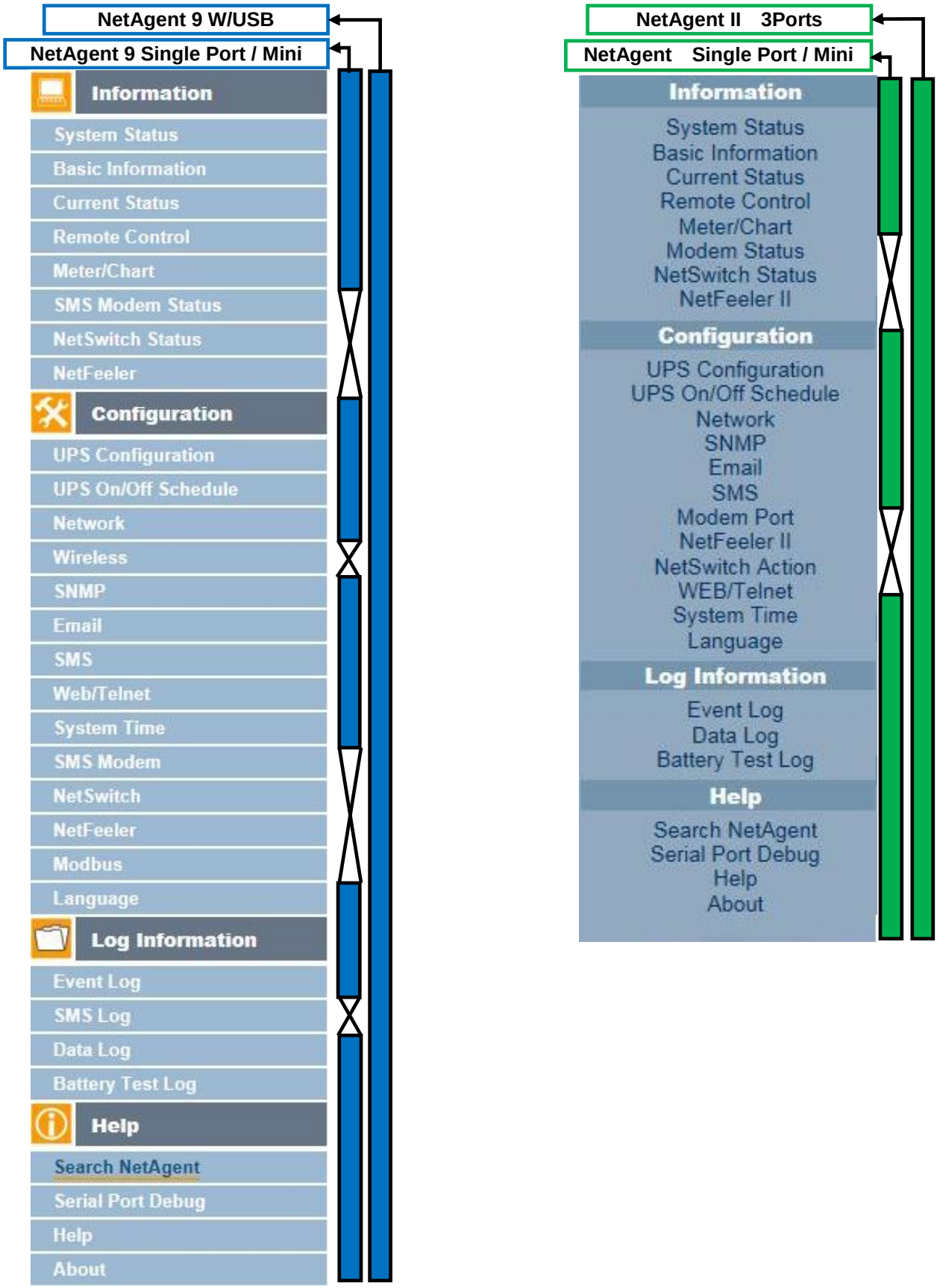

NetAgent Mini & NetAgent II



## ■ Web Interface Display



### 4.4.2 NetAgent Option Directory Structure

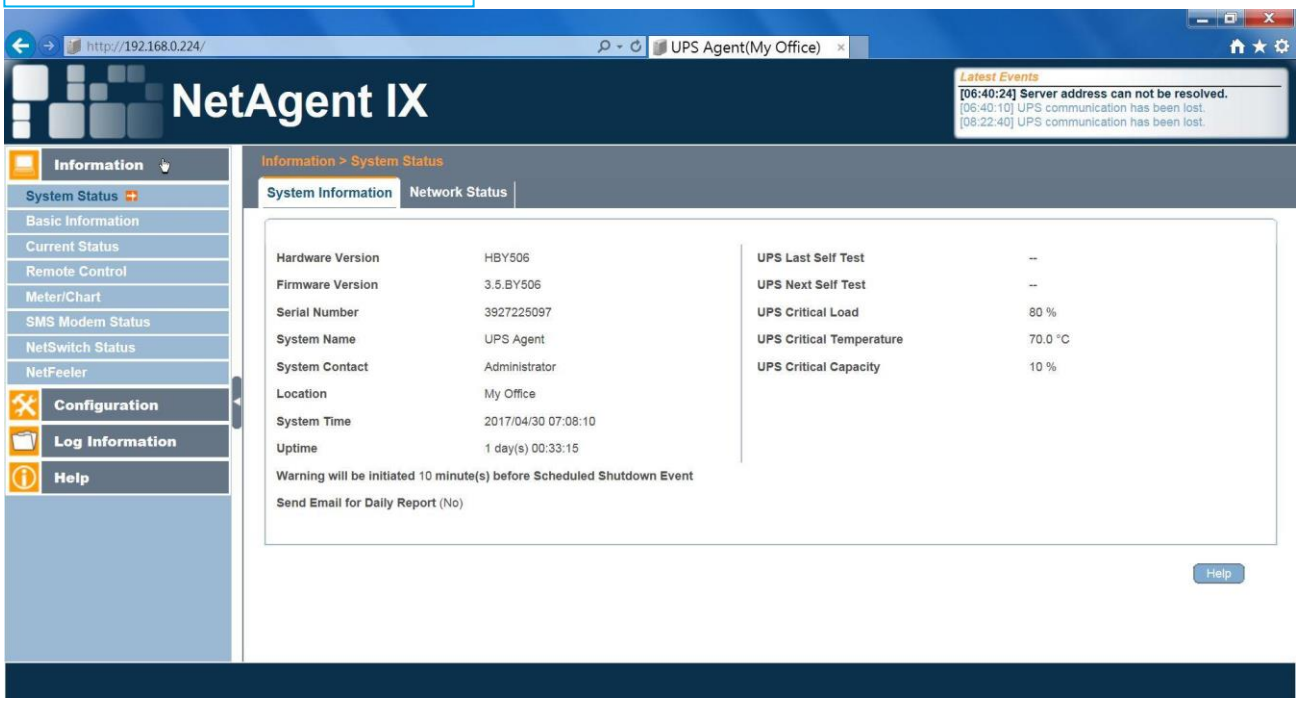


### *4.4.3 NetAgent Setting Options*

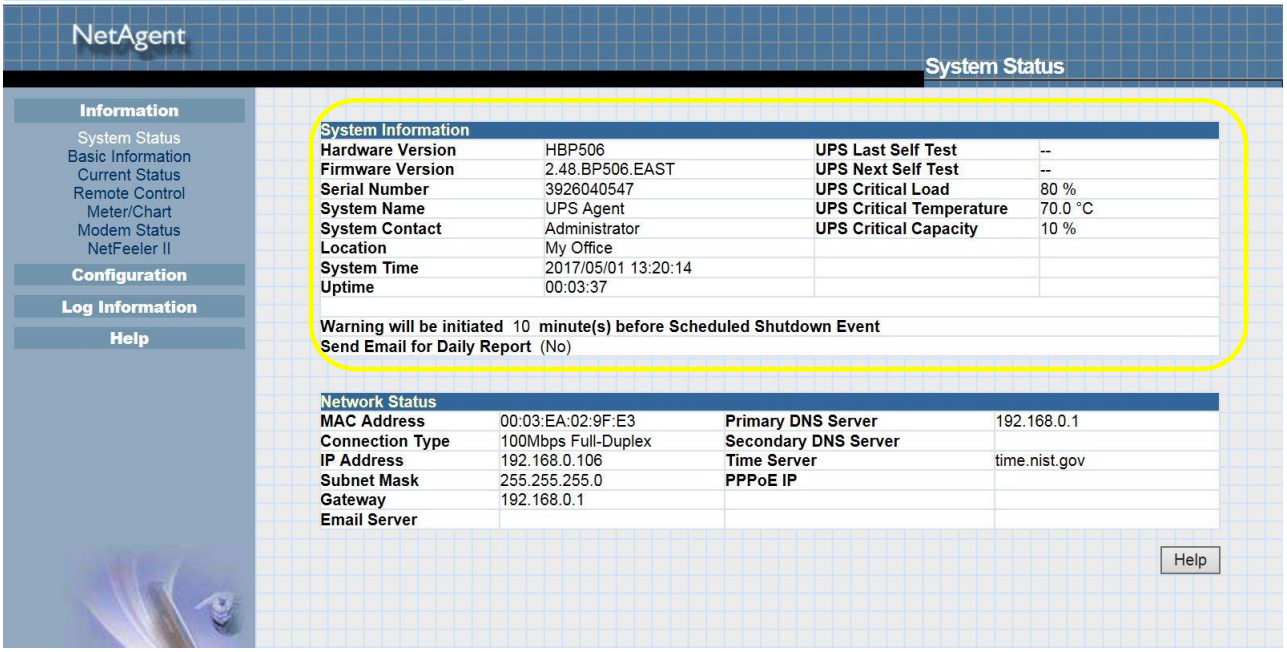
- **Information > System Status**
- **Sysyem Information**

Here shows all the basic information of the NetAgent such as hardware / firmware version; Serial Number; Uptime…etc.

NetAgent 9 Mini & NetAgent 9



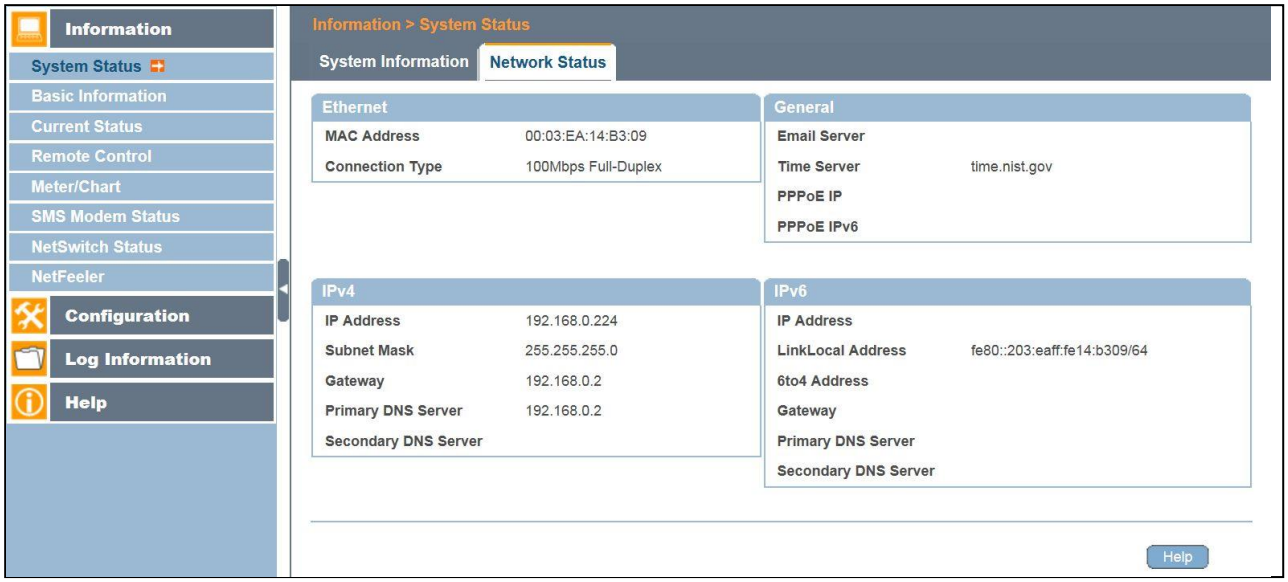

NetAgent Mini & NetAgent II



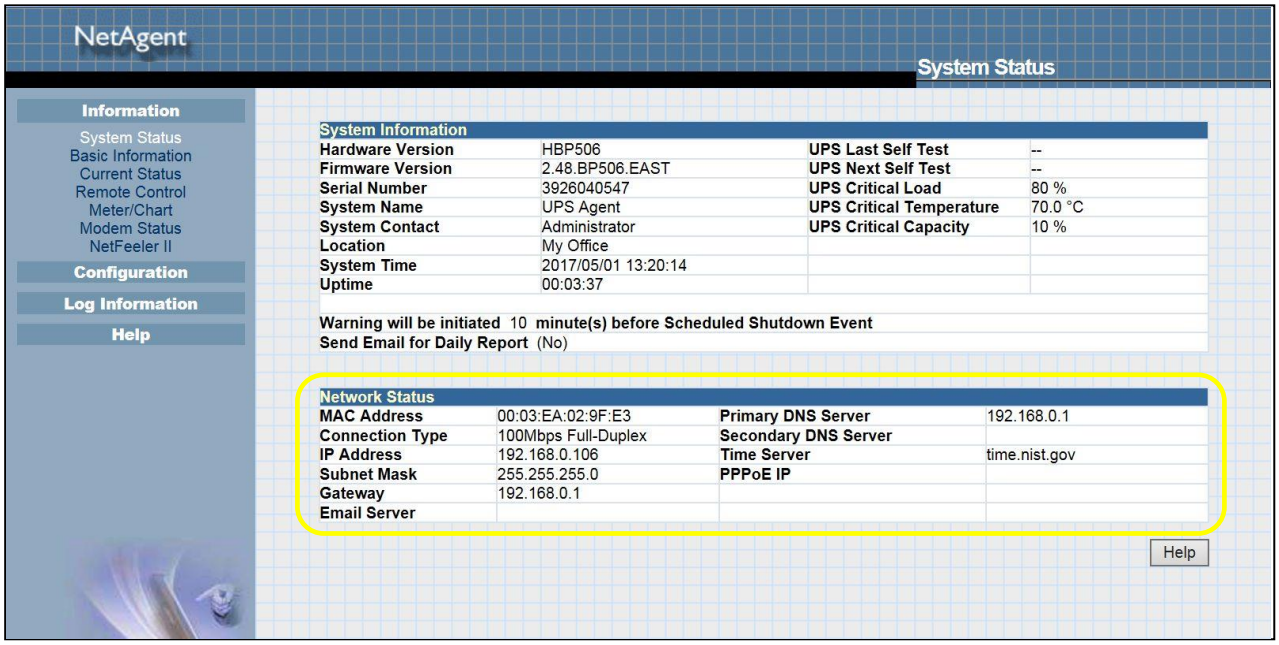
- **Network Status**

This page shows the network information of the NetAgent. With NetAgent9 series which supports IPv6 could work with compatible network appliance.

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II

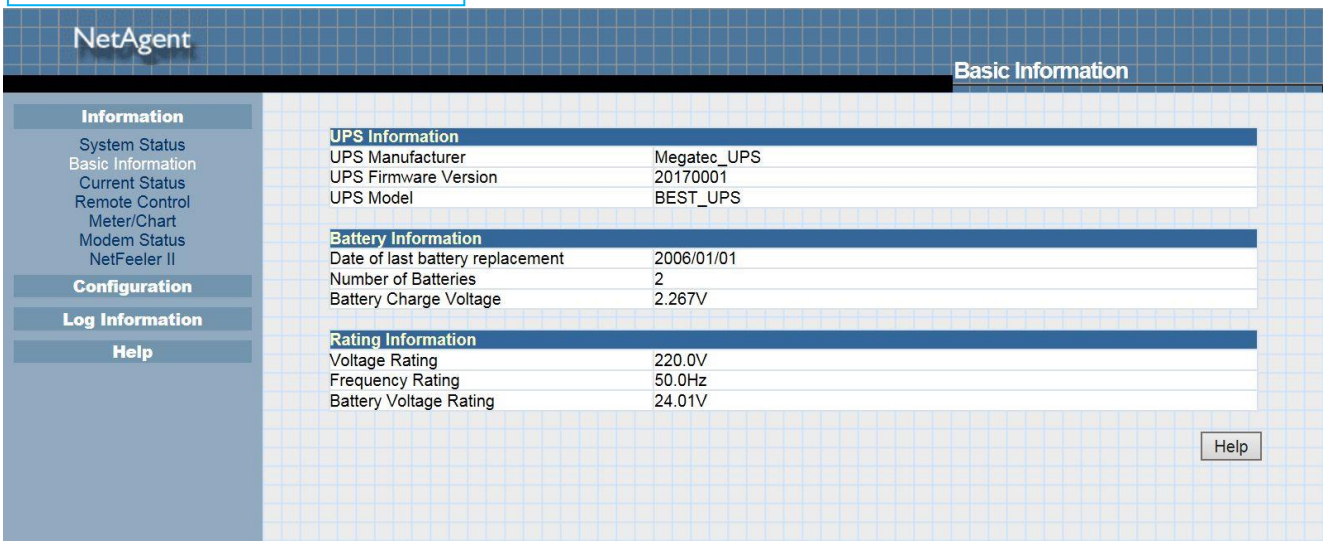


## ■ Information > Basic Information

This page shows UPS information/Battery Information/Rating Information. The data is obtained from the reply of UPS or the settings from [UPS Configuration] webpage

NetAgent 9 Mini & NetAgent 9

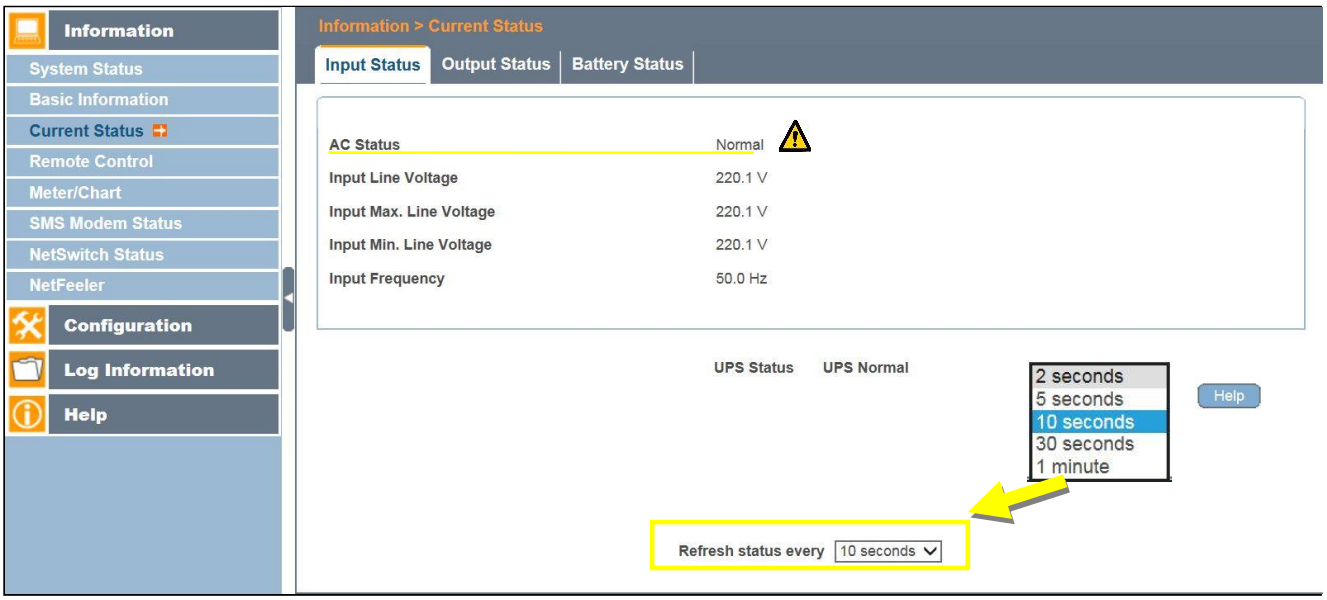
NetAgent Mini & NetAgent II



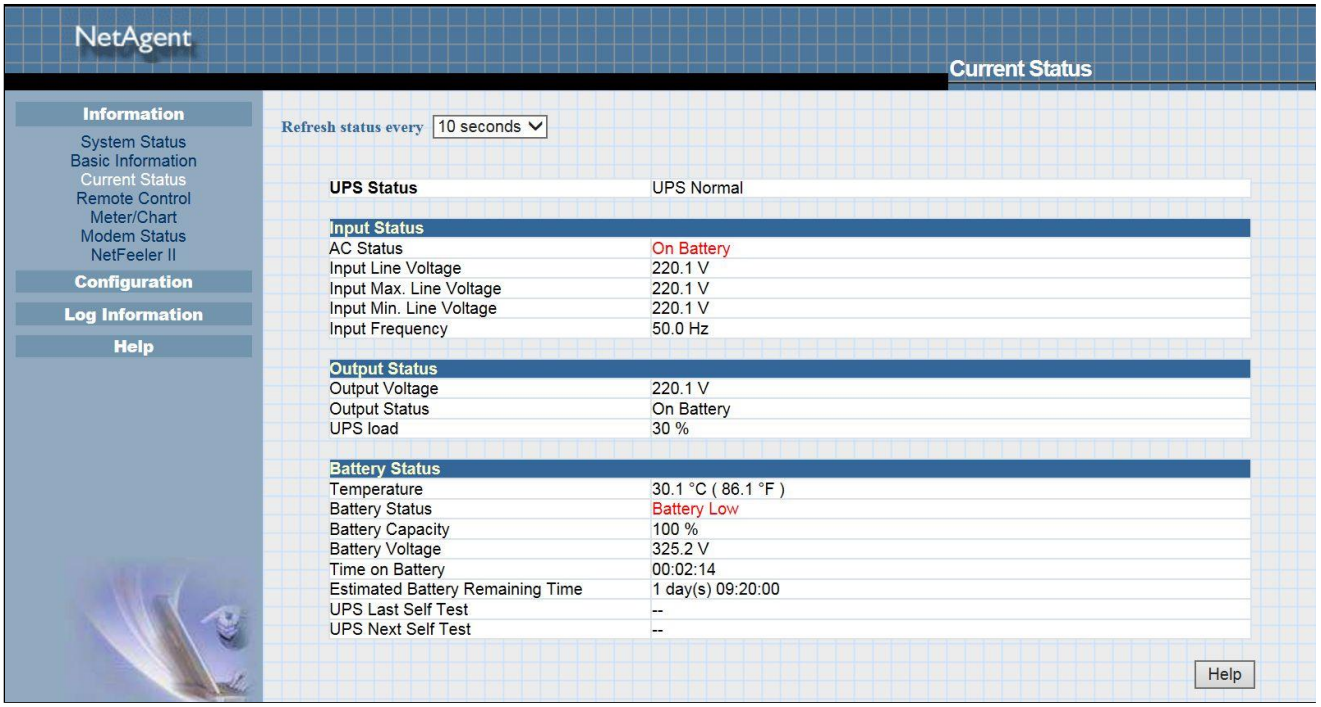
## ■ Information > Current Status

This page shows current UPS Input / Output and Battery Status. Status refresh time can be configured. When abnormal condition occurs, it shows in red.

NetAgent 9 Mini & NetAgent 9



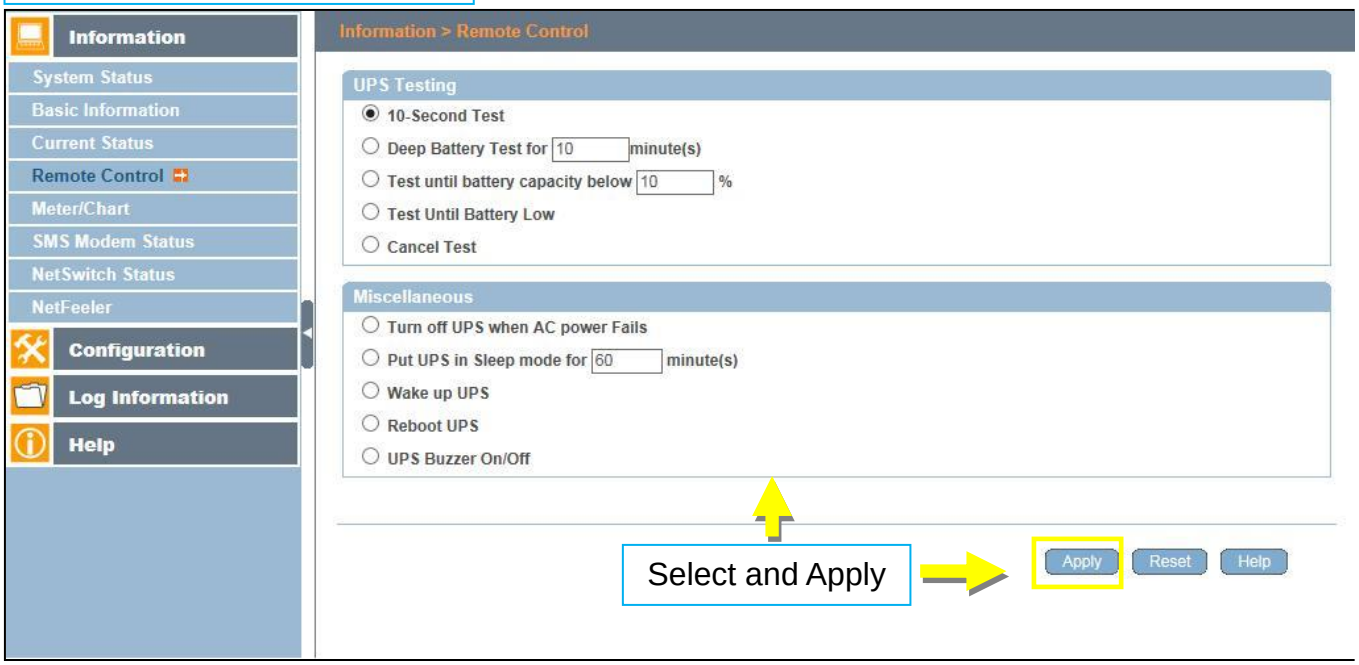

NetAgent Mini & NetAgent II



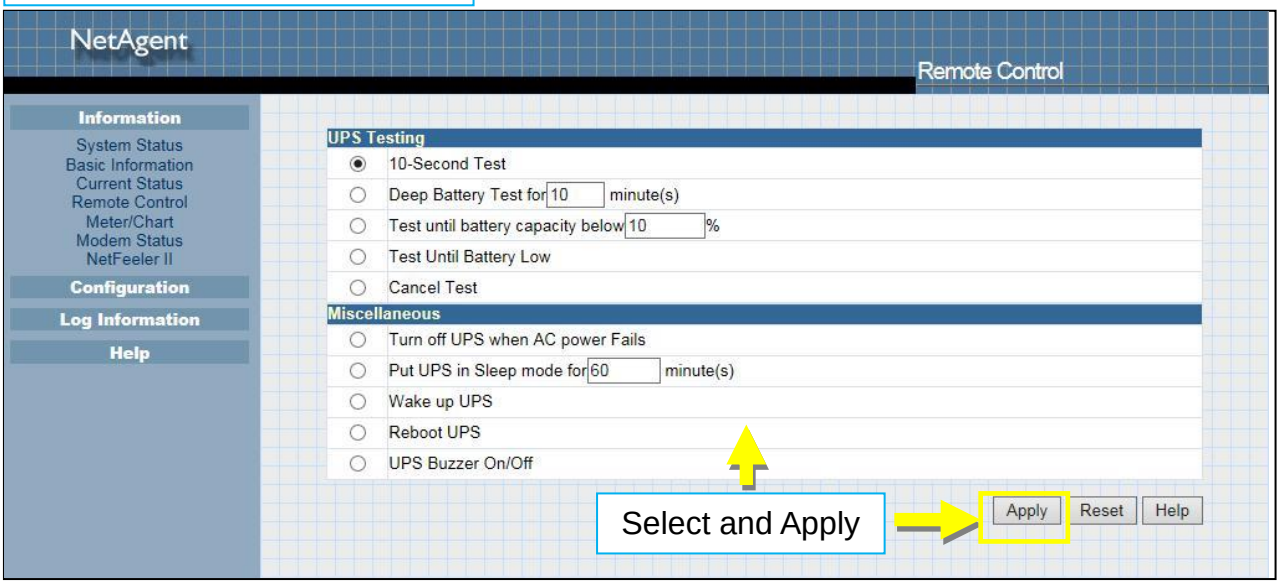
## ■ Information > Remote Control

Here, user can perform several test to the UPS remotely. Once the option is selected, please click on Apply in order to execute it.

NetAgent 9 Mini & NetAgent 9

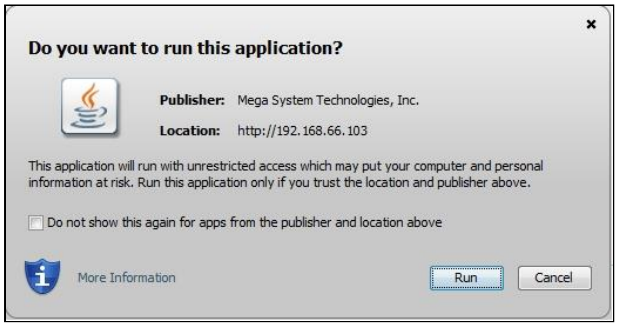



NetAgent Mini & NetAgent II

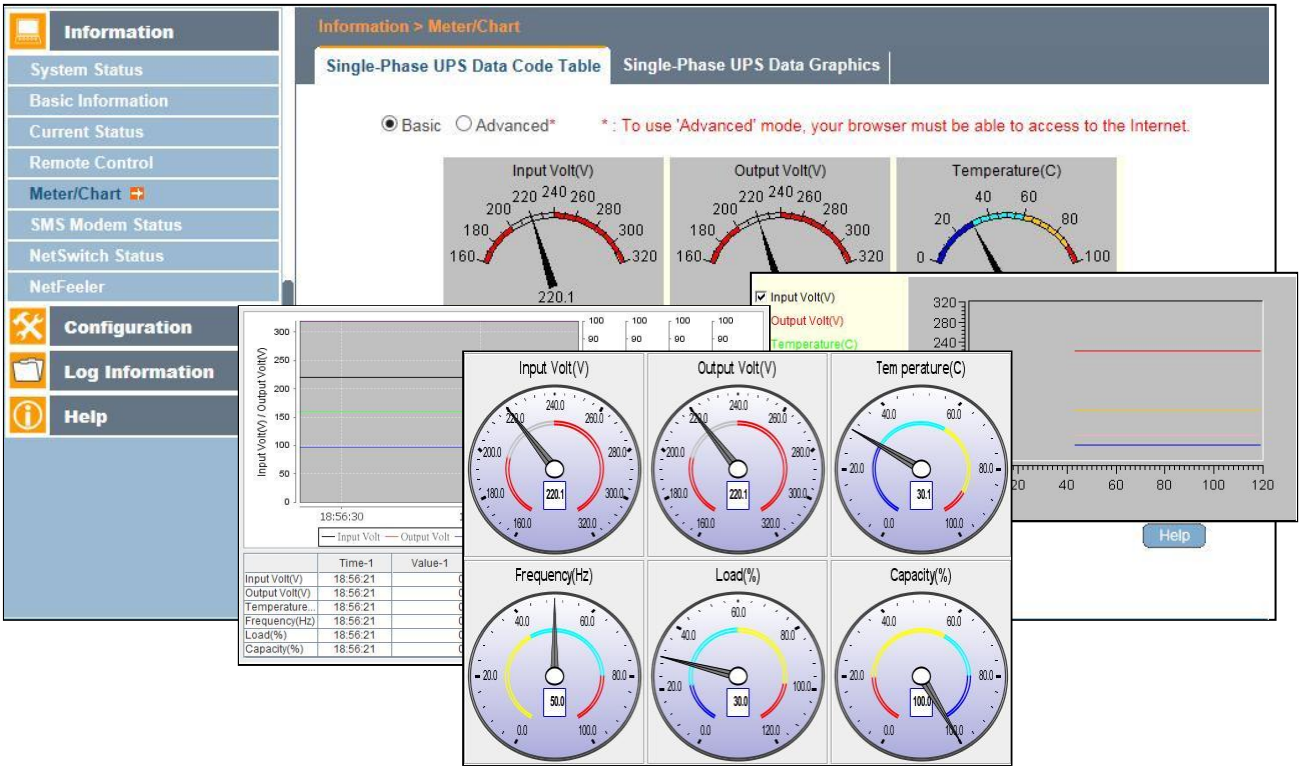


## ■ Information > Meter/Chart

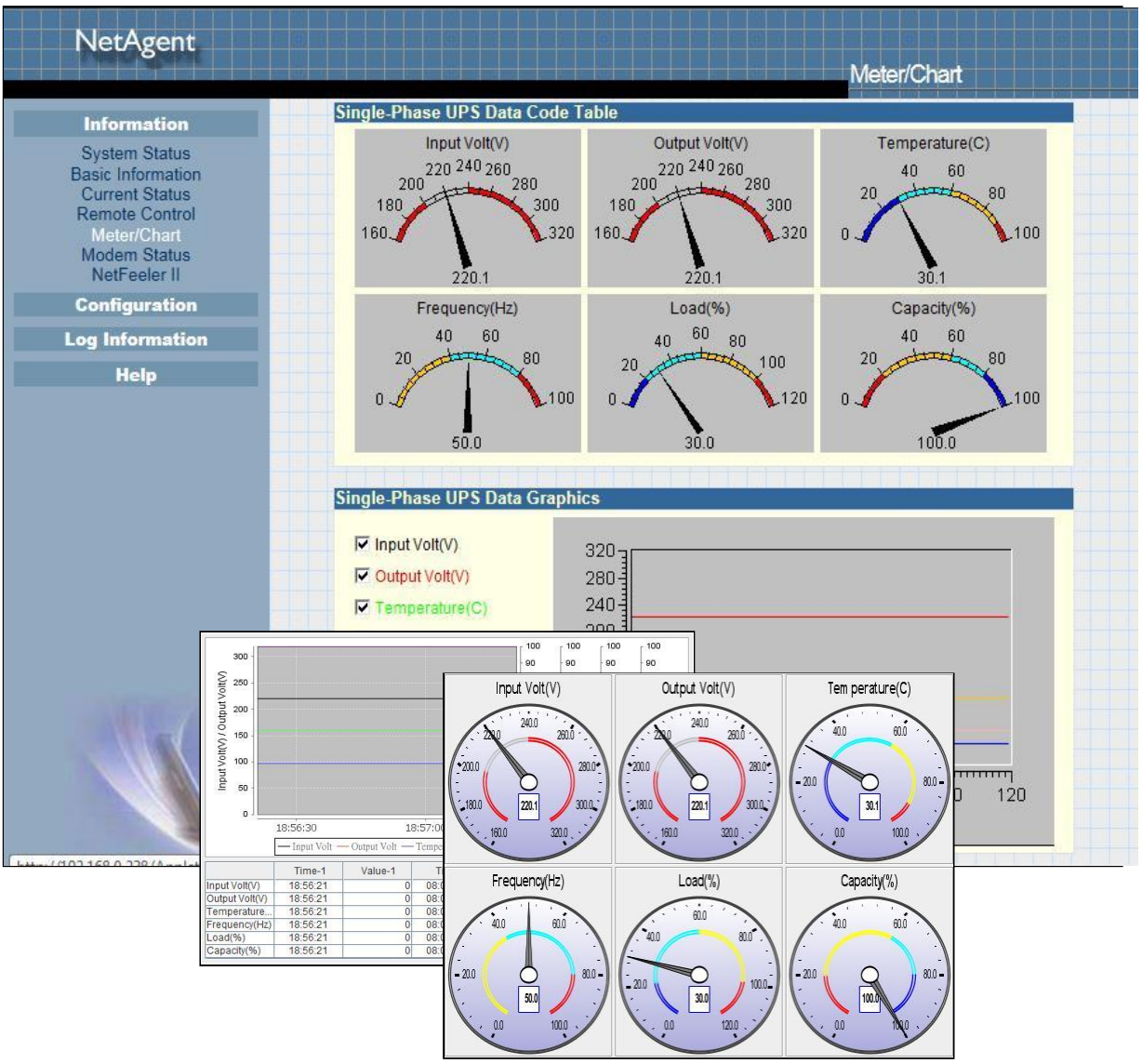
This is to show UPS Input, Output, Temperature,Frequency..etc in graphic or chart. Java is required.




NetAgent 9 Mini & NetAgent 9



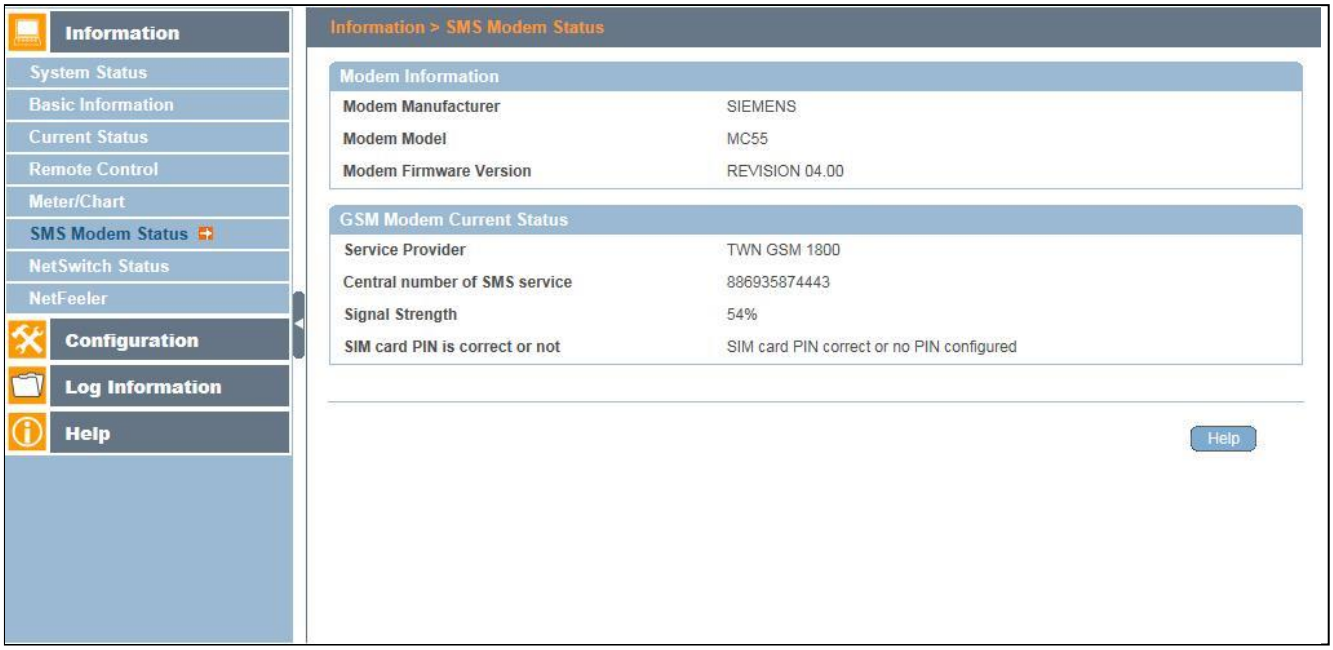
NetAgent Mini & NetAgent II



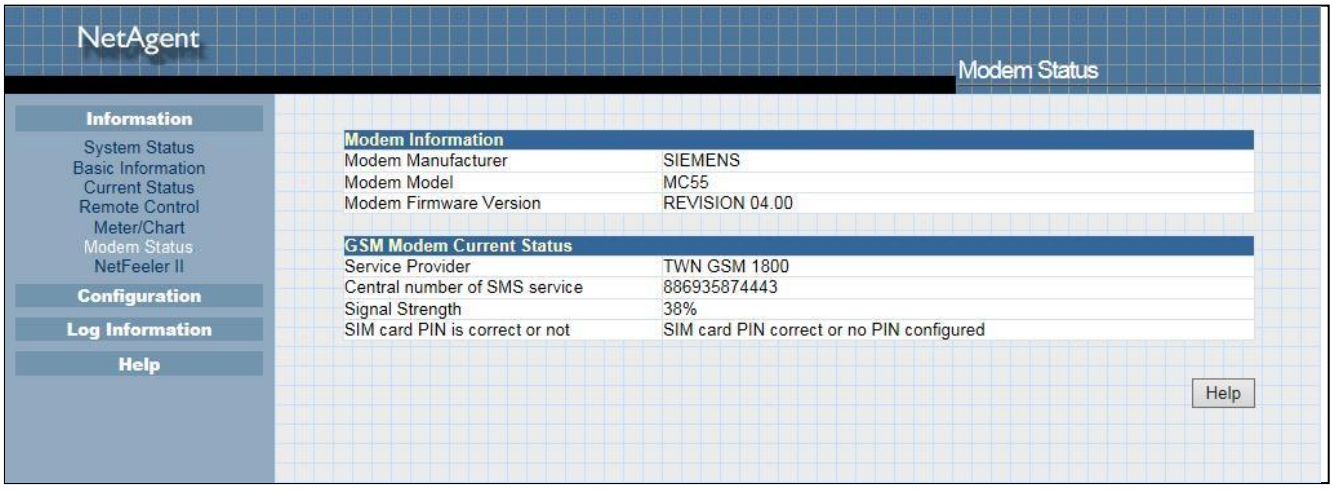
## ■ Information > SMS Modem Status

This page shows the Modem status when GPRS modem is connecting with NetAgent 9 or NetAgent II (3 Ports)

NetAgent 9



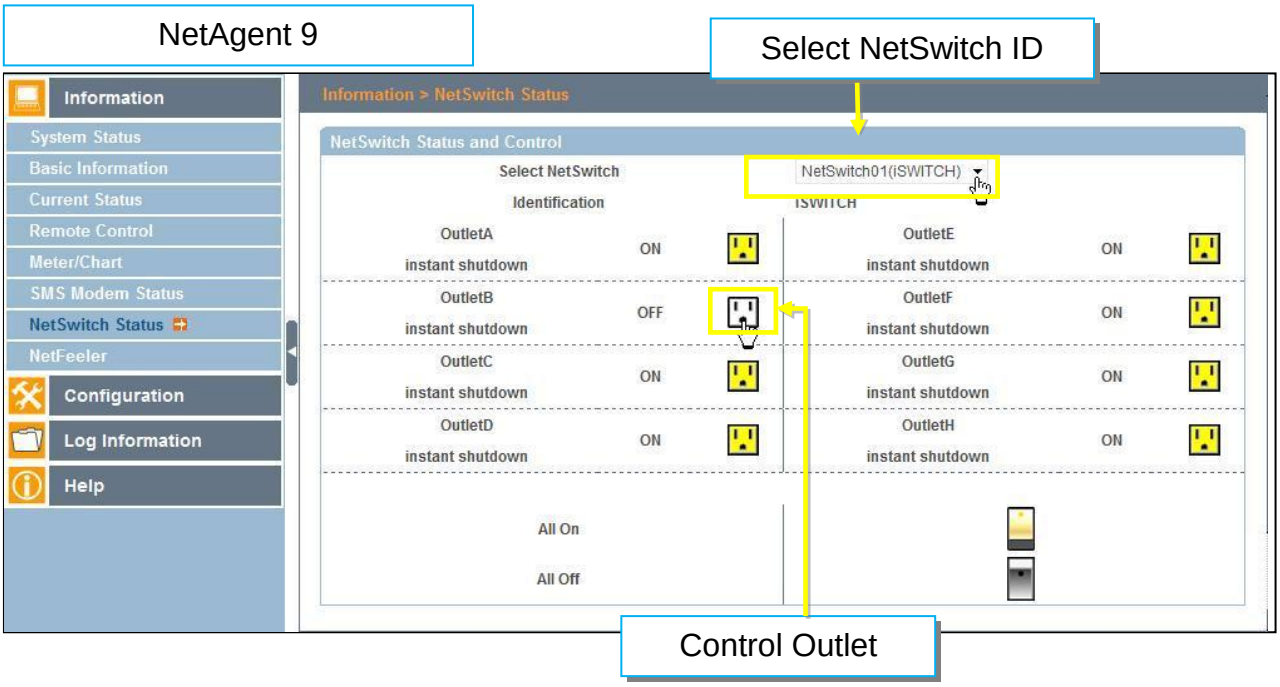

NetAgent II 3 Ports



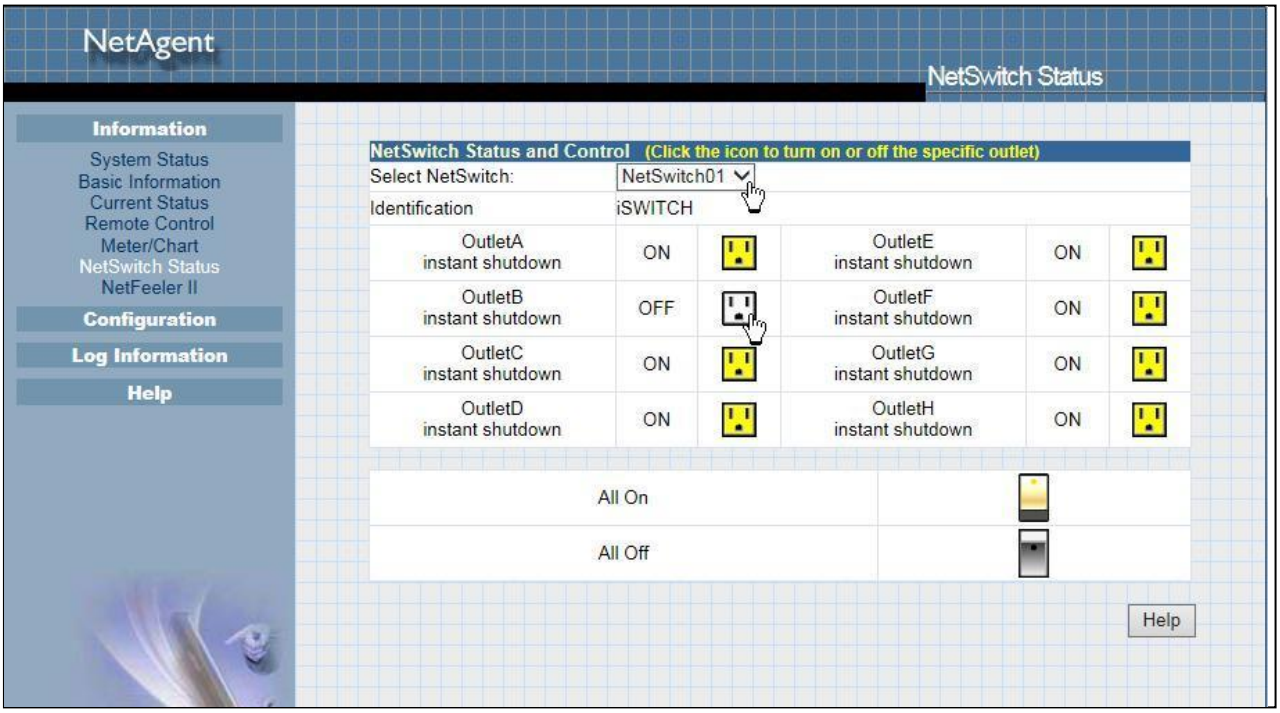
## ■ Information > NetSwitch Status

If NetAgent connects with our NetSwitch to control outlet remotely, this page shows the status of each outlet and each outlet can be turn On/Off manually

NetAgent 9



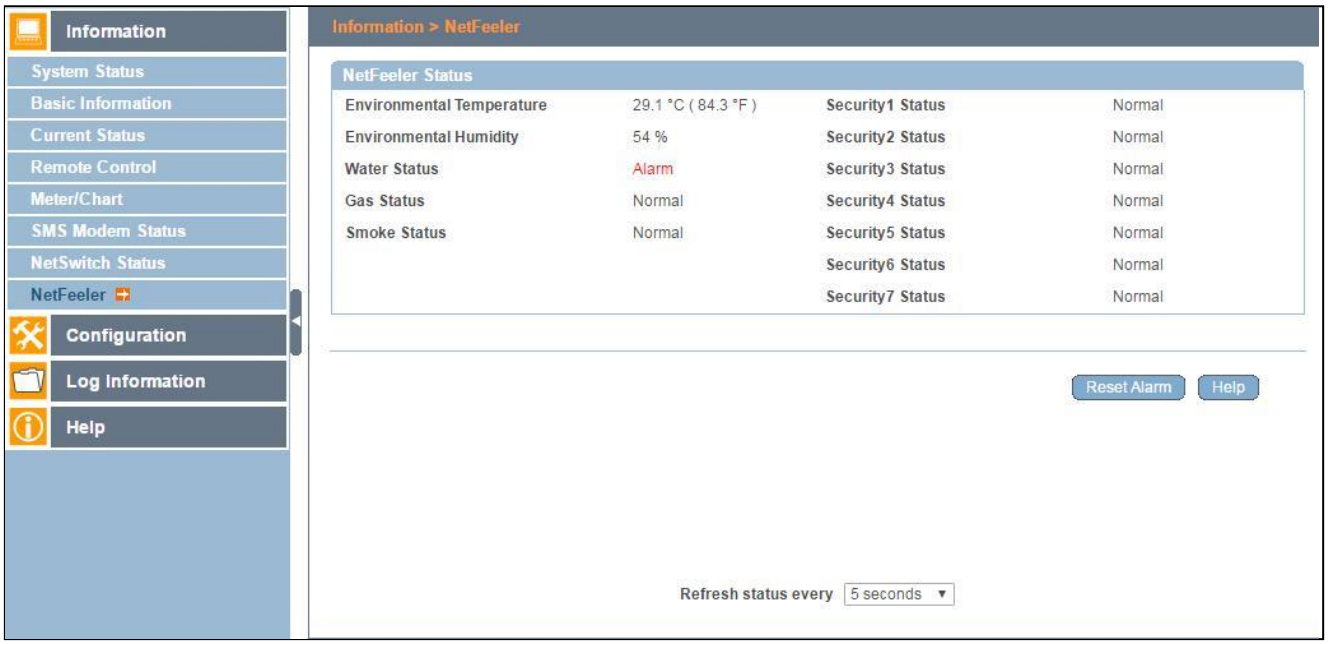

NetAgent II 3 Ports



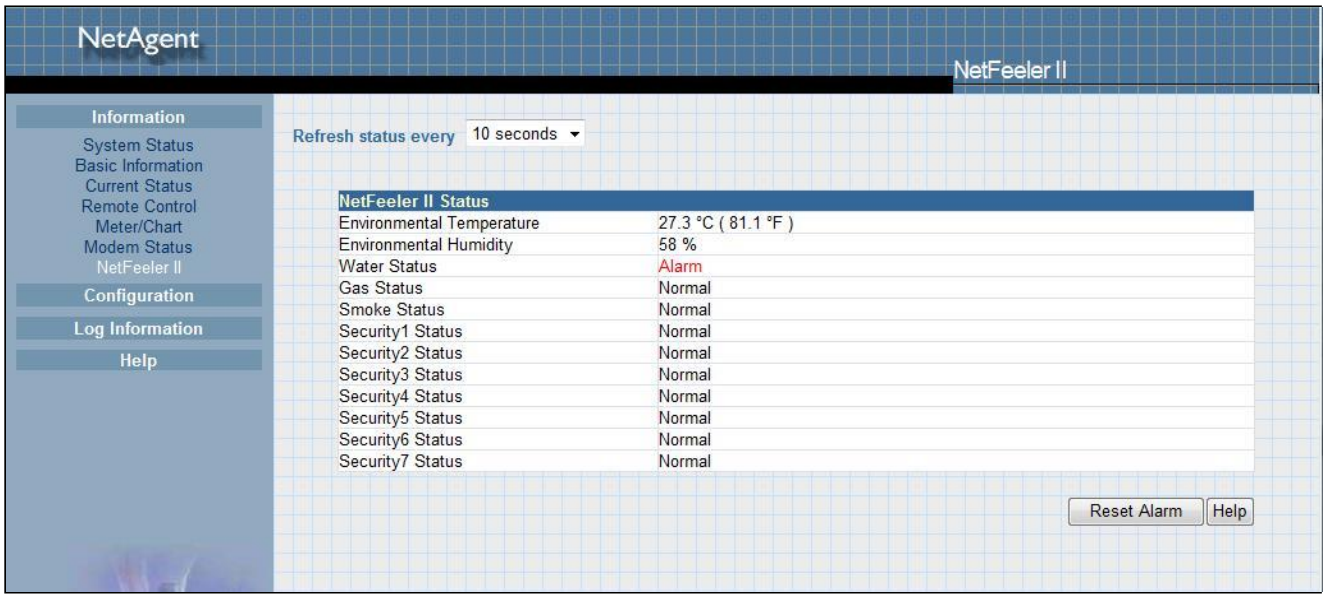
## ■ Information > NetFeeler (NetFeeler II)

This page shows the environmental status when NetFeeler/ NetFeeler II and its accessories are connected with NetAent.

NetAgent 9 3PORTS




NetAgent II 3 Ports



■ **Configuration > UPS Configuration**

- UPS Properties (Please refer to your UPS specification)

*UPS Communication Type:*

In order to let NetAgent and UPS to establish the communication, select the compatible protocol which your UPS supported from the list. Wrong protocol selected would cause no communication at all. (Megatec is default protocol)

*Number of Batteries* :

Enter the number of battery that the UPS has.

*Battery Full Charge Voltage (V)* :

Enter the number of the full charged voltage per battery cell. (2.267 is default, this is recommended not to be change)

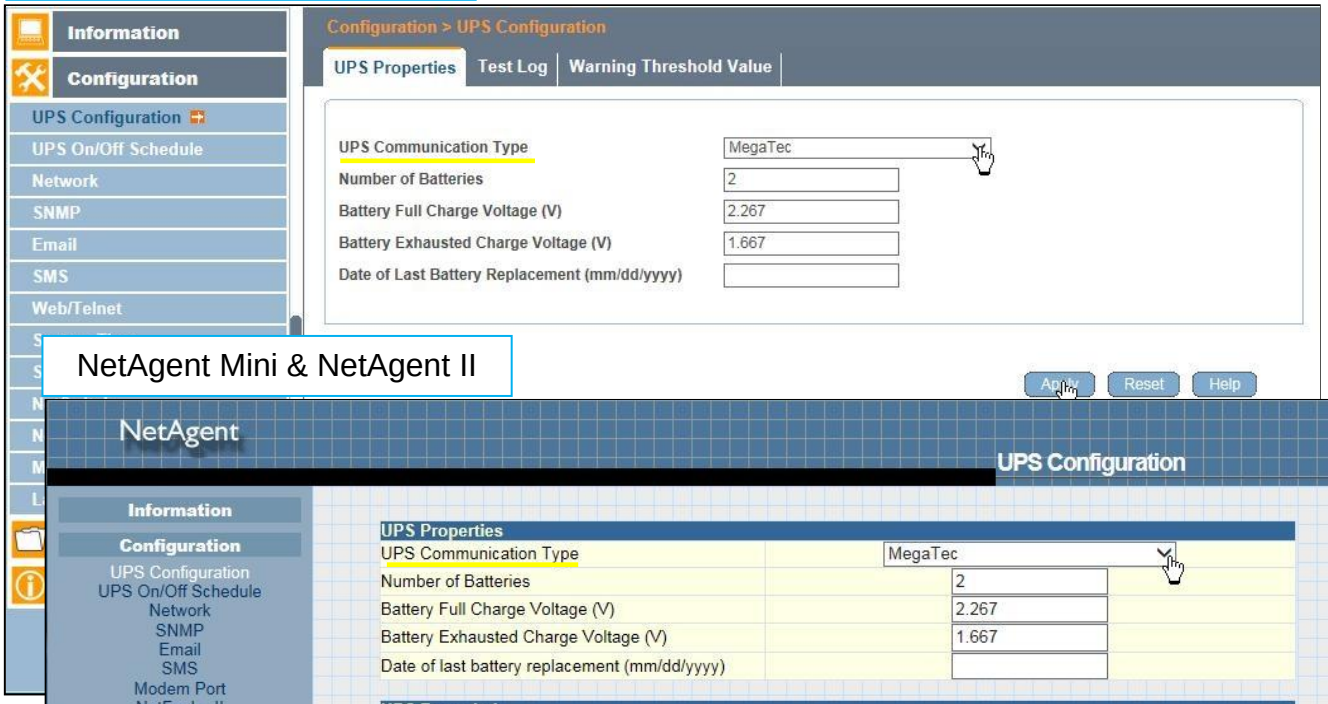
*Battery Exhausted Charge Voltage(V)* :

Enter the number of exhausted voltage per battery cell. (1.667 is default, this is recommended not to be change)

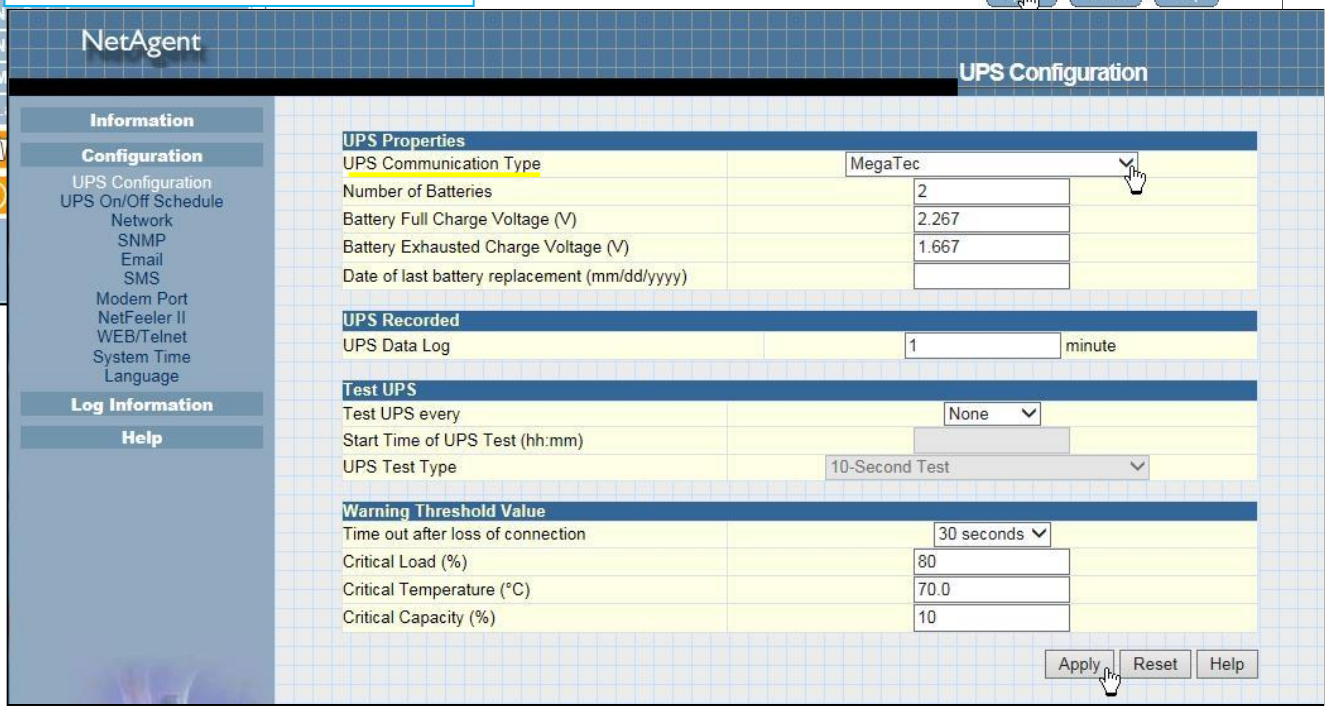
*Date of Last Battery replacement(mm/dd/yyyy)* :

Enter the date of last battery replacement for record

NetAgent 9 Mini & NetAgent 9



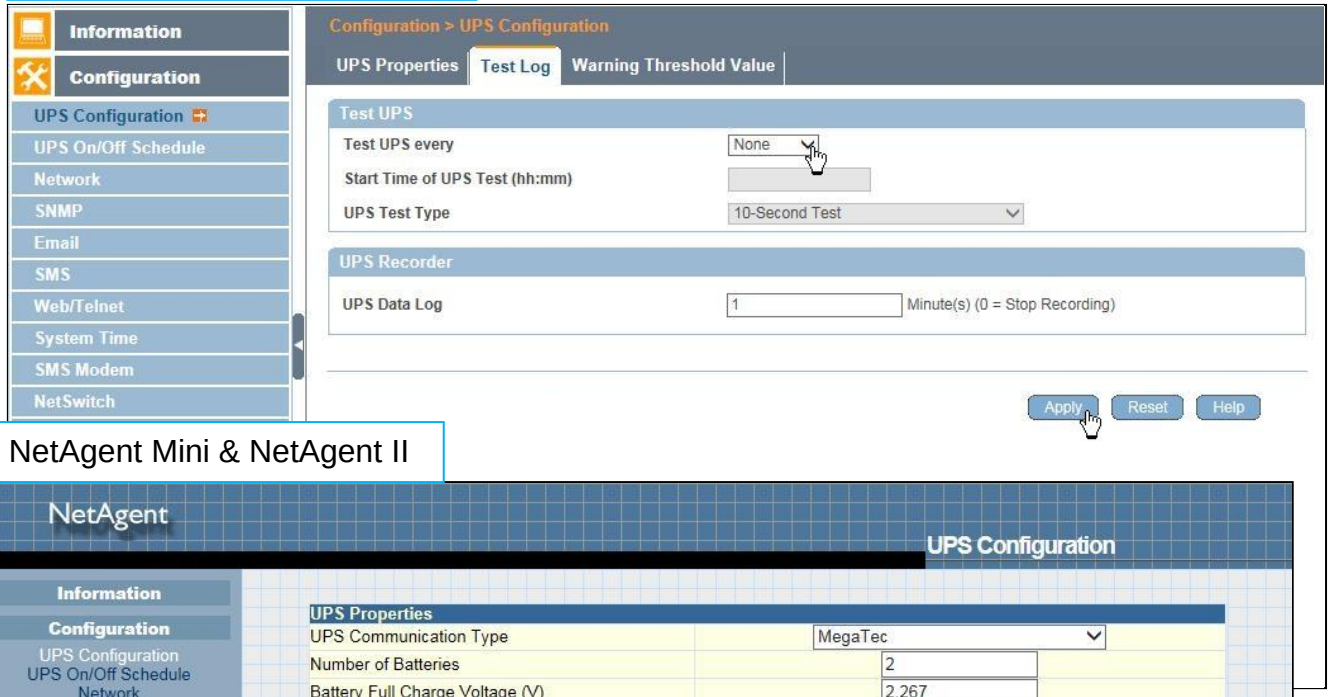

NetAgent Mini & NetAgent II



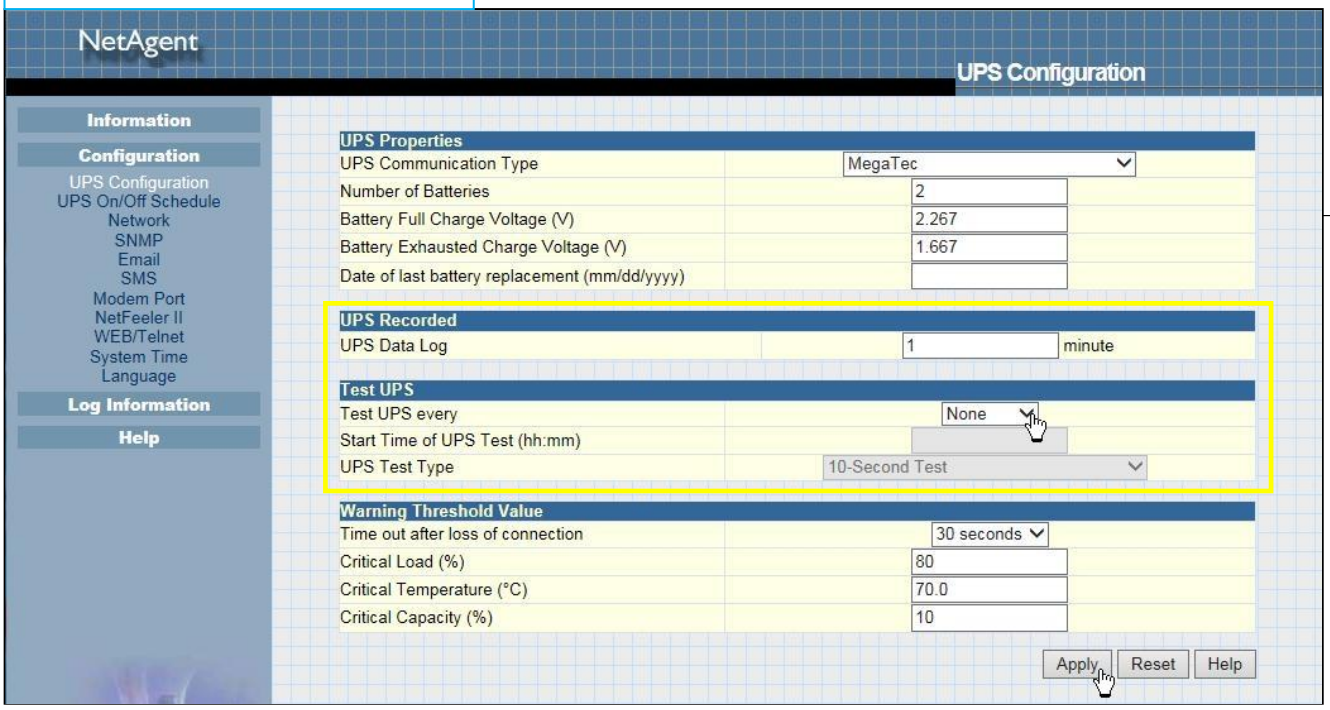
- Test Log

*Test UPS Every* :
Week /2 Weeks/ Month / Quarter UPS can be selected
*Start Time of UPS Test (hh:mm)* :
To enter the time to begin the test
*UPS Test Type* :
Test option can be select from the drop down list
*UPS Data Log* :
To enter the time interval to refreshing data

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



- Warning Threshold Values

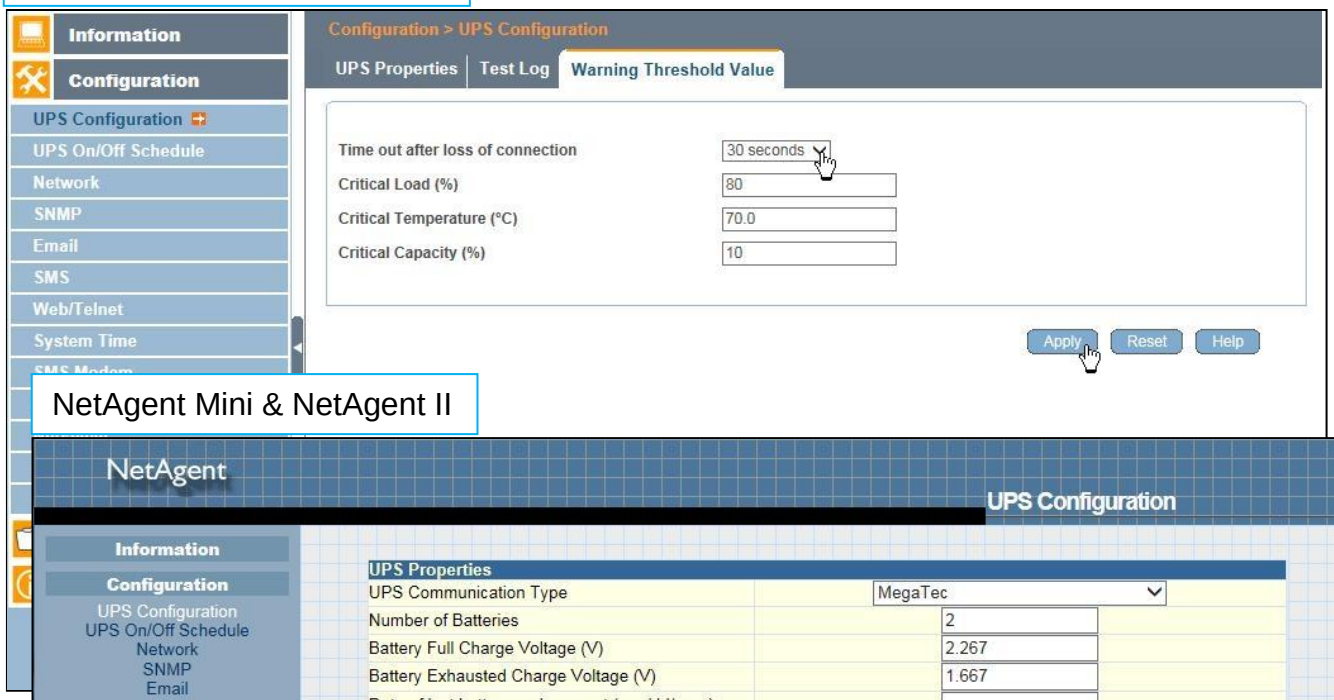
Time out after loss of connection：
Send warning alarm when NetAgent and UPS lost connection at this configured time
Critical Load(%)：
When loading reaches at this % configured, NetAgent will send warning alarm

UPS Temperature (℃)：
When UPS temperature reaches at this degree configured, NetAgent will send warning alarm

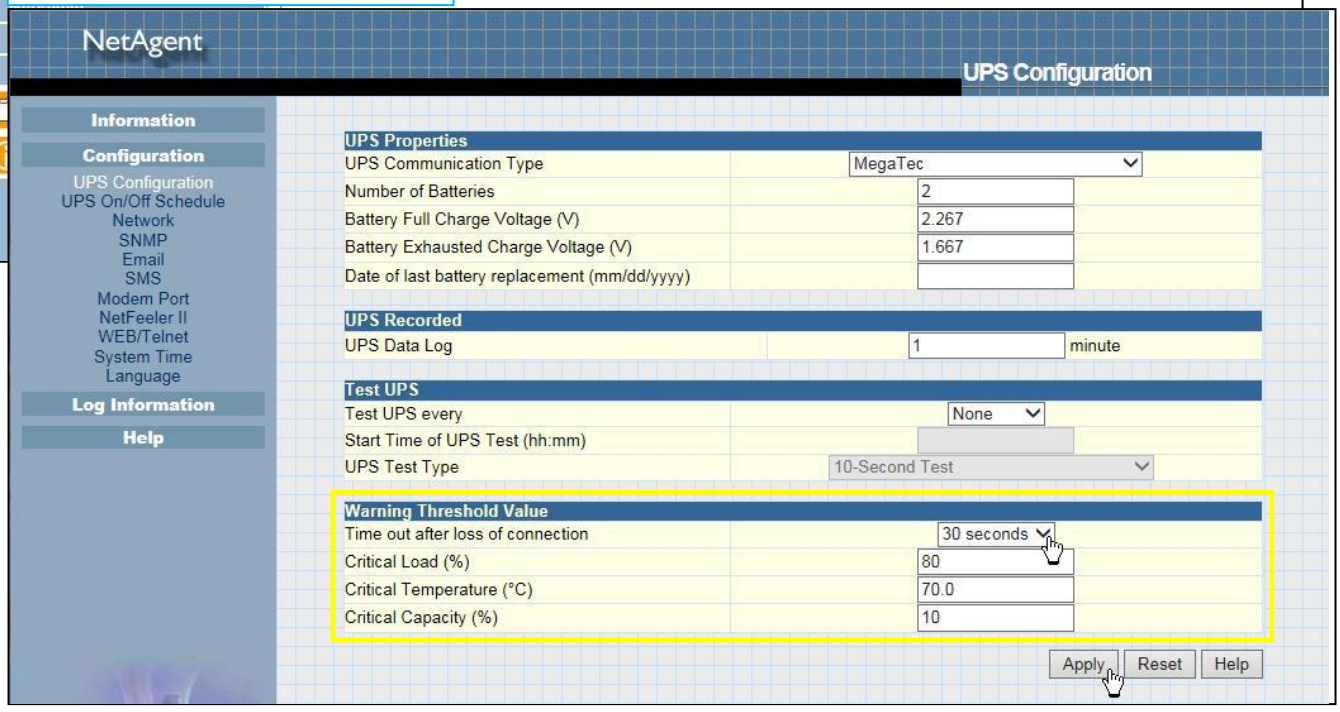
Critical Capacity (%)：

When UPS battery capacity reaches at this % configured, NetAgent will send warning alarm

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II

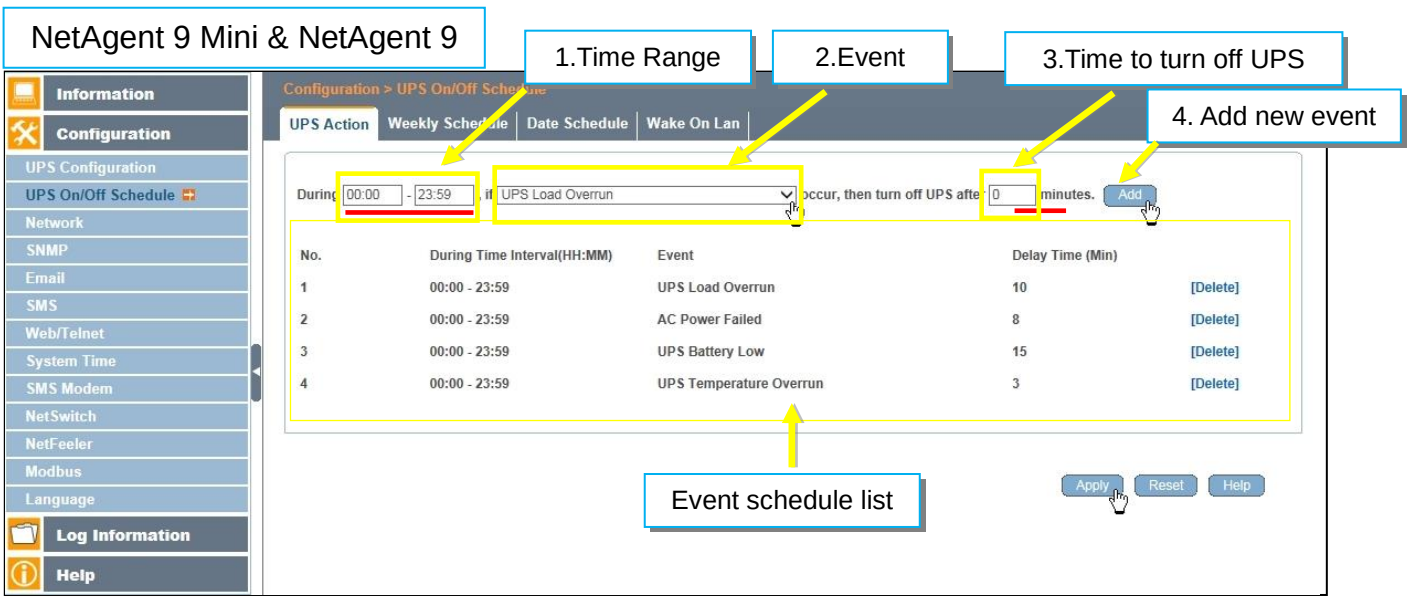


## ■ Configuration > UPS On/Off Schedule

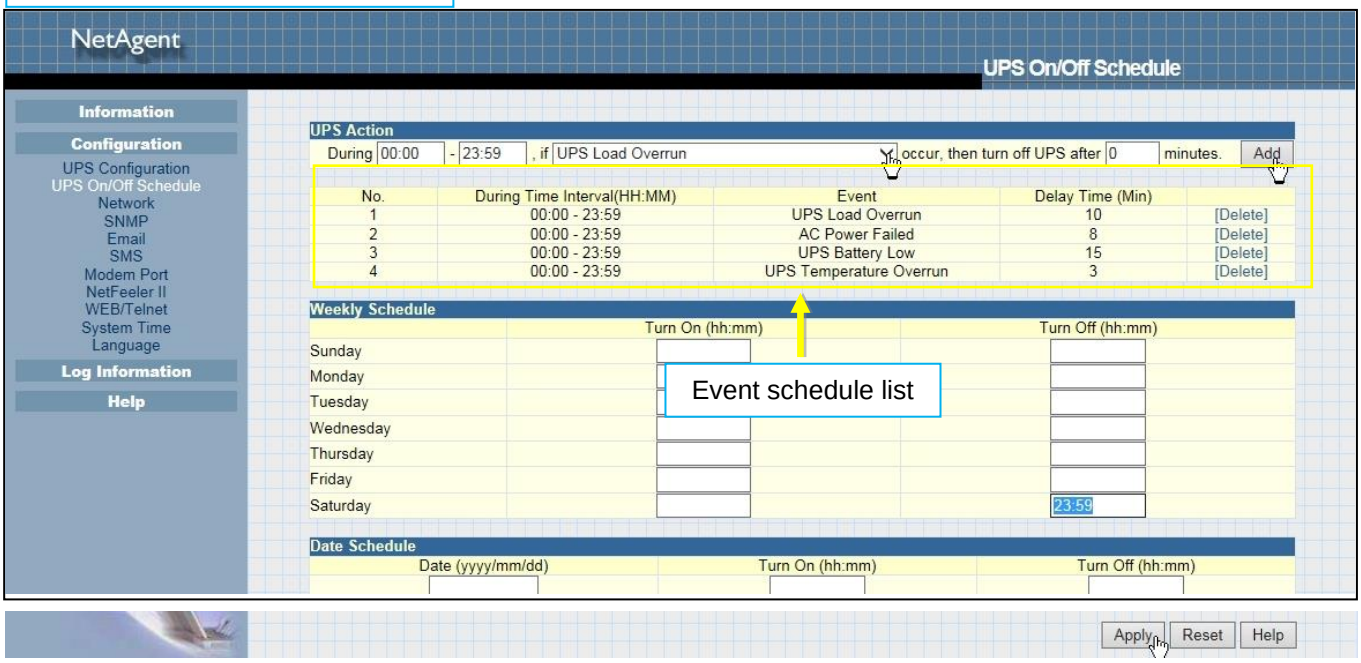
- UPS Action

When selected event happens at configured time range, UPS will be shut down

NetAgent 9 Mini & NetAgent 9



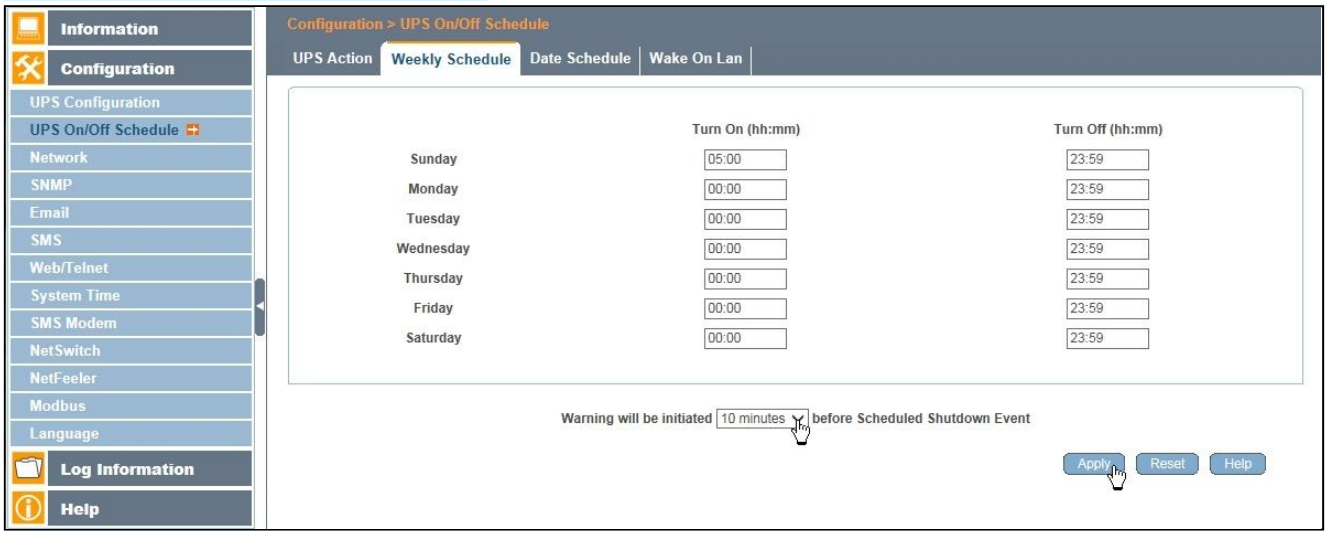

NetAgent Mini & NetAgent II



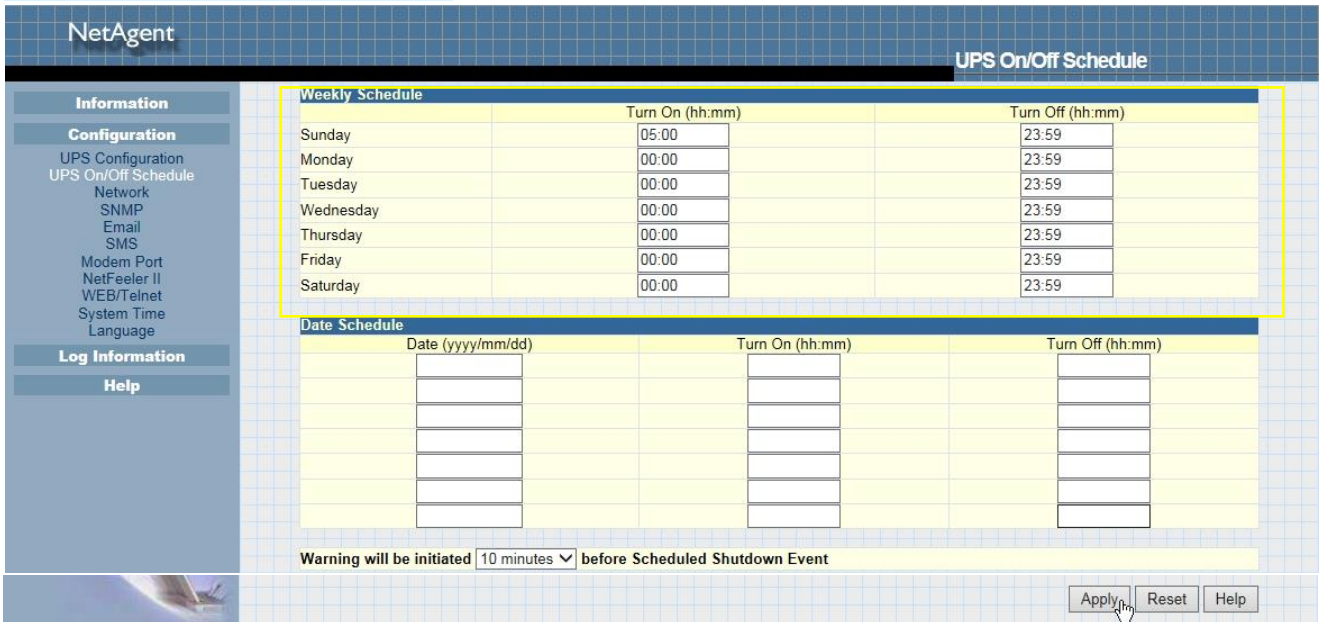
- Weekly Schedule

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

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



- Date Schedule

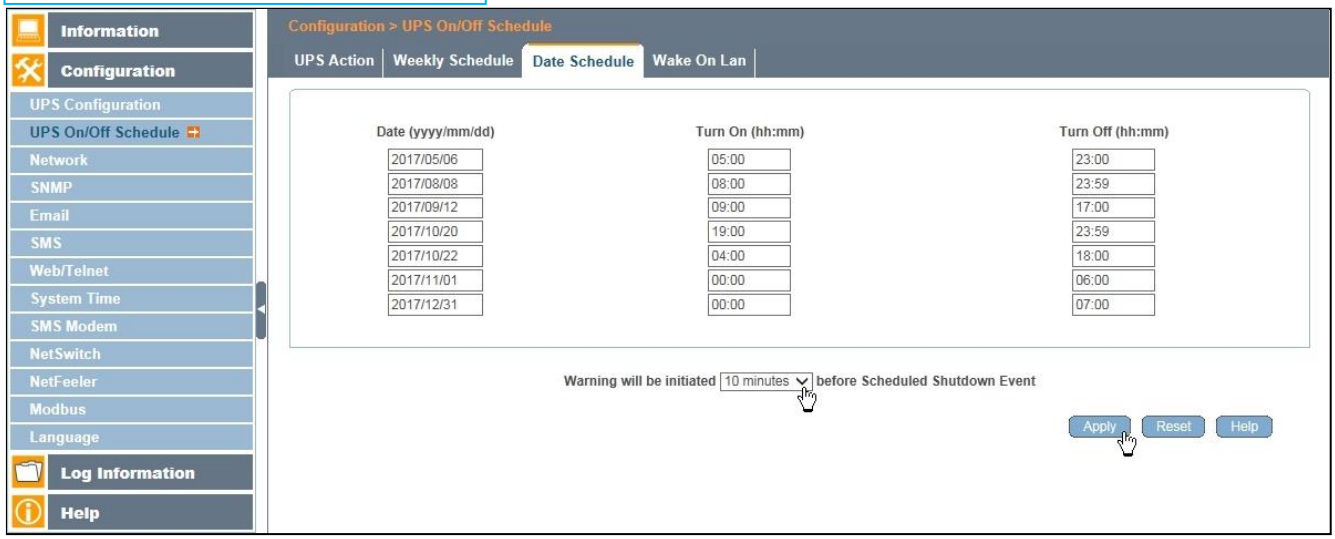
This section is to set the time to turn on/off the UPS on particular days.

(e.g, holidays.) The settings here override the settings in **Weekly Schedule**.

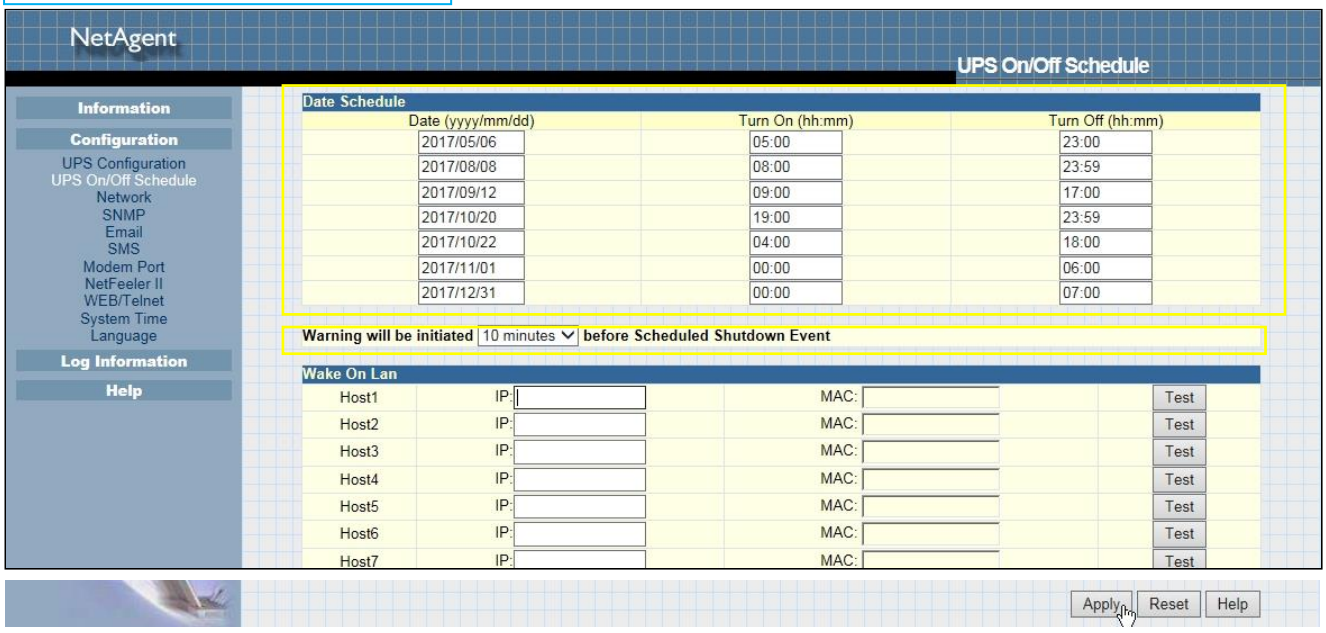
**Warning will be initiated _ before Schedule shutdown event**

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.

NetAgent 9 Mini & NetAgent 9



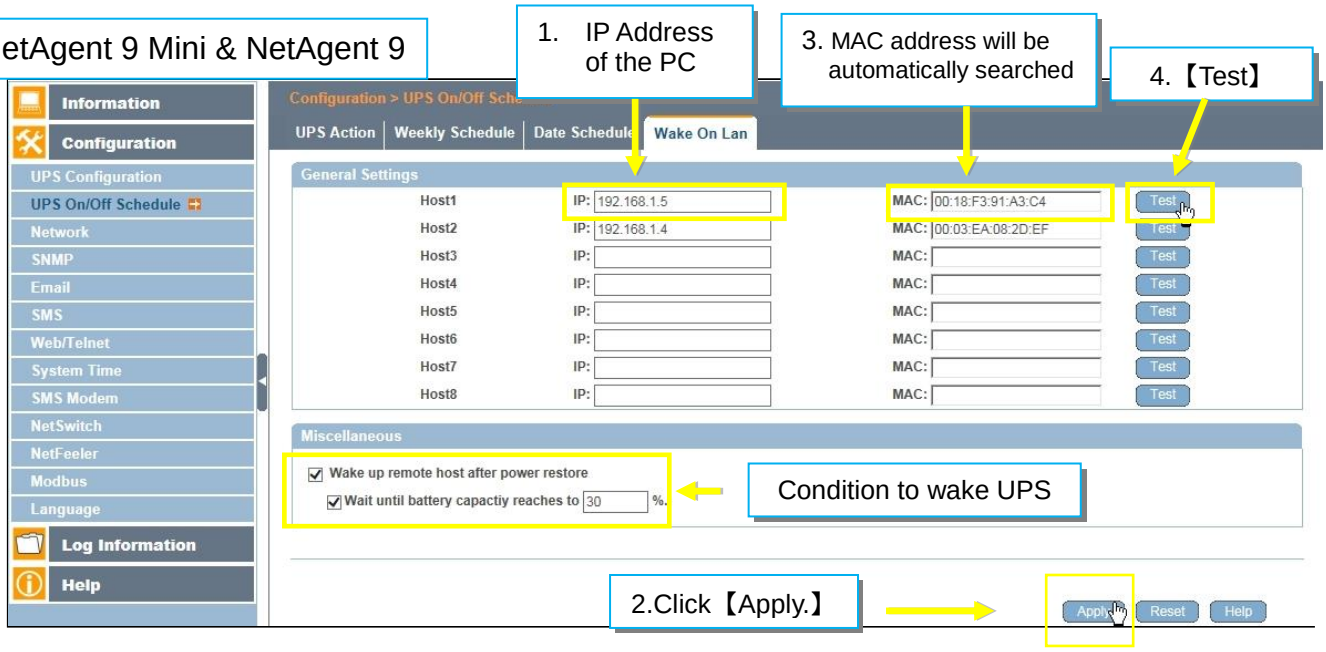

NetAgent Mini & NetAgent II



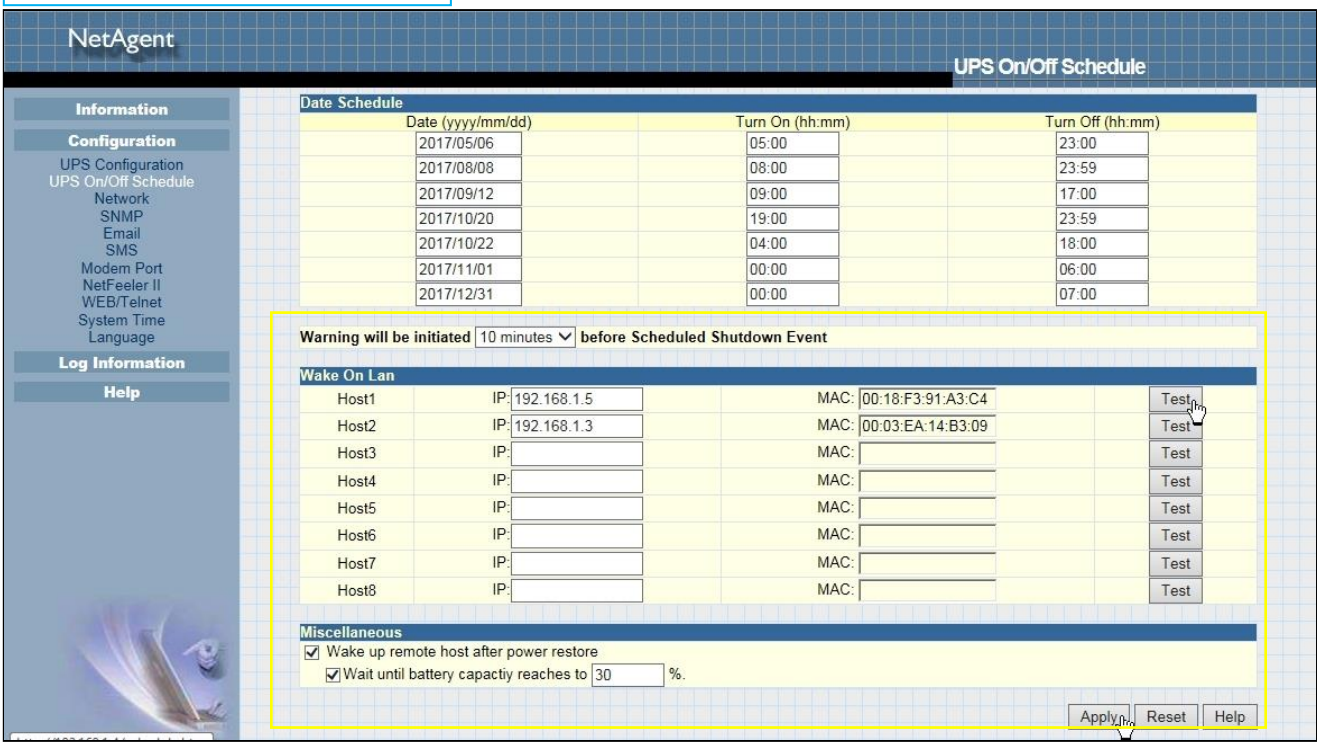
- Wake On Lan

This section is to wake the PC within the network when AC recovery, or, when battery capacity reaches at configured %. (Make sure the PC has such function supported and configure as “Enabled” under BIOS.) Enter the IP address of that PC and system would search its IP accordingly.

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



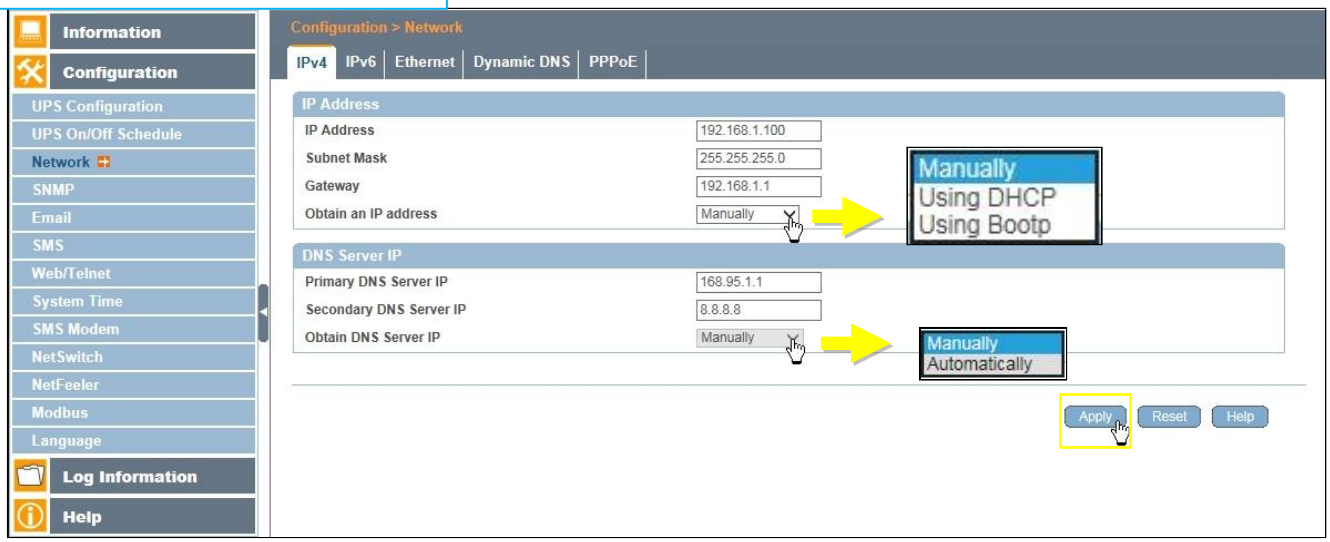
## ■ Configuration > Network

This page is to set NetAgent Network settings.

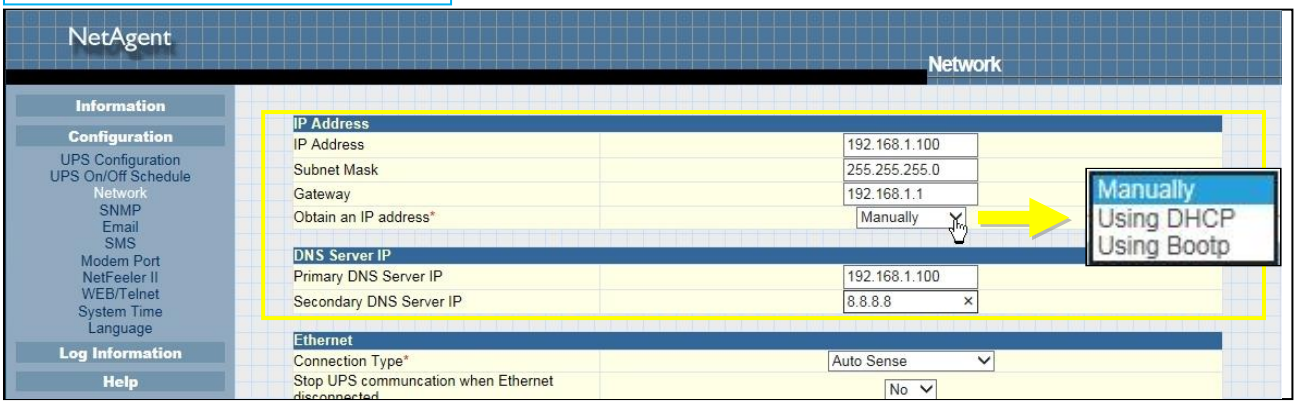
- IPv4

NetAgent and DNS IP address can be obtain by drop down list with option of Manually , Using DHCP, or Bootp. If the IP address and DNS has been configured on Netility, then info will automatically show here

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II

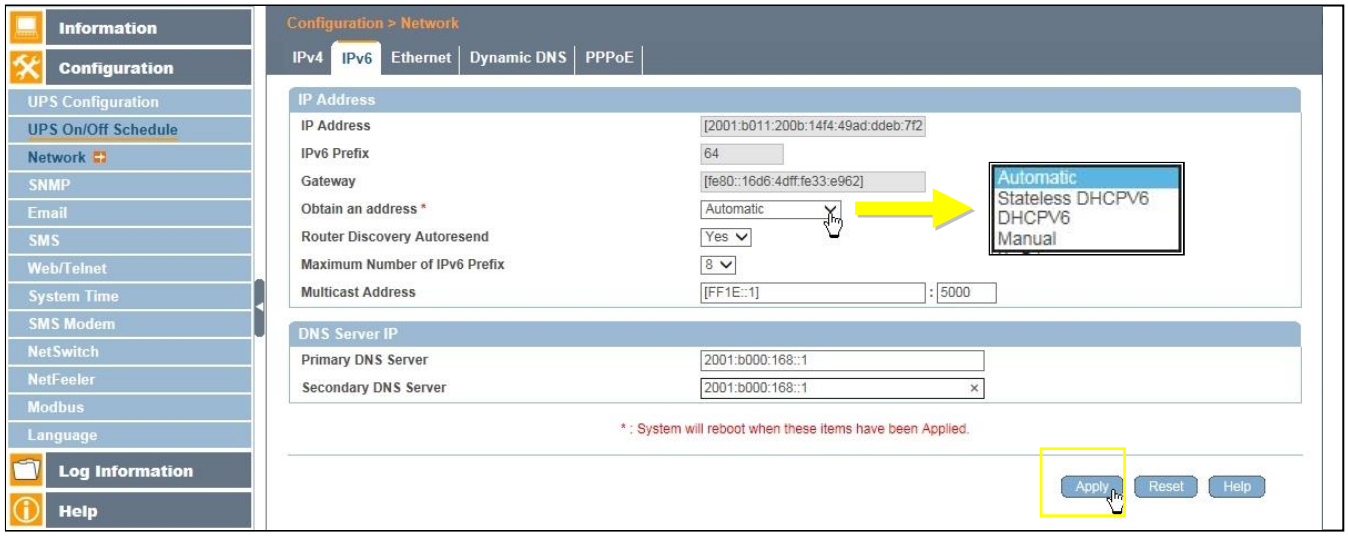


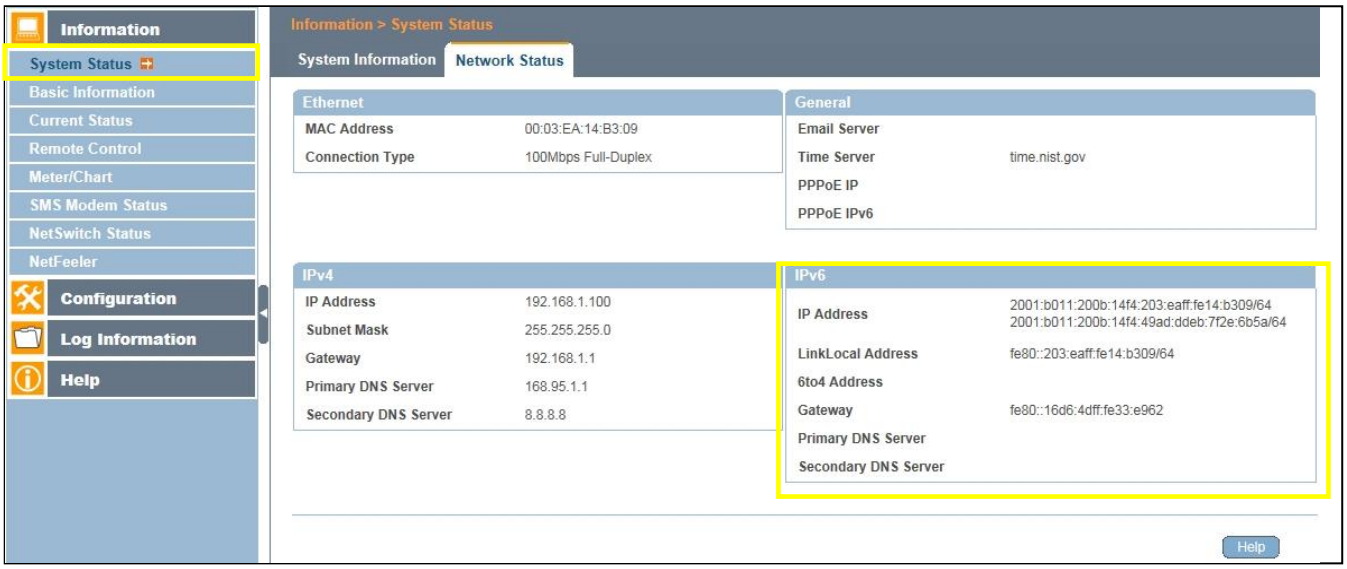
- IPv6

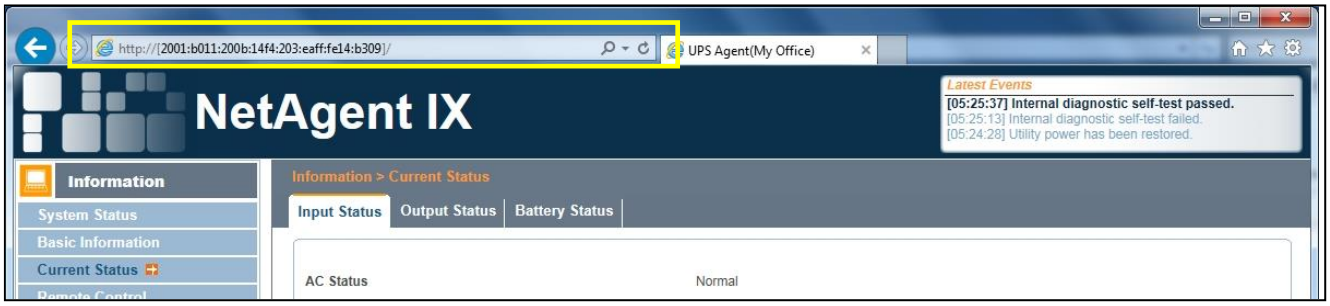
All NetAgent 9 series supports IPv6. IP address can be obtain from the drop down list with option of ( Automatic／Stateless DHCPV6／DHCPV6／Manual )

✹Once click on Apply, NetAgent will reboot

NetAgent 9 Mini & NetAgent 9



- Ethernet

*Connection Type*

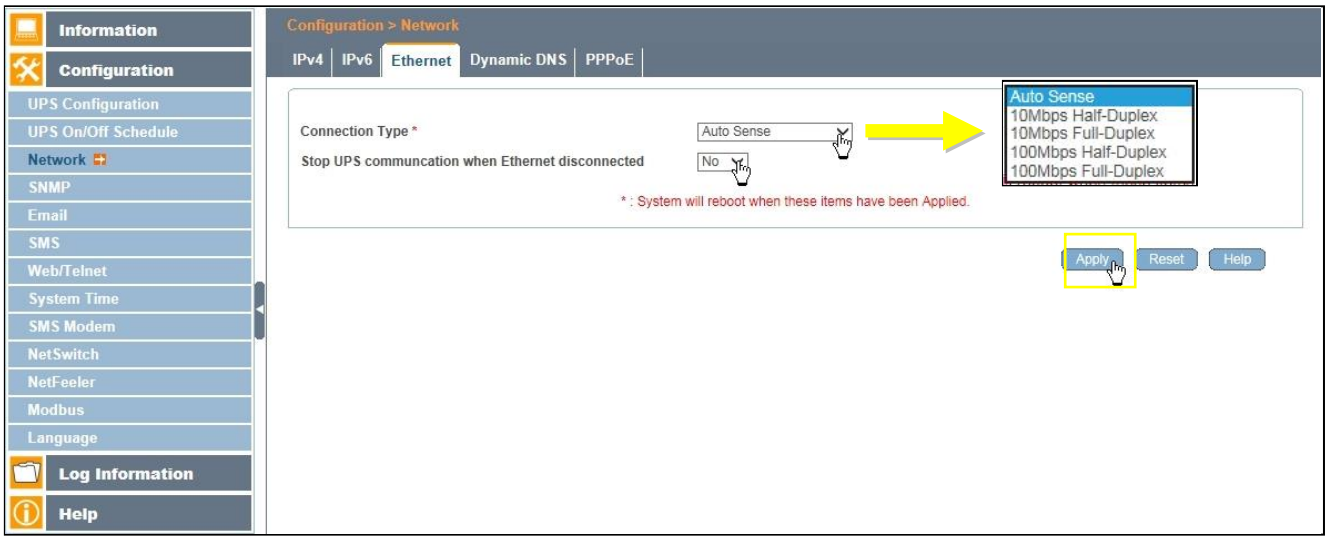
This section is to set communication speed between NetAgent and Network.

✹Once click on Apply, NetAgent will reboot

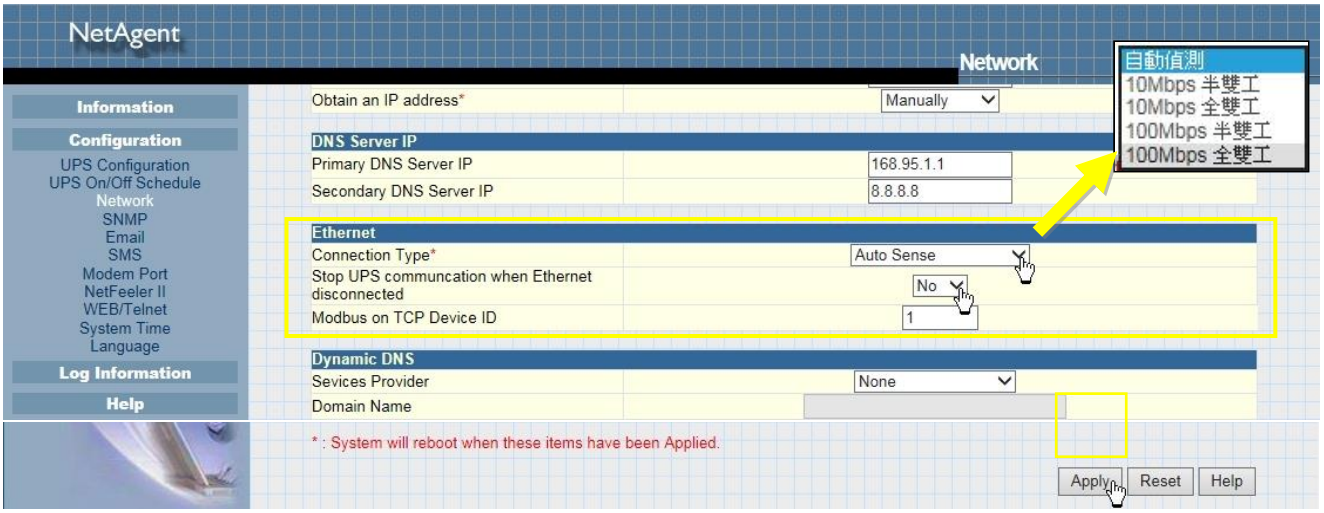
*Stop UPS communication when Ethernet disconnected*

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

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



- Dynamic DNS

This is a free service that allows the user to alias a dynamic IP address to a static hostname. Ensure account/password has been registered from the DNS service provider

*Service Provider*

Dynamic DNS providers can be select from the list

*Domain Name*

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

*Login Name*

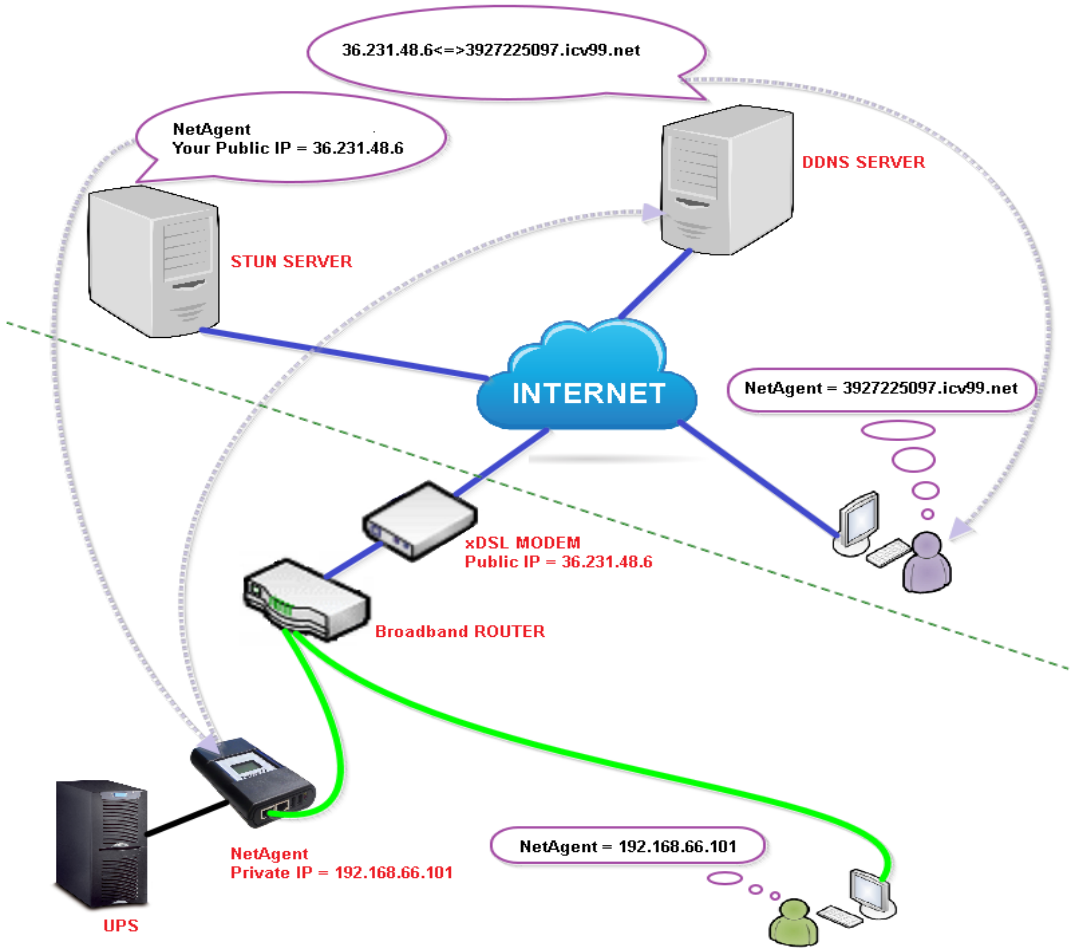
This is the Login / Account name that you have created with the selected DDNS provider.

*Login Password:*

Enter the Password you have assigned to your DDNS Account.

*Use external STUN server to get Public IP to register*

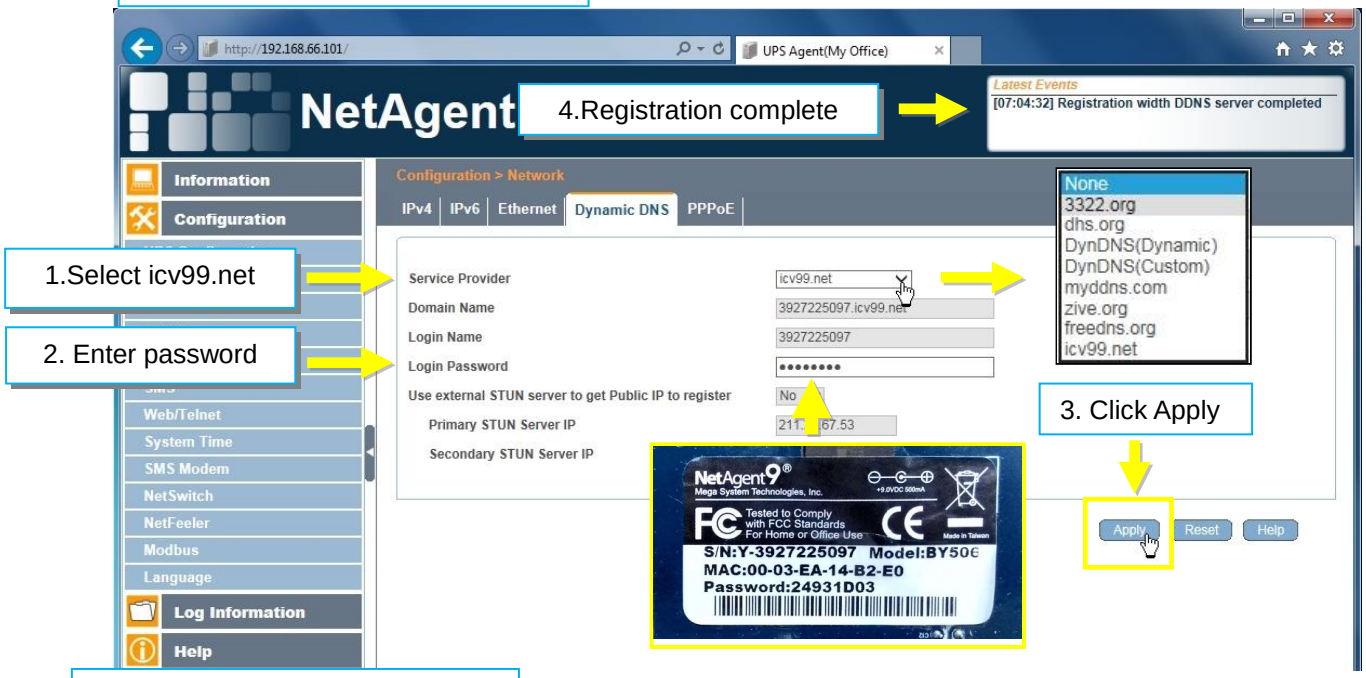
Choose **Yes** to ensure that NetAgent uses the WAN / Public IP to update the selected DDNS server



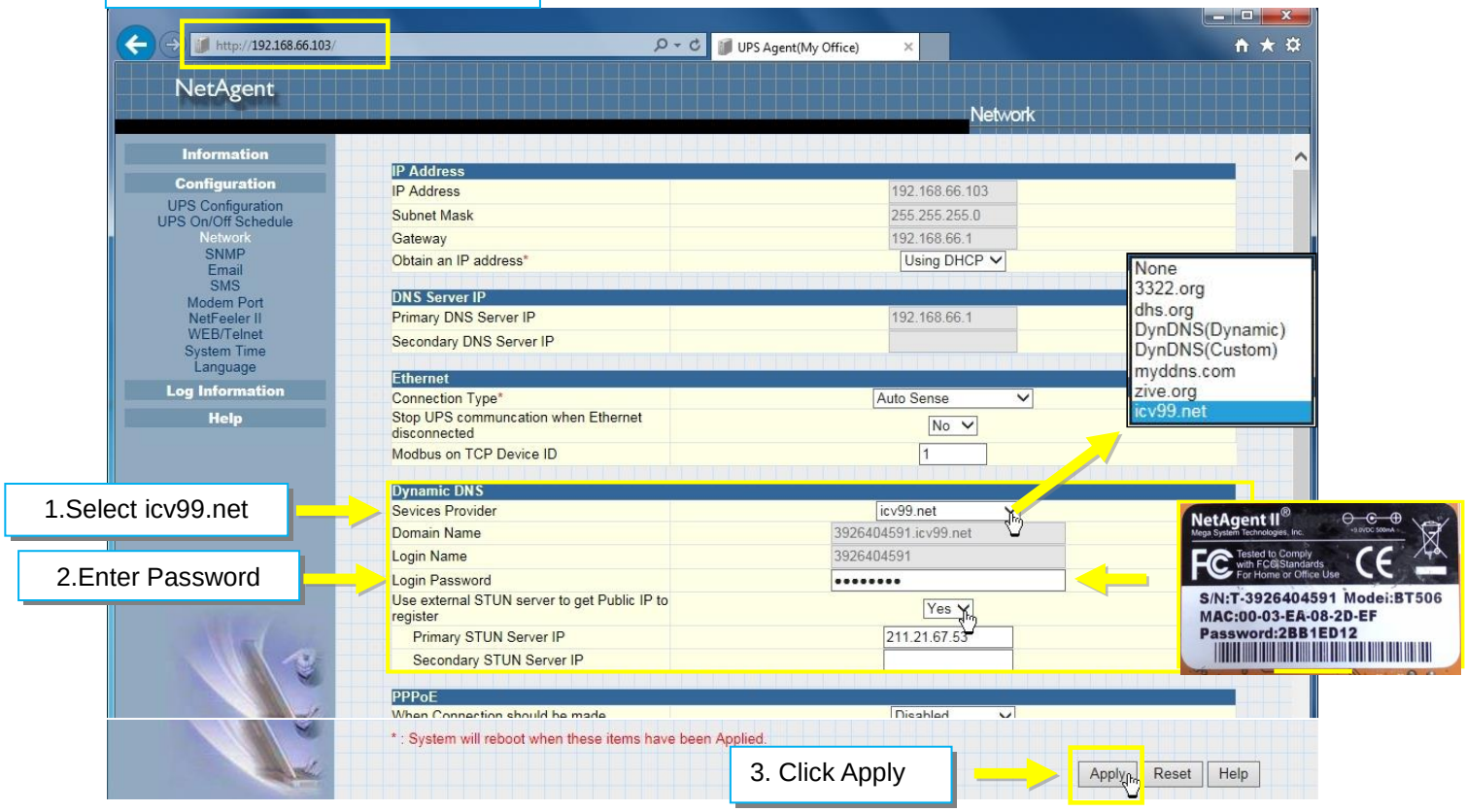
If to use iCV99.net as Service Provide which host by Megatec, instruction asb elow:

**1.** Ensure NetAgent is able to connect to Internet. Select icv99.net from the drop down list of the Service Provider. The Domain Name and Login Name will automatically be fill-in with serial number of the device. Enter the password of the NetAgent which is printed on the NetAgent label, then click Apply.

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II

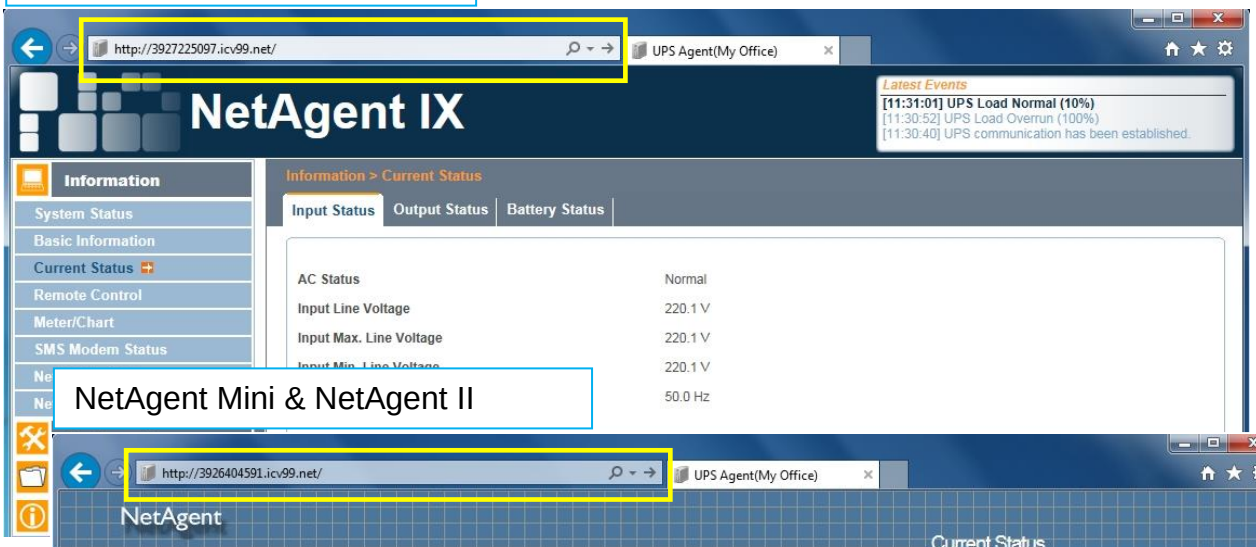


**2.** If using router, please login to router and direct IP and port number under virtual server for port forwarding. Kindly refer to router's manual

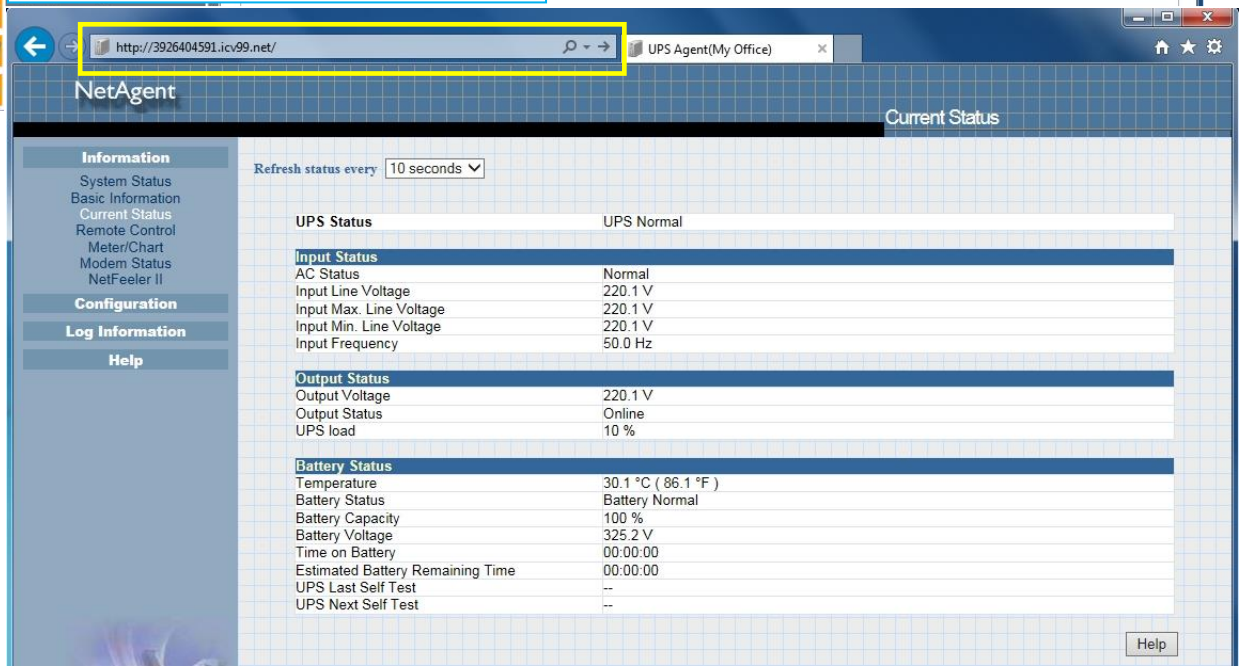
Router Configuration

**3.** After 20 minutes, NetAgent should be login with its DDNS Domain name

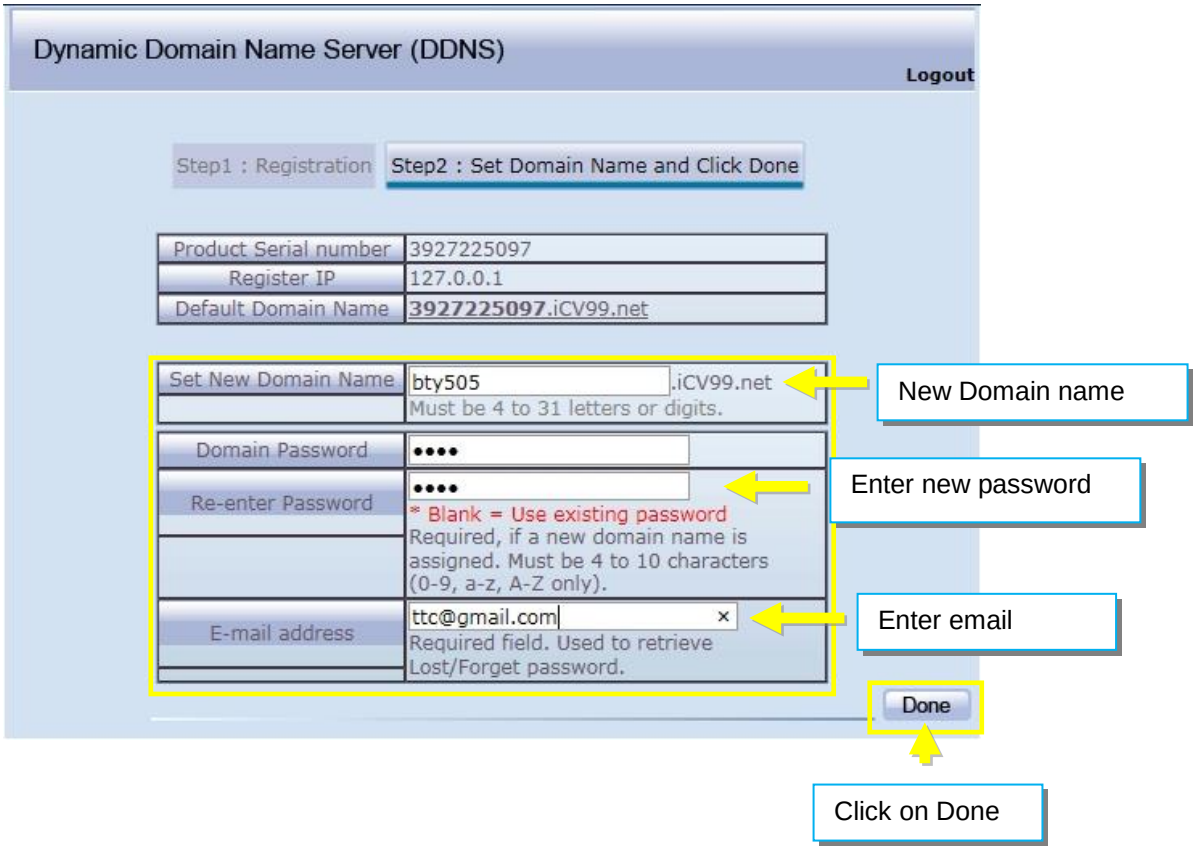
NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II

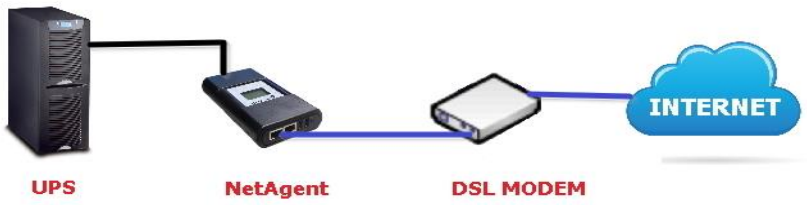


**4.** To change domain name or password, please go to [www.icv99.net](http://www.icv99.net)

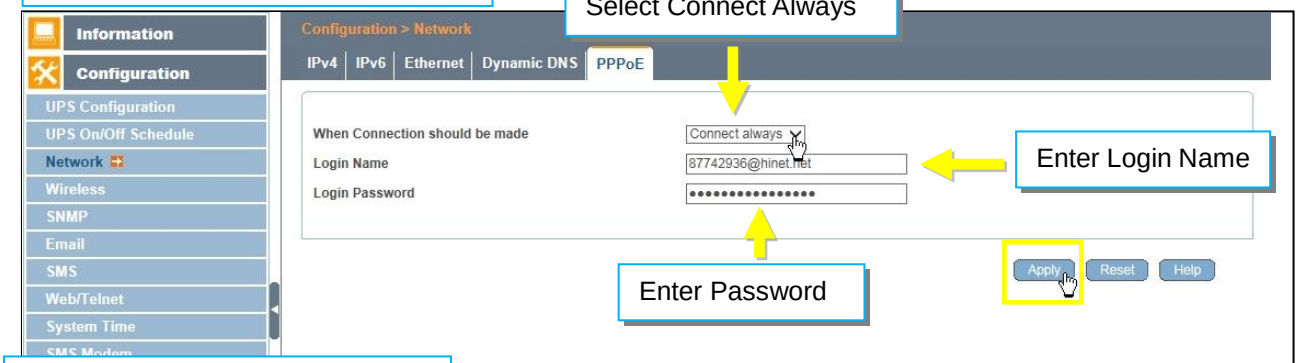


- PPPoE

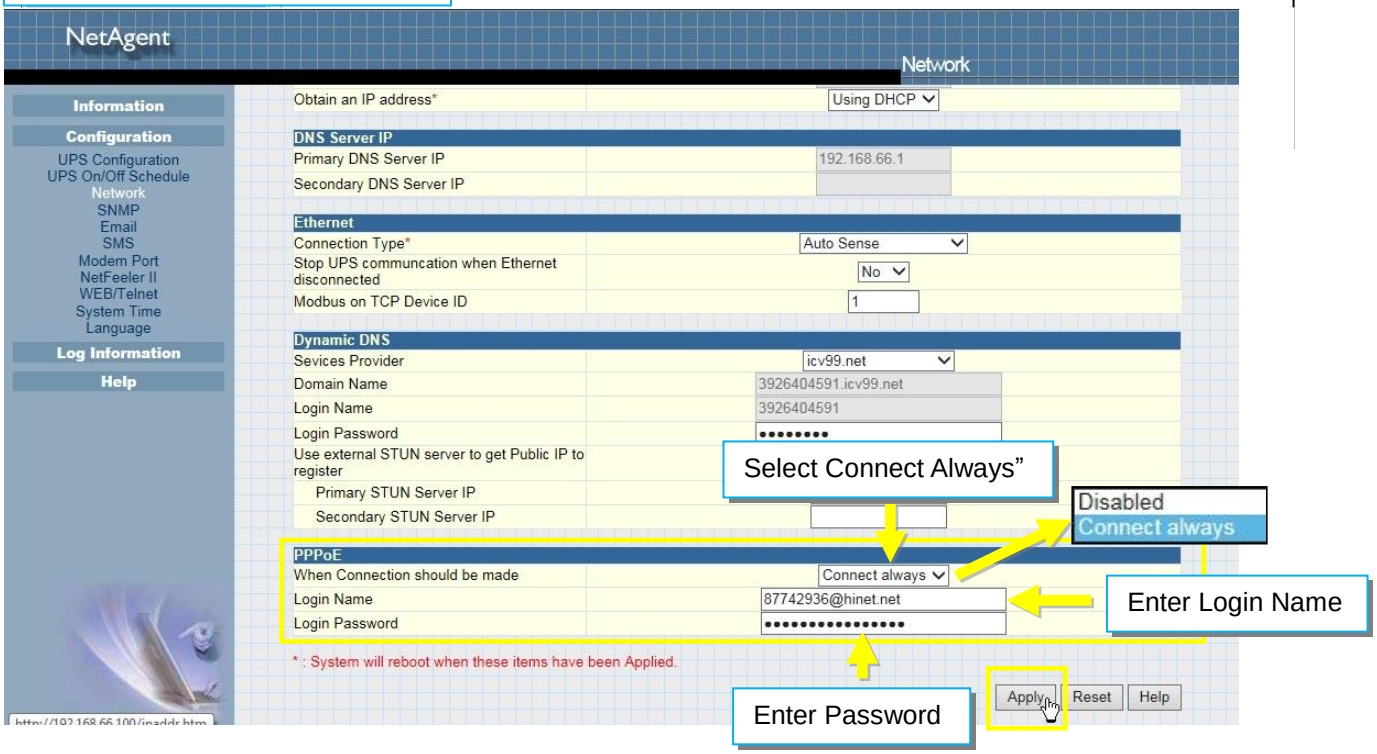
Use this option to allow NetAgent to connect to the Internet directly using your xDSL modem by PPPoE. Enter the Login name and password to enable the connection. Once set-up, NetAgent will connect directly to the Internet , any abnormal connection failure would also cause to re-dial




NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



## ■ Configuration > Wireless

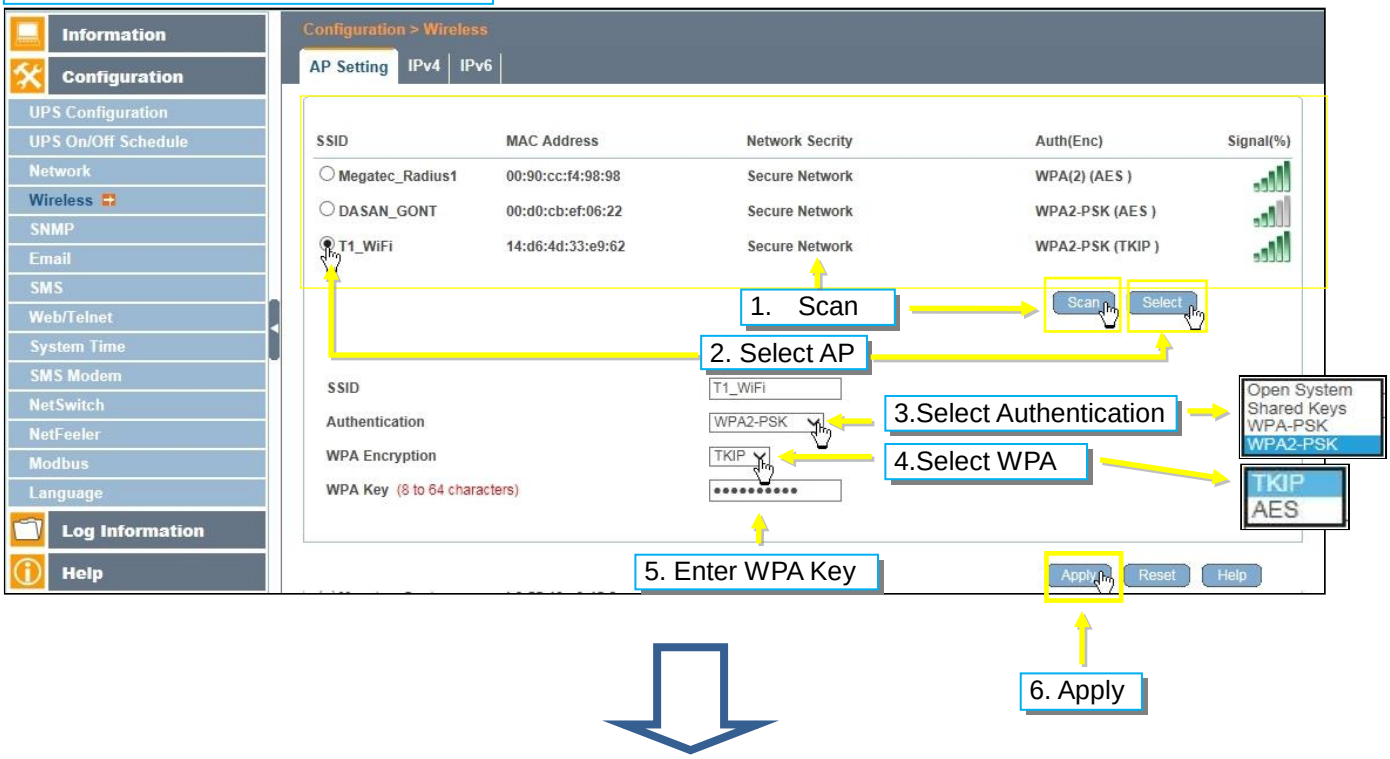
This is to configure Wireless network with USB wireless dongle. This feature only apply to NetAgent 9 model of BX and BY series. (USB wireless dongle is optional)

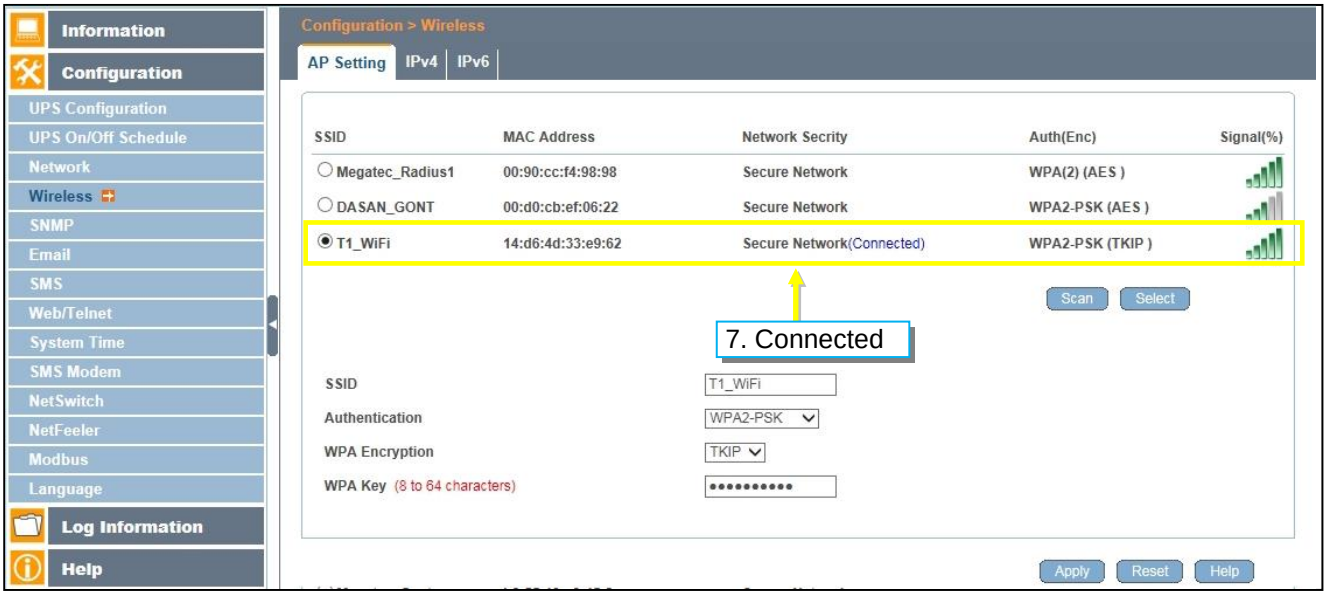
NetAgent 9 BX/BY models supports wireless encryption of Open system; Shared Key; WEP(64 /128 bit) / WPA / WPA2(TKIP/AES)

- Connect the compatible USB wireless dongle to BX/BY NetAgent

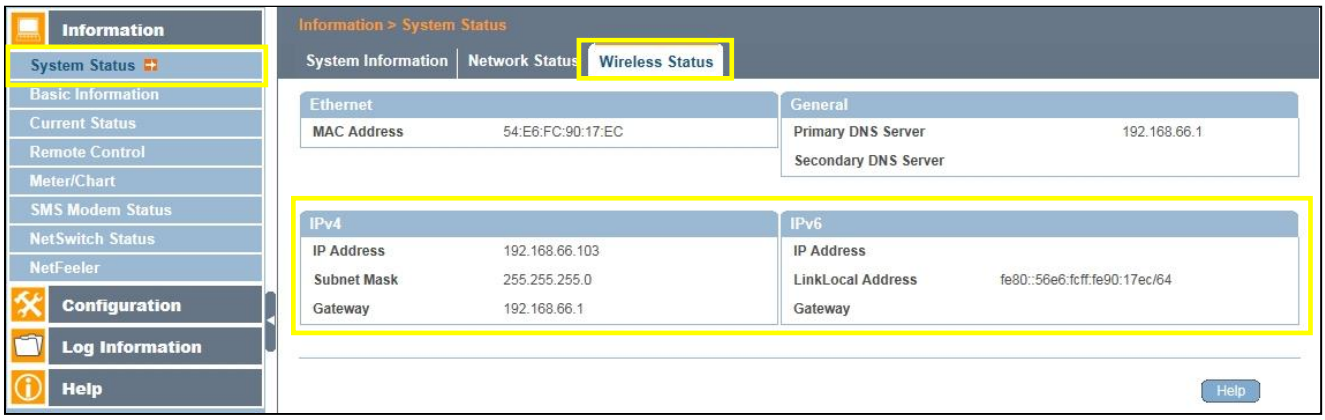
- Click on【Scan】to search for all the available AP. Select the AP, then enter its SSID, Authentication, WPA Encryption, WPA Key , then click on Apply

NetAgent 9 Mini & NetAgent 9






Connection Information can be check from 【Information】>【System Status】>【Wireless Status】

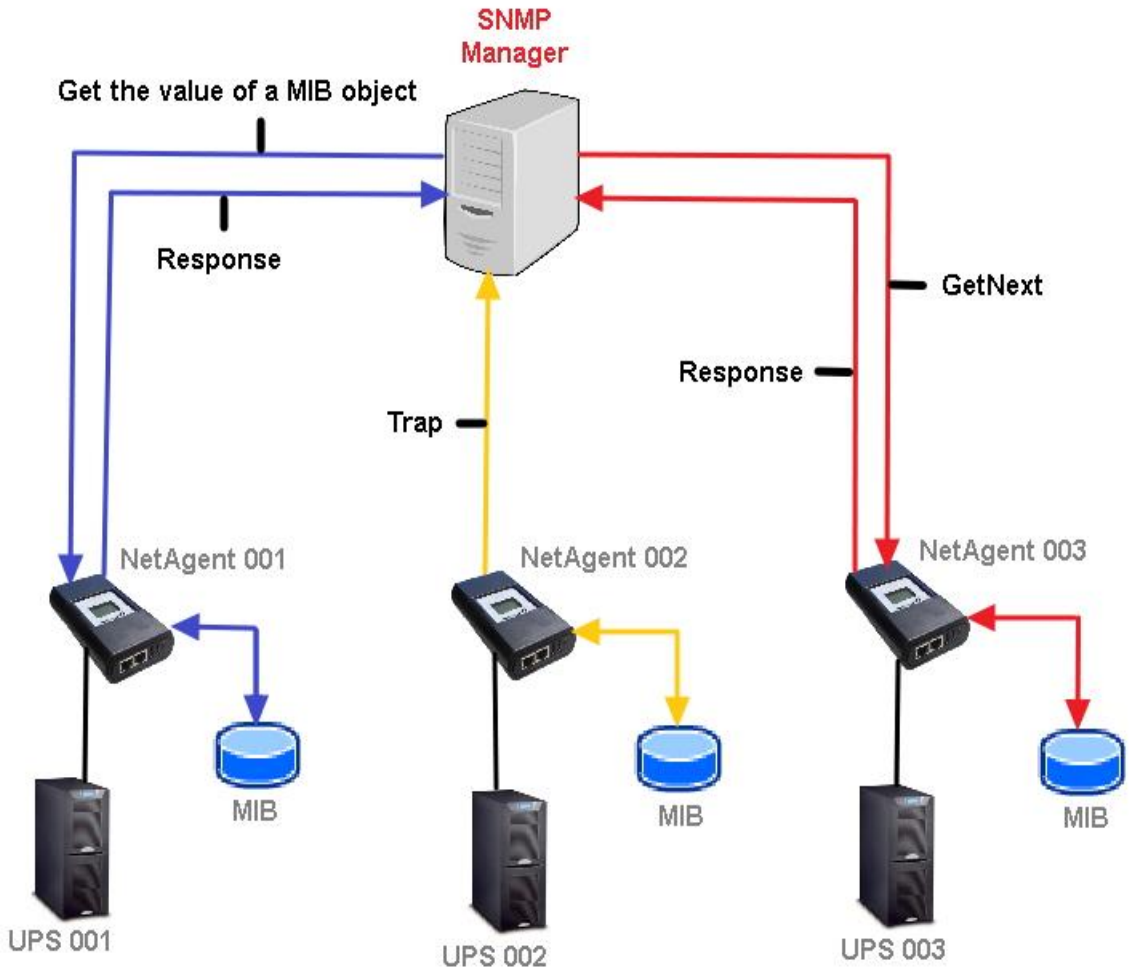


## ■ Configuration > SNMP

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

SNMP version supported by NetAgent type

| | SNMP V1 | SNMP V2 | SNMP V3 |
|---|---|---|---|
| NetAgent 9 & Mini | ✓ | ✓ | ✓ |
| NetAgent II & Mini | ✓ | ✓ | |



- General

MIB System

*System Name*

This section is to give a name to the NetAgent.

*System Contact*

This section is to give a name to the administrator.

*System Location*

This section is to set NetAgent location.

SNMP UDP Port

*NetAgent SNMP Port：*

The port that NetAgnet receive and send SNMP command. (Default is 161)

*Trap Receive Port*：

The port to receive trap. (Default is 162)

SNMPv3 Engine ID

*SNMPv3 Engine ID Format Type*：

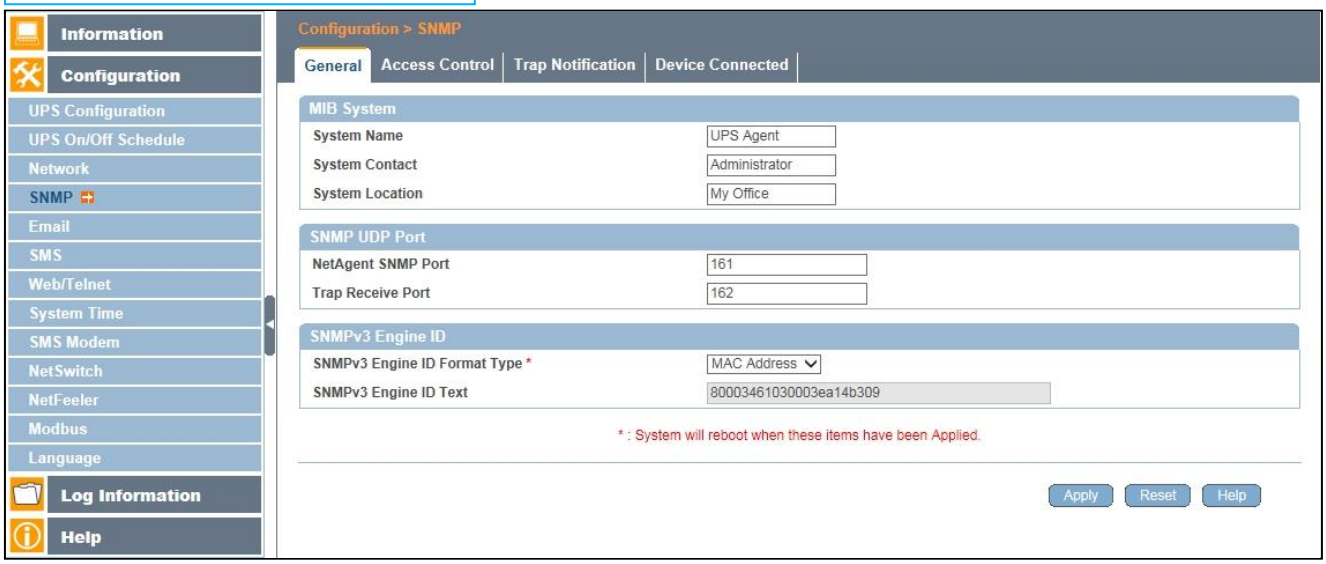
When using SNMPv3, NetAgent requires to have its Engine ID for identification to generates authentication and encryption key . Format type can be select from the drop down list with option of MAC Address / IPv4 / IPv6 / Manual

✹Once click on Apply, NetAgent will reboot

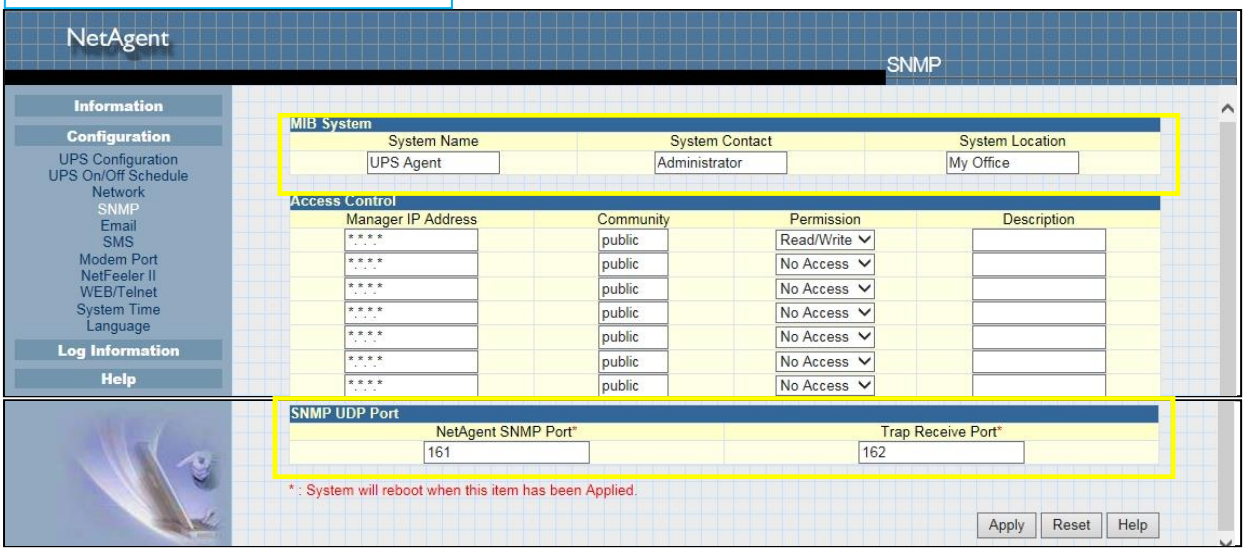
*SNMPv3 Engine ID Text*：

SNMPv3 Engine ID content

NetAgent 9 Mini & NetAgent 9



NetAgent Mini & NetAgent II




- Access Control

*Manager IP Address ：*

This 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**.

*Version:*

This is to select between SNMPv1& SNMPv2 or SNMPv3 (SNMPv3 only applies to NetAgent 9 series) When select All and V3, user name, password, authentication and privacy are required

*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. (Default is public)

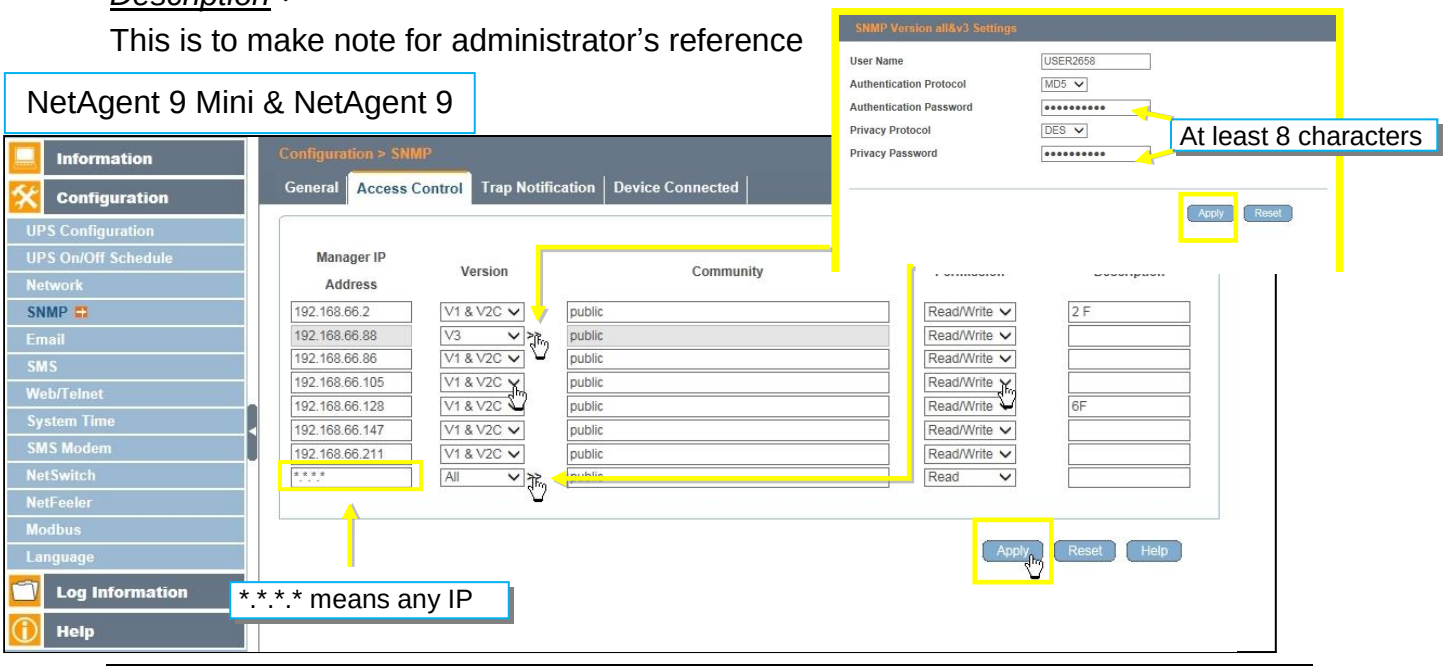
*Permission* ：

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

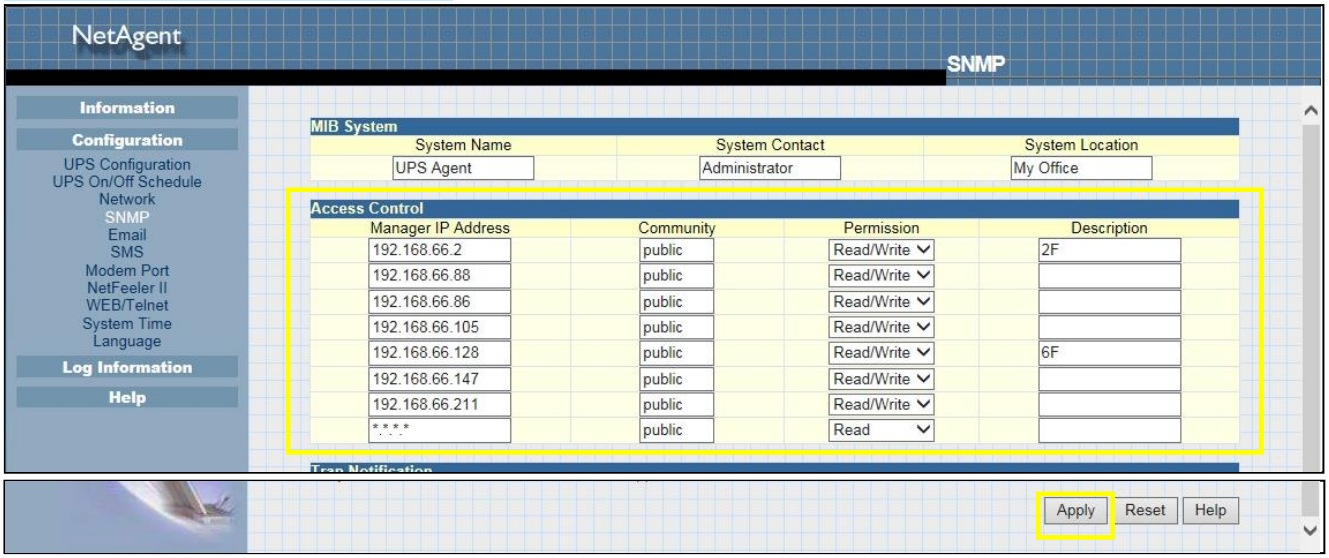
*Description* ：

This is to make note for administrator's reference

NetAgent 9 Mini & NetAgent 9



NetAgent Mini & NetAgent II




- Trap Notification

Trap Notification

*Destination IP Address*：

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

*Accept*：

Select the trap type of its SNMP version or Inform from drop down list. When SNMPv3 trap or SNMPv3 Inform is selected, username/password and authentication information are required.

*Community*：

Trap receiver and NetAgent must be same community. (Default is public)

*Trap Type*：

Select from PPC MIB or RFC1628 MIB (Default is PPC)
✹MIB file is available in the CD provided with NetAgent

*Severity*：

This section is to set Trap level for each receiver. There are three levels as below

☐ 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.)

*Description：*

This is to make note for administrator’s reference

*Events*：

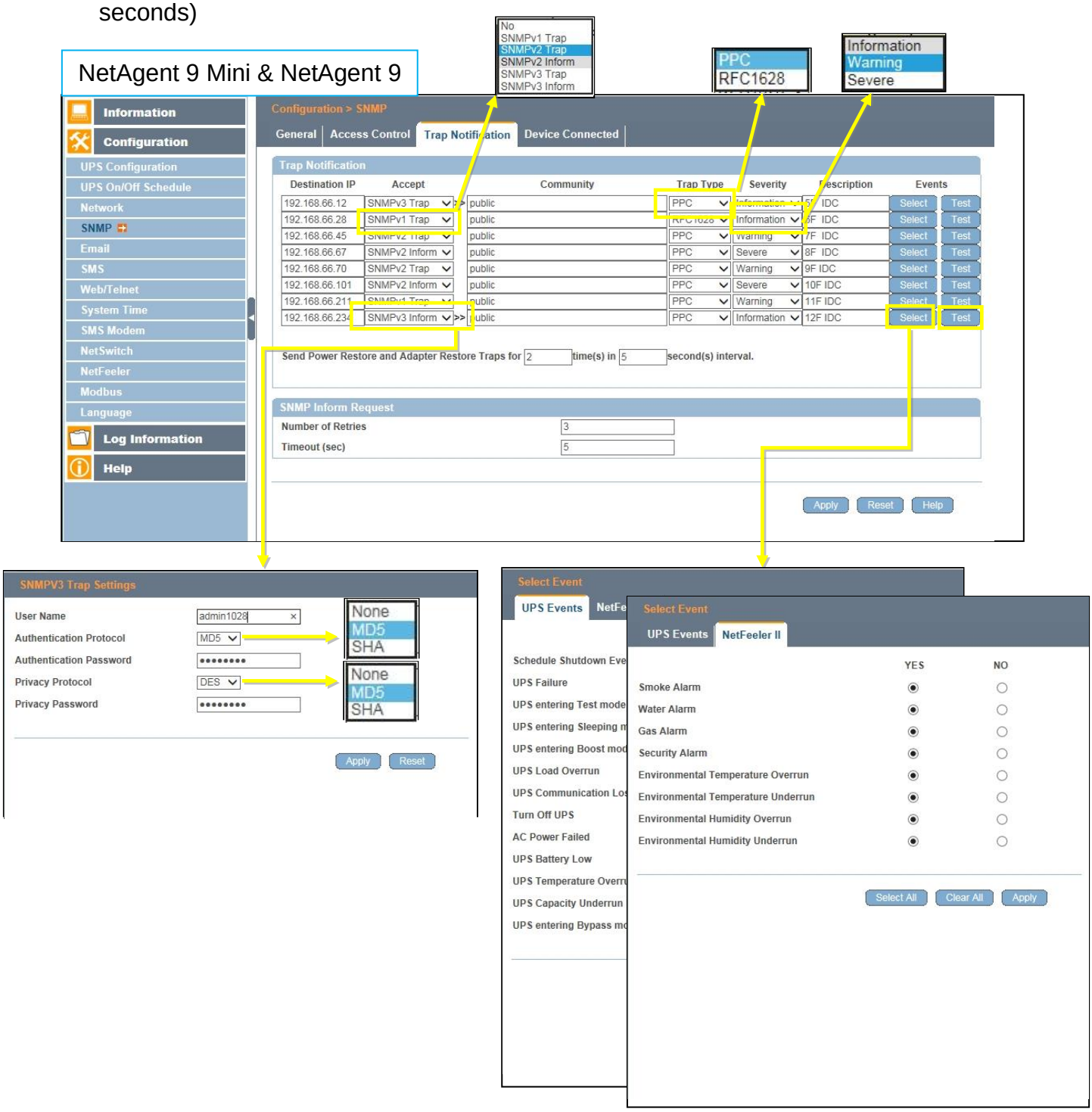
This is to select events for NetAgent to send traps. Click on Select to show the full Events List. Click on Test to send test trap to ensure all setting is correct

*Send Power Restore and Adaptor Restore Traps for X time(s) in X second(s) Interval.*

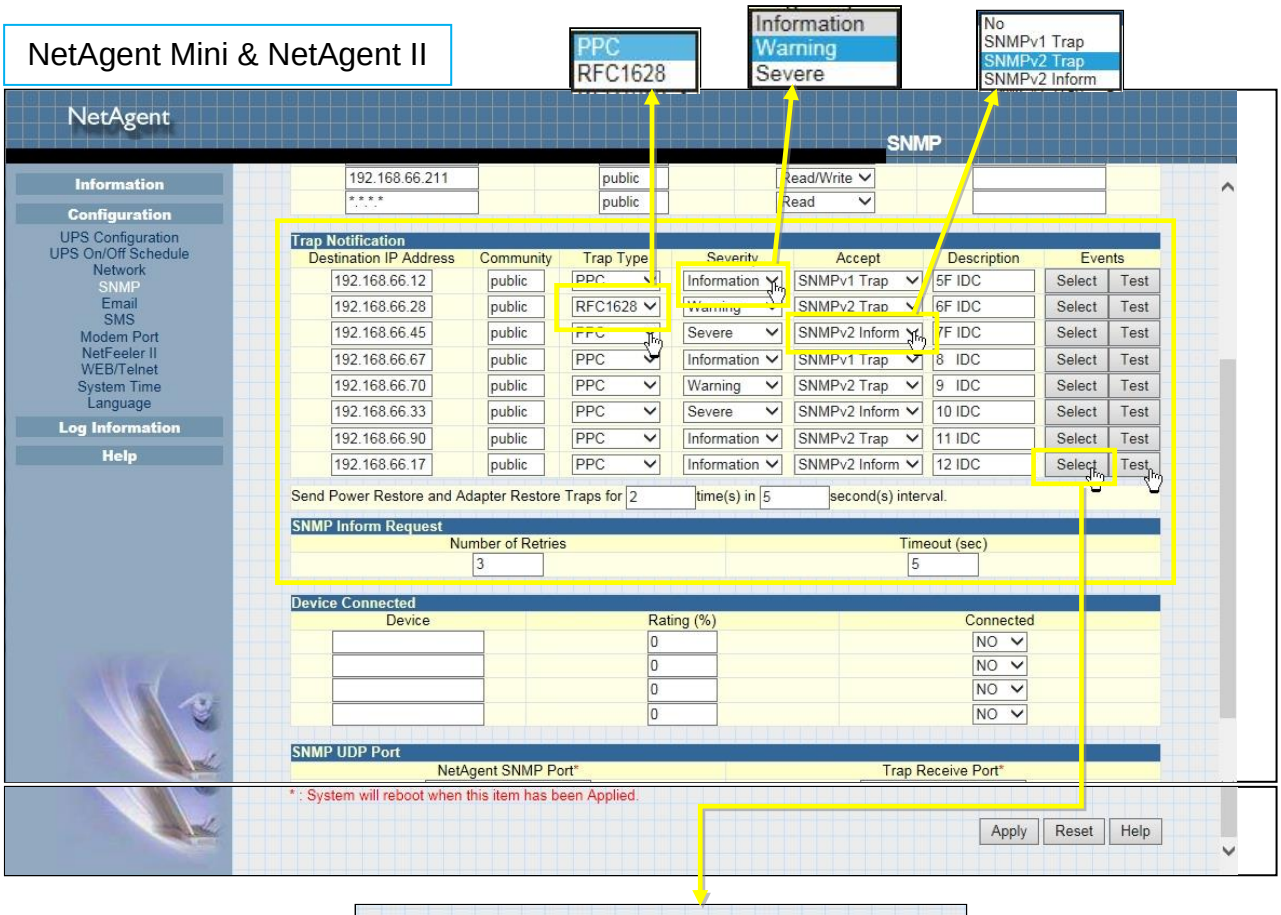
This is to set number of trap to send in preset second when power restore on NetAgent. This is to check if the communication between trap receiver and NetAgent remains well or not after power recovers

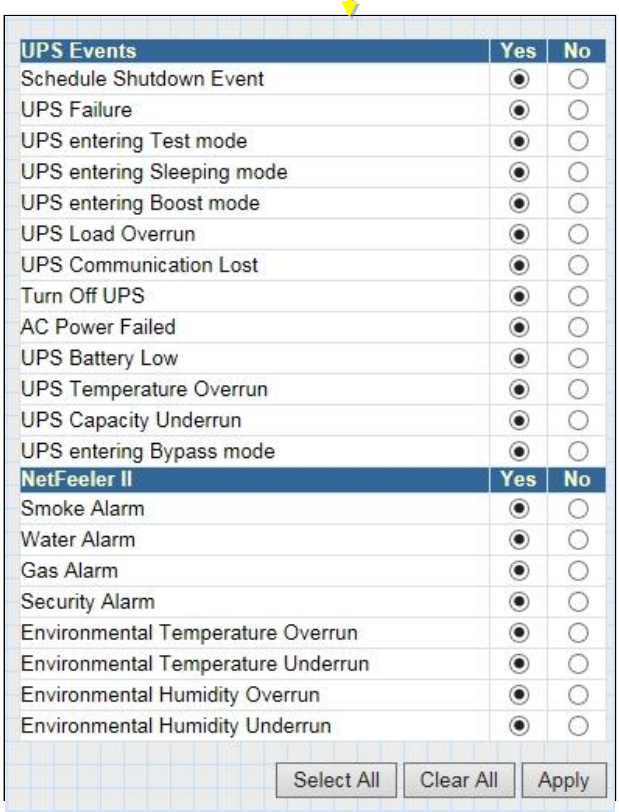
SNMP Inform Request

This is to set the number of times that the NetAgent can request a response from the sending Inform host with a preset value . (Default is 3 times and an interval of 5 seconds)



NetAgent Mini & NetAgent II

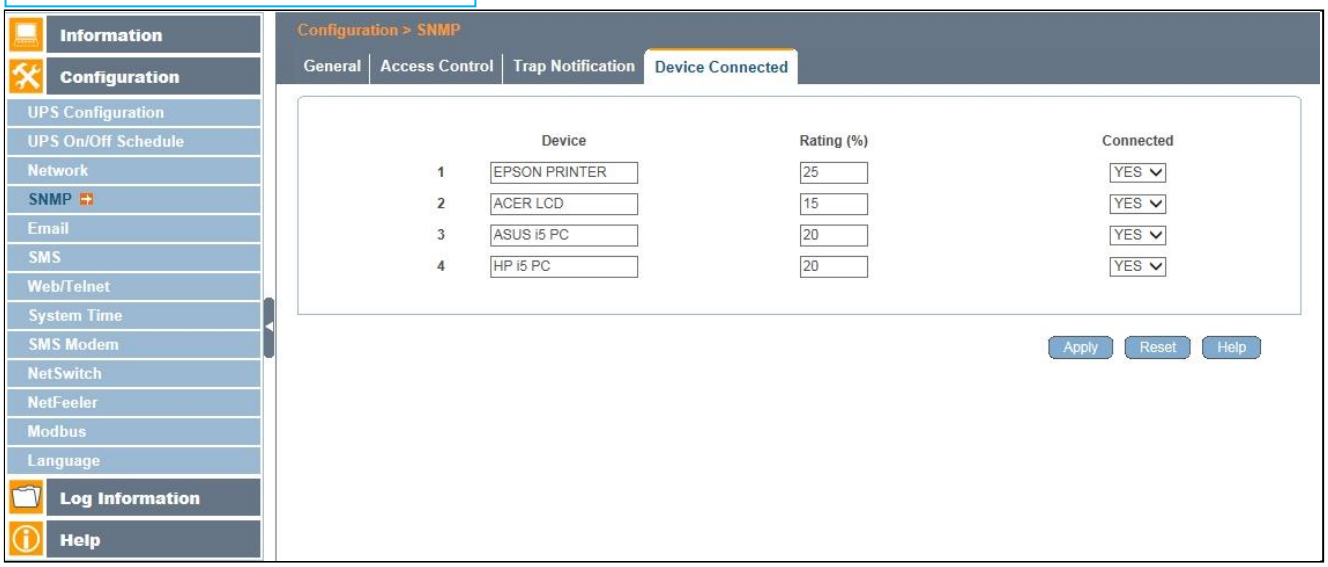


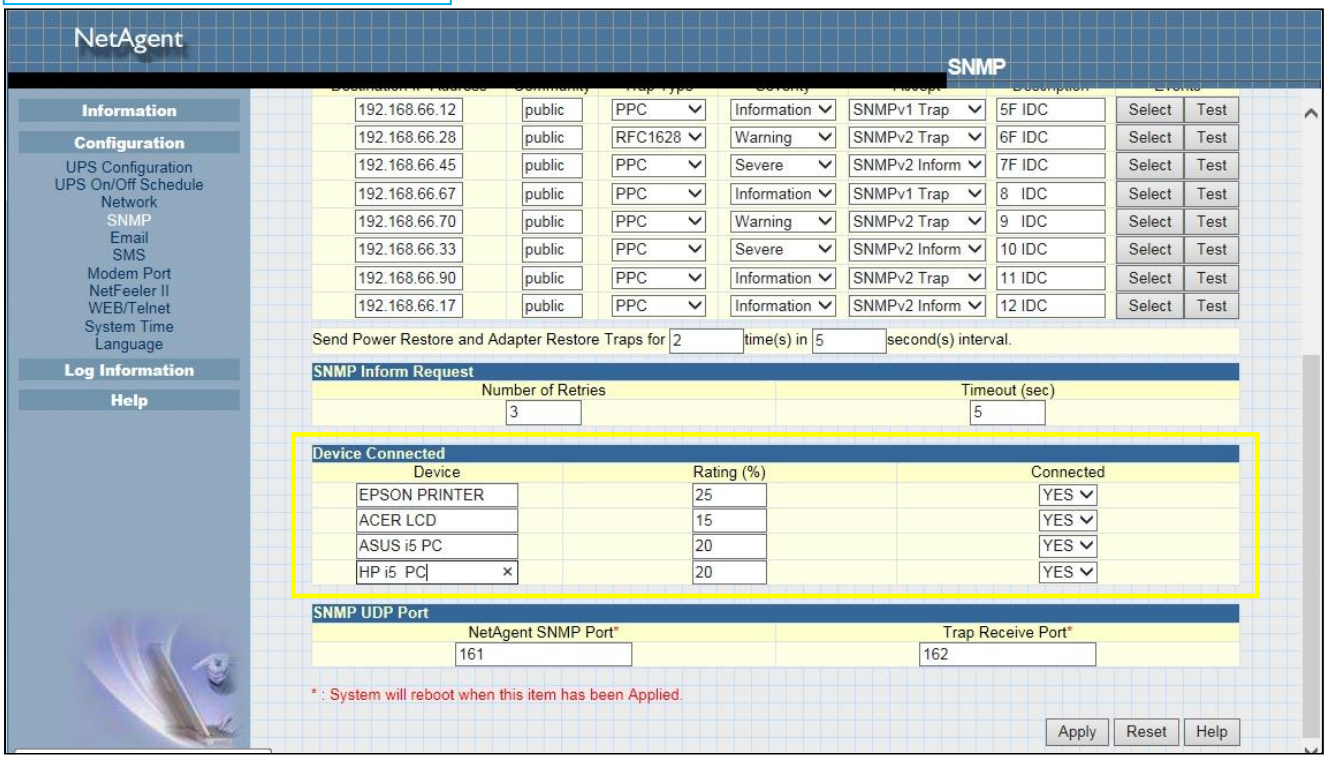
- Device Connected

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

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



## ■ Configuration > Email

To send email notification when event occurs or data log

- Email Setting

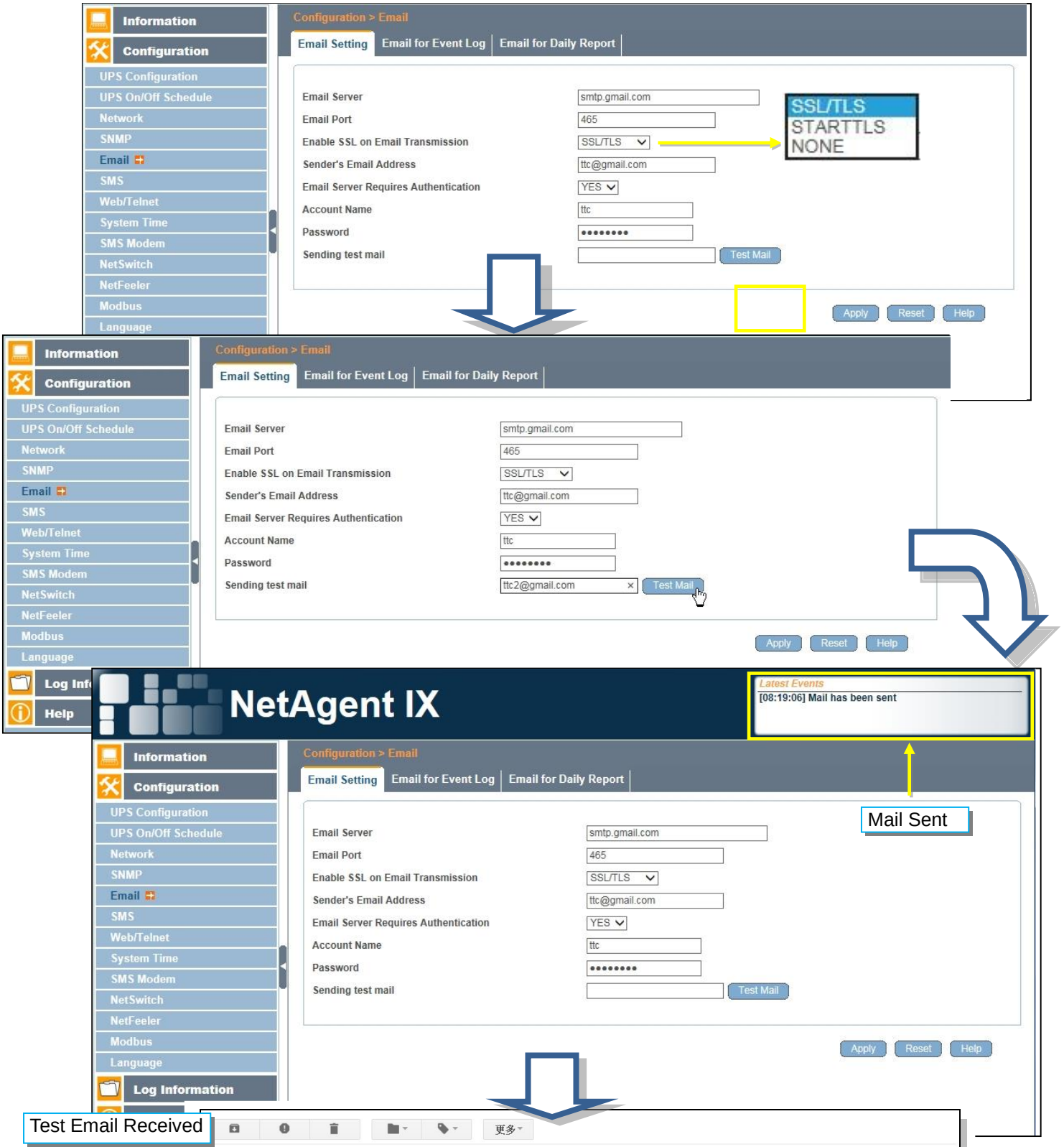
*Email Server:*
Enter the address of email server
*Email Port:*
Email Port that use for sending email
*Enable SSL on Email Transmission:*
Select SSL type for email transmission

Type of encryption that NetAgent model supports

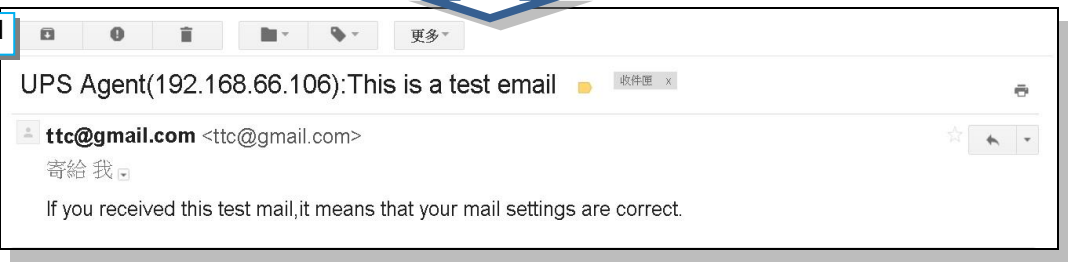
| | SSL | TLS | STARTTLS |
|---|---|---|---|
| **NetAgent 9 & Mini** | ✓ | ✓ | ✓ |
| **NetAgent II DT/CT/BT** | ✓ | | |

*Sender's Email Address*：
To enter the email address that for sending email
*Email Server Requires Authentication*：
If such email server requires authentication or not
*Account name*：
If authentication is required, enter its account name
*Password*：
If authentication is required, enter its password
*Sending Test Mail*：
Enter email address to check all configuration is correct or not to receiving mail

NetAgent 9 Mini & NetAgent 9

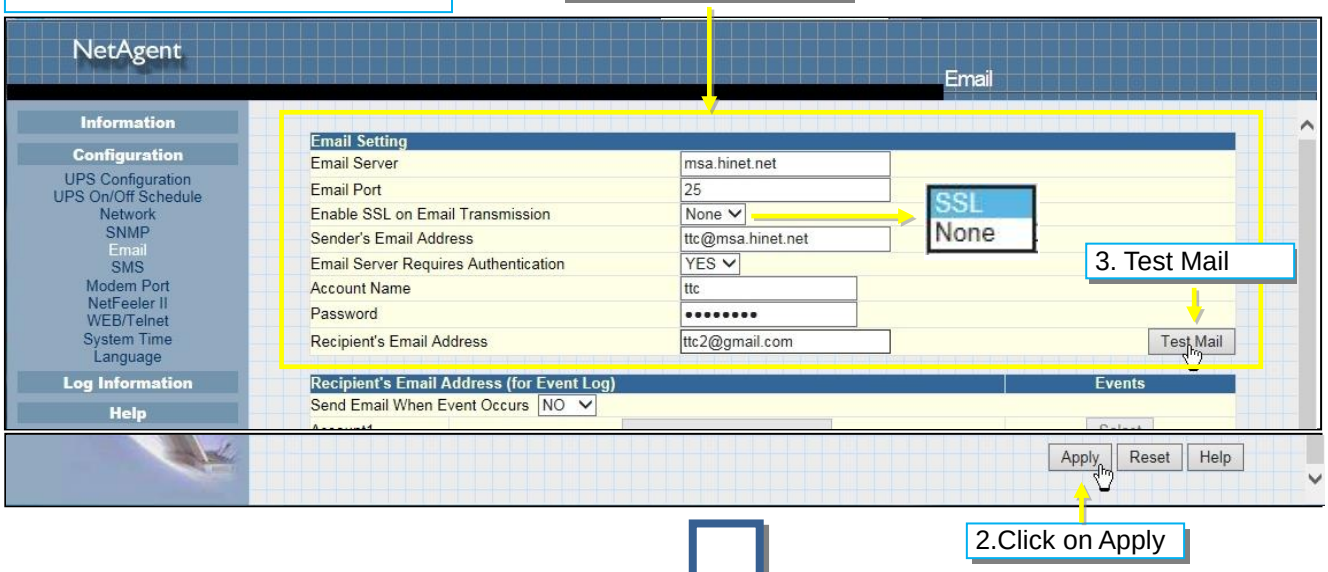



Test Email Received



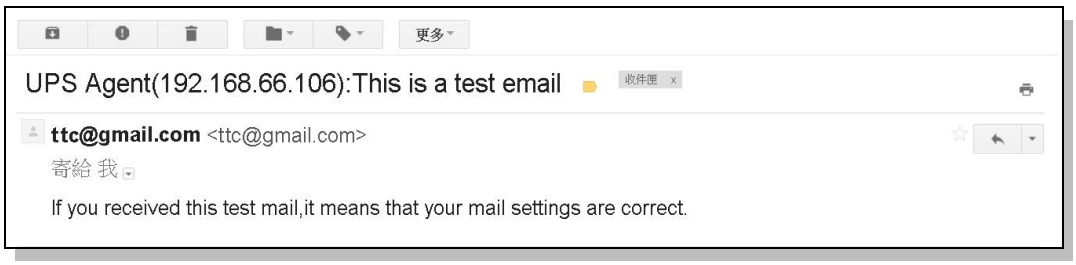
NetAgent Mini & NetAgent II

1. Enter Mail Server




2.Click on Apply

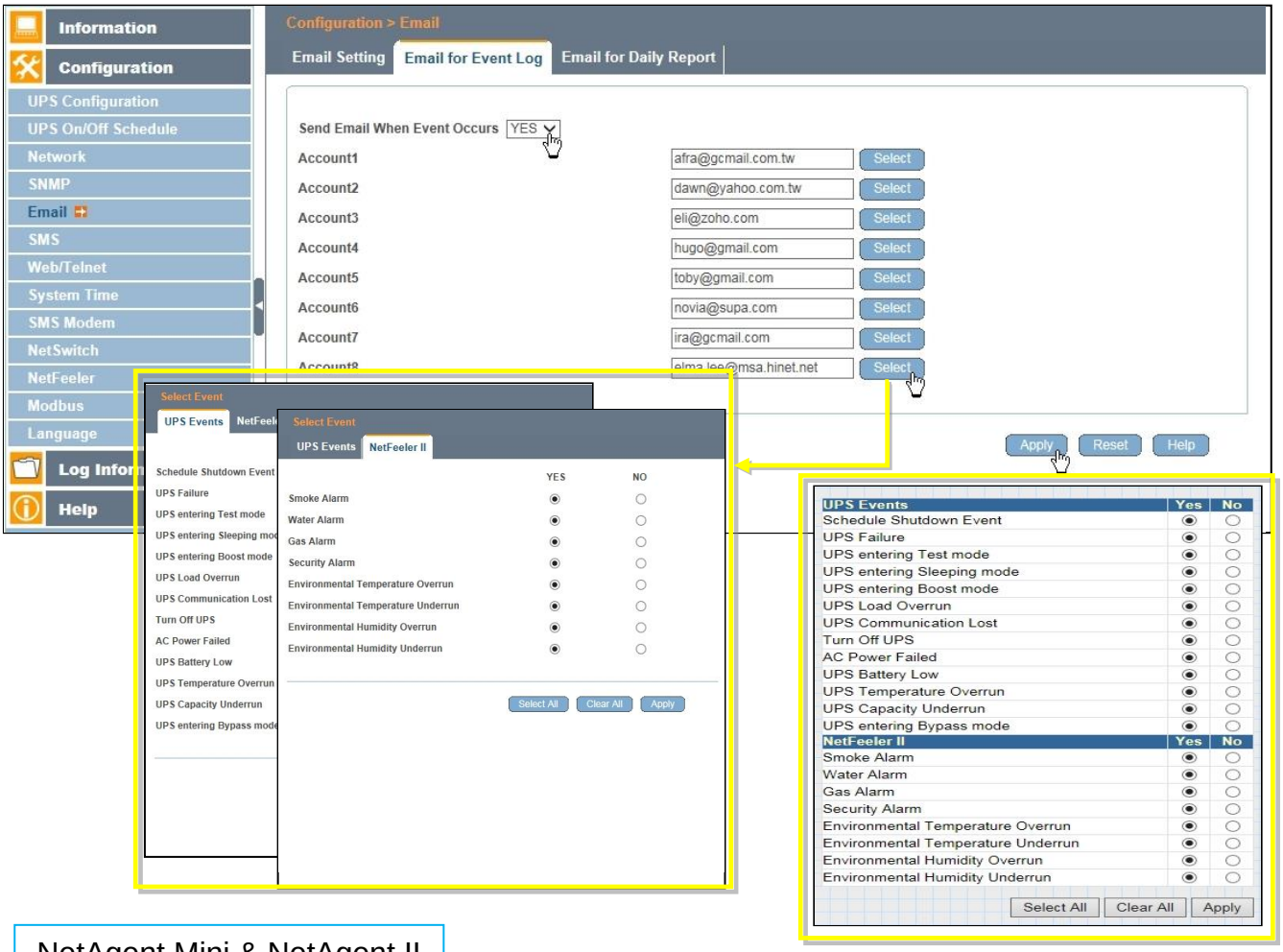
Test Email Received



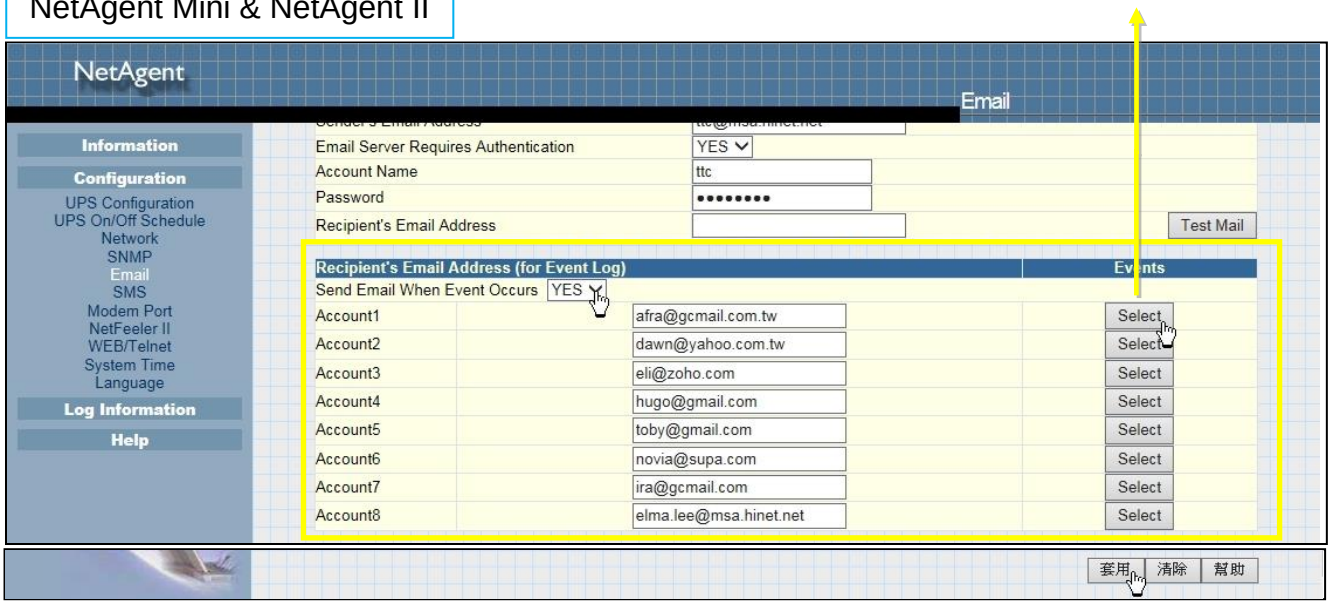
- Email for Event Log (To receive email notification)

To set email addresses to receive warning email sent by NetAgent when selected event occurs. It is valid for up to 8 Email addresses.

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II

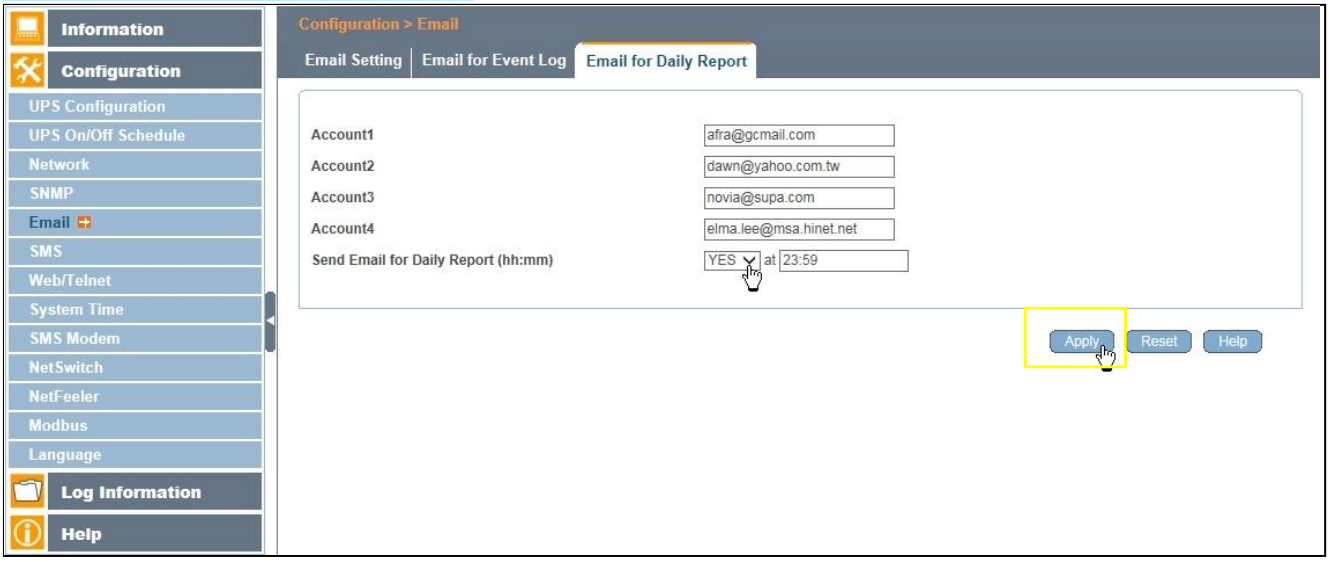


- Email for Daily Report (To receive daily report)

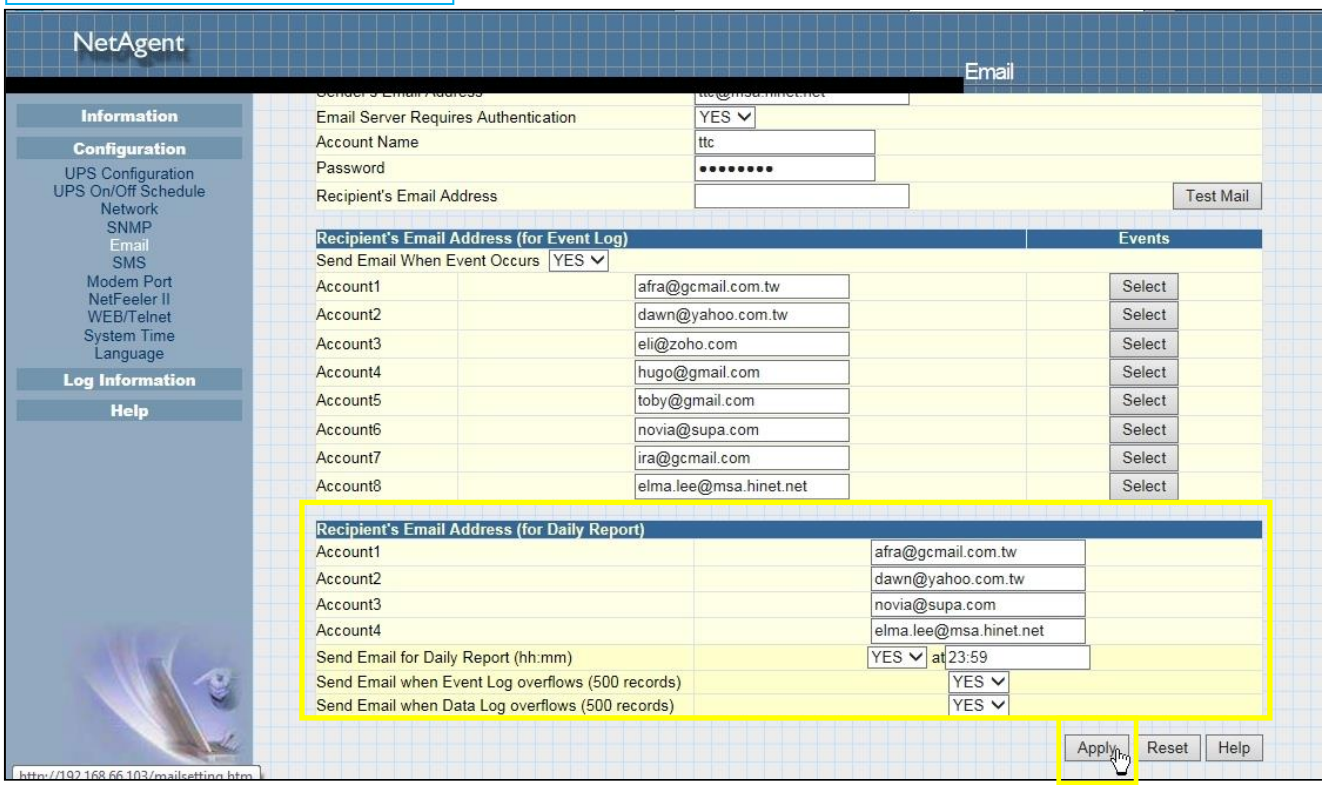
This section is to set Email Addresses to receive NetAgent's Daily Report at preset time. It is valid for up to 4 Email addresses. Daily report with content of event and data log.

With NetAgent series, option is available if to send email when event or data log overflows to 500 logs

NetAgent 9 Mini & NetAgent 9

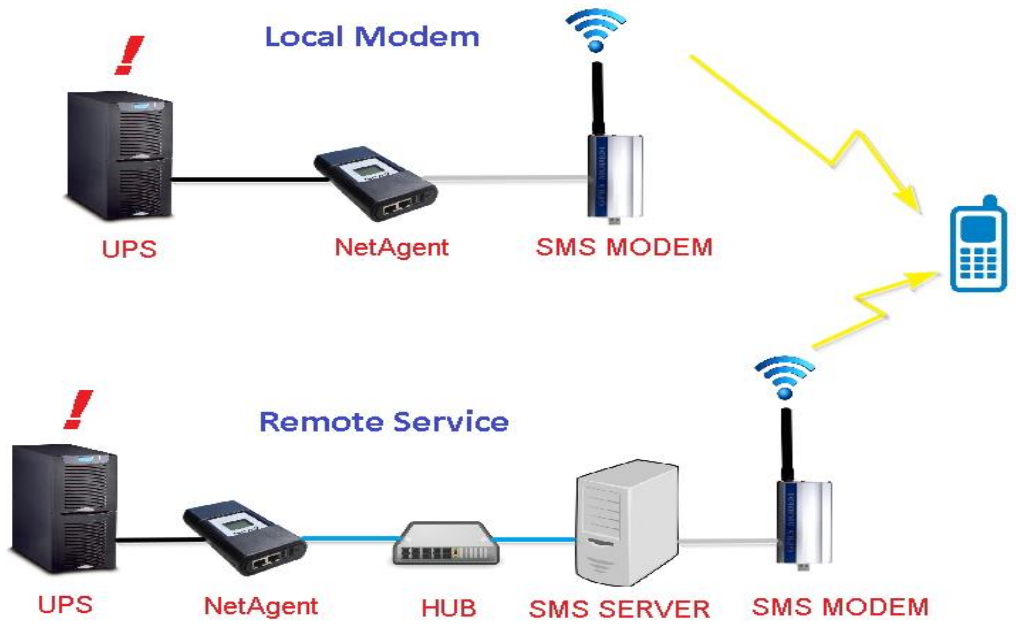



NetAgent Mini & NetAgent II



## ■ Configuration > SMS

When UPS events occurs, it allows Short Message Signals (“SMS”) to be sent and received using a GSM/GPRS/CDMA Modem. Operation information are as below for single and three ports of NetAgent.




- SMS Setting：

*Send SMS When Event Occurs:*

☐ Disable ：No SMS Service

☐ Use Local Modem：When GSM modem is connected to NetAgent directly (Refer to SMS Modem section for its installation)

☐ Use Remote Service：When GSM modem connects to PC with SMS Server software installed (Refer to SMS Server section for SMS Server Software installation)

*SMS Server*：

If select to use Remote Service to send SMS, then enter the IP address of the SMS Server. (The PC that installed SMS Server Software)

*SMS Port*：

If select to use Remote Service to send SMS, enter the port number that SMS Server uses for sending SMS. (Port 80 is default)

*Account Name*：

If select to use Remote Service to send SMS, enter SMS Server’s account name if required

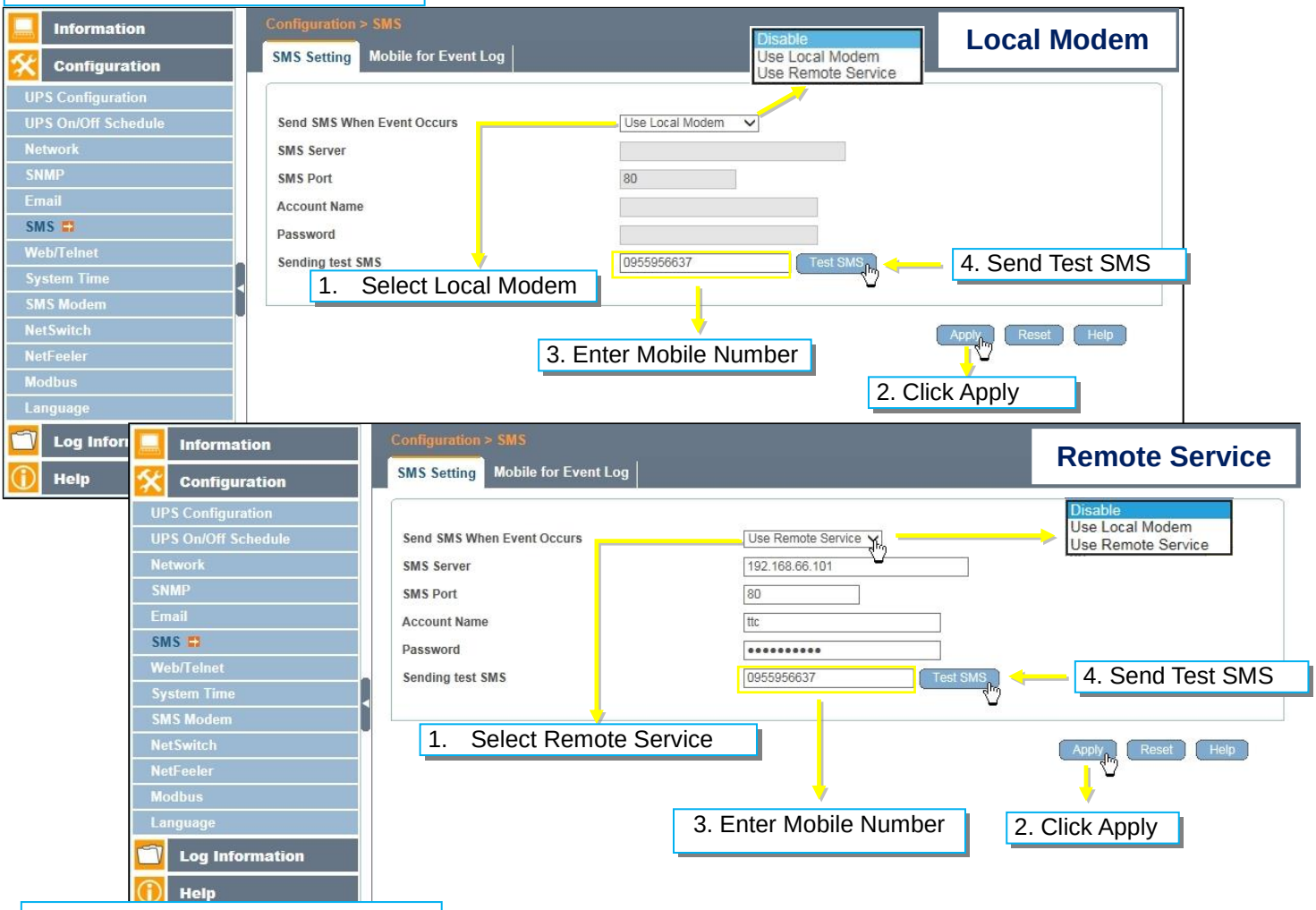
*Password*：

If select to use Remote Service to send SMS, enter SMS Server’s password if required

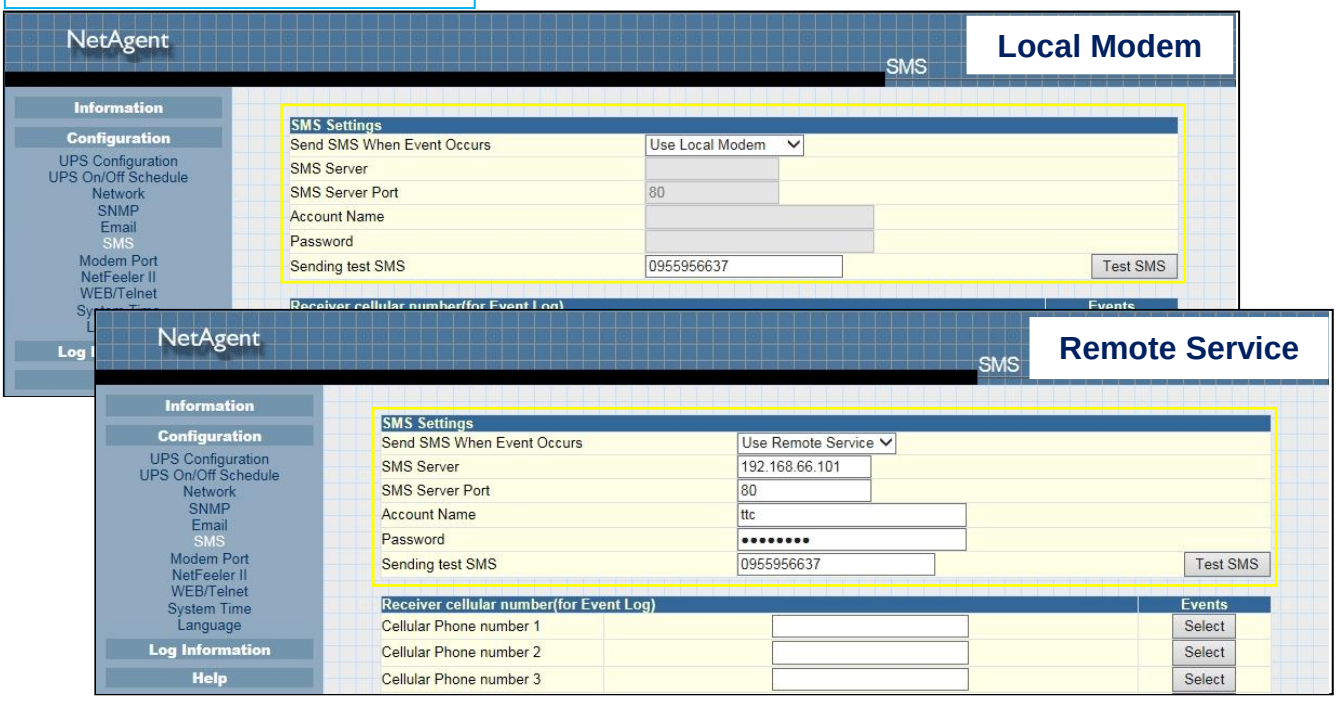
*Sending test SMS*：

When modem and configuration are ready, enter a mobile number to receive testing SMS

NetAgent 9 Mini & NetAgent 9



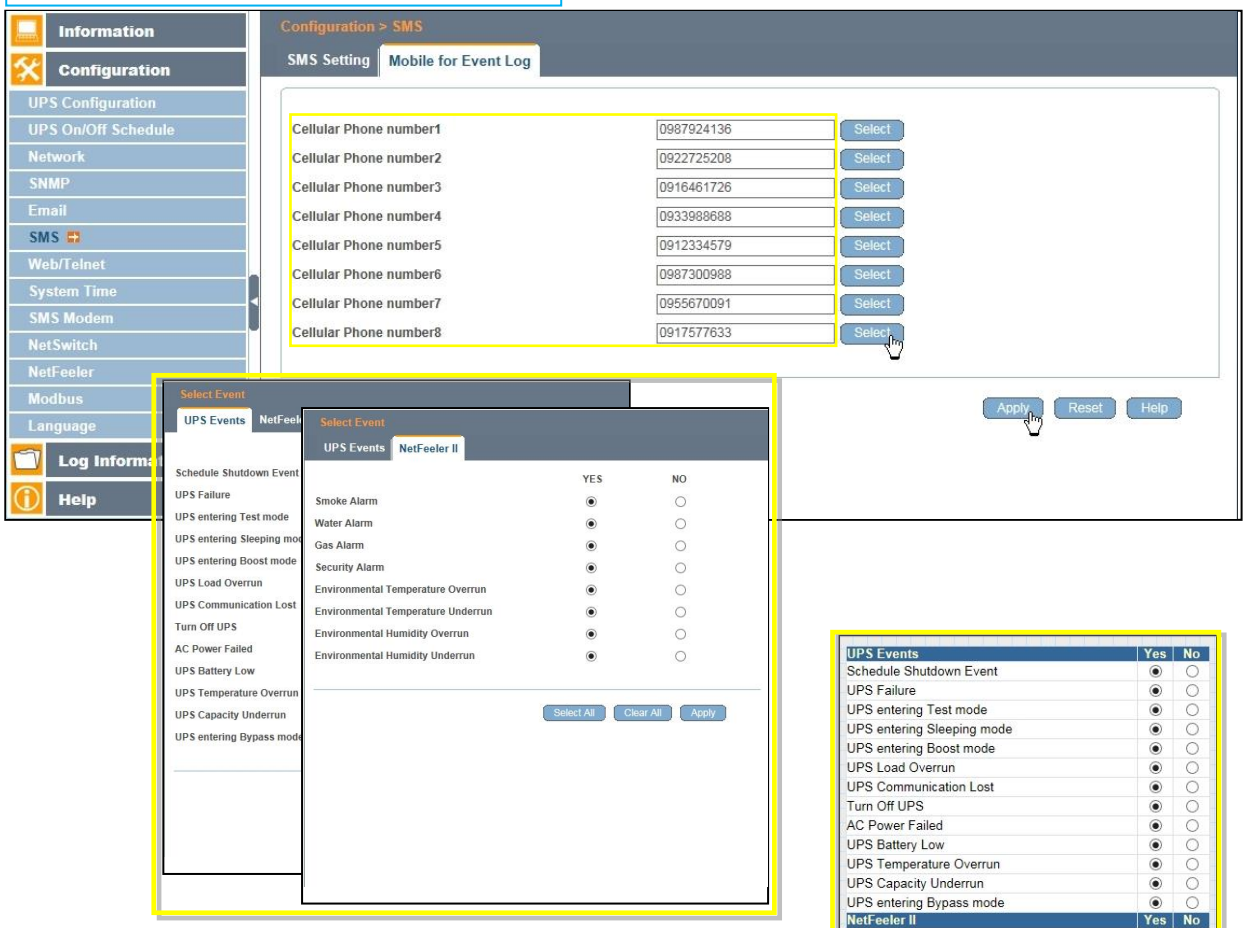

NetAgent Mini & NetAgent II

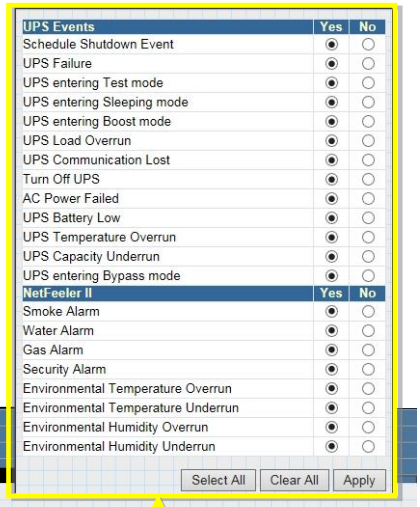


- Mobile for Event Log

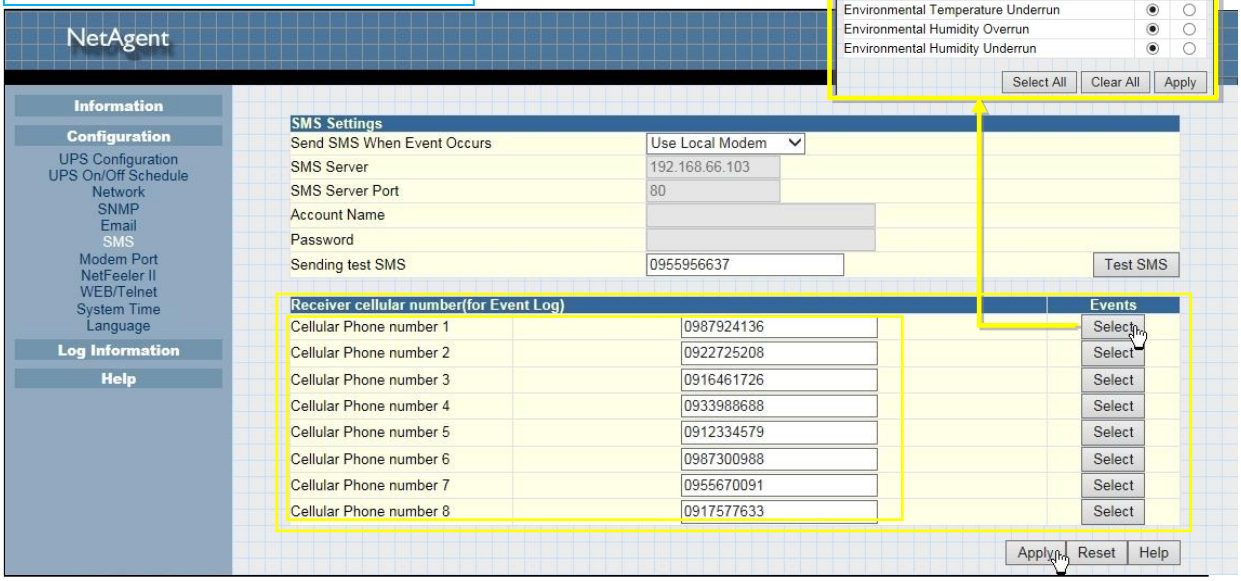
To set the recipient's mobile number for SMS notification when event or NetFeeler event occurs. A total of 8 mobile numbers can be assign.

NetAgent 9 Mini and NetAgent 9




NetAgent II and NetAgent Mini



## ■ Configuration > Web/Telnet

To set permission for each user account for Web and Telnet access. It is valid for up to 8 users.

- User account

*User Name*：

To set password for NetAgent Web and Telnet access.

*Password*：

To set password for NetAgent Web and Telnet access.

*Permission*：

To set No Access / Read/ Read&Write)

✹ Permission Rule： At least one user account must be Read/Write

✹ Permission Rule : User name with Read and Write cannot be blank

*IP Filter：*

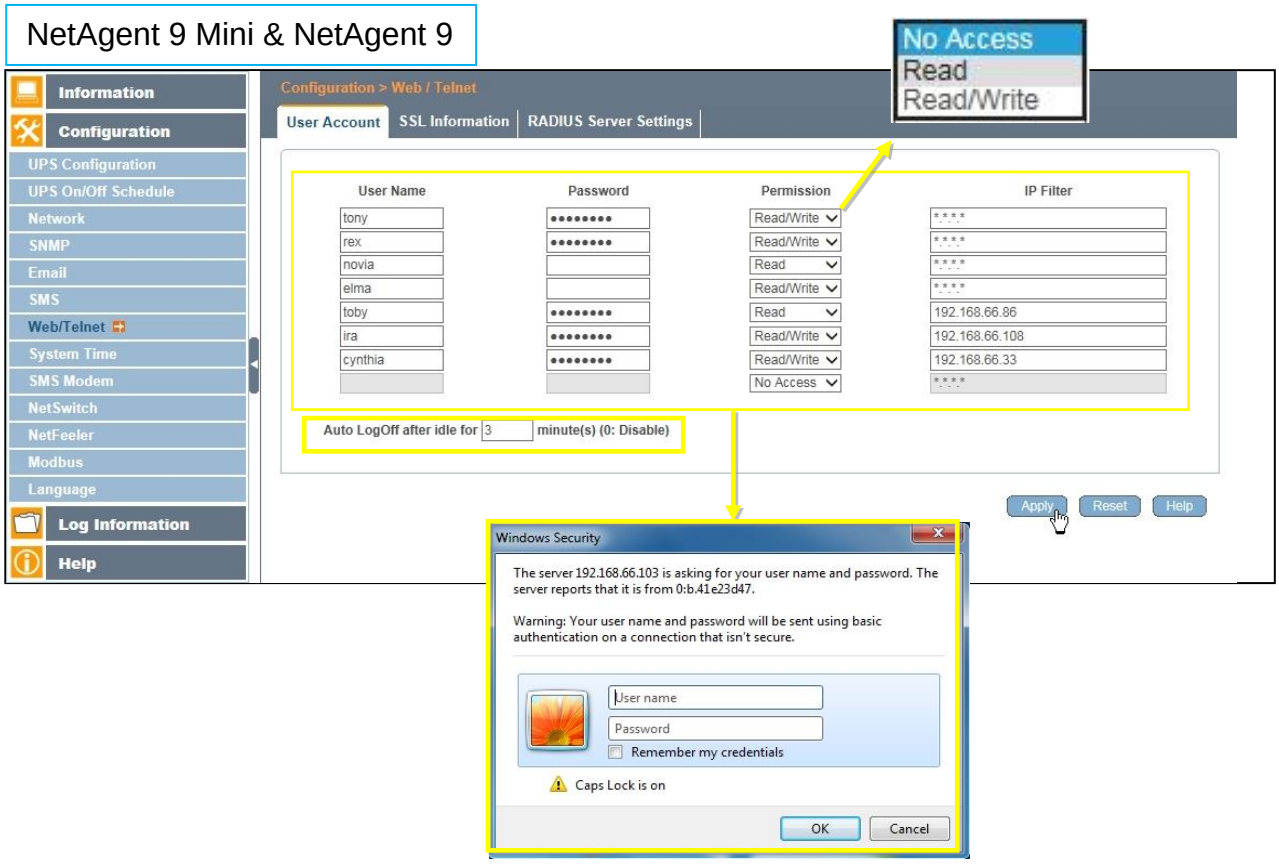
Only specific IP address could login to NetAgent

✹ *.*.*.* means any IP address

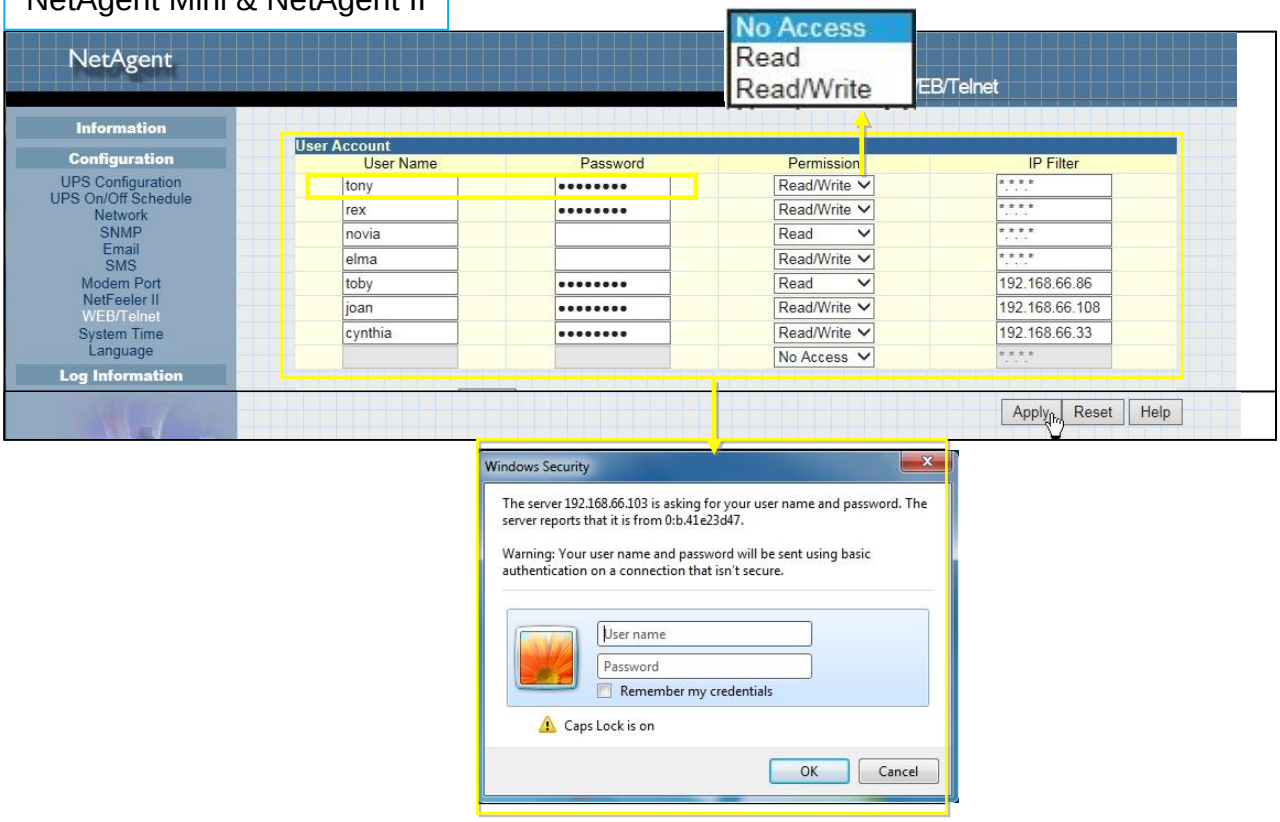
*Auto Logoff after Idle for ☐ minute (s). ( 0 is disabled)*

NetAgent webpage will be logoff automatically if it idle for the preset value.

NetAgent 9 Mini & NetAgent 9



NetAgent Mini & NetAgent II




- SSL Information

NetAgent supports HTTPS protocol and varies SSL encryptions version for network connection. User may upload its Public Key and Certification for authentication

*Table of SSL versions that NetAgent supports*

| | SSL v2 | SSL v3 | TLS v1.0 | TLS v1.1 | TLS v1.2 |
|---|---|---|---|---|---|
| **NetAgent9 & Mini** | ✓ | ✓ | ✓ | ✓ | ✓ |
| **NetAgent DT/CT/BT** | | ✓ | | | |

HTTPS Protocols

Select the encryption version

☐ SSL v2
☐ SSL v3
☐ SSL v1.0
☐ SSL v1.1
☐ SSL v1.2

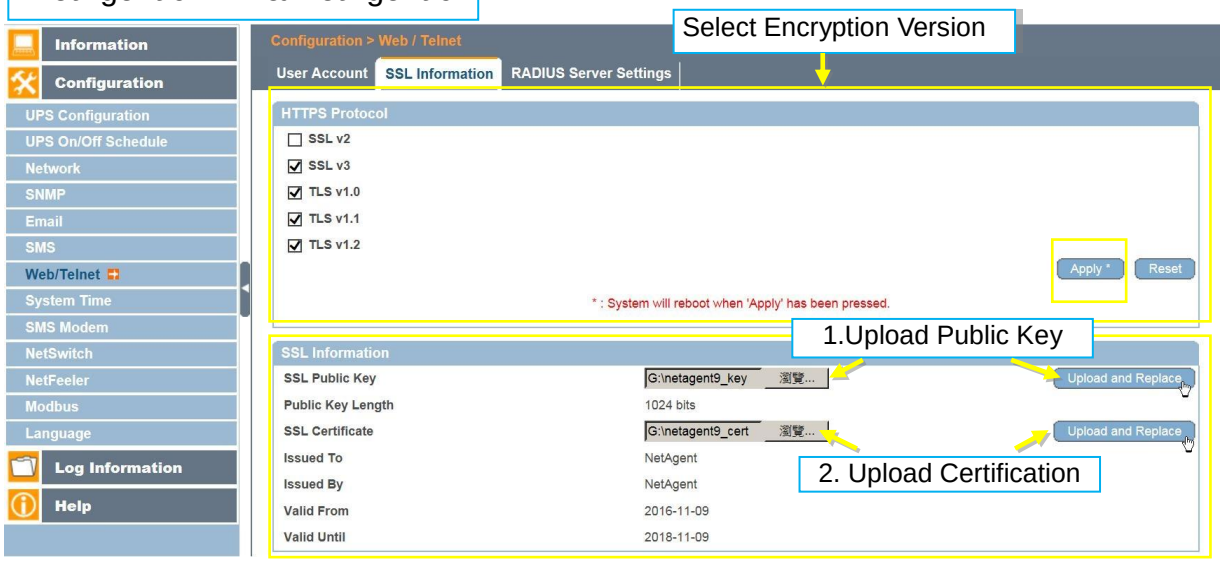
✹ Once click on Apply, NetAgent will reboot

SSL Information

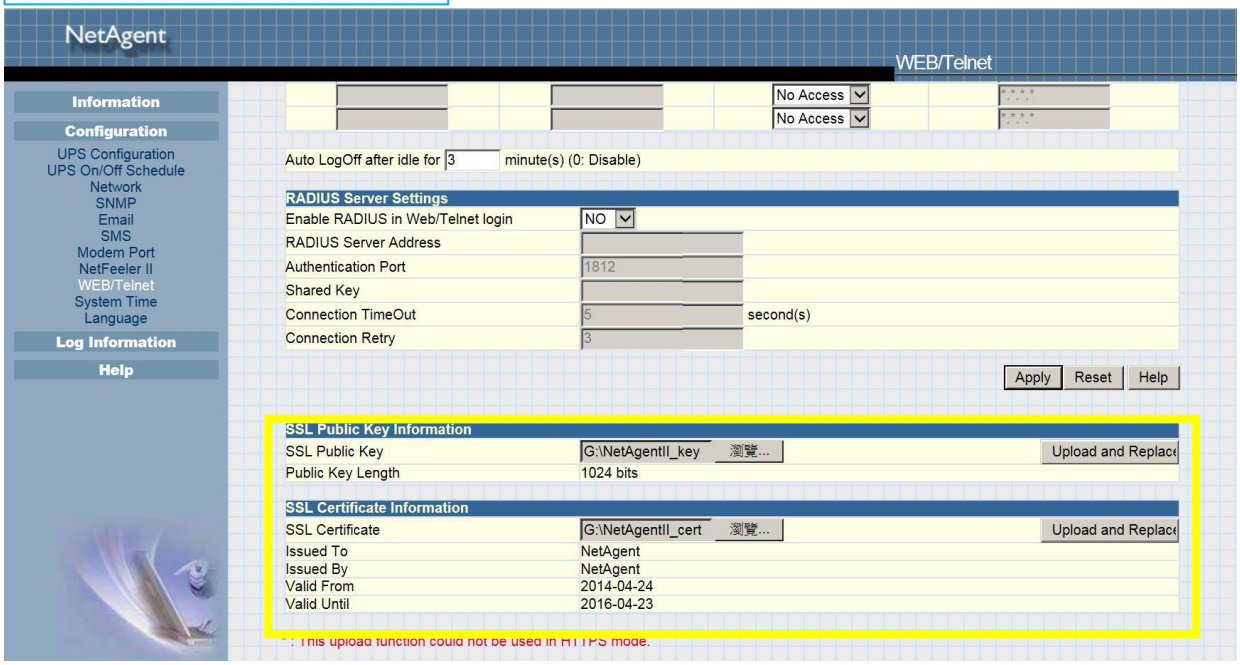
This is to upload the SSL certificate. When both public key and certificate are uploaded to NetAgent web server, the communication will be encrypted by SSL

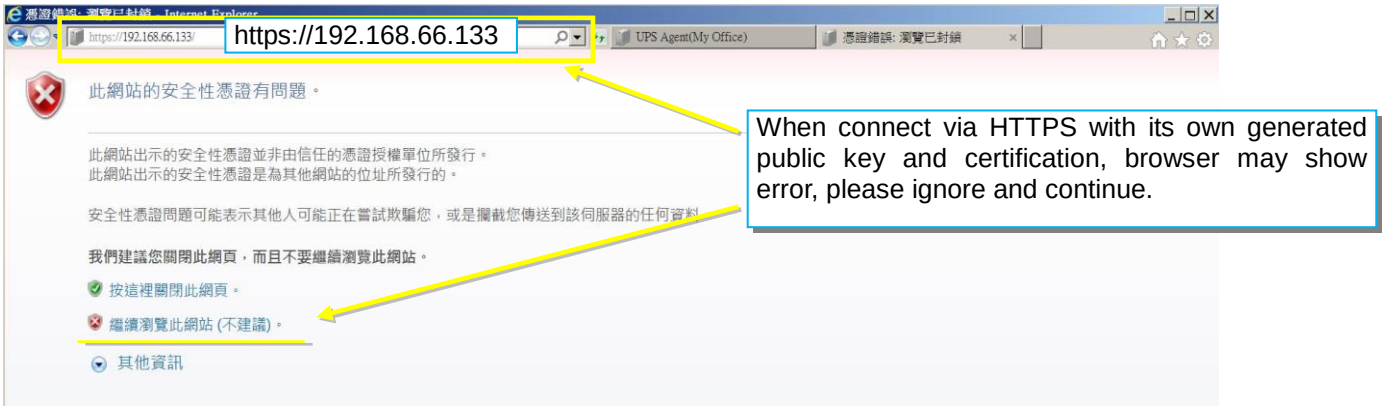
(To communicate via Https, make sure to enable Https port 443.)To create its own public key and certification, please refer to OpenSSL software in the CD

## NetAgent 9 Mini & NetAgent 9



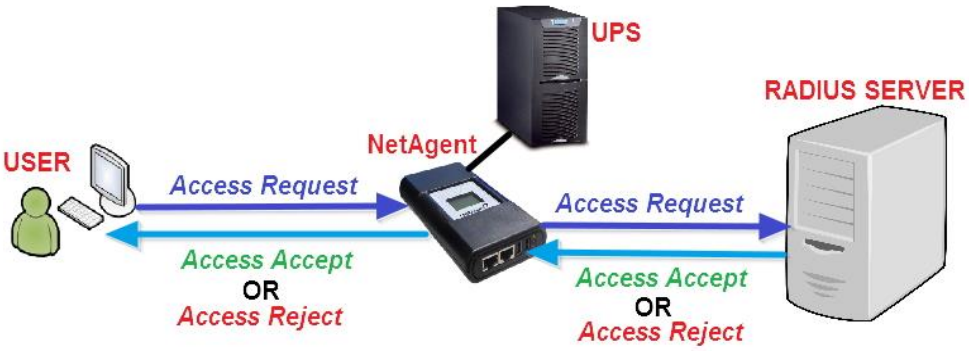

## NetAgent Mini & NetAgent II



- RADIUS Server Setting

If RADIUS server authentication is required for the network, NetAgent could be added by entering following parameter.




*Enable RADIUS in Web/Telnet Login:*

To select if to enable RADIUS

*RADIUS Server Address*：

To enter the IP address of the RADIUS Server

*Authentication Port*：

RADIUS port number (Default is 812)

*Shared Key*：

Enter the Shared Key between RADIUS Server and client

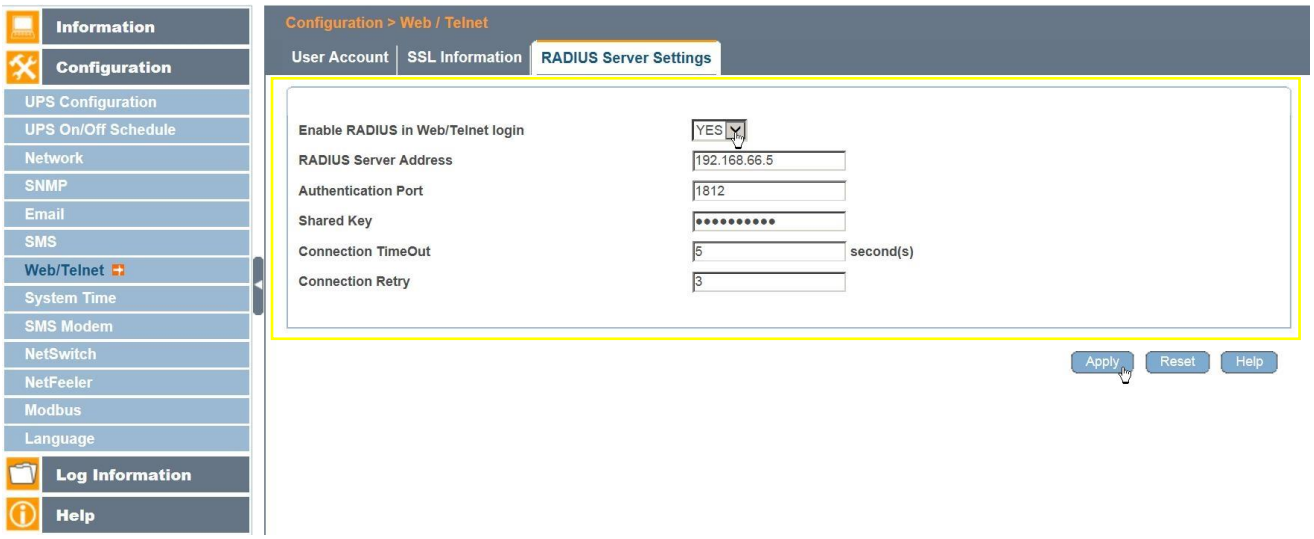
*Connection Timeout*：

Set the number of seconds to suspend the login time after the RADIUS server is rejected

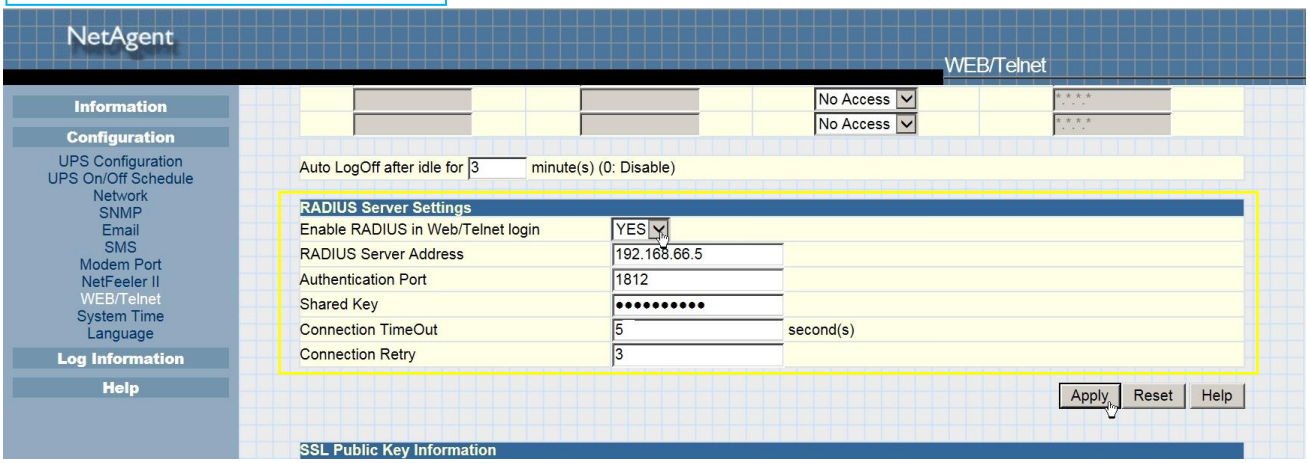
*Connection Retry*：

Sets the number of connections to the RADIUS server again

NetAgent 9 Mini & NetAgent 9

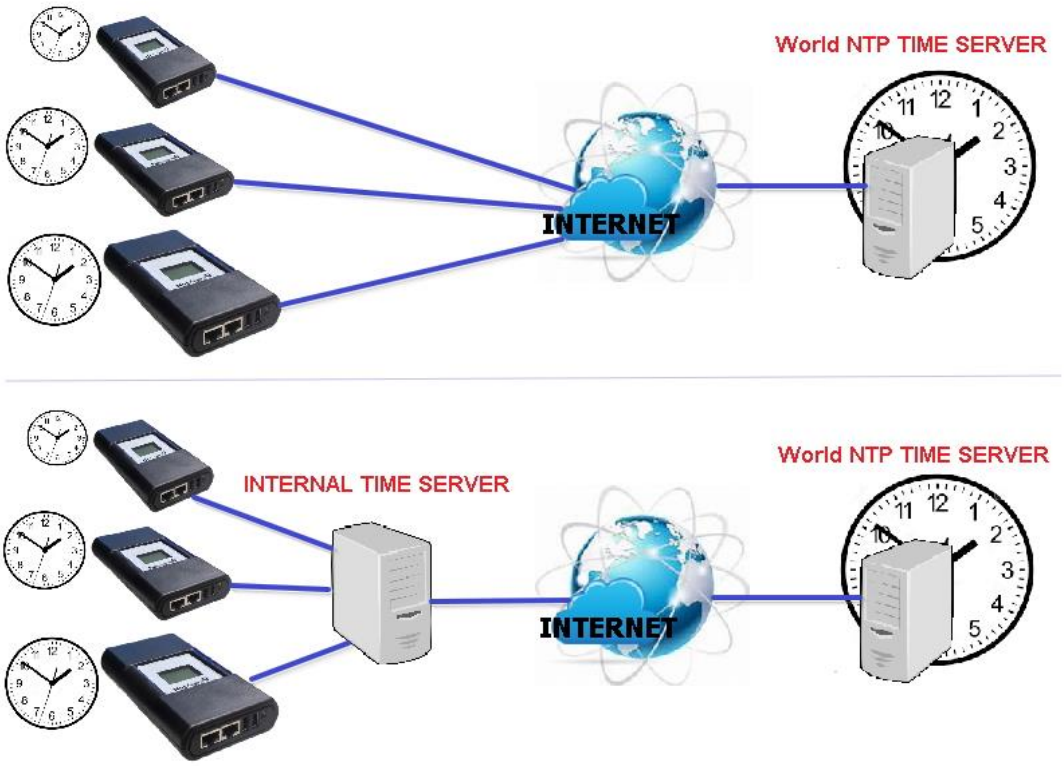


NetAgent Mini & NetAgent II



## ■ Configuration > System Time

This page is to set NetAgent's system time. NetAgent could synchronize with external or internal Time Server.




System Time

*Time Between Automatic Updates*：

To set an interval for time synchronization.

*Time Server*：

Time server can be select from the drop down list , or add other time server manually.

*Time Zone(Relative to GMT)*：

To select its GMT time zone

*Using Daylight Saving Time*：

Select whether to use the daylight saving time system to adjust the clock for 1 hour in advanced

*System Time(yyyy/mm/dd hh:mmm:ss)*：

To display the current system time/date of NetAgent. Or click on Adjust Now to adjust to the correct time/date automatically

Restart

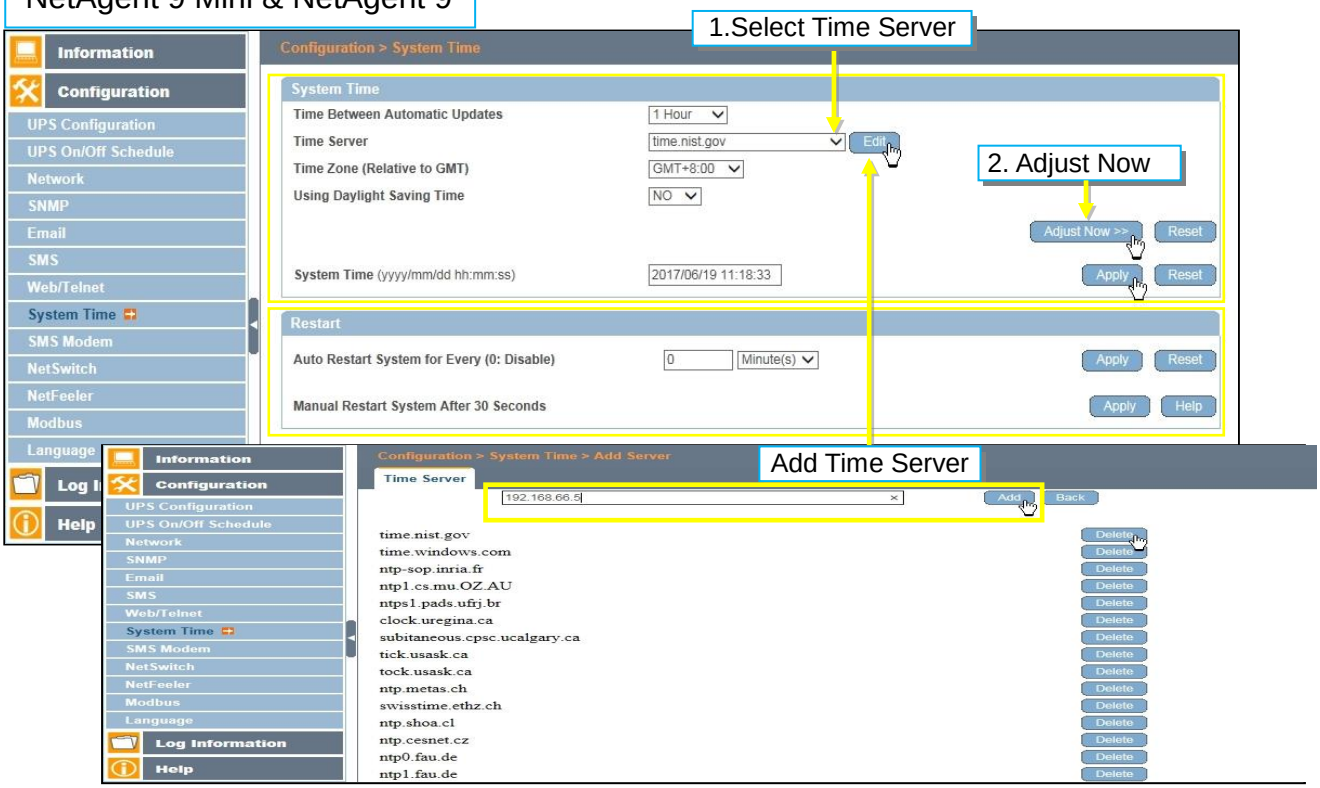
*Auto Restart System for Every (0 is disabled):*

NetAgent to restart automatically at preset hour or minute

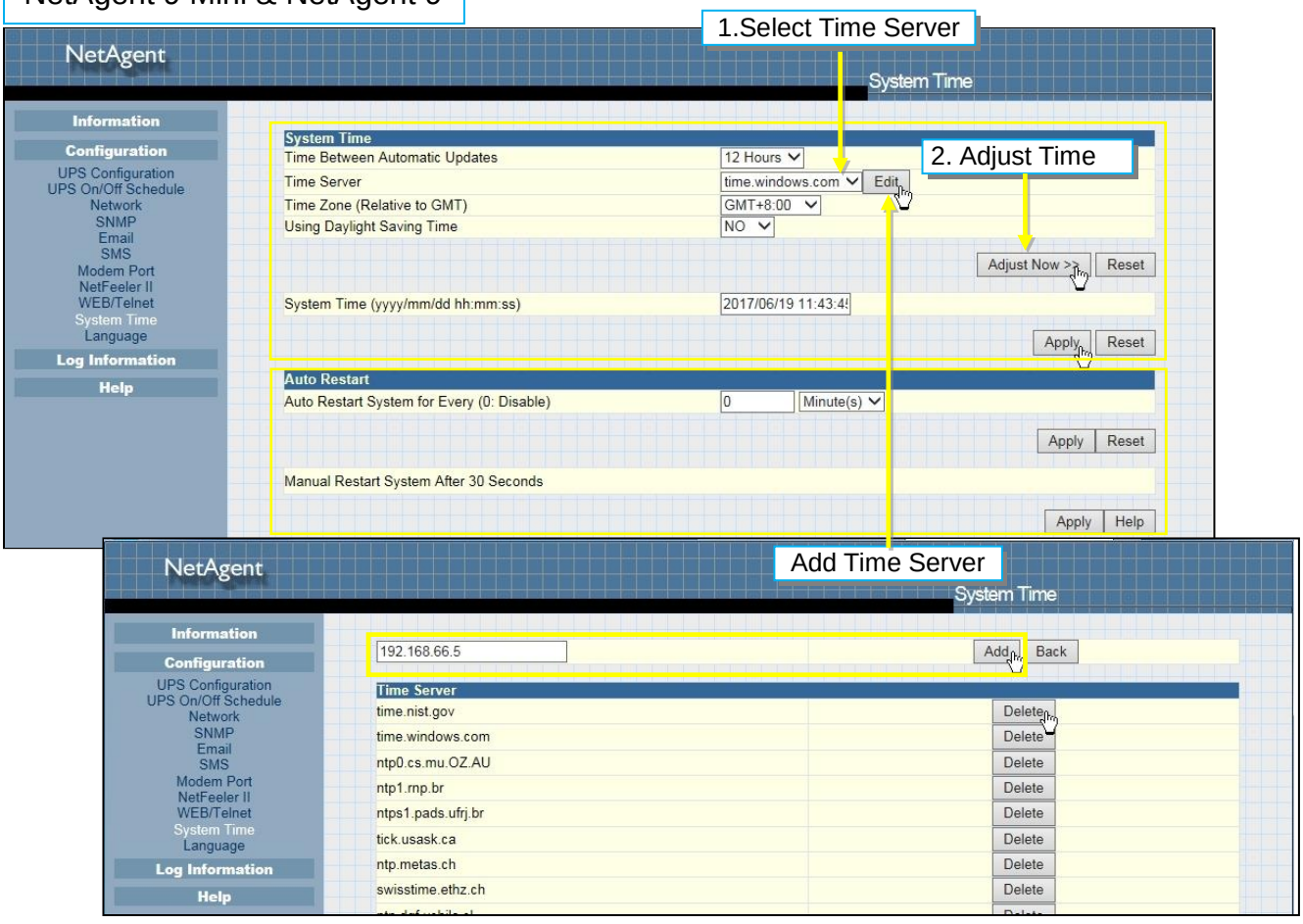
*Manual Restart System After 30 seconds*：

Once click on Apply, NetAgent would restart after 30 seconds

NetAgent 9 Mini & NetAgent 9

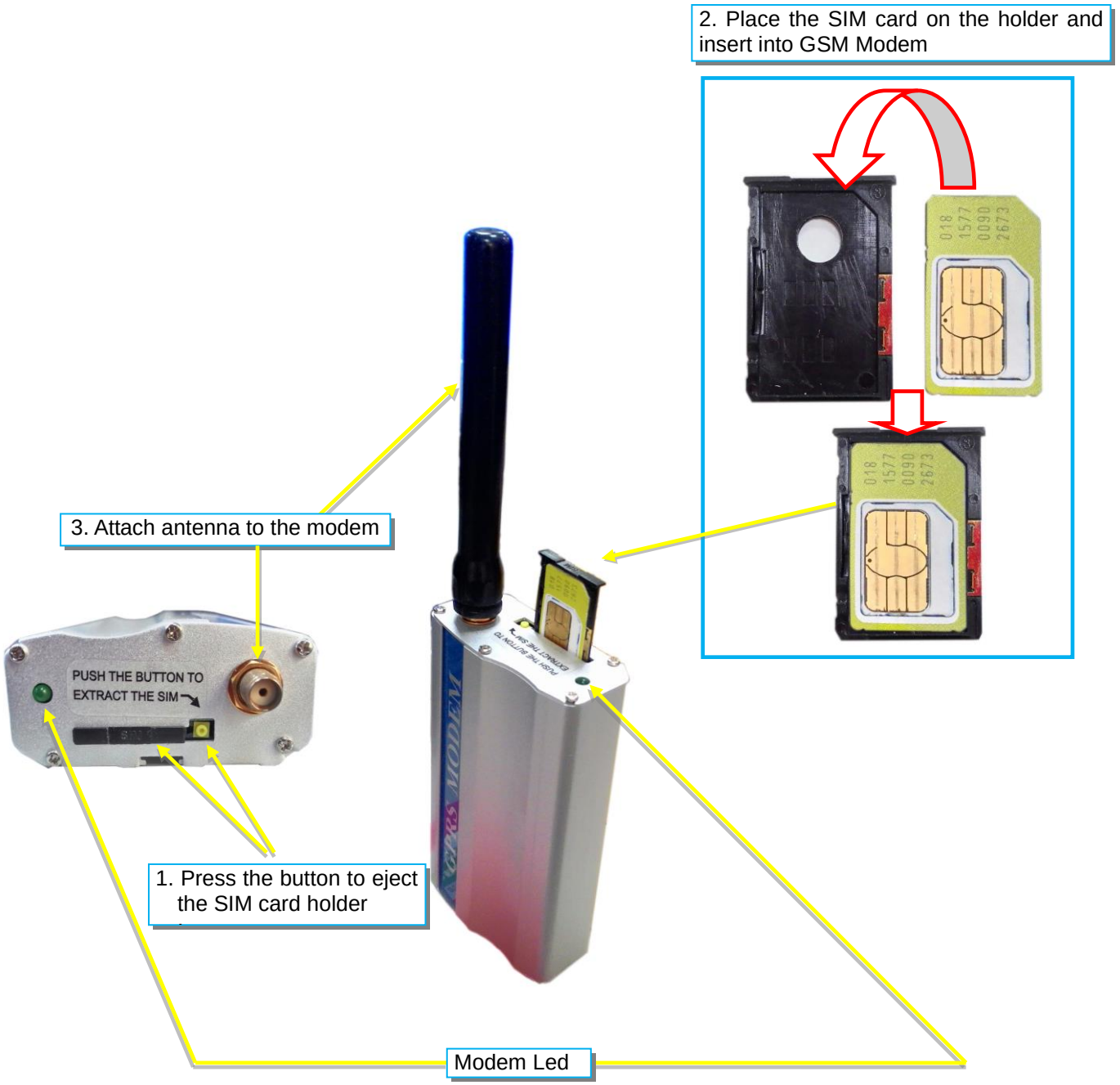



NetAgent 9 Mini & NetAgent 9



## ■ Configuration > SMS Modem

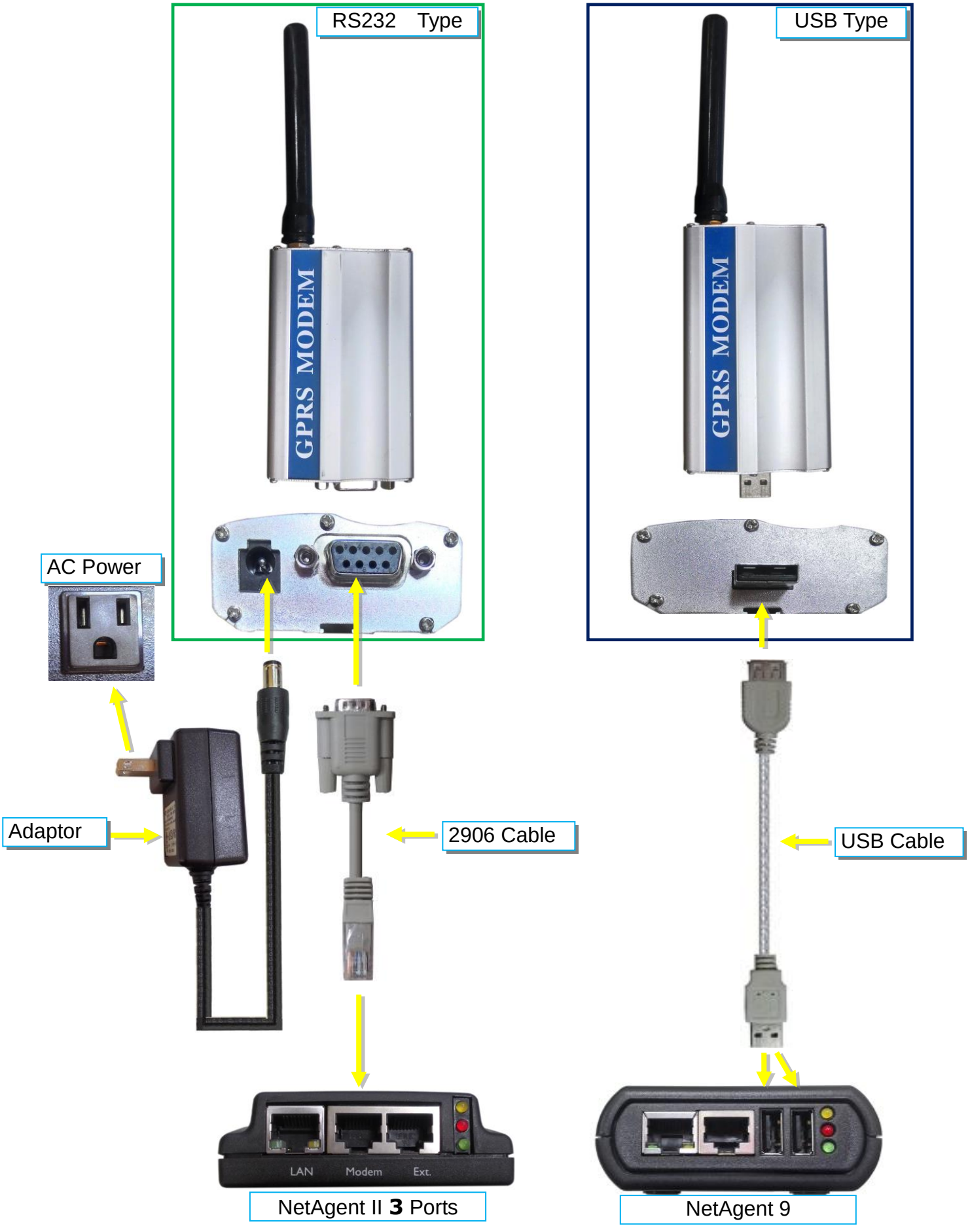
☐ Modem Setup Procedure




**Modem Led Status**

1. **If flash every 0.8 seconds** :
   - ■Modem initializing, please wait
   - ■If no respond
     - **(1)** Check if PIN is correctly entered, or if PIN is required
     - **(2)** Check if SIM card is inserted corrected
     - **(3)** Check if no or low signal

2. **If flash every 3 seconds** :
   - ■Modem is ready for operation


RS232 Type
USB Type
GPRS MODEM
GPRS MODEM
AC Power
Adaptor
2906 Cable
USB Cable
LAN
Modem
Ext.
NetAgent II 3 Ports
NetAgent 9

- SMS Modem Settings

*Modem Communication Port*：

Select “ ttyUSB0” for USB modem connects with NetAgent 9 directly；

Select “SMS “ for modem connects with NetAgent II 3 Ports

*SMS Communication*：

Select between GPRS or CDMA

*SIM Card PIN*：

If PIN is required for the SIM card, please enter

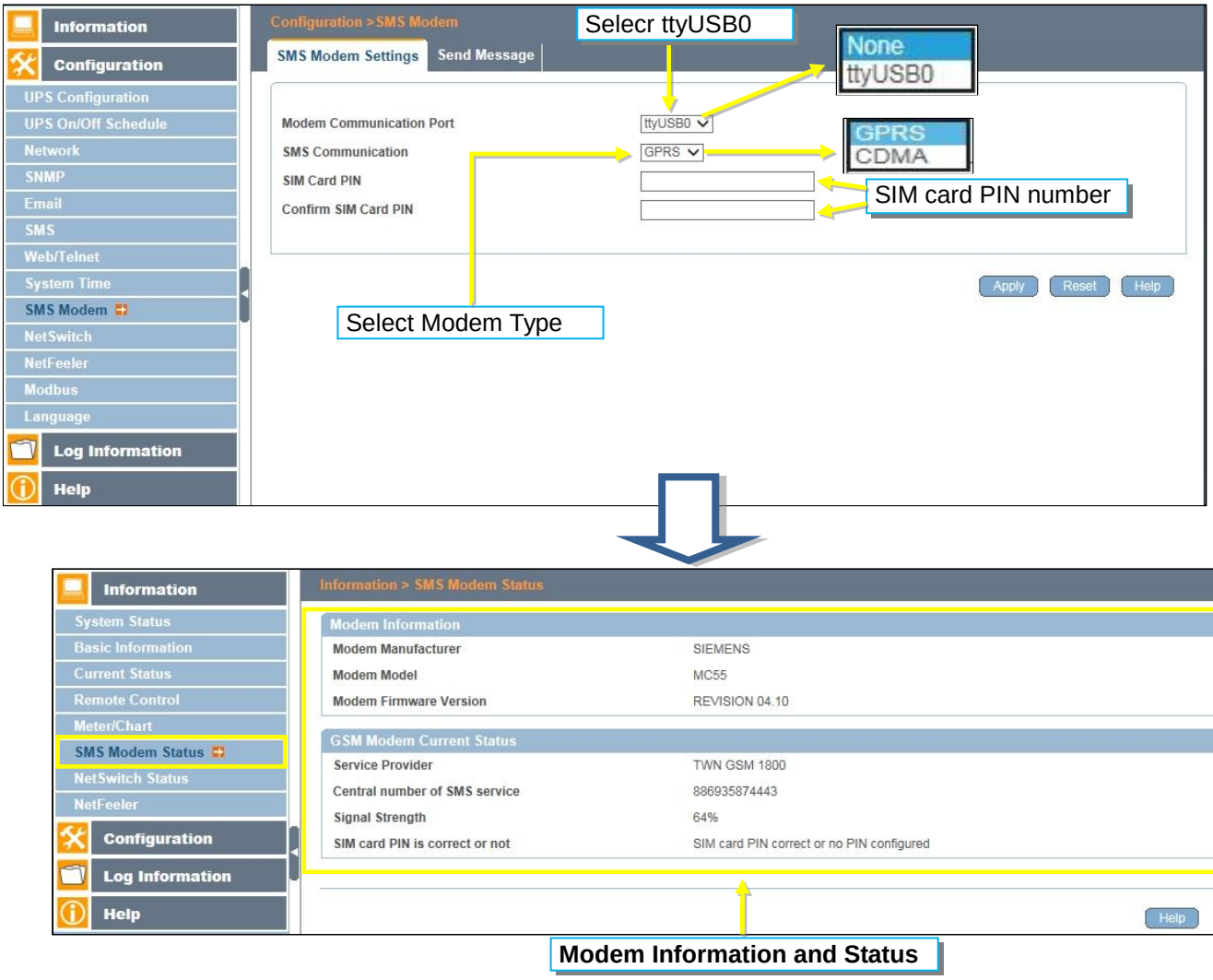
*Confirm SIM PIN*：

Retype SIM card PIN

When all done, click on Apply. Modem Information and Status can be check from Information> SMS Modem Status

✹ Once click on Apply on NetAgent 3 ports model, NetAgent will reboot

NetAgent 9 W/USB



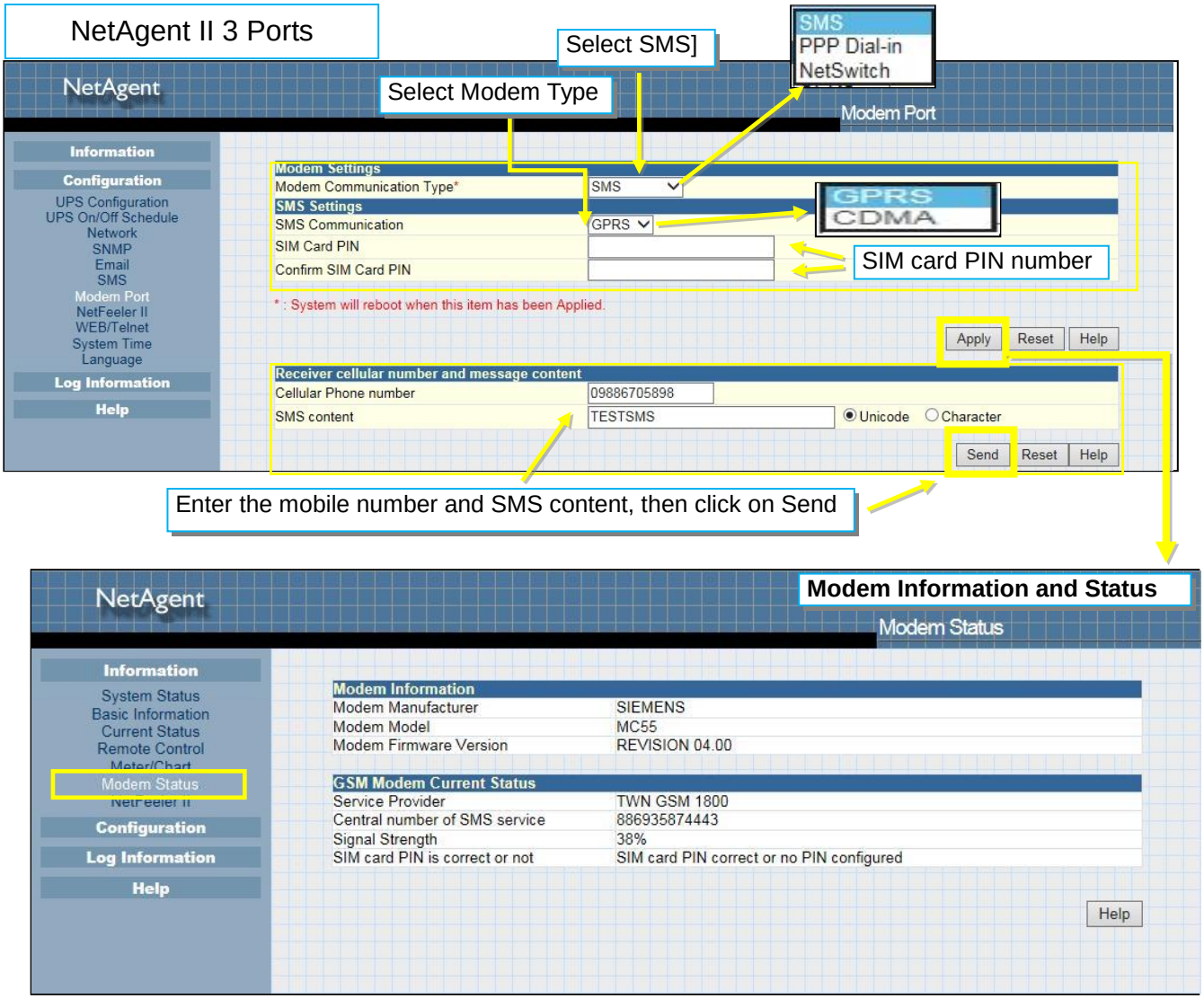
- Send Message

*Cellular Phone number*：

Enter mobile number

*SMS Content(Max.70 Characters)*：

Enter the SMS content text and select coding. Unicode or Character

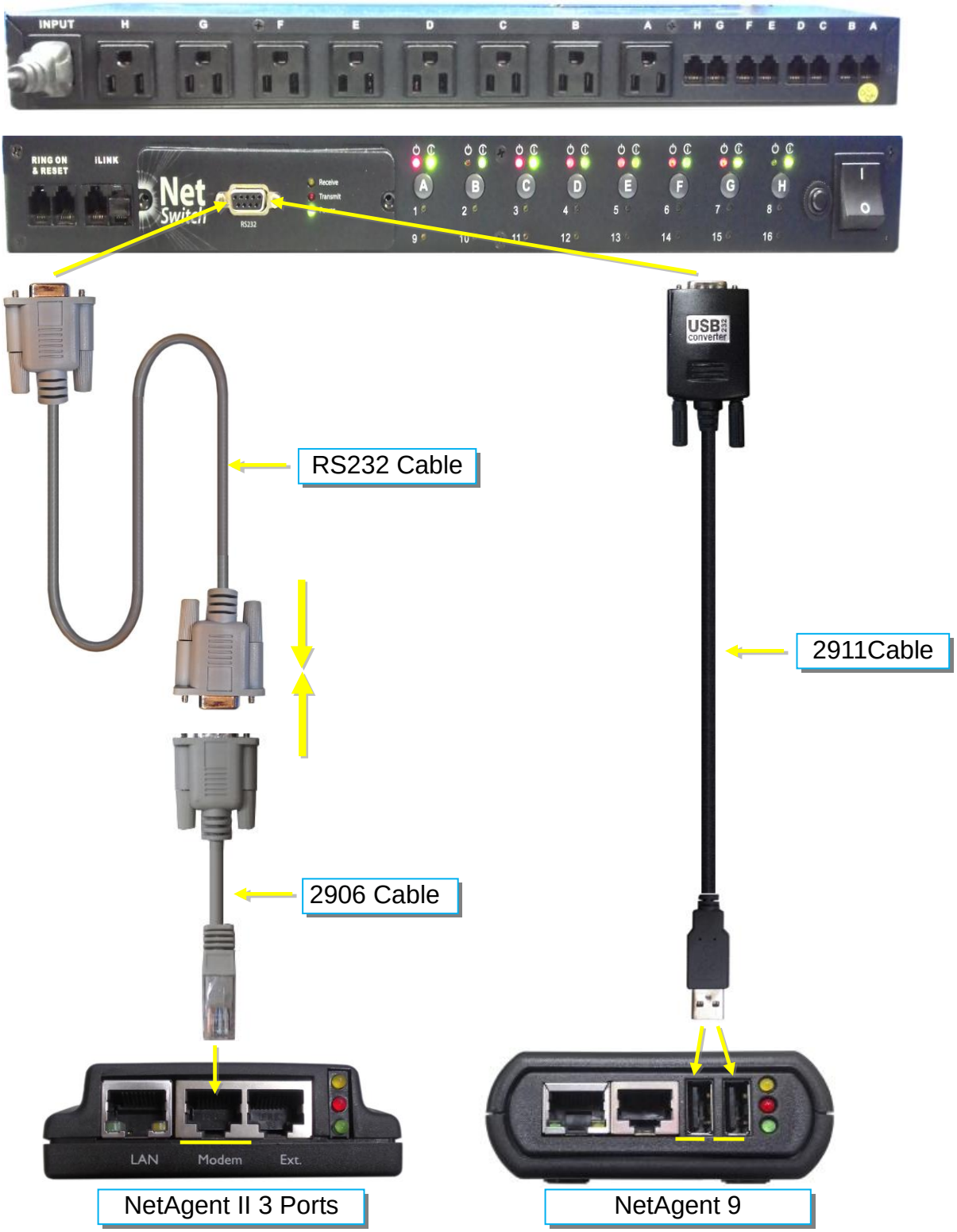

NetAgent II 3 Ports
Select SMS]
SMS
PPP Dial-in
NetSwitch
Select Modem Type
NetAgent
Modem Port
Information
Configuration
UPS Configuration
UPS On/Off Schedule
Network
SNMP
Email
SMS
Modem Port
NetFeeler II
WEB/Telnet
System Time
Language
Log Information
Help
Modem Settings
Modem Communication Type*
SMS
SMS Settings
SMS Communication
GPRS
CDMA
SIM Card PIN
Confirm SIM Card PIN
SIM card PIN number
* : System will reboot when this item has been Applied.
Apply
Reset
Help
Receiver cellular number and message content
Cellular Phone number
09886705898
SMS content
TESTSMS
Unicode
Character
Send
Reset
Help
Enter the mobile number and SMS content, then click on Send


NetAgent
Modem Information and Status
Modem Status
Information
System Status
Basic Information
Current Status
Remote Control
Modem Status
Configuration
Log Information
Help
Modem Information
Modem Manufacturer
SIEMENS
Modem Model
MC55
Modem Firmware Version
REVISION 04.00
GSM Modem Current Status
Service Provider
TWN GSM 1800
Central number of SMS service
886935874443
Signal Strength
38%
SIM card PIN is correct or not
SIM card PIN correct or no PIN configured
Help

## ■ Configuration > NetSwitch

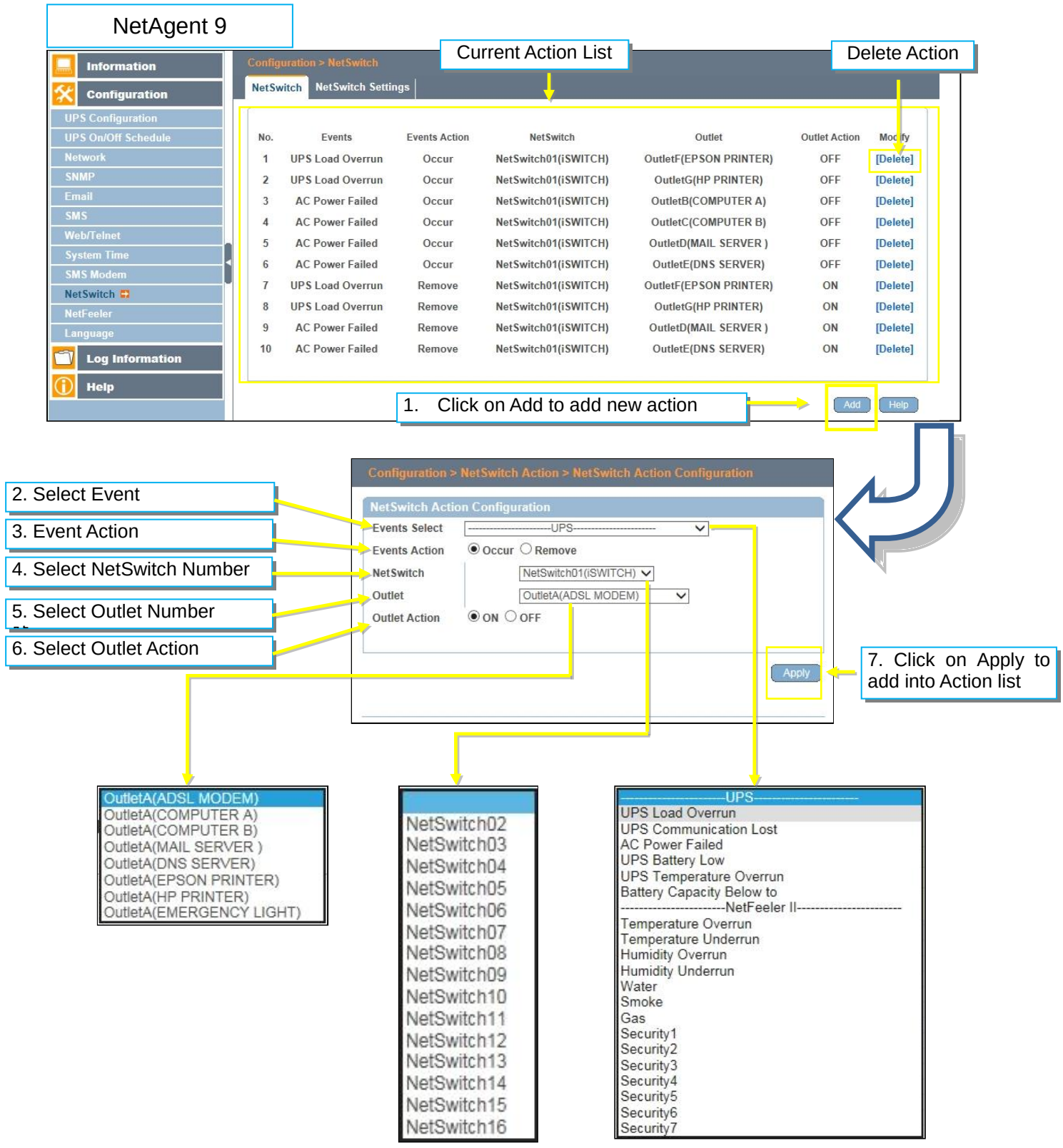
NetAgent 3 Ports (BT model) or NetAgent 9 (BX/BY model) can also connect with our NetSwitch for remote power managment

☐ NetSwitch Installation

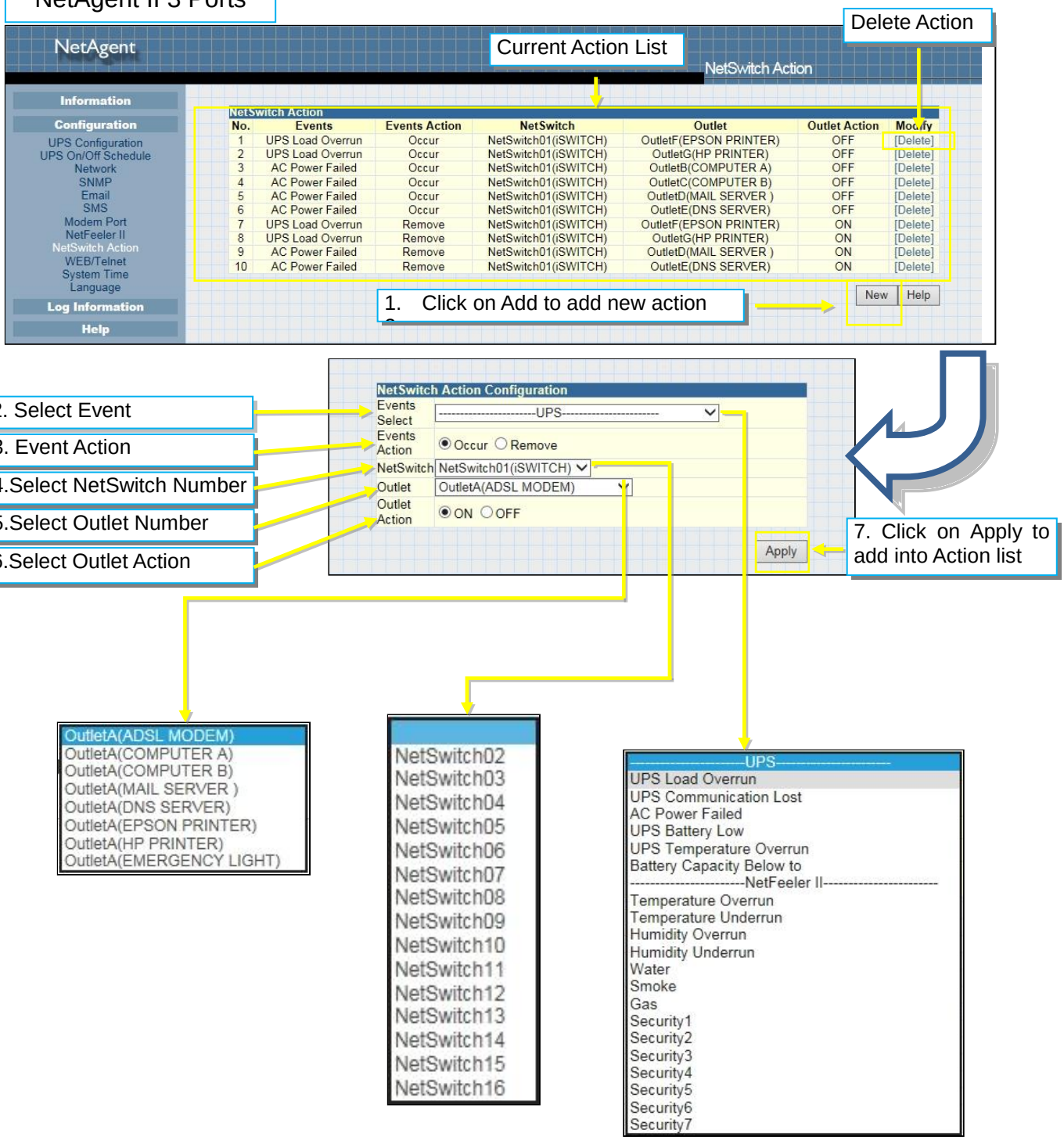


- NetSwitch

When NetAgent BT/BX/BY connects with NetSwitch, it able to perform action to the specific outlet when event or alarm triggers



NetAgent II 3 Ports



- NetSwitch Settings

*NetSwitchCommunication Port*：

Select “ ttyUSB0” for NetSwitch connects with NetAgent 9 directly；

Select “NetSwitch “ for NetSwitch connects with NetAgent II 3 Ports

✹ Once click on Apply on NetAgent 3 ports model, NetAgent will reboot

*Select NetSwitch*：

Select the NetSwitch number (0~16)

*Address Change*：

To adjust the current NetSwitch number (e.g：NetSwitch01➔ NetSwitch03)

*Identication*：

NetSwitch’s ID name

*Outlet*：

Each NetSwitch as 8 individual outlet with code of A~H

*Name*：

To enter a name for each outlet for identification

*Phone Controllable*：

If to control by phone coding (Refer to NetSwitch manual)

*Control Type*：

The action of each outlet. Safe Shutdown / Safe reboot / Instant Shutdown (Refer to NetSwitch manual for definition of each outlet)

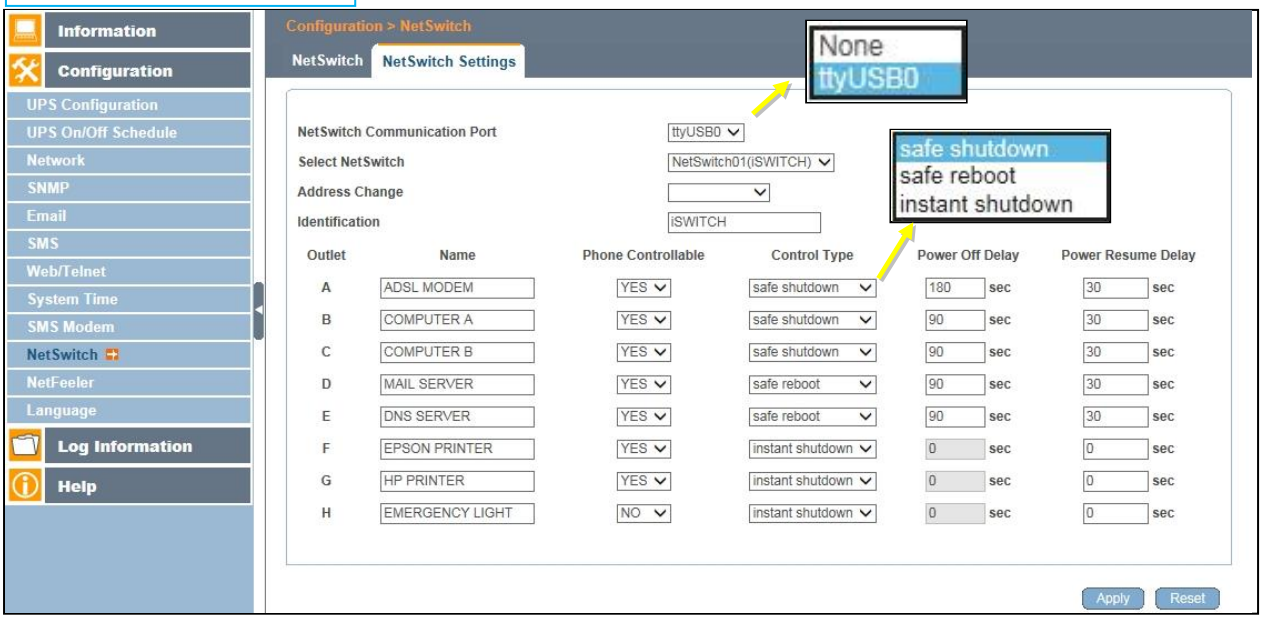
*Power Off Delay*：

When select safe shutdown and safe reboot, this is to set power off delay for the outlet

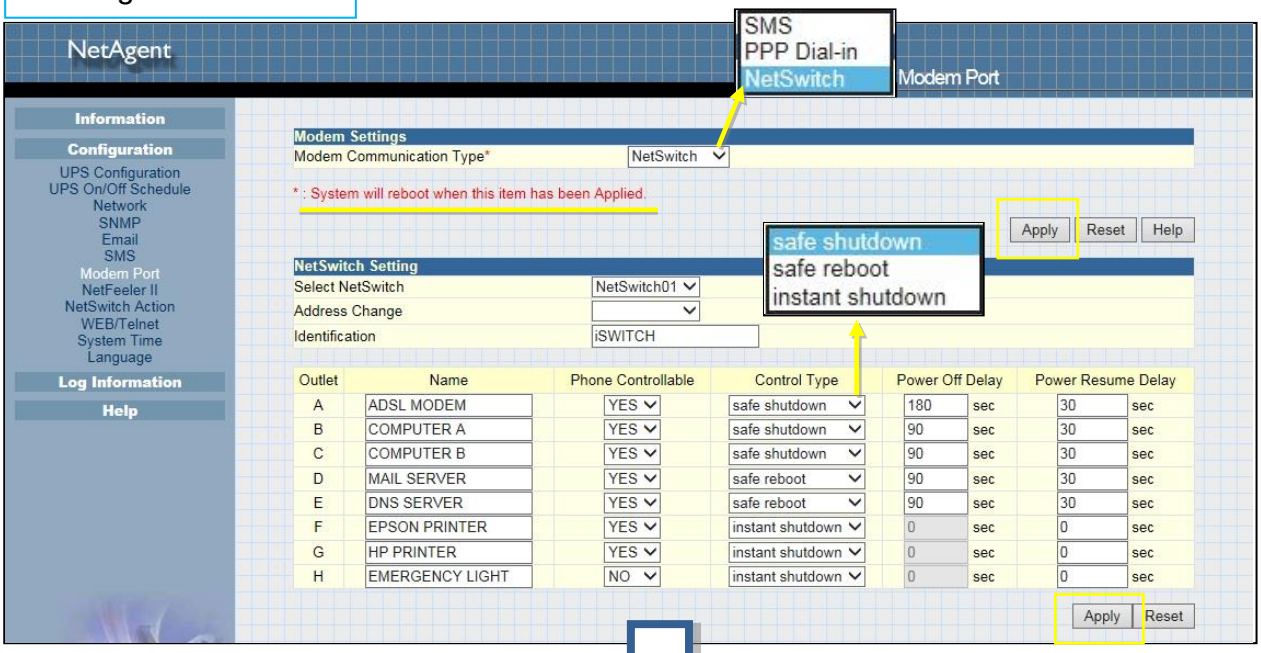
*Power Resume Daly*：

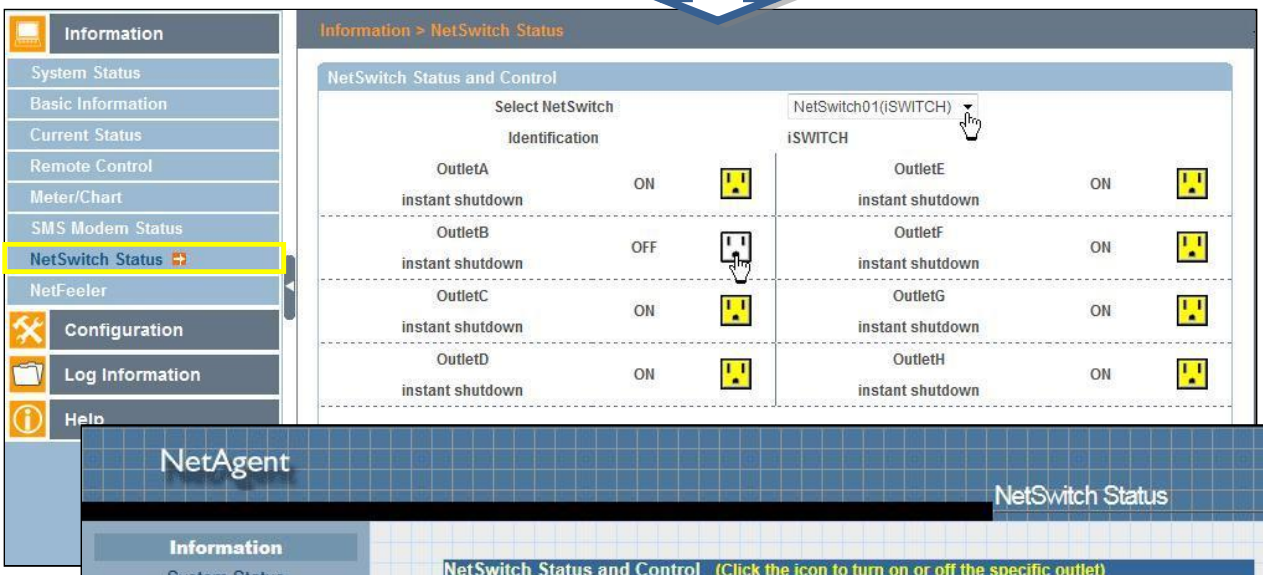
When AC recovers , the time to resume power on the outlet

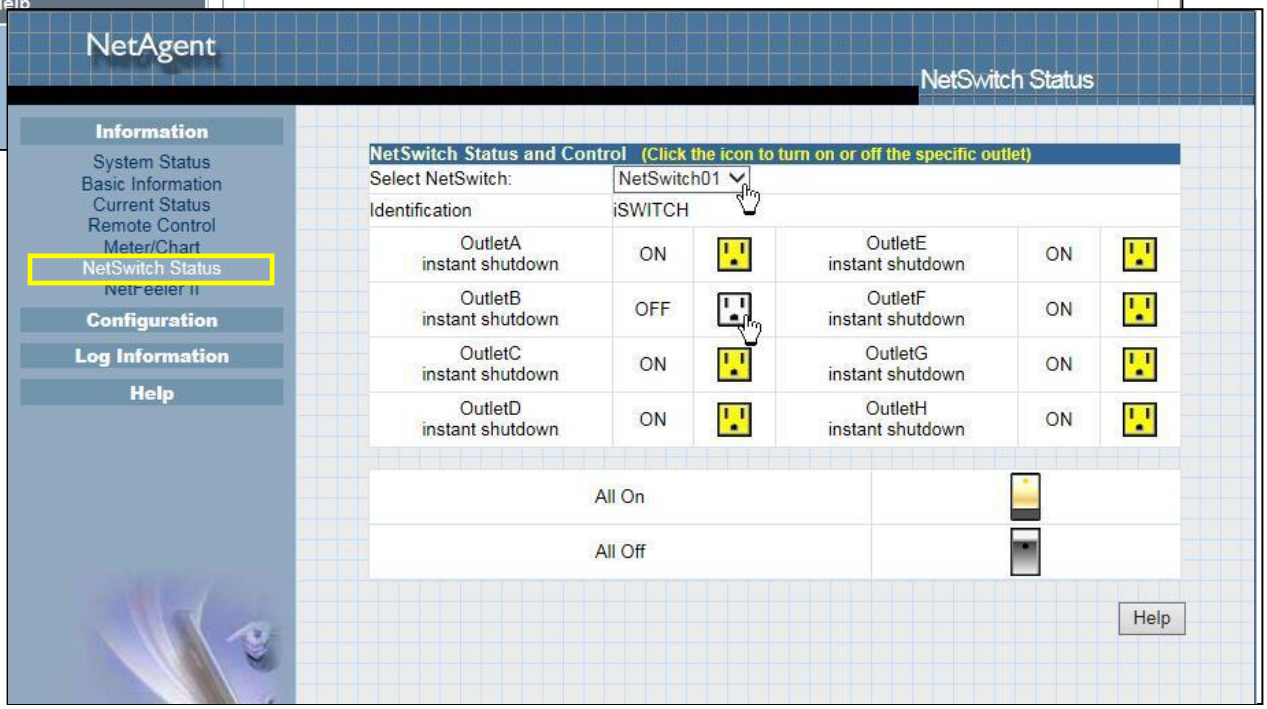
NetAgent 9



NetAgent II 3 Ports



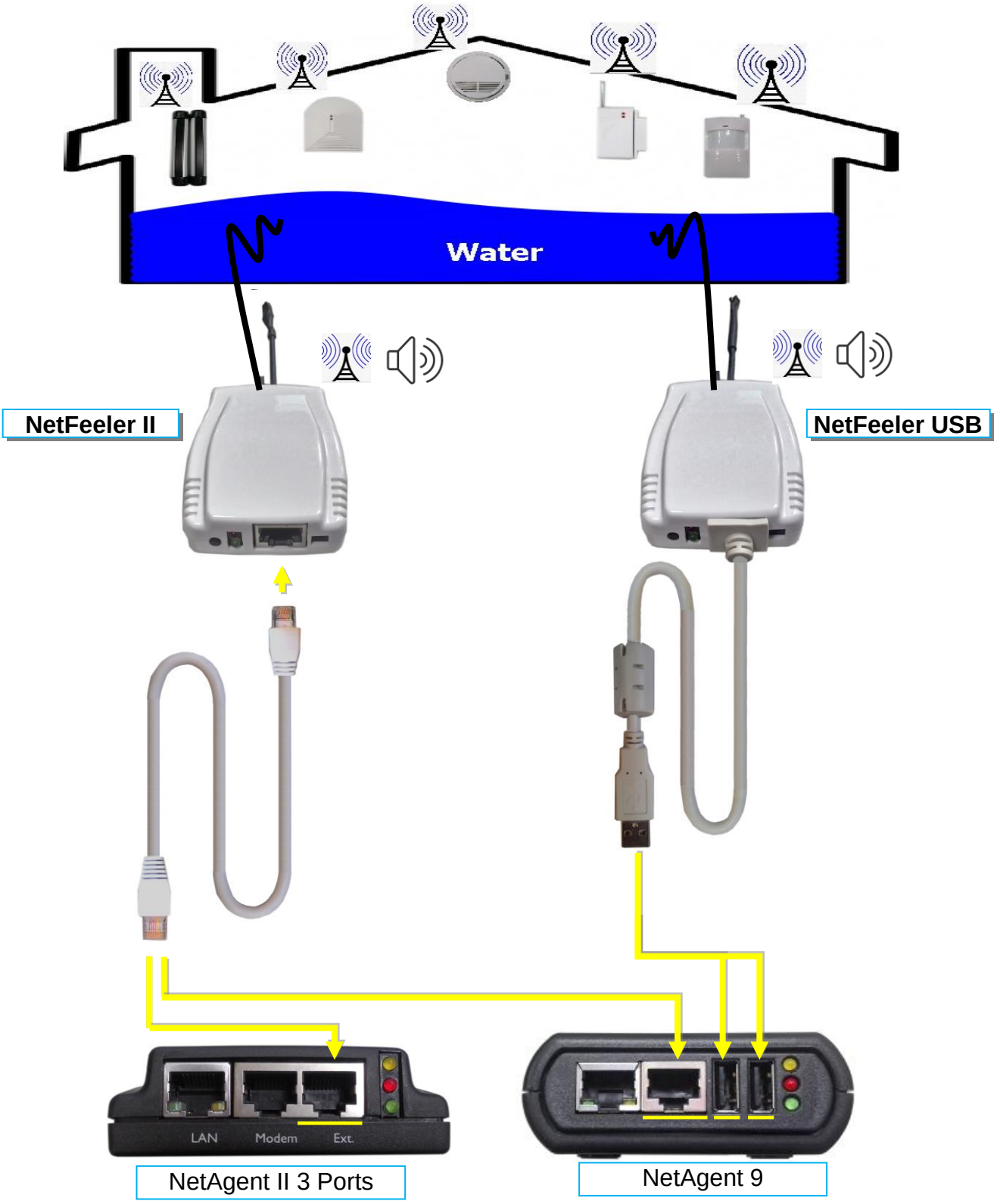



## ■ Configuration > NetFeeler

NetFeeler is the external optional environmental sensor, It is to detects temperature, humidity and water. Inside NetFeeler, it has RF receiver to work with extension sensors such as smoke, security sensor.

☐ NetFeeler Setup



## NetFeeler

*NetFeeler*：

To select NetFeeler type. NetFeeler II / NetFeeler USB

✹NetAgent 9 can use with NetFeeler II or NetFeeler USB

✹NetAgent II 3 Ports only to use with NetFeeler II

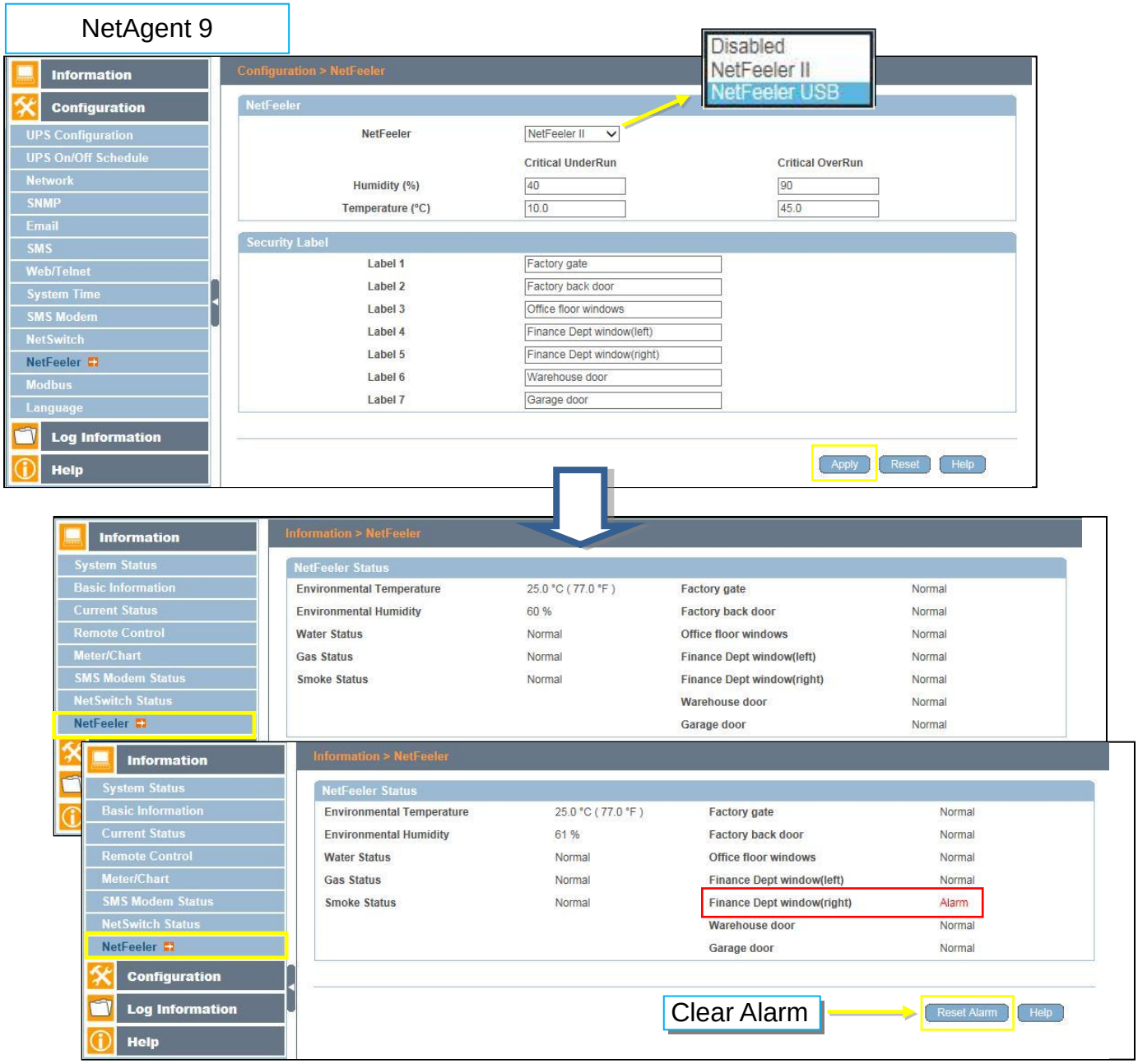
*Humidity/Temperature Critical value*：

To set the lowest and highest critical values for temperature and humidity. NetFeeler II will send a warning message when it detects temperature or humidity values below and above these settings.

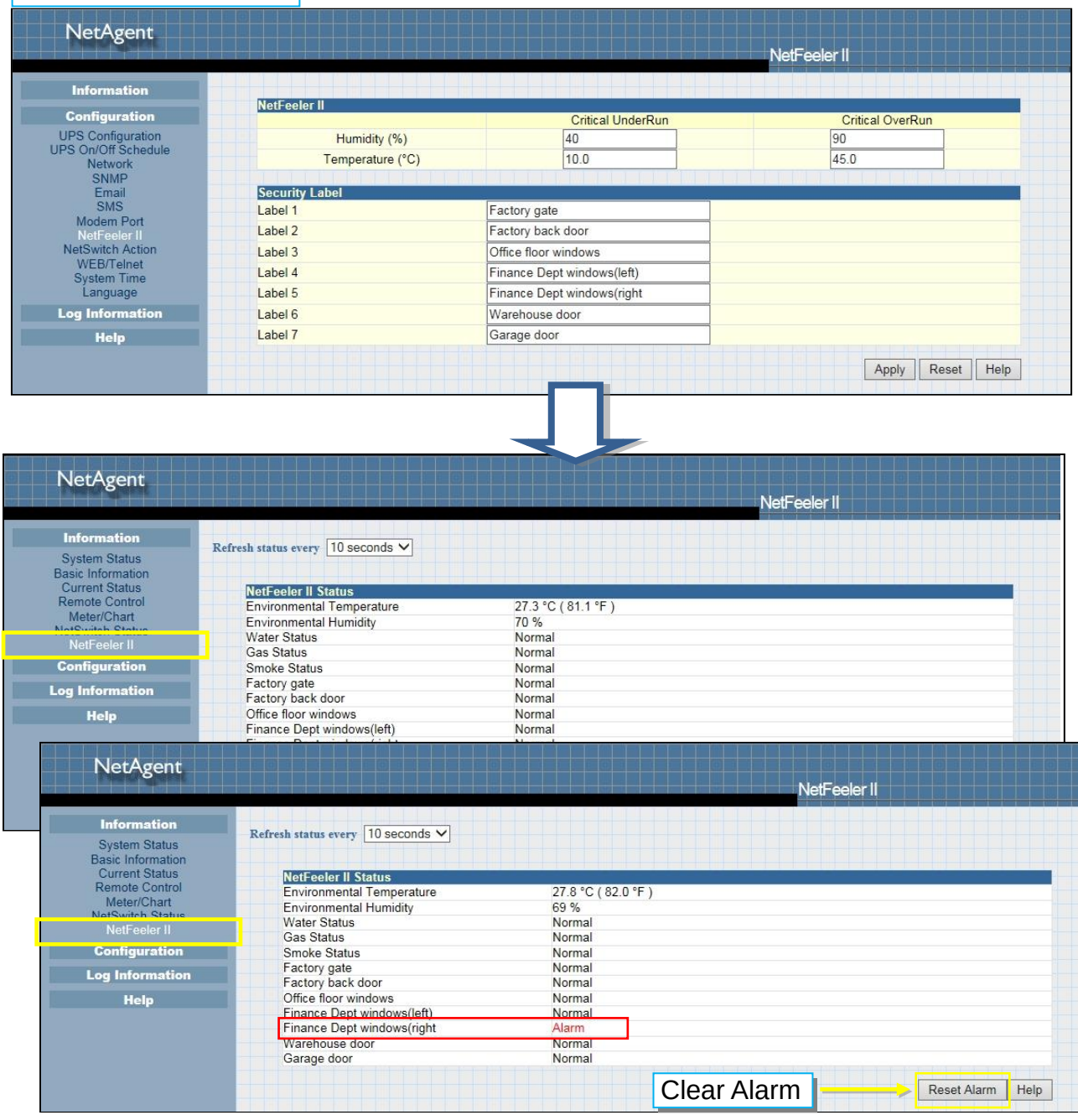
## Security Label

NetFeeler may connect up to 7 security sensors that communicates via RF. This section is to set the location or name of each sensor.

NetAgent 9



NetAgent II 3 Ports

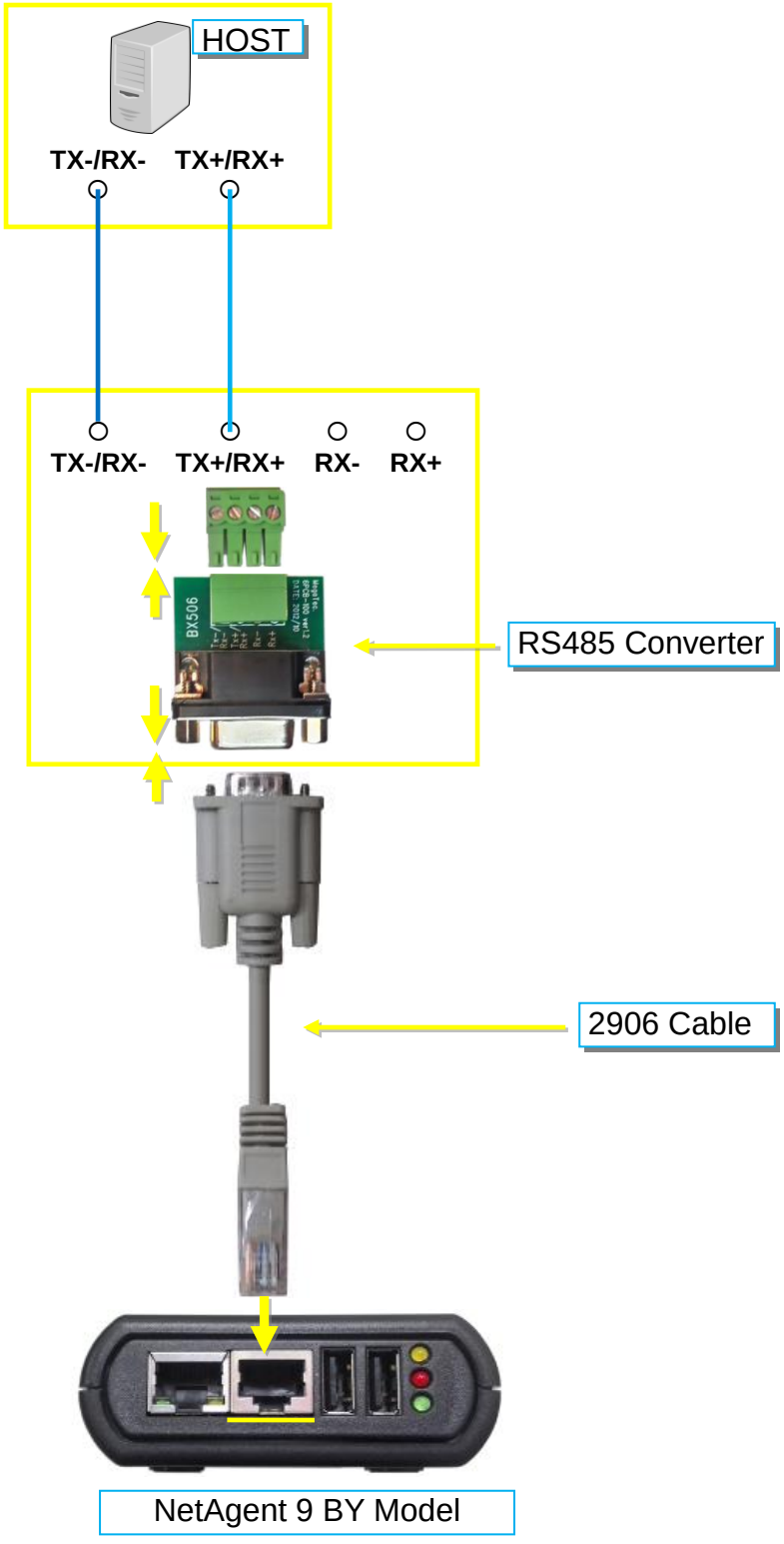


## ■ Configuration > MODBUS

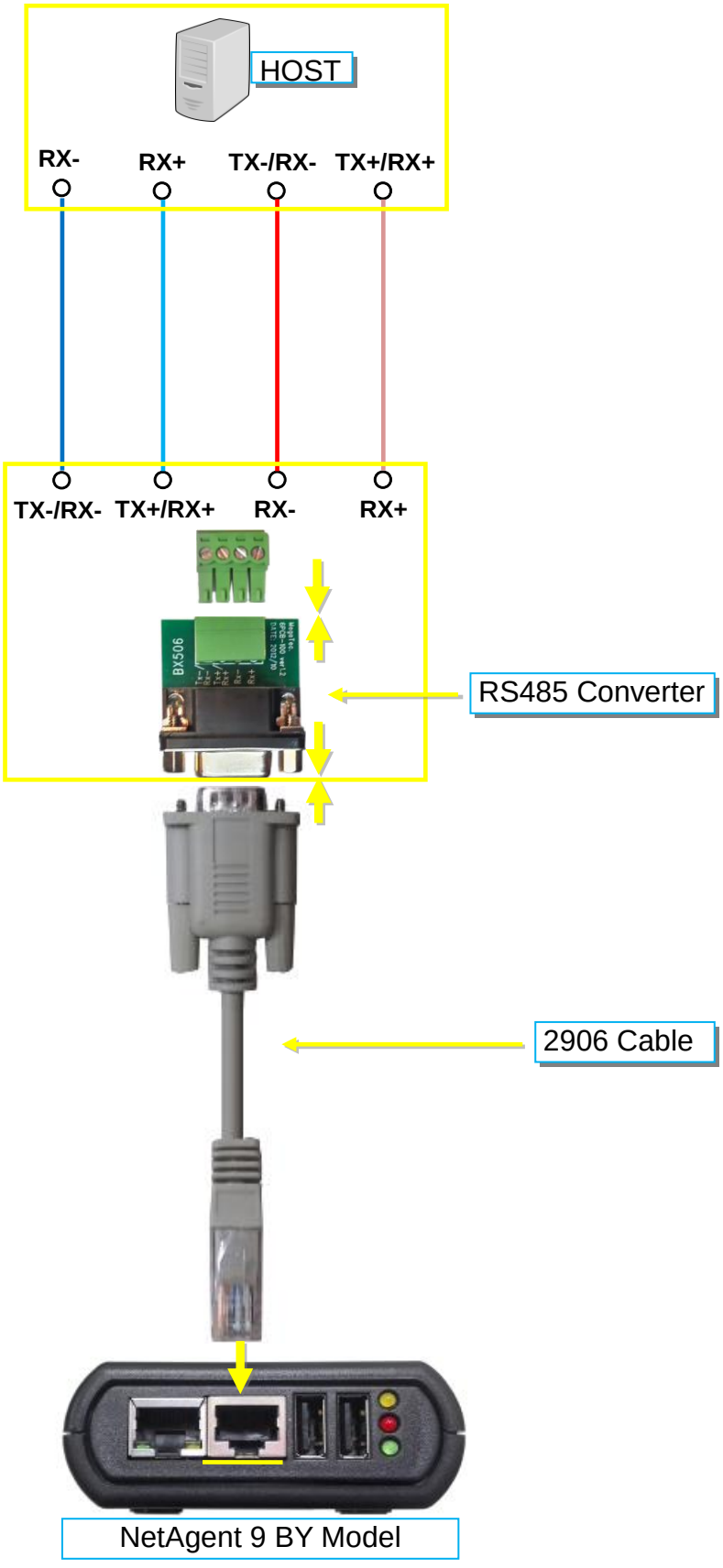
NetAgent supports Modbus on TCP/IP. And NetAgent 9 BY model also supports ModBus on RS485. Through Ethernet and serial communication, it may read multi UPS's data.

*Connection illustration as below*

☐ RS485 2 lines connection(Half Duplex)



☐ RS485 4 lines (Full Duplex)



Modbus on TCP

*Modbus on TCP Device ID*：

Enter device ID to read/write data when when using Modbus on TCP communication

Modbus on RS485

Transmisson Mode：

To select Modbus communication code RTU or ASCII

Device ID：

Enter device ID

Mode：

To select communicate mode of Full Duplex and Half Duplex

Baud Rate：

Baud Rate of 2400 / 4800 / 9600 / 19200 / 38400 /57600 bps

Data bits：

Date bits of 8 bits / 7 bits

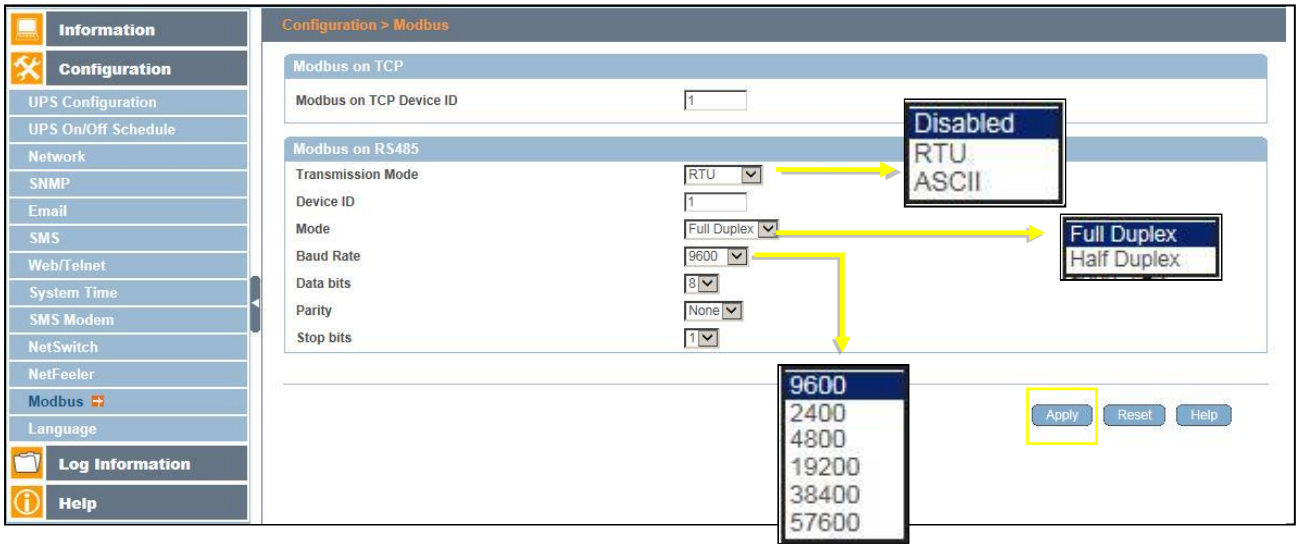
Parity：

Parity of None/ odd /even

Stop bits：

Stop bits of 1 / 2

NetAgent 9



## ■ Configuration > Language

This page is to set the language interface for NetAgent.

### Interface Language

To set the language of NetAgent web pages. When first start login to the webpage of NetAgent, NetAgent will auto detects the OS language of the PC and shows the same language on its web pages. Users may choose the language per preference

Note: Users will have to enable cookies before they use this function.

### Email Preference

Select language preference when receive emails and SMS.

*Languages supported by NetAgent*

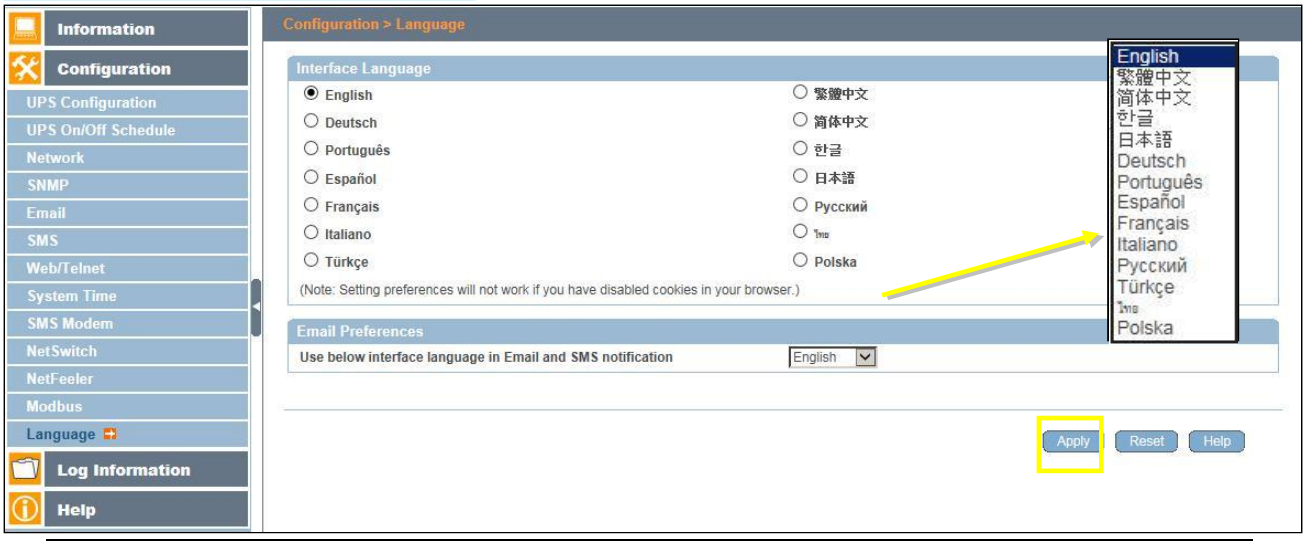
NetAgent 9

- English
- Deutsch
- Português
- Español
- Français
- Italiano
- Türkçe
- 繁體中文
- 簡體中文
- 한글
- 日本語
- Русский
- ไทย
- Polska

NetAgent II

| EAST Version | WEST Version |
|---|---|
| ● English | ● English |
| ● 繁體中文 | ● Deutsch |
| ● 簡體中文 | ● Português |
| ● 한글 | ● Español |
| ● 日本語 | ● Français |
| ● Русский | ● Italiano |
| ● ไทย | ● Русский |
| | ● Türkçe |
| | ● Polska |

NetAgent 9 Mini & NetAgent 9



## ■ Log Information > Event Log

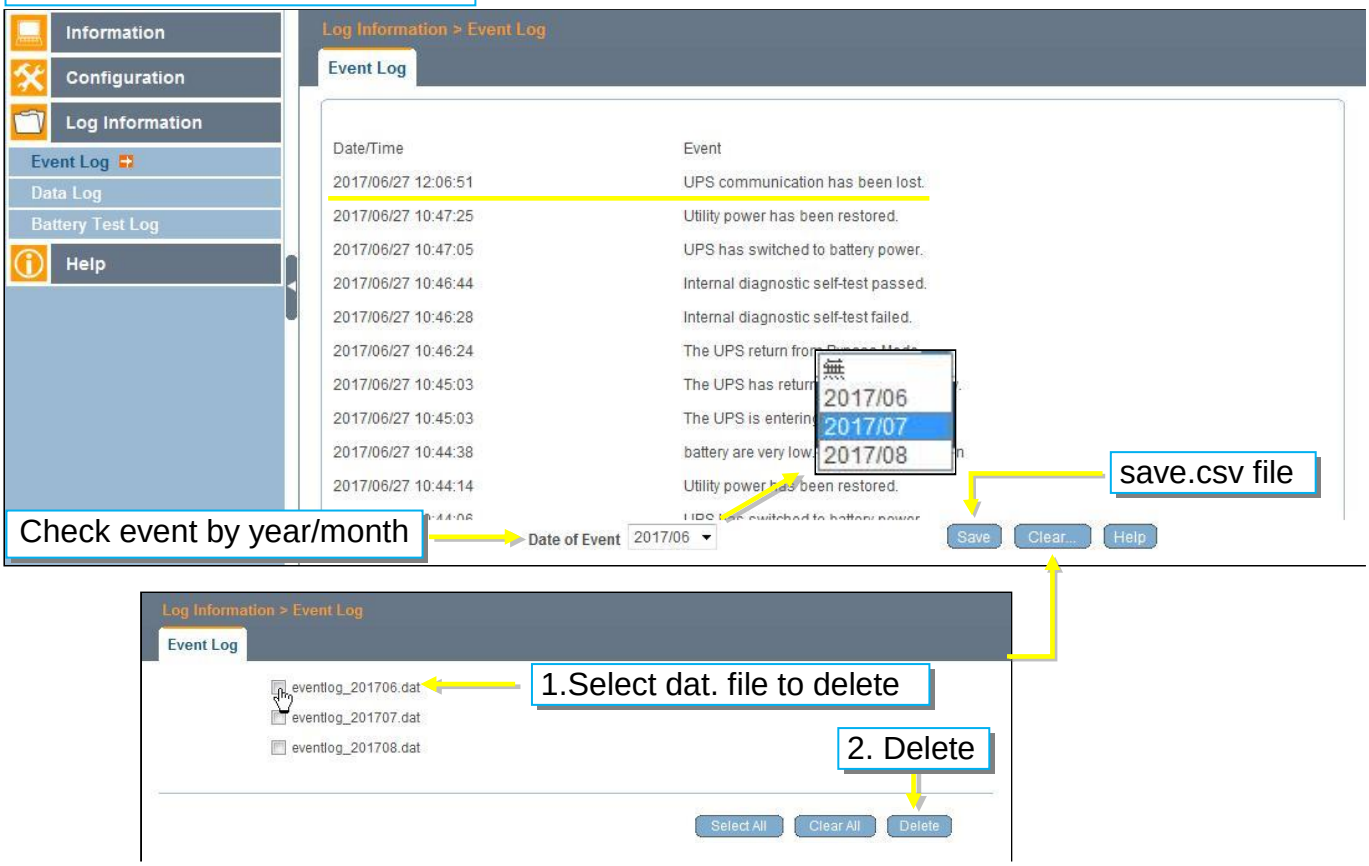
It shows record of all events, giving the Date/Time of the event and a detailed description of each. Log capacity is 1000 logs. When reach to the limit, it rewrites on the previous logs. Log can be save as csv file.

**csv file name as below**

NetAgent 9 ➔ eventlog_year/month.csv，e.g.:eventlog_201706

NetAgent II ➔ eventlog.csv，e.g.：eventlog.csv

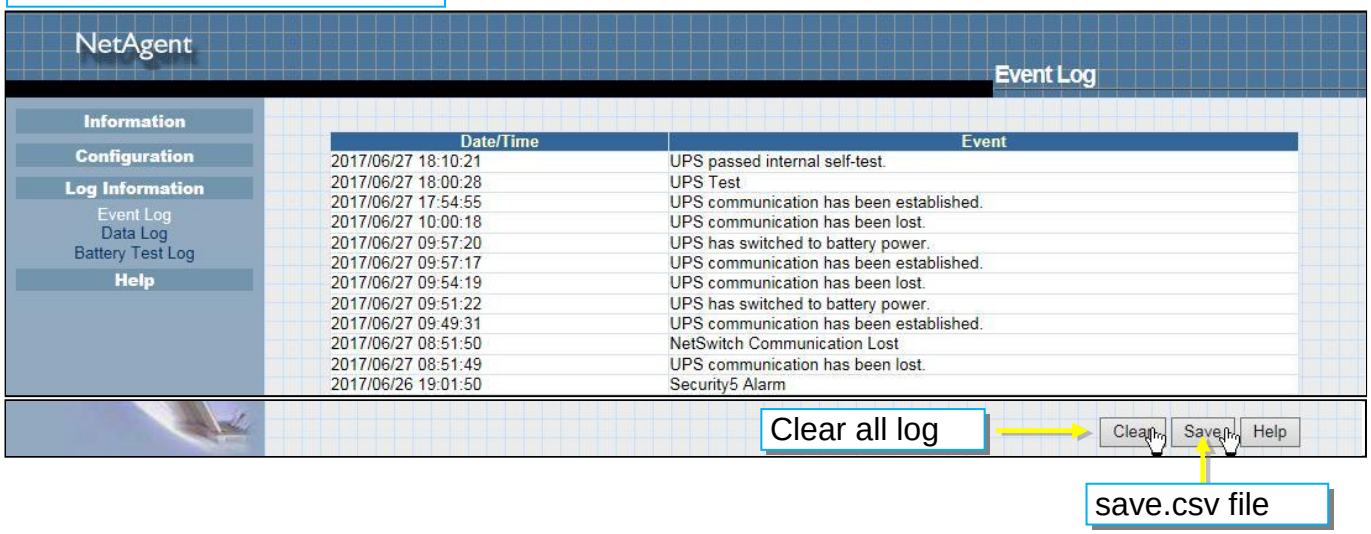
NetAgent 9 Mini & NetAgent 9







NetAgent Mini & NetAgent II



## ■ Log Information > SMS Log

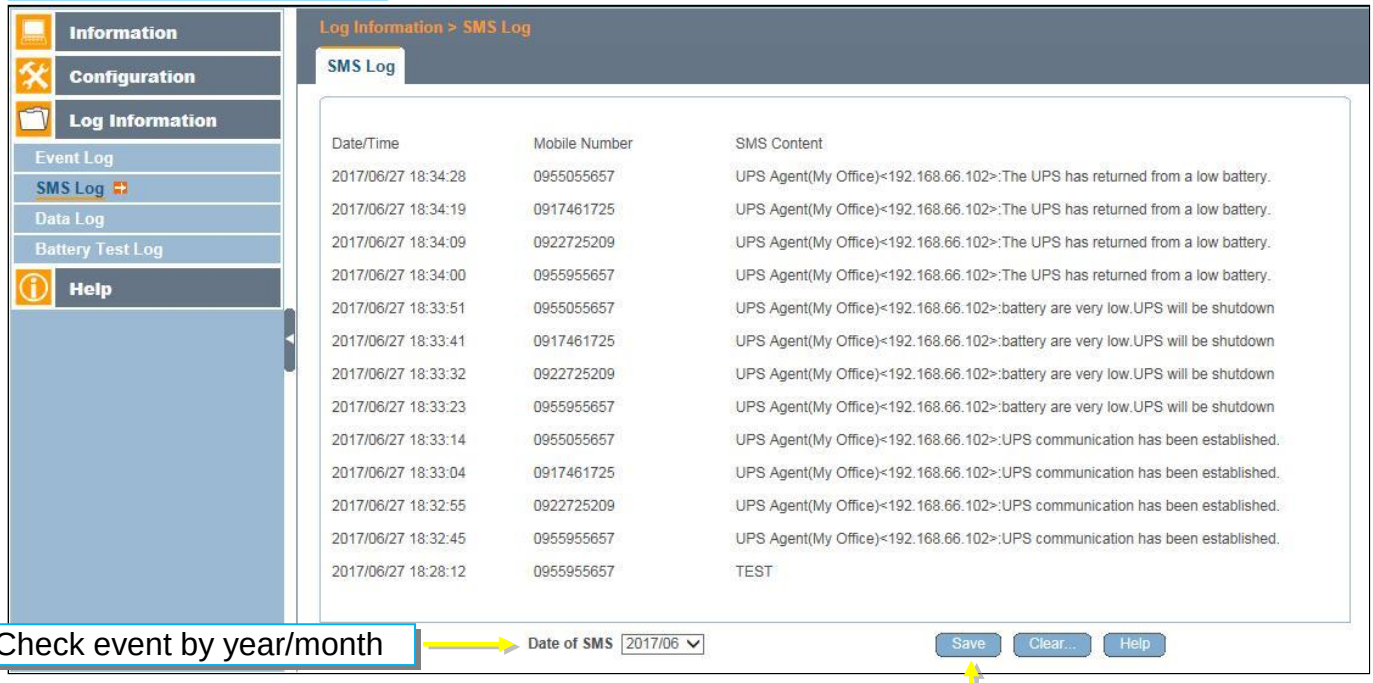
It shows SMS record of all mobile number, giving the Date/Time of the SMS sent and a detailed description of each. Log capacity is 1000 logs. When reach to the limit, it rewrites on the previous logs.

NetAgent 9 model of BX/BY can save the SMS log as csv file.

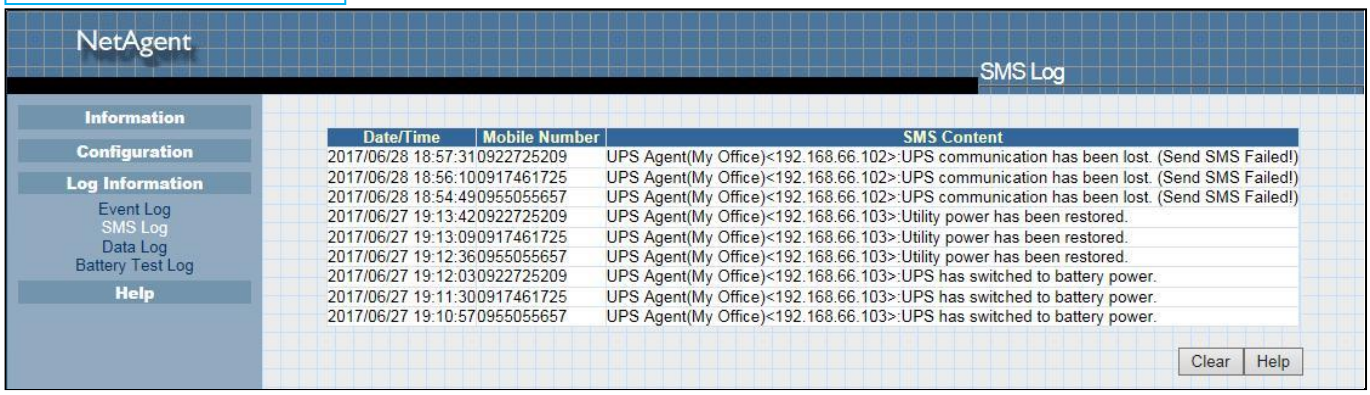
csv file as below

smslog_year/month.csv，e.g：smslog_201706.csv

NetAgent 9




NetAgent II 3PORTS



## ■ Log Information > Data Log

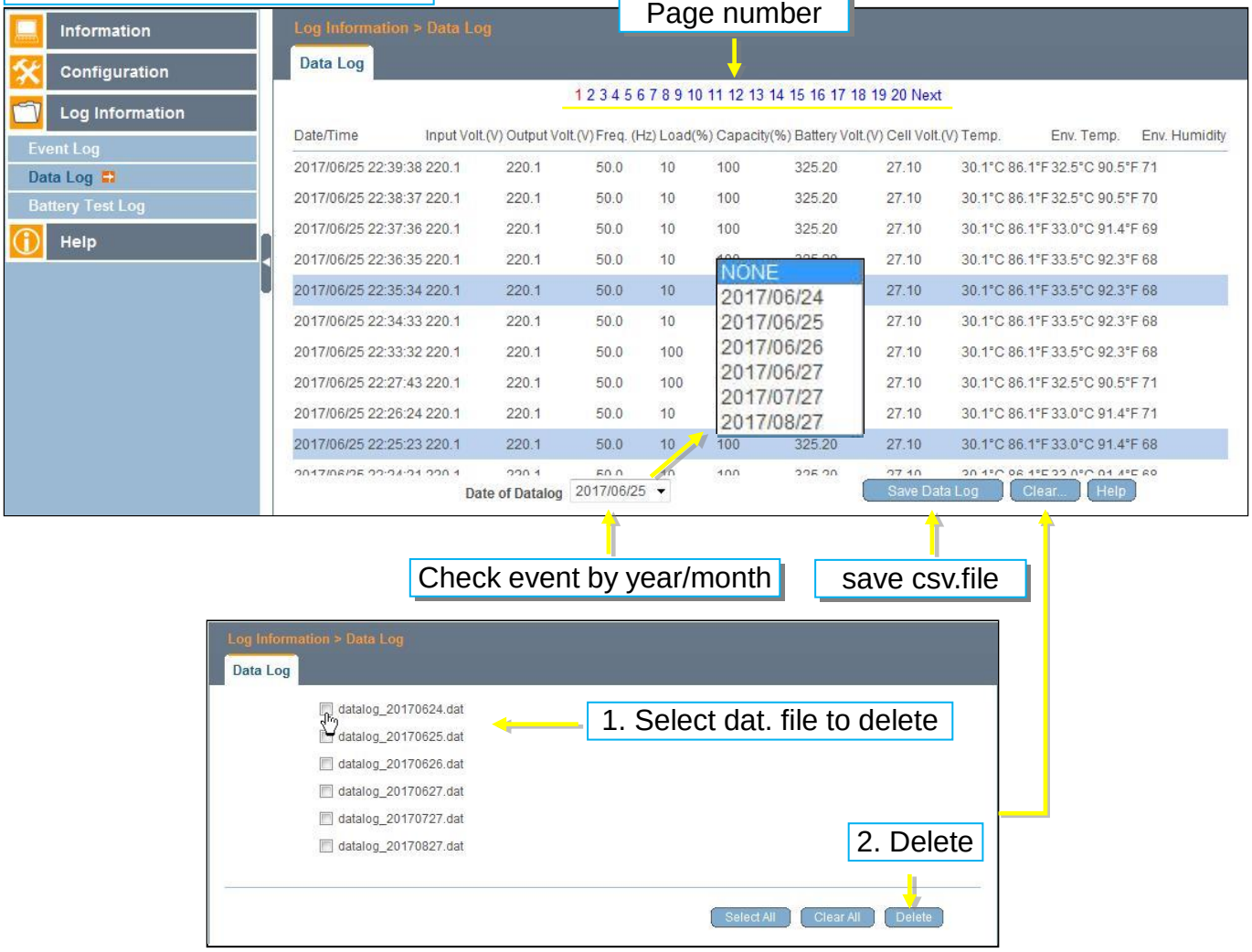
It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature. When connects with NetFeeler, temperature, humidity will also be recorded. Log capacity is 5000 logs. When reach to the limit, it rewrites on the previous logs. Logs can be saved in CSV format by clicking on “Save Data Log”.

**csv file name as below**

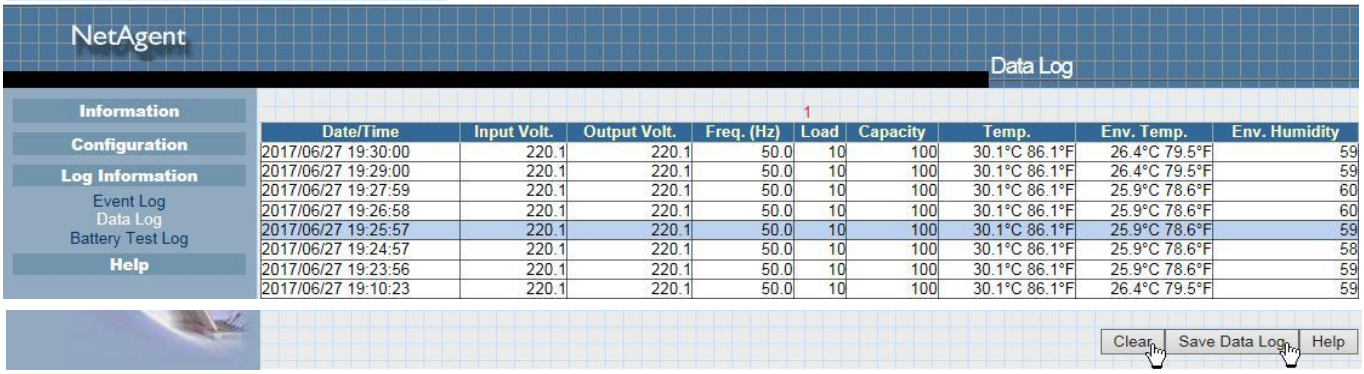
NetAgent 9 ➔ datalog_year/month.csv，e.g.:datalog_201706

NetAgent II ➔ upsdata.cs

NetAgent 9 Mini & NetAgent 9

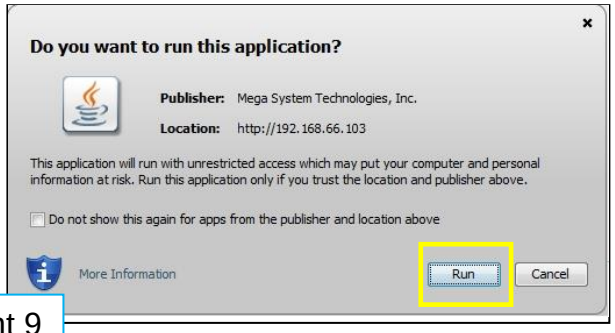


NetAgent Mini & NetAgent II

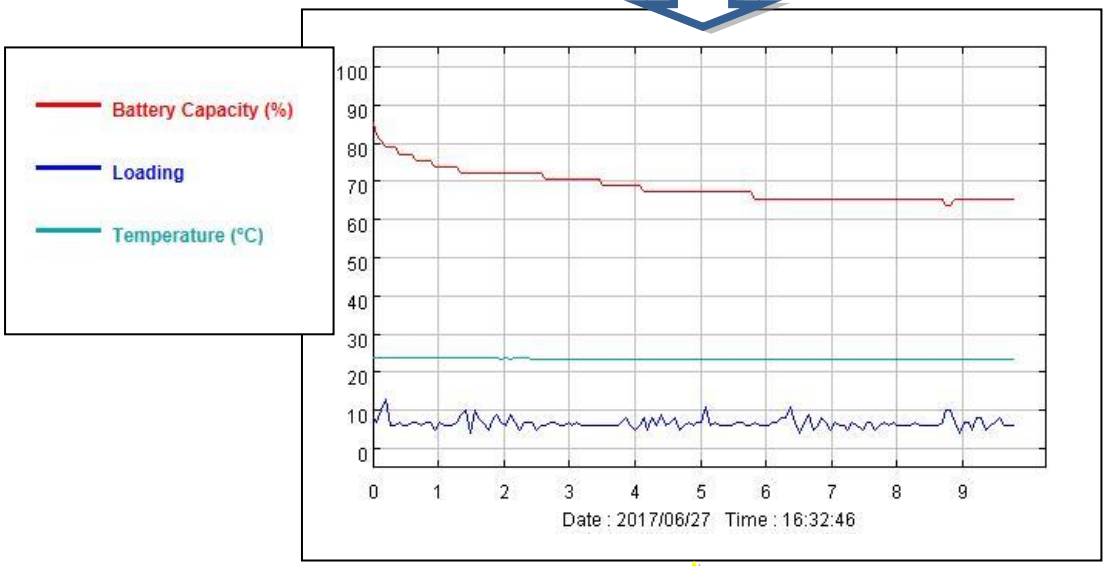


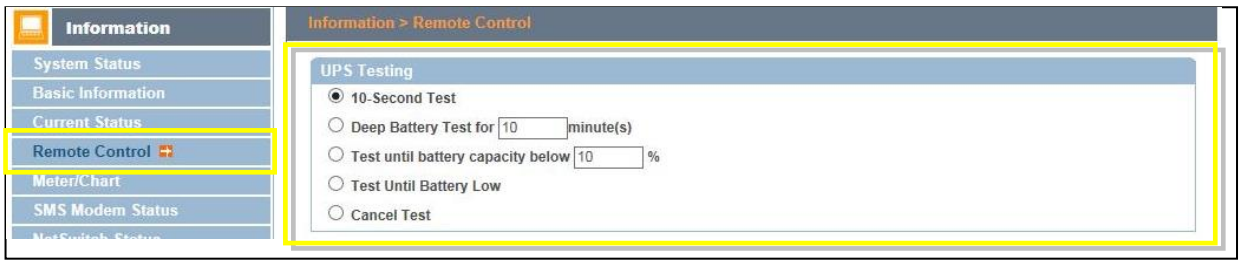
## ■ Log Information > Battery Test Log

To record the UPS Self-Test and it shows in graphic. UPS Self-Test option is available under System Information > Remote Contro.

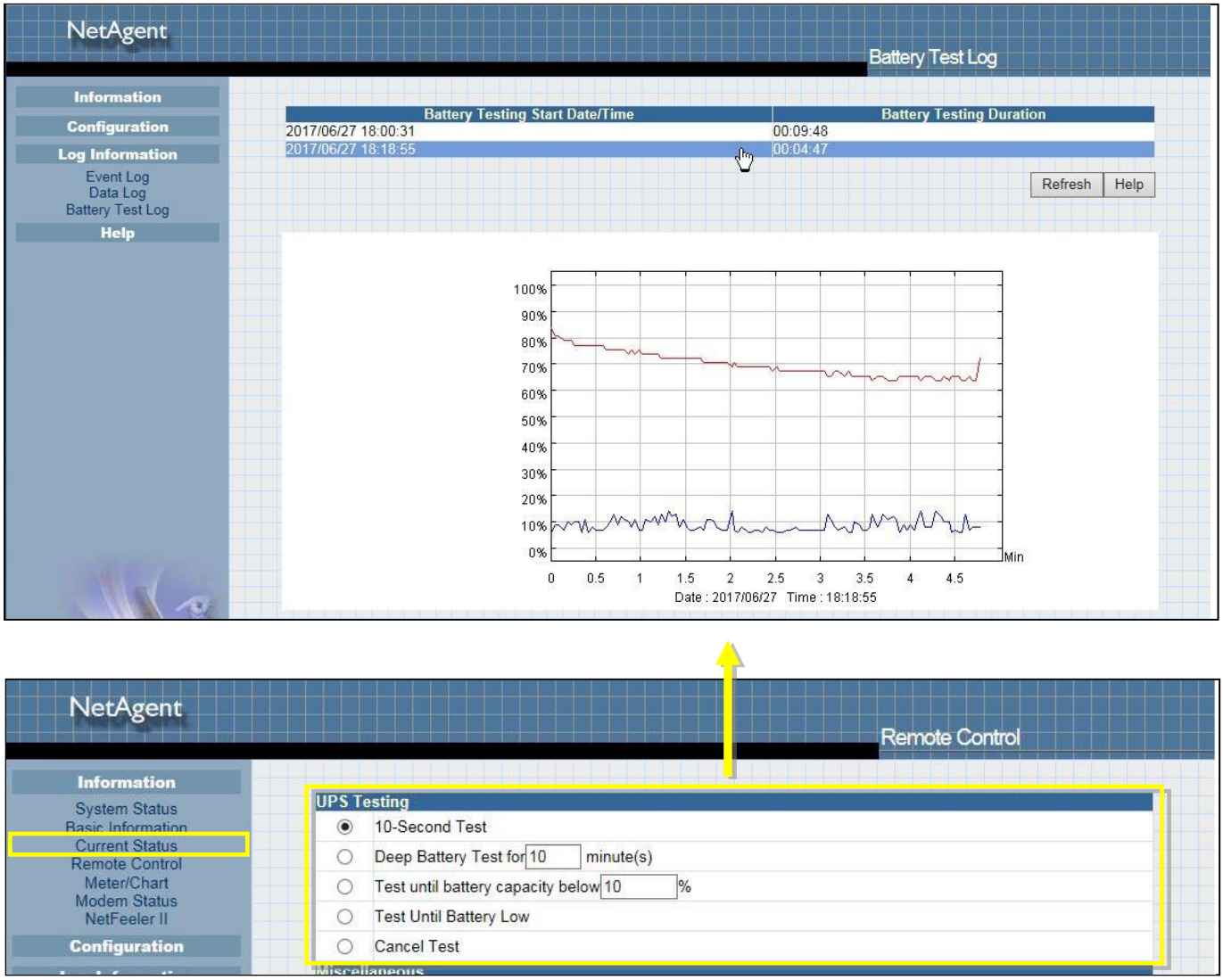



NetAgent 9 Mini & NetAgent 9



NetAgent Mini & NetAgent II

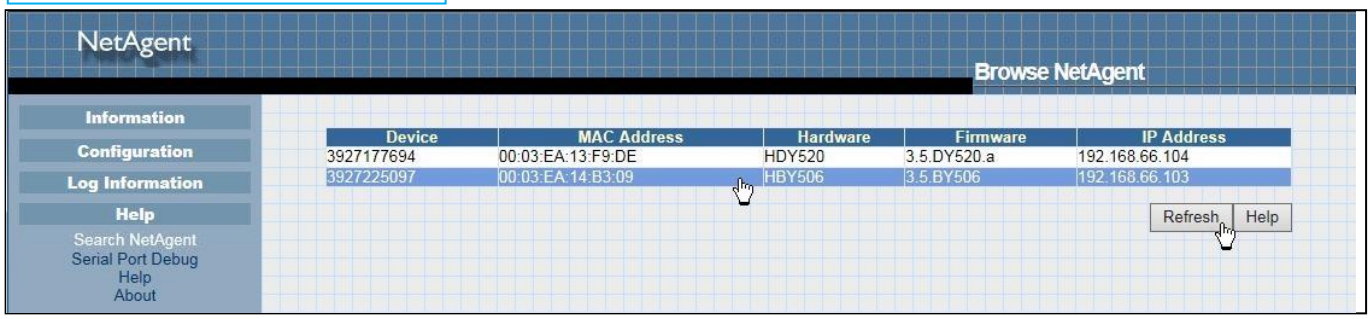


## ■ Help > Search NetAgent

This to display all the found NetAgent within network with its serial number; Mac Address; Hardware/Firmware version and its IP address. Double click on the highlighted unit to open the webpage of such device.

NetAgent 9 Mini & NetAgent 9

NetAgent Mini & NetAgent II



## ■ Help > Serial Port Debug

It shows the communication status between NetAgent and UPS by Sent and Received columns. Command can send automatically by NetAgent, or manually enter the command to UPS. (Java is required)

**Port Information**

This is to configure the communication parameter between NetAgent and UPS. Parameters are Debug Mode; Port; Speed (Baud), Data Bits;Parity and Stop Bits. Two encoding formats: ASCII or Hexadecimal.
If Debug mode is set as manually, user may enter its parameter under Send Contents column.

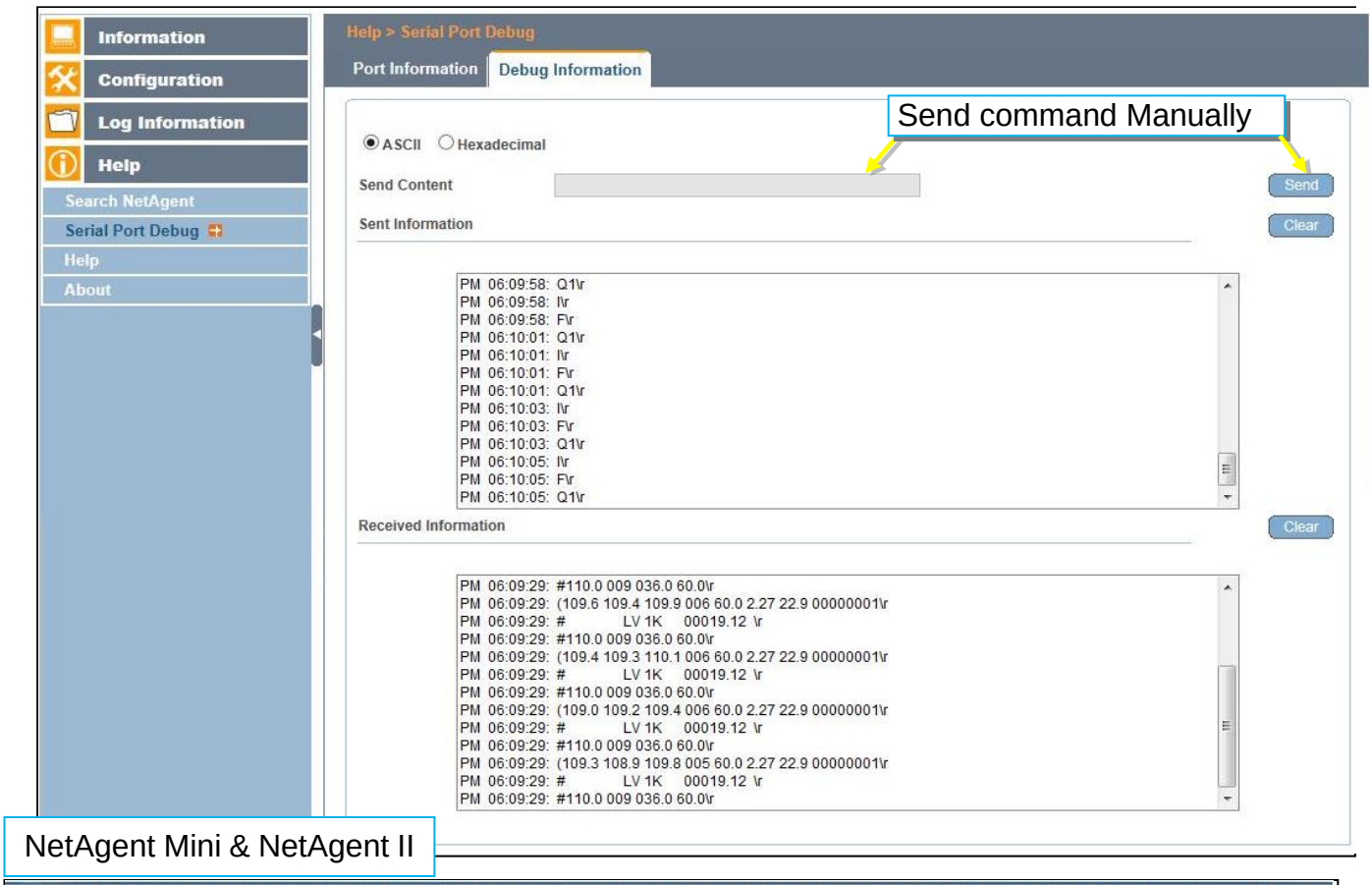
**Sent Information**

This column shows the real time sent command

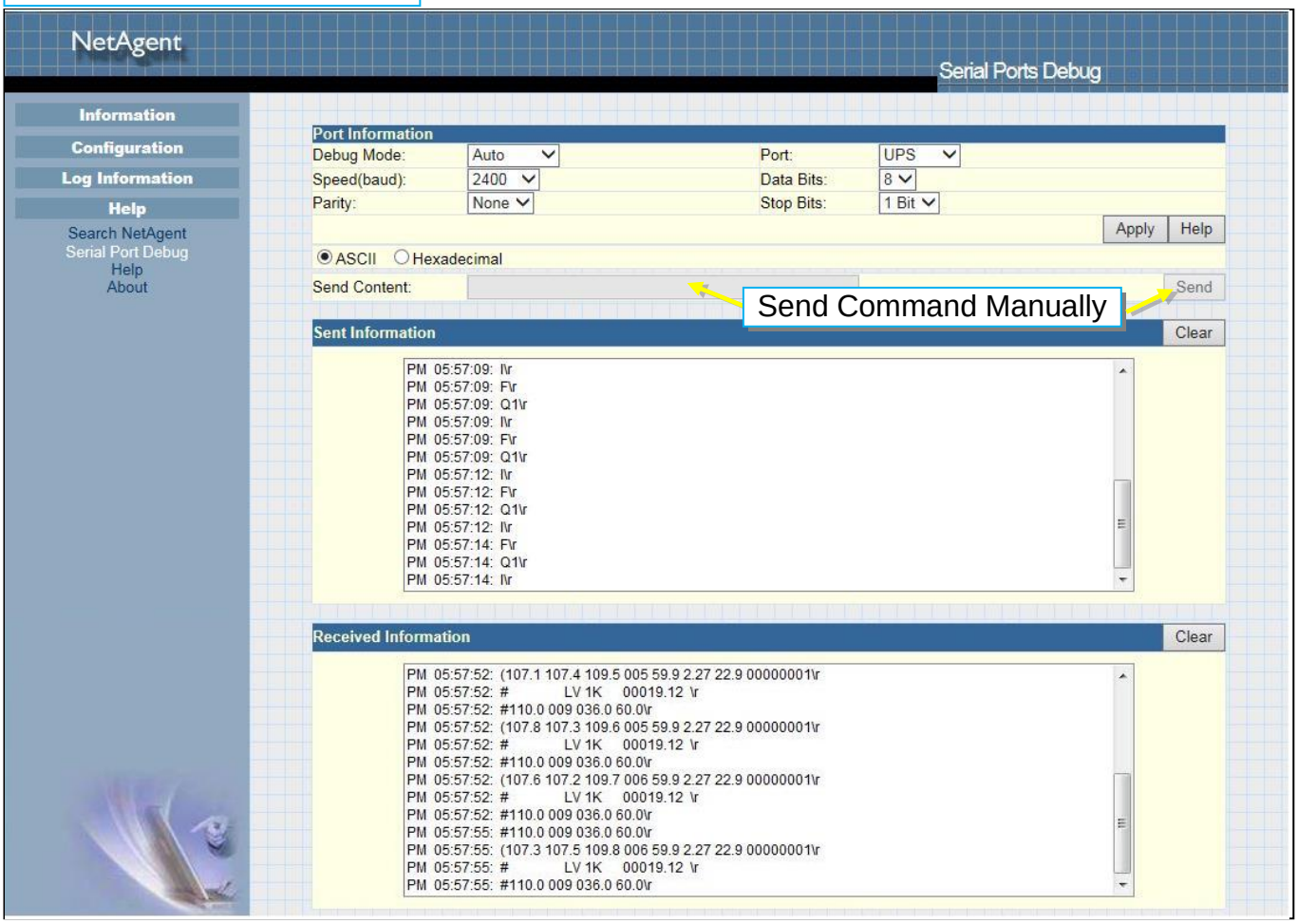
**Received Information**

This display the response that NetAgent receives from UPS

NetAgent 9 Mini & NetAgent 9



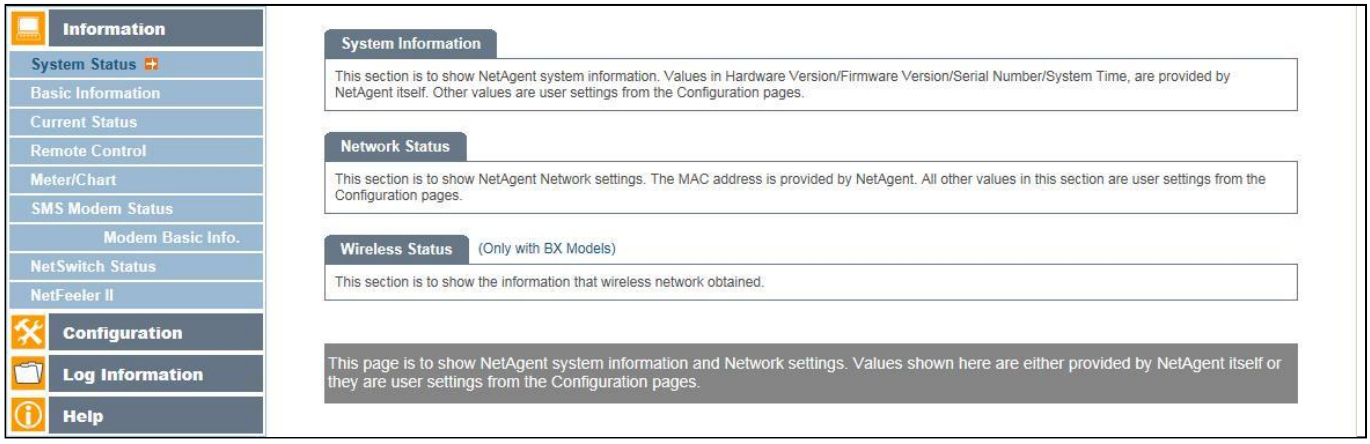

NetAgent Mini & NetAgent II



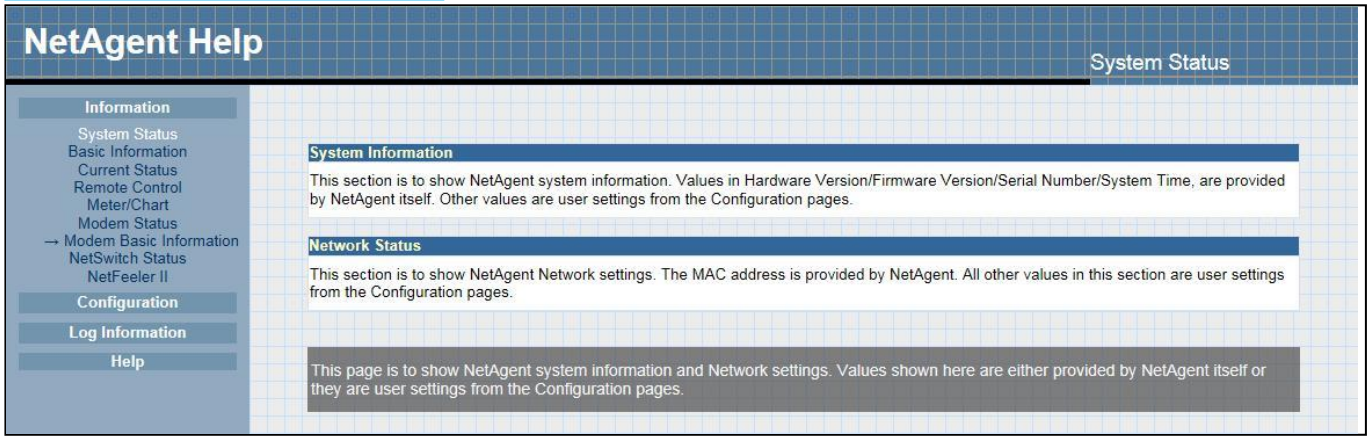
- **Help > Help**

This is to help to illustrate each feature/option that NetAgent offers

NetAgent 9 Mini & NetAgent 9




NetAgent Mini & NetAgent II



## ■ Help > About

### About

It shows NetAgent's hardware/firmware and serial number.

### Save/Restore Settings

*Save Current Configuration*

Click on Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####**.**cfg. Administrator permission required.

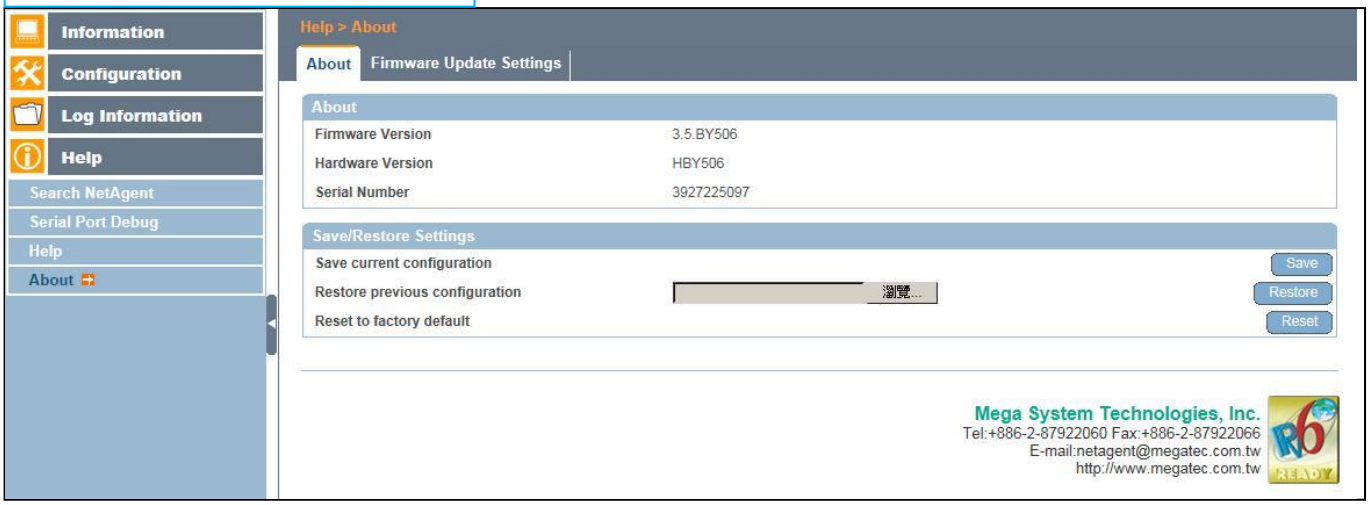
*Restore previous configuration*

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*

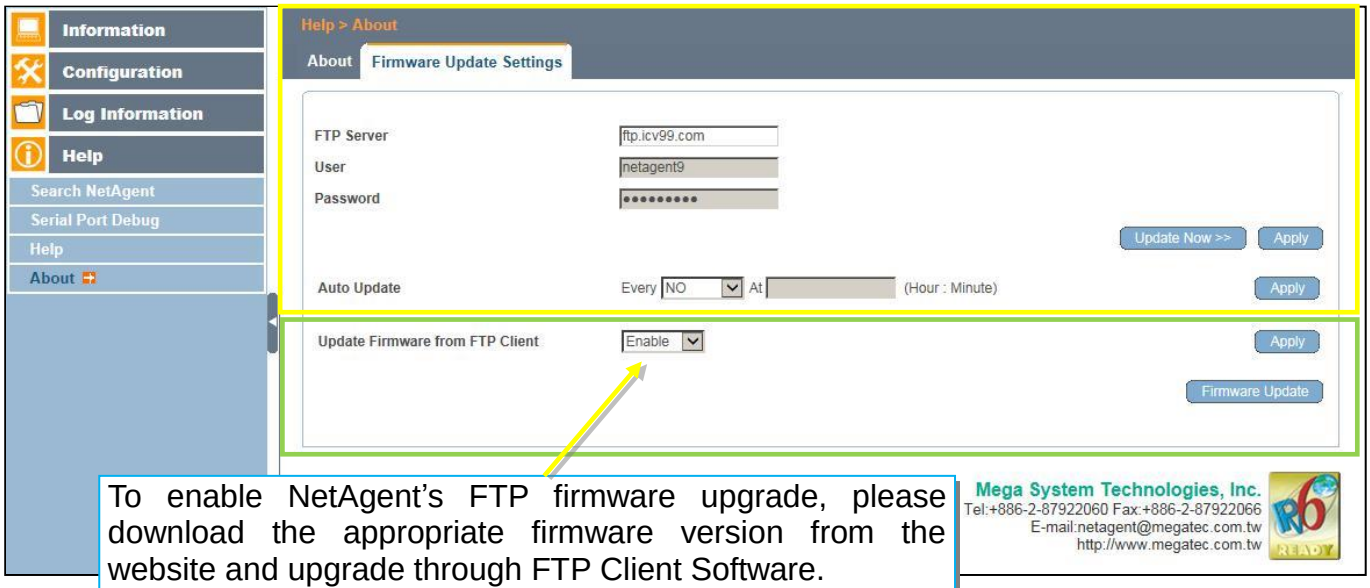
This function will reset all settings to its default value.

NetAgent 9 Mini & NetAgent 9



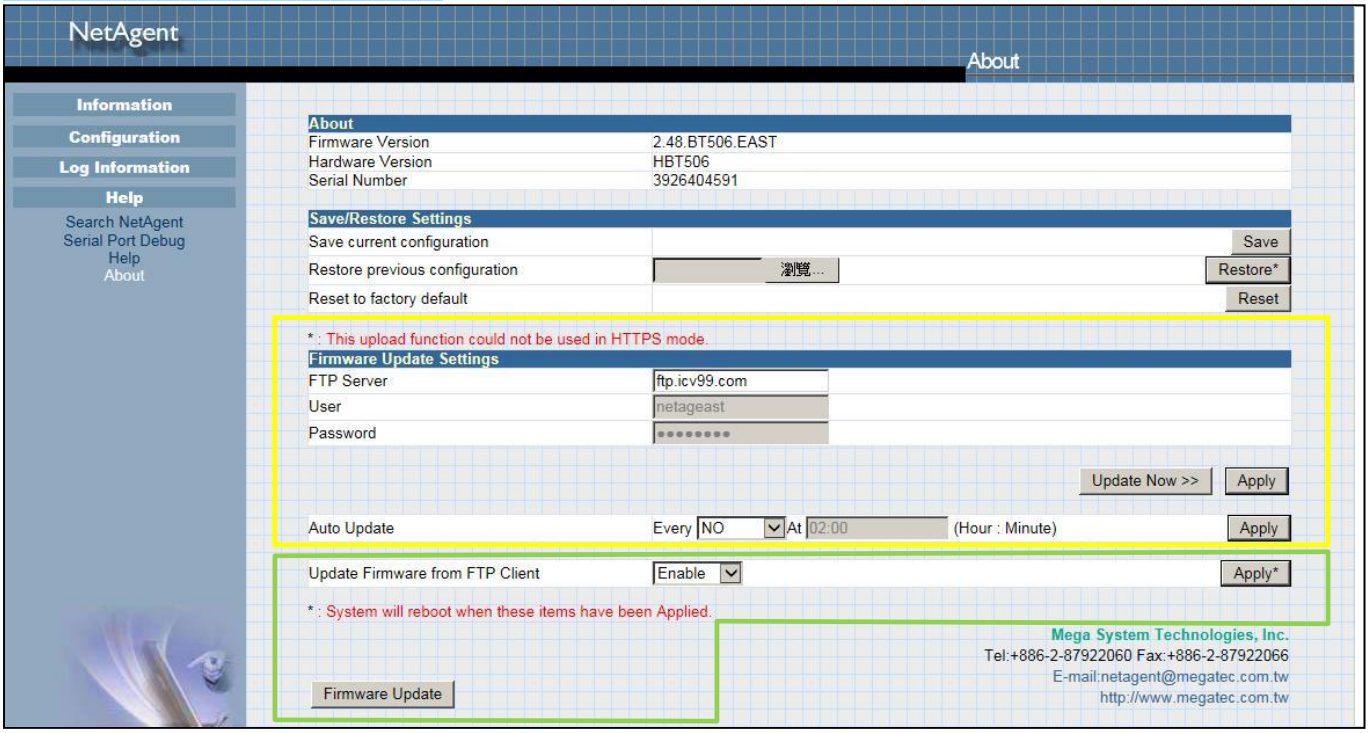

### Firmware Update Settings

Default FTP server is set as ftp.icv99.com with its username/password. Click on Update Now, NetAgent will connects to the FTP server and upgrade to the latest firmware version accordingly. Or, it could upgrade per preset time




To enable NetAgent's FTP firmware upgrade, please download the appropriate firmware version from the website and upgrade through FTP Client Software.

NetAgent Mini & NetAgent II

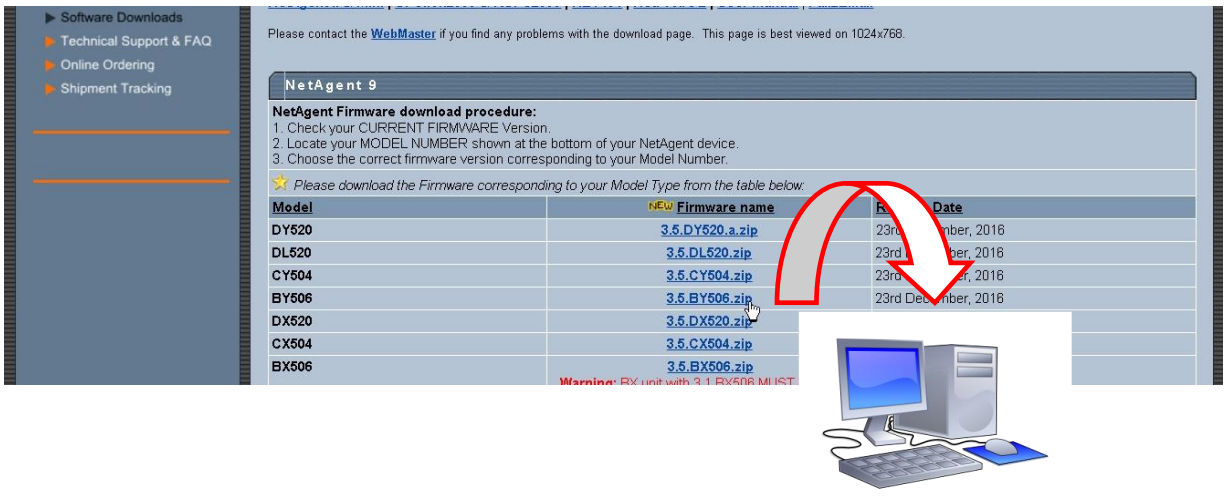



*<u>Update Firmware from FTP Client</u>*

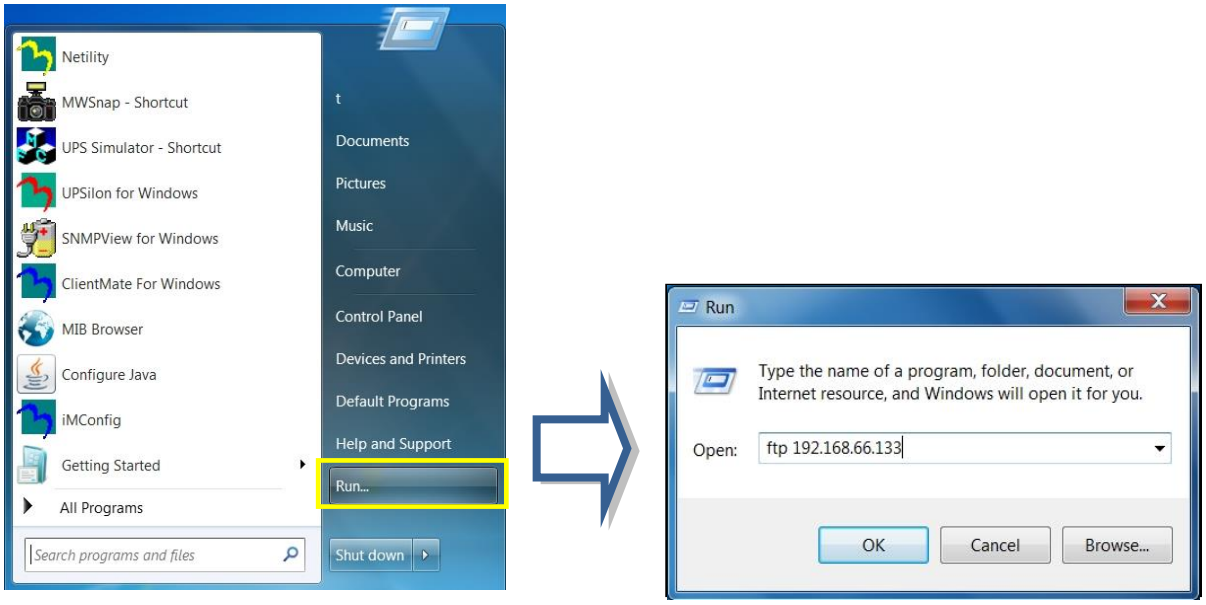
-Select on Enable

-Download the appropriate firmware version from website (http://www.megatec.com.tw)

-Unzip the file and known the directory path



-Execute ftp + NetAgent's IP address




-FTP login

```
Connected to 192.168.66.133.
220 Service ready for new user
User (192.168.66.133:(none)): admin
331 need password
Password:
230 OK
ftp> ls
200 Port command successful.
150 Opening ASCII mode data connection for file list.
3.4.BY506.bin
226 Transfer complete.
ftp: 15 bytes received in 0.00Seconds 15000.00Kbytes/sec.
ftp> put d:\fw\3.5.BY506.bin
200 Port command successful.
150 Opening data connection for 3.5.BY506.bin
226 file received ok.
ftp: 7733248 bytes sent in 8.52Seconds 907.87Kbytes/sec.
ftp> quit
```

1. Enter username/password that configured on Netility

2. Enter command ls to show available firmware bin file

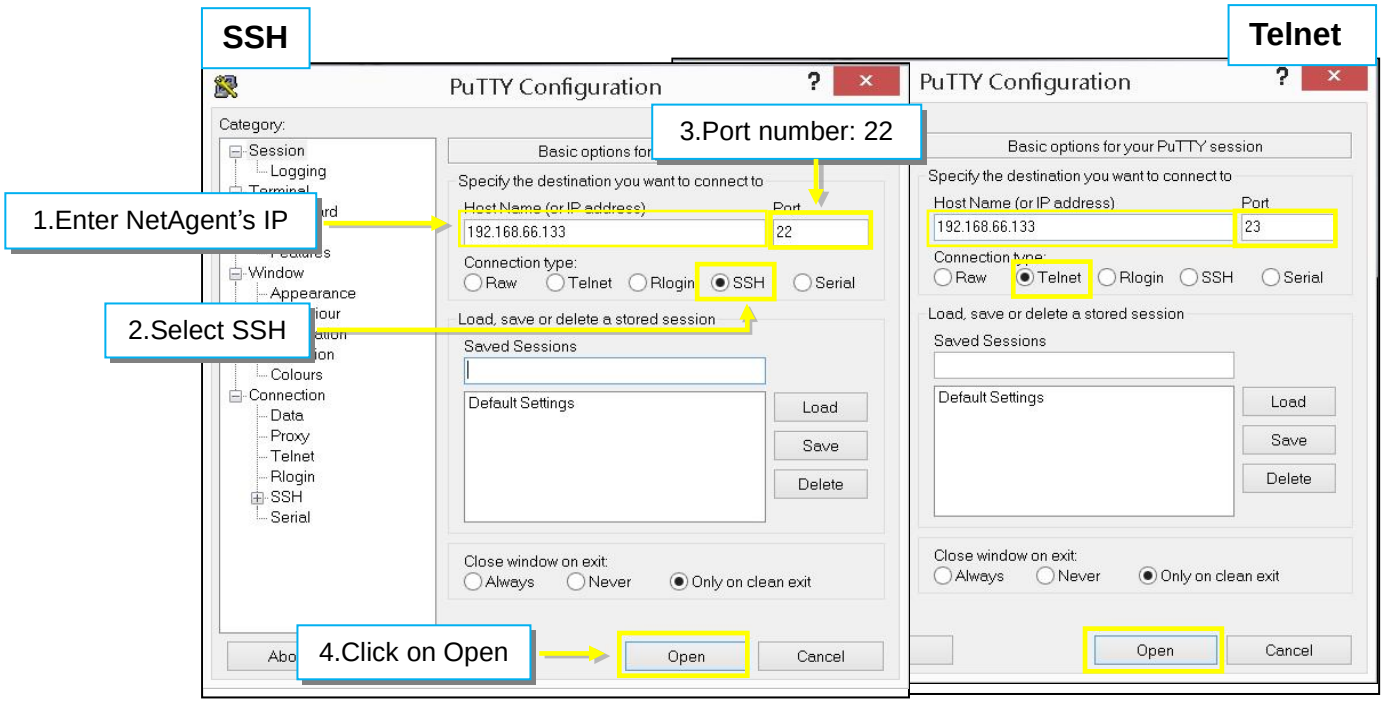
3. Enter put command with bin file directory

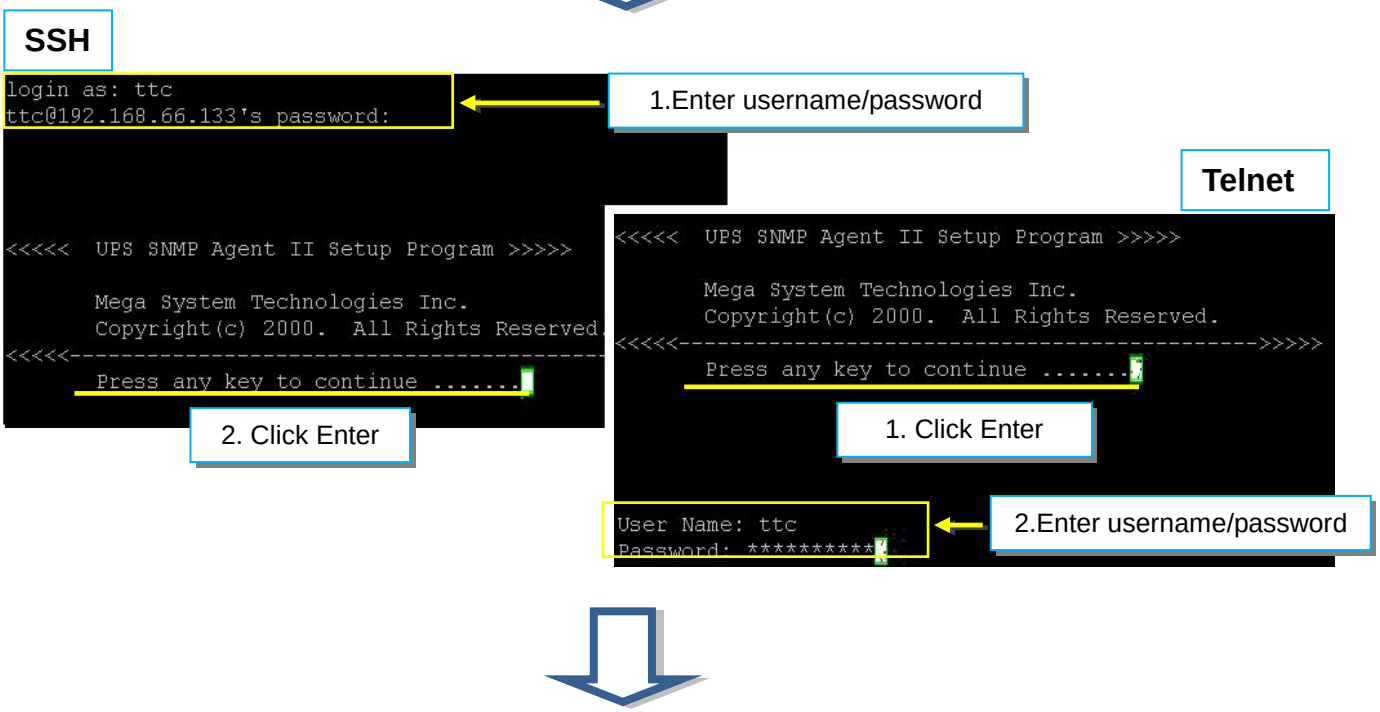
**4.** Once complete, enter command quit

# *Chapter 5. Telnet/ SSH*

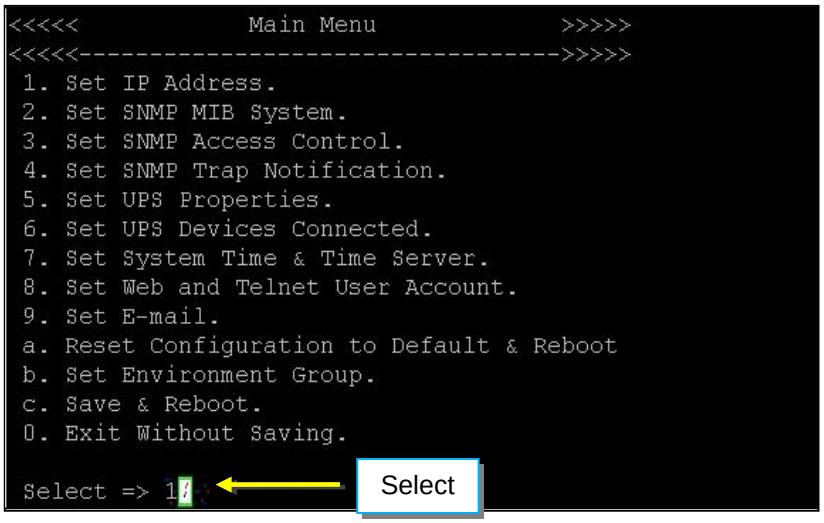
Despite to login to the NetAgent's webpage, it could also access via Telnet or SSH

- Ensure NetAgent port 22 is enabled when using SSH connection and username/password are required.
- When using Telnet, port 23 must be enabled



Enter to the Main Menu and enter the number of the option under **Select =>** and press ENTER




1.Set IP Address：

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

2.Set SNMP MIB System：

To set the MIB system group parameters.

3.Set SNMP Access Control：

To set the Manager IP, Community, Access Permission.

4.Set SNMP Trap Notification：

To set Trap notification

5.Set UPS Properties：

To setup the Communication Type of UPS, UPS Device Name and Battery Replacement Date.

6.Set UPS Device Connect：

To setup the System Name, Rating which connected., Connected.

7.Set System Time & Time Server：

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：

To set e-mail accounts to receive power event notification for emergency management.

a.Reset configuration to Default & Reboot：

Set all values to their default settings.

b.Set Environment Group：

To set critical value for environmental sensor

c.Save & Reboot：

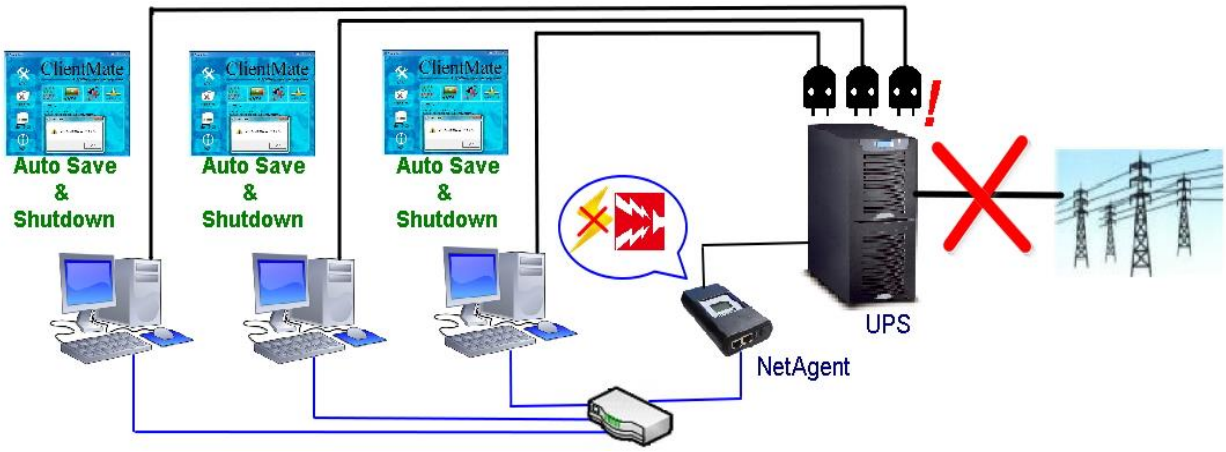
Save the current configuration data, including any changes you have made, and reboot the Net Agent.

0.Exit Without Saving：

Exit, all configuration changes will be lost

# *Chapter 6. ClientMate*

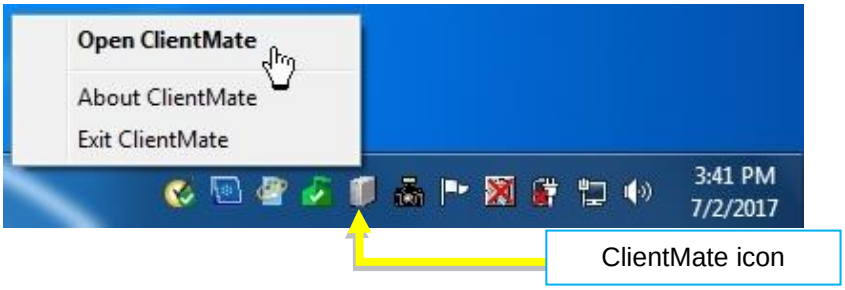
ClientMate is shutdown software for PC that connects with NetAgent. This utility is for the Windows platform. When the ClientMate gets the power failure signal from the NetAgent. The ClientMate will save the files and shutdown the system gracefully. When the hardware installation of the NetAgent has been completed, install the ClientMate on any of the Windows system on the network. When ClientMate detects AC Fail, Battery Low, Schedule Shutdown signals from the NetAgent, it will save the file and shutdown the system gracefully to avoid system crash.



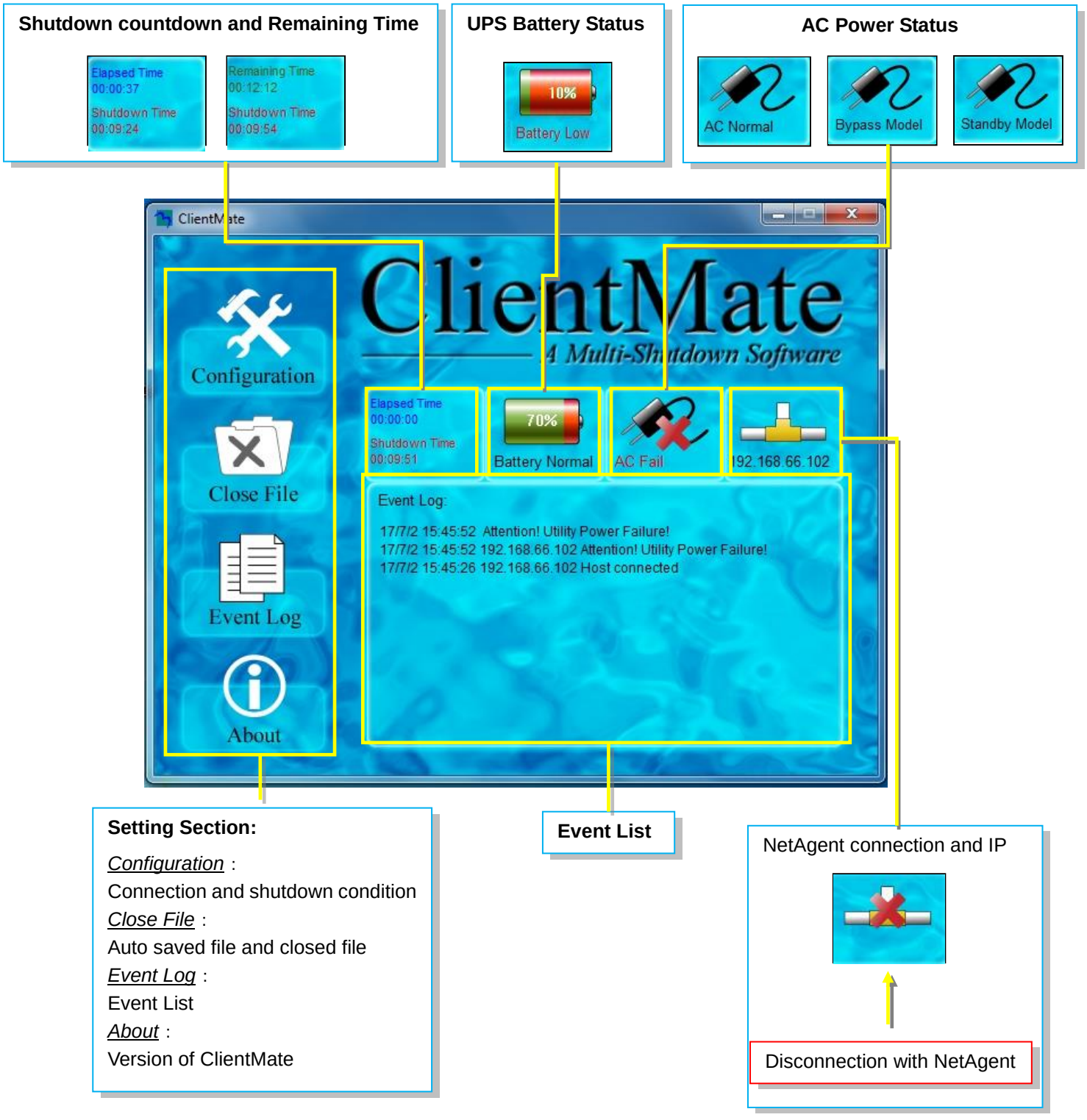

## Installation and setup

ClientMate software is available in the CD provided with NetAgent. After installed, it save under directory of

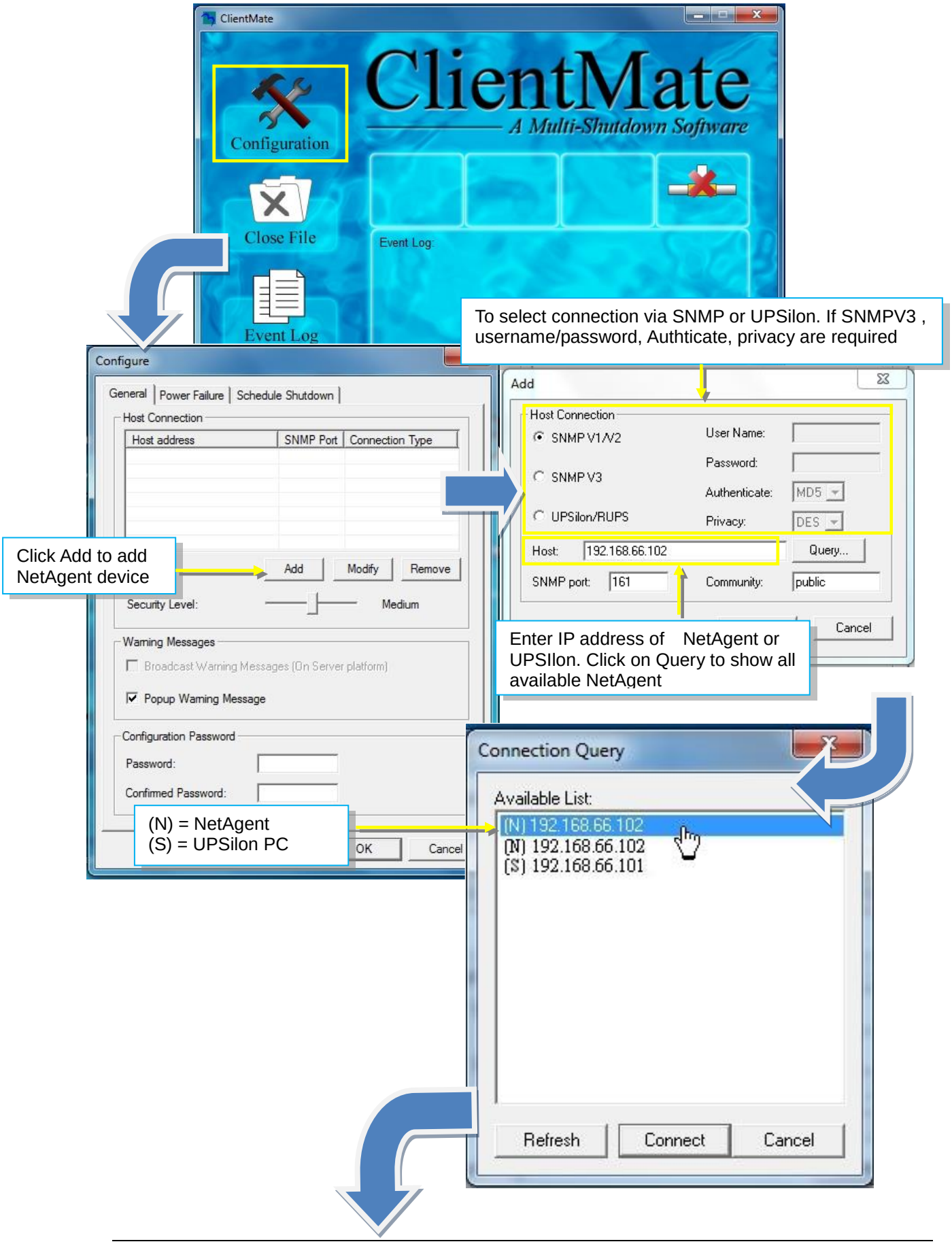
All Program >NetAgent > ClientMate > ClientMate for Windows

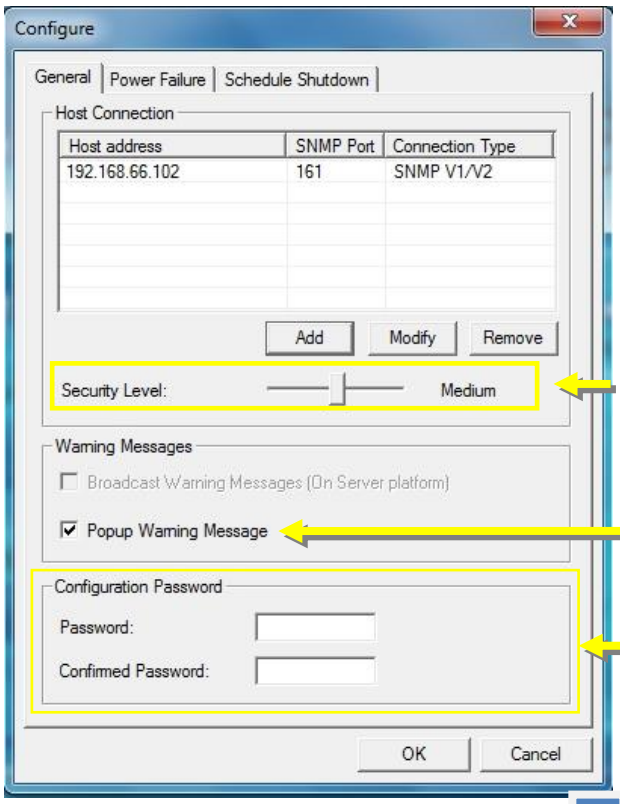


## Operation Interface



## Configuration



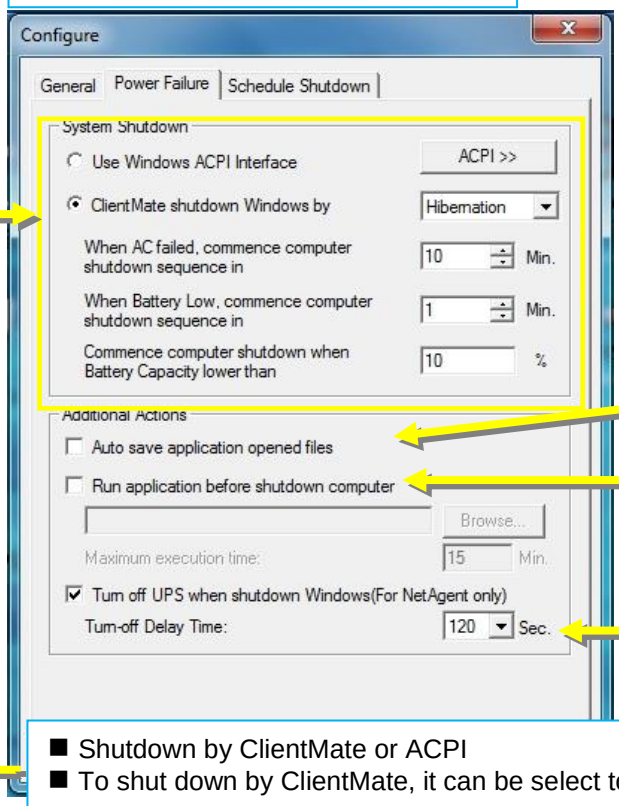



If connect with multi NetAgent, shutdown condition can be perform by security level.
Low：All NetAgent with AC failure condition
Medium：50% NetAgent device has AC failure condition
High：AC failure from any/single NetAgent would shutdown

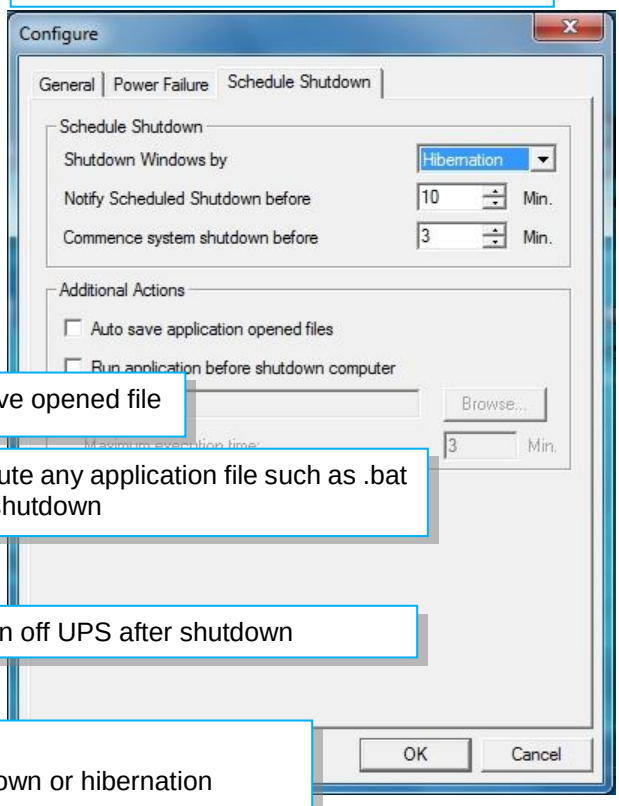
If to have pop warning message

If password is required for any configuration change

**Power Failure/Shutdown Condition**




**Shutdown by Scheduling**

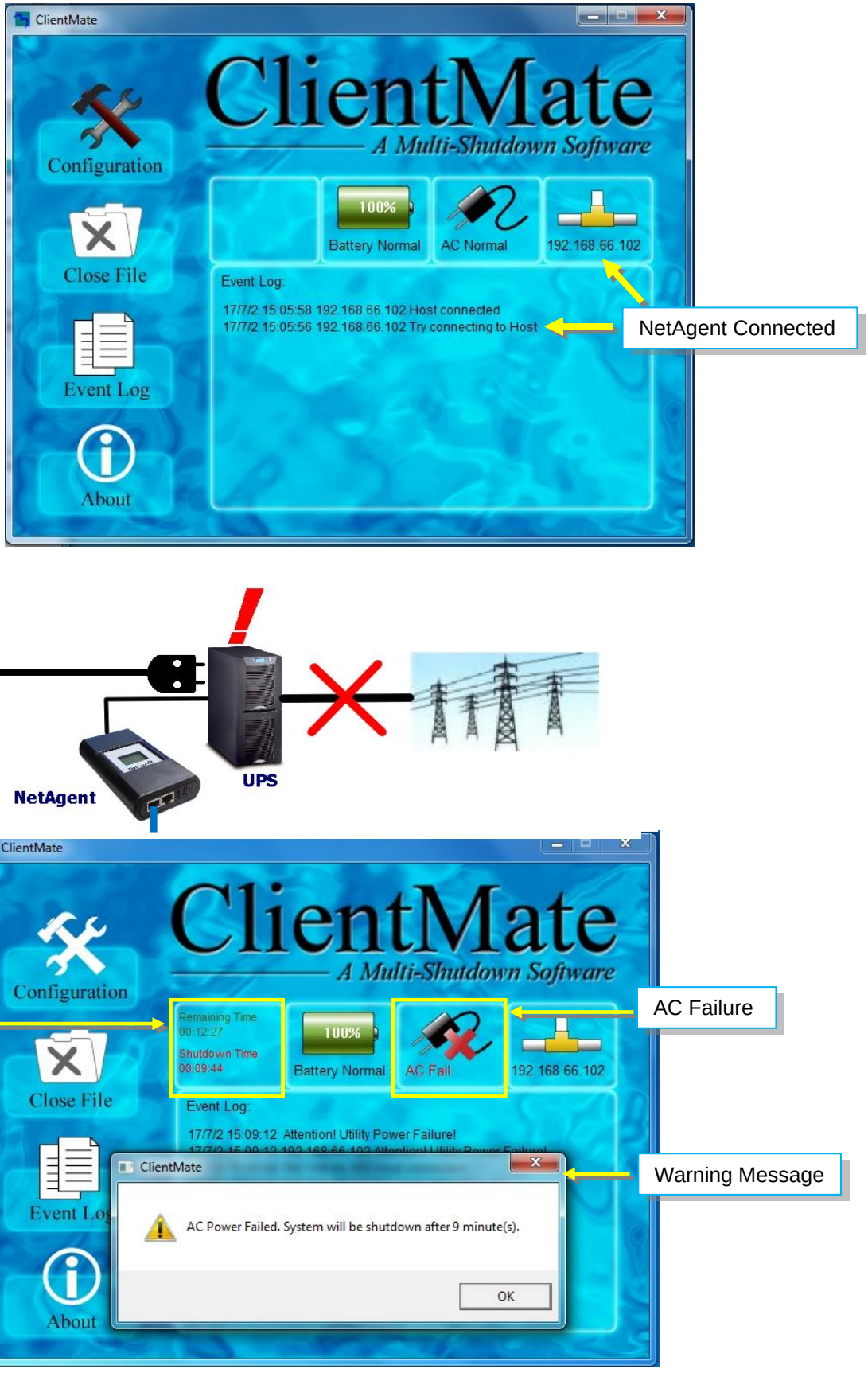



Auto save opened file

To execute any application file such as .bat before shutdown

To turn off UPS after shutdown

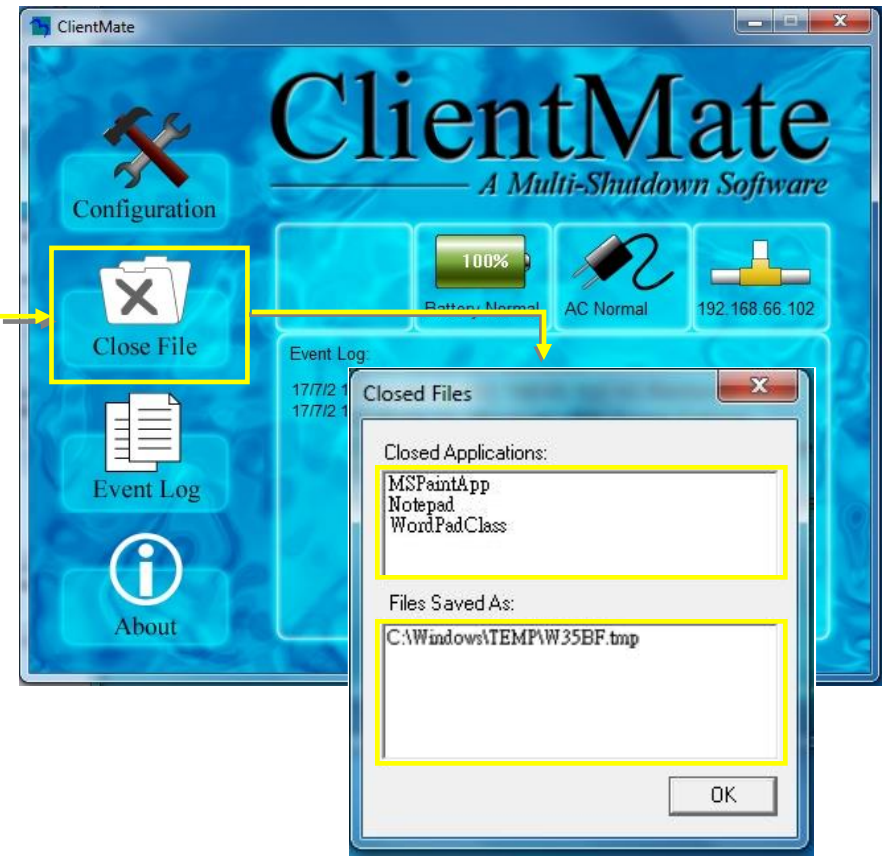
■ Shutdown by ClientMate or ACPI
■ To shut down by ClientMate, it can be select to be shut down or hibernation


ClientMate
ClientMate
A Multi-Shutdown Software
Configuration
Close File
Event Log
About
100%
Battery Normal
AC Normal
192.168.66.102
Event Log:
17/7/2 15:05:58 192.168.66.102 Host connected
17/7/2 15:05:56 192.168.66.102 Try connecting to Host
NetAgent Connected
NetAgent
UPS
Shutdown countdown
Remaining Time
00:12:27
Shutdown Time
00:09:44
AC Fail
AC Failure
Event Log:
17/7/2 15:09:12 Attention! Utility Power Failure!
AC Power Failed. System will be shutdown after 9 minute(s).
OK
Warning Message

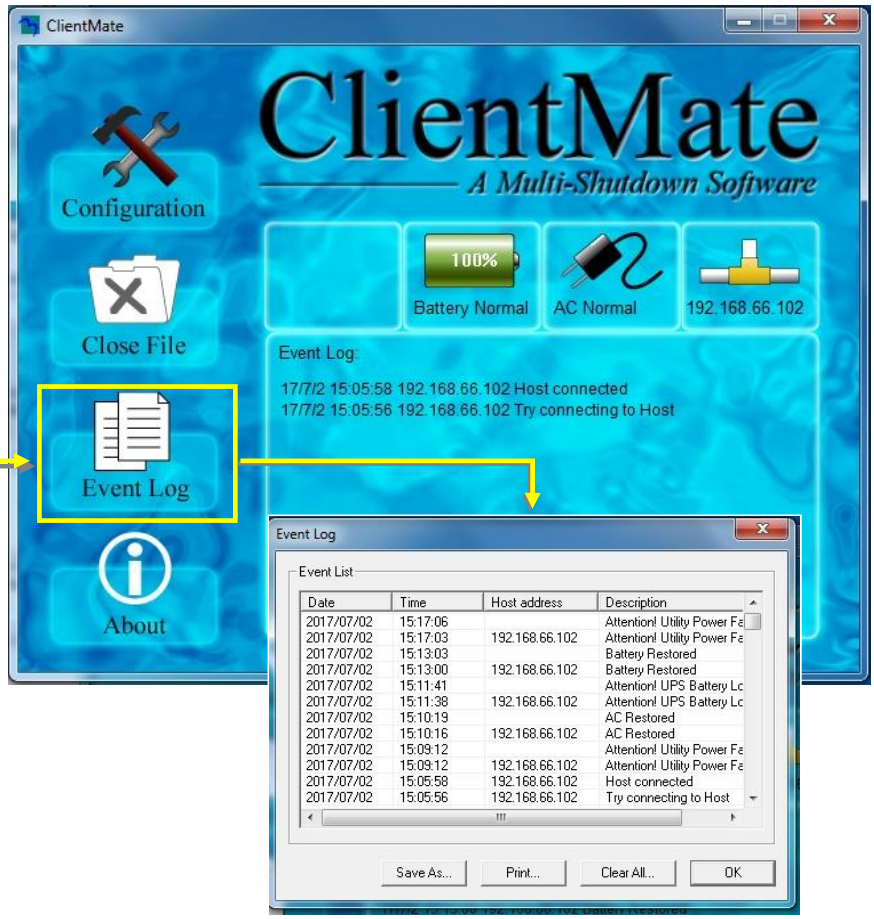
## Close File

If select to auto save file before shutdown, ClientMate will save the file and file can be check from Closed File

**Closed Application or Files Saved As**

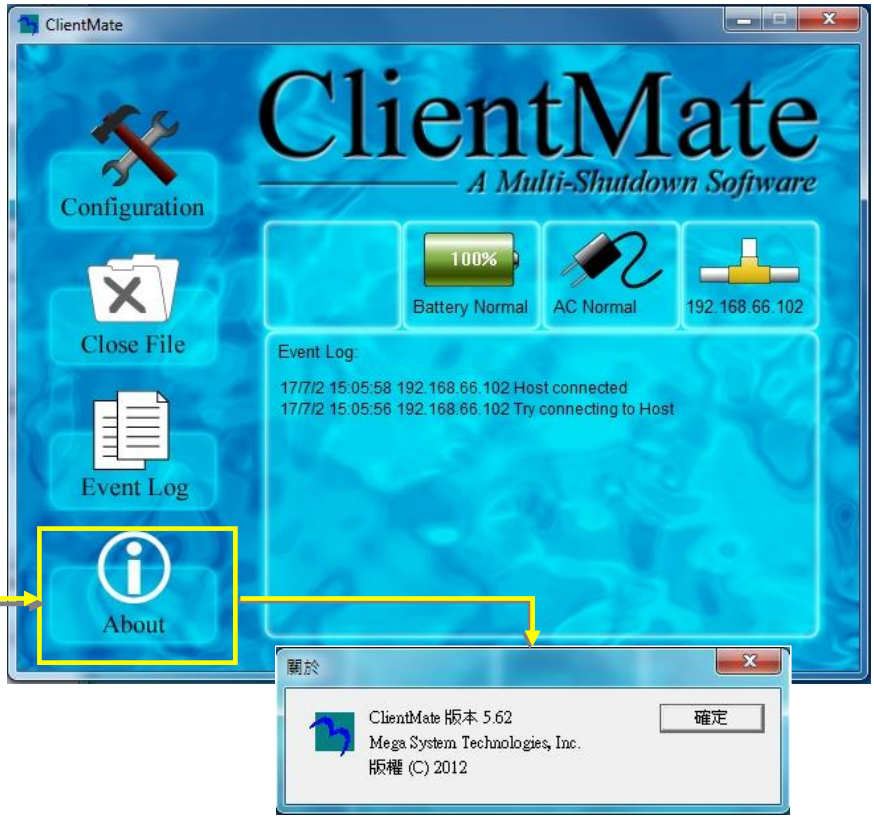


## Event Log




Check Event log

## About




Check ClientMate version

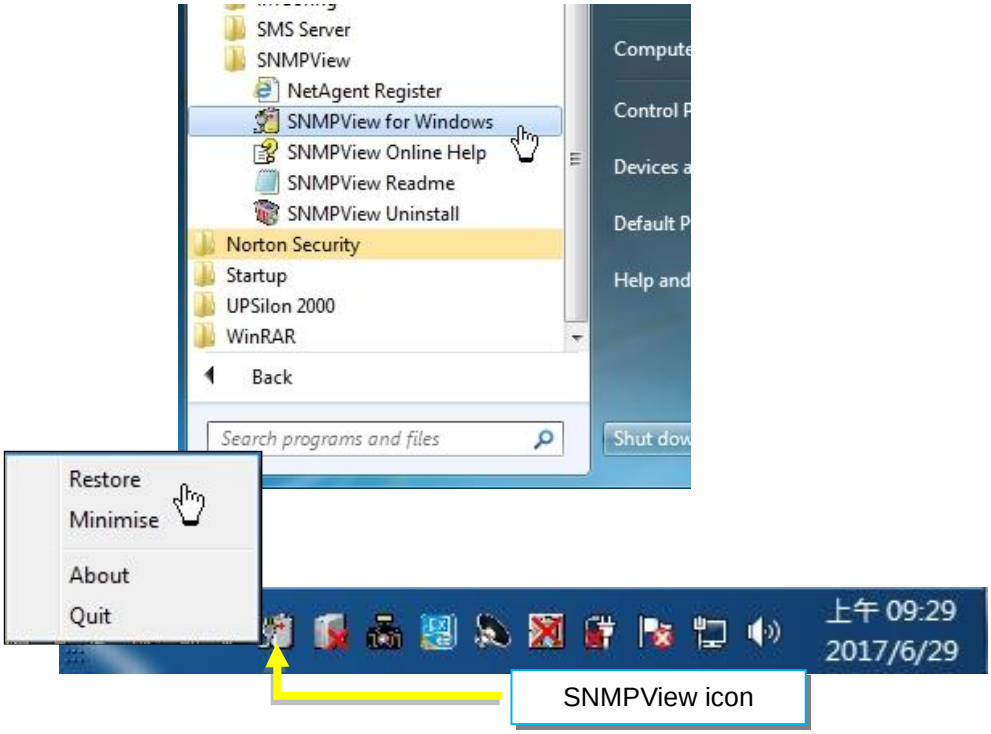
# *Chapter 7. SNMP View*

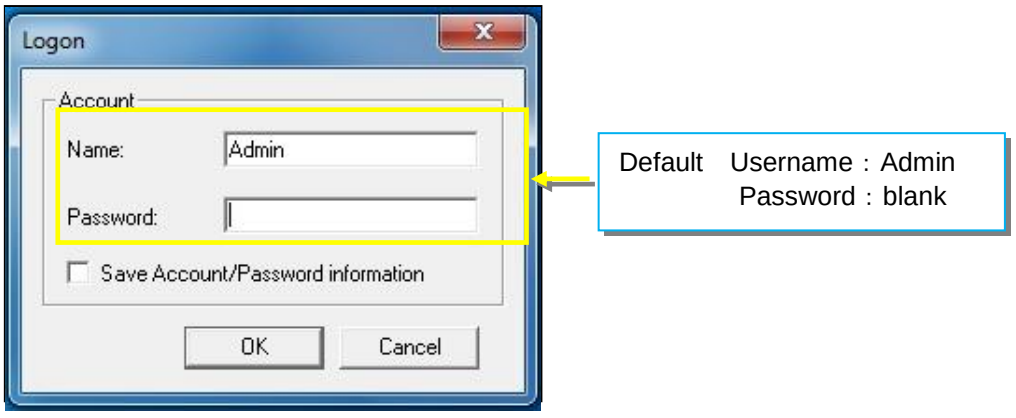
SNMPView is a NMS software to remotely monitor and control multiple UPS with NetAgent.. When an event occurs, SNMPView can be programmed to send an email or trapr to inform the designated network manager. It can also inform the user of the UPS current condition or configuration, perform self-test, send a history file, turn the UPS On/Off and more.

**Installation and setup**

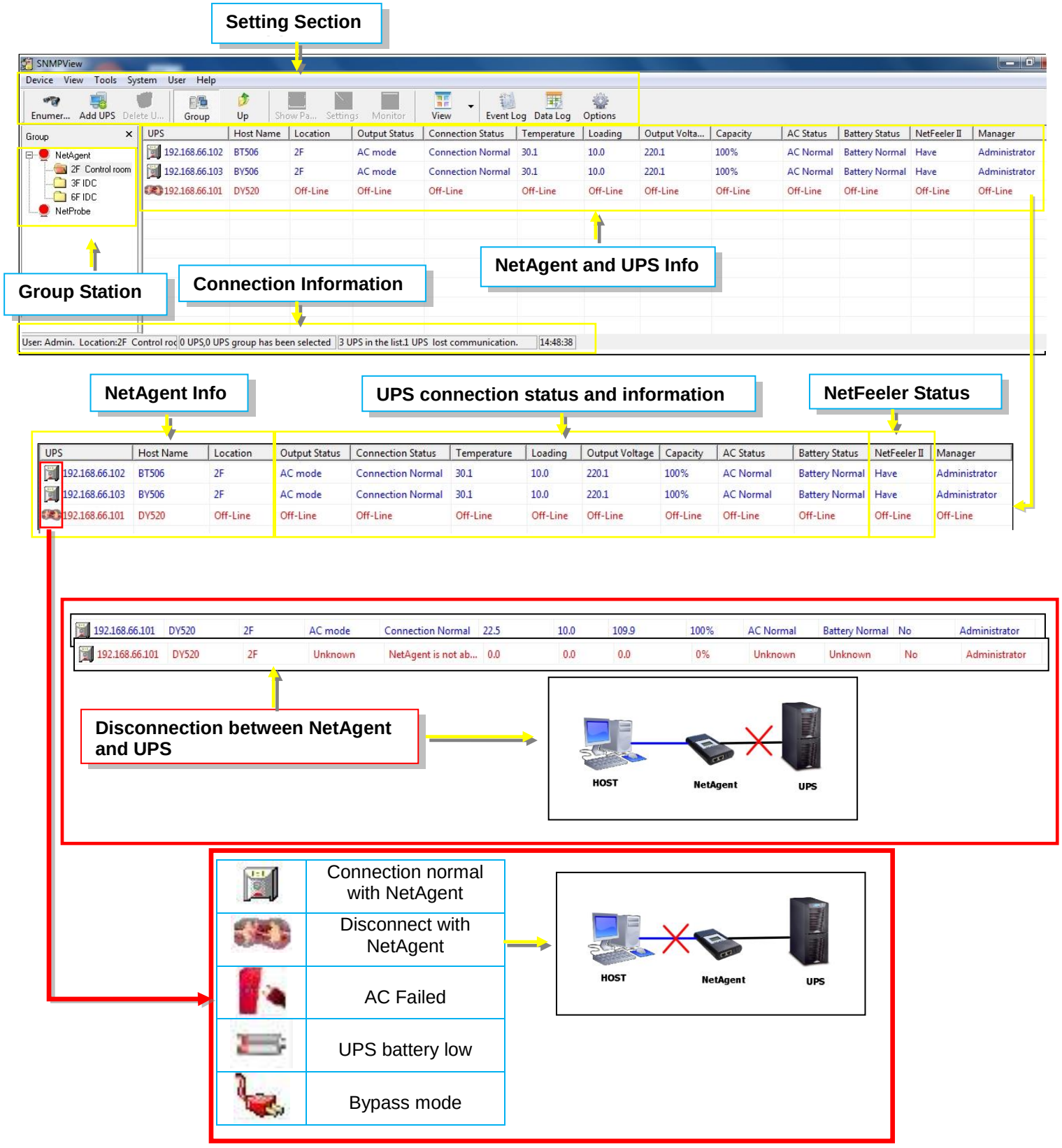
SNMP View software is available in the CD provided with NetAgent. After installed, it saves under directory of

All Programs >NetAgent > SNMPView > SNMP for Windows

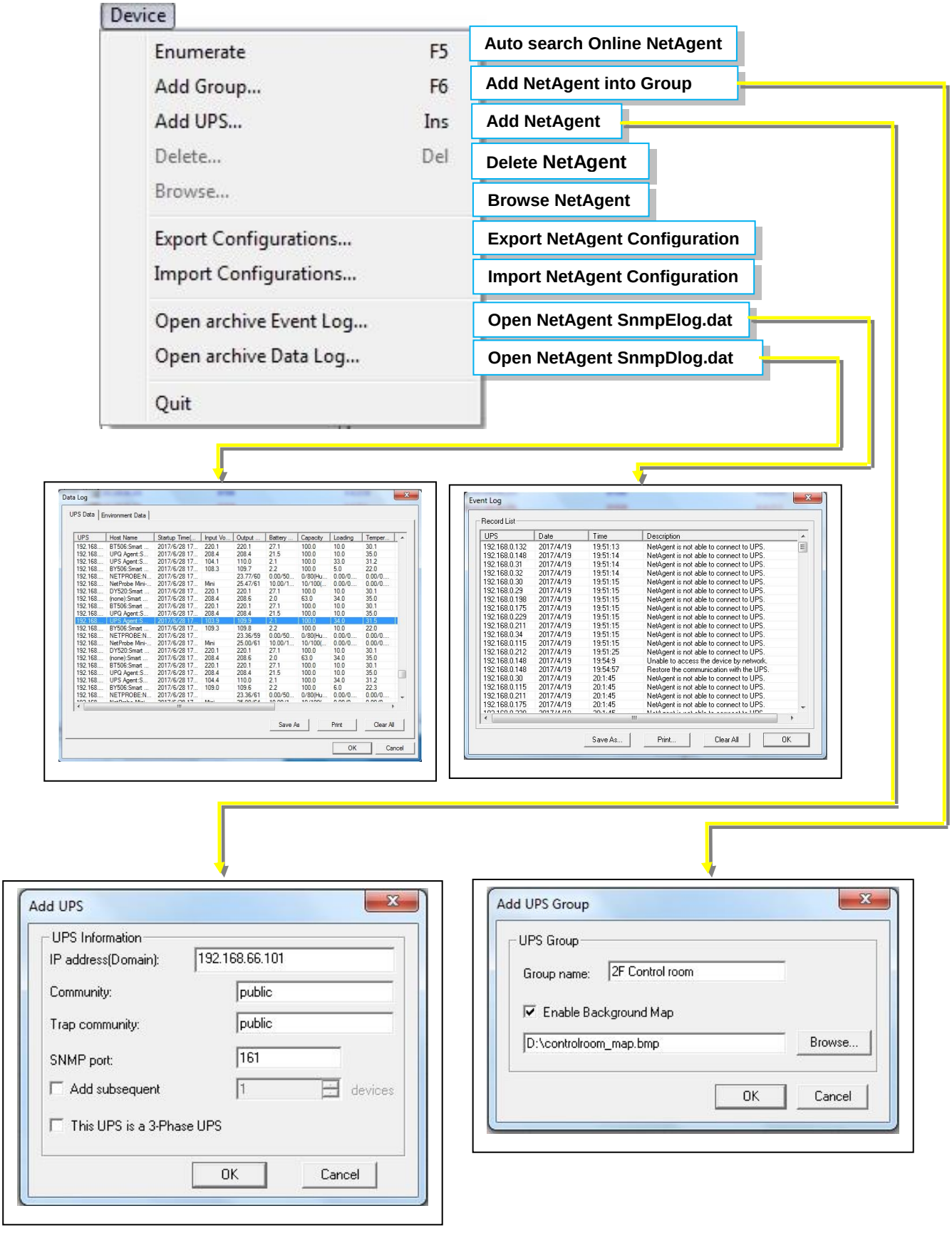


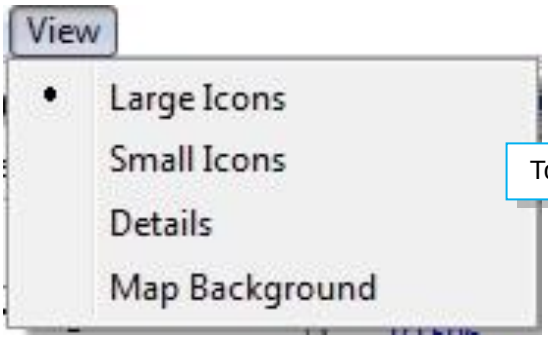



## Operation Interface



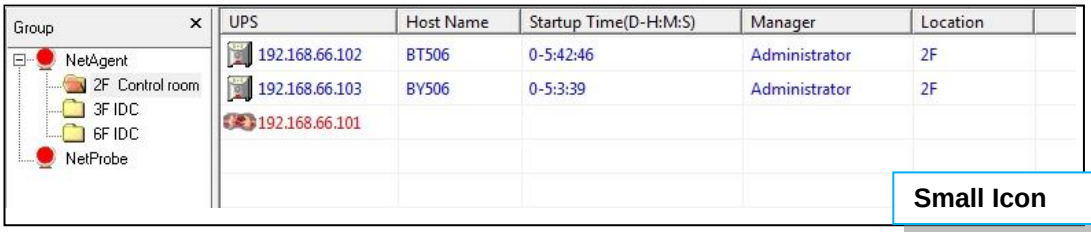
## Setting Tab/Device



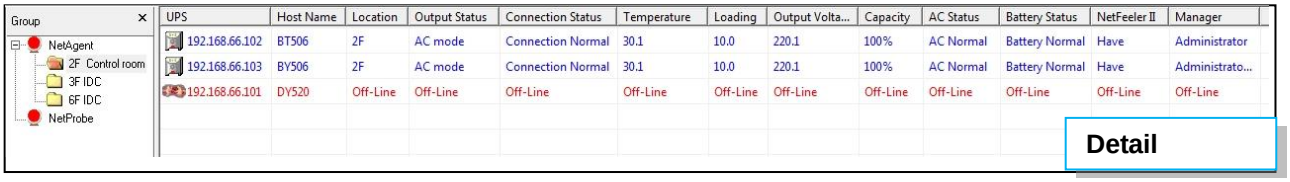



To view NetAgent with different mode

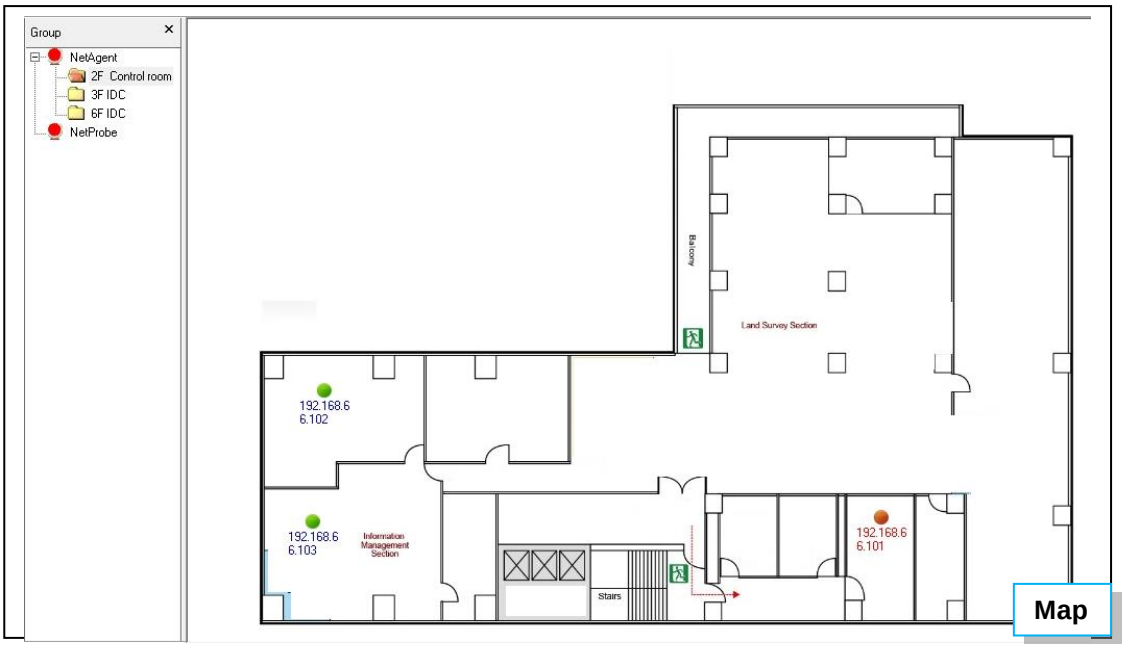
**Large Icon**



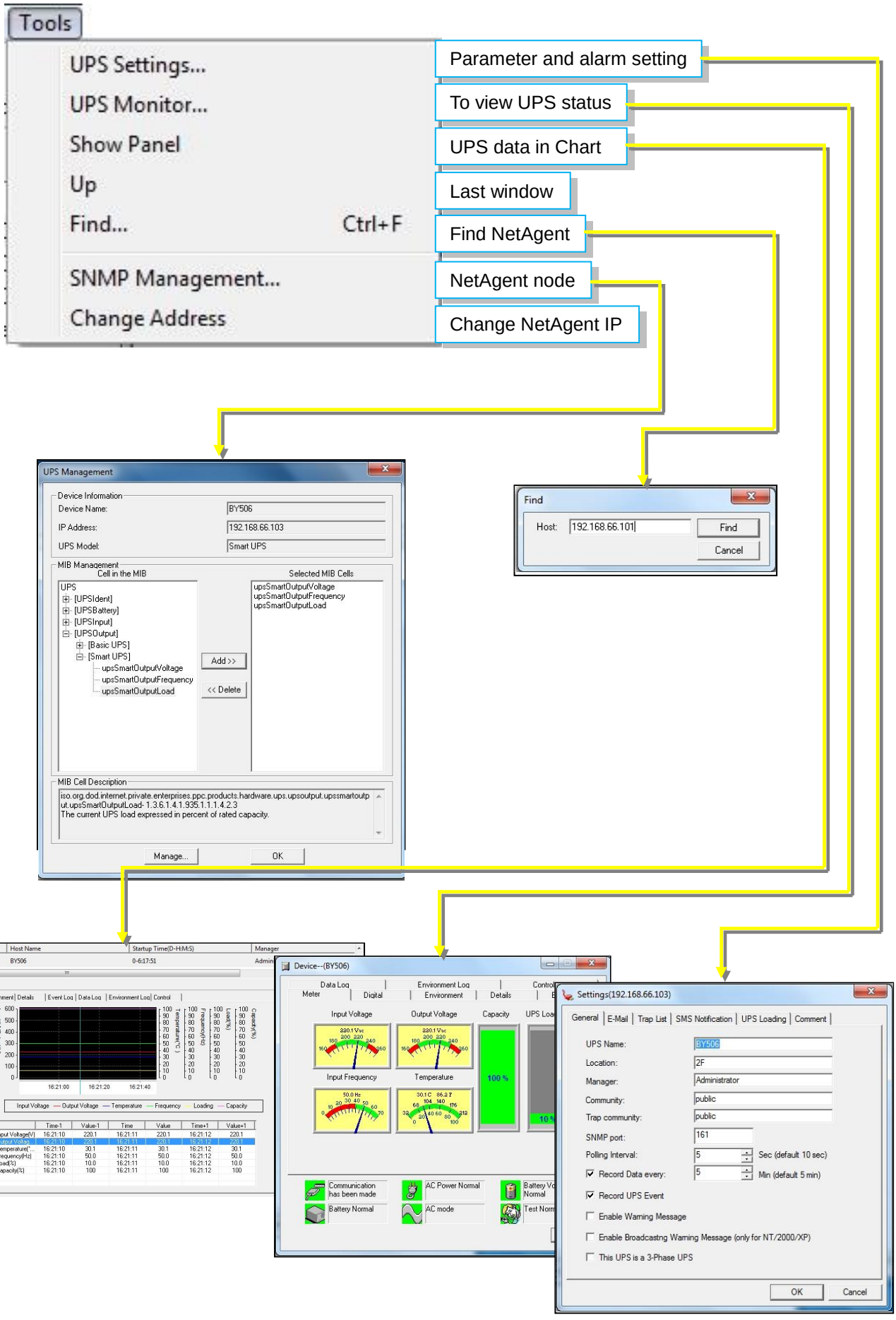

**Small Icon**

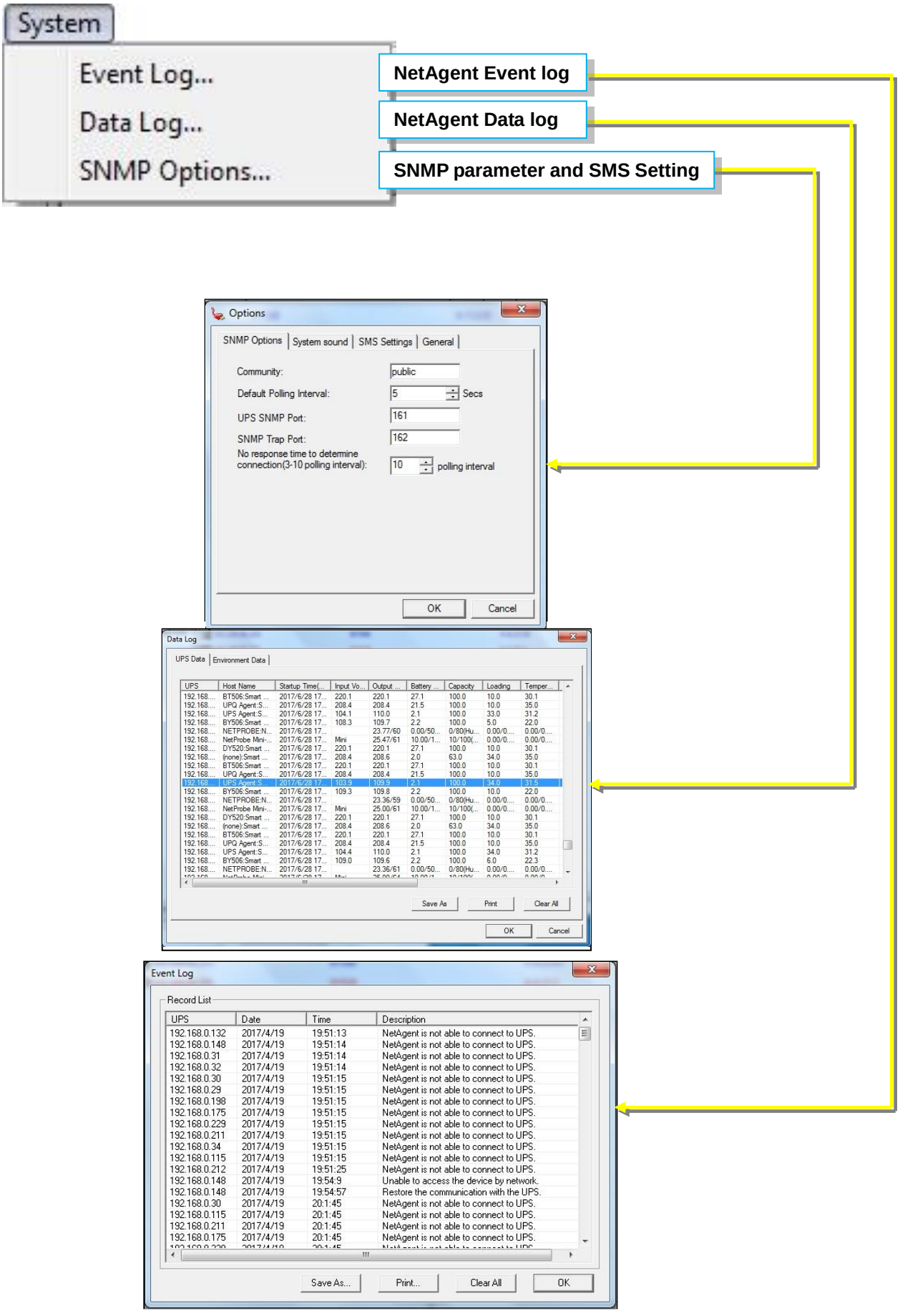


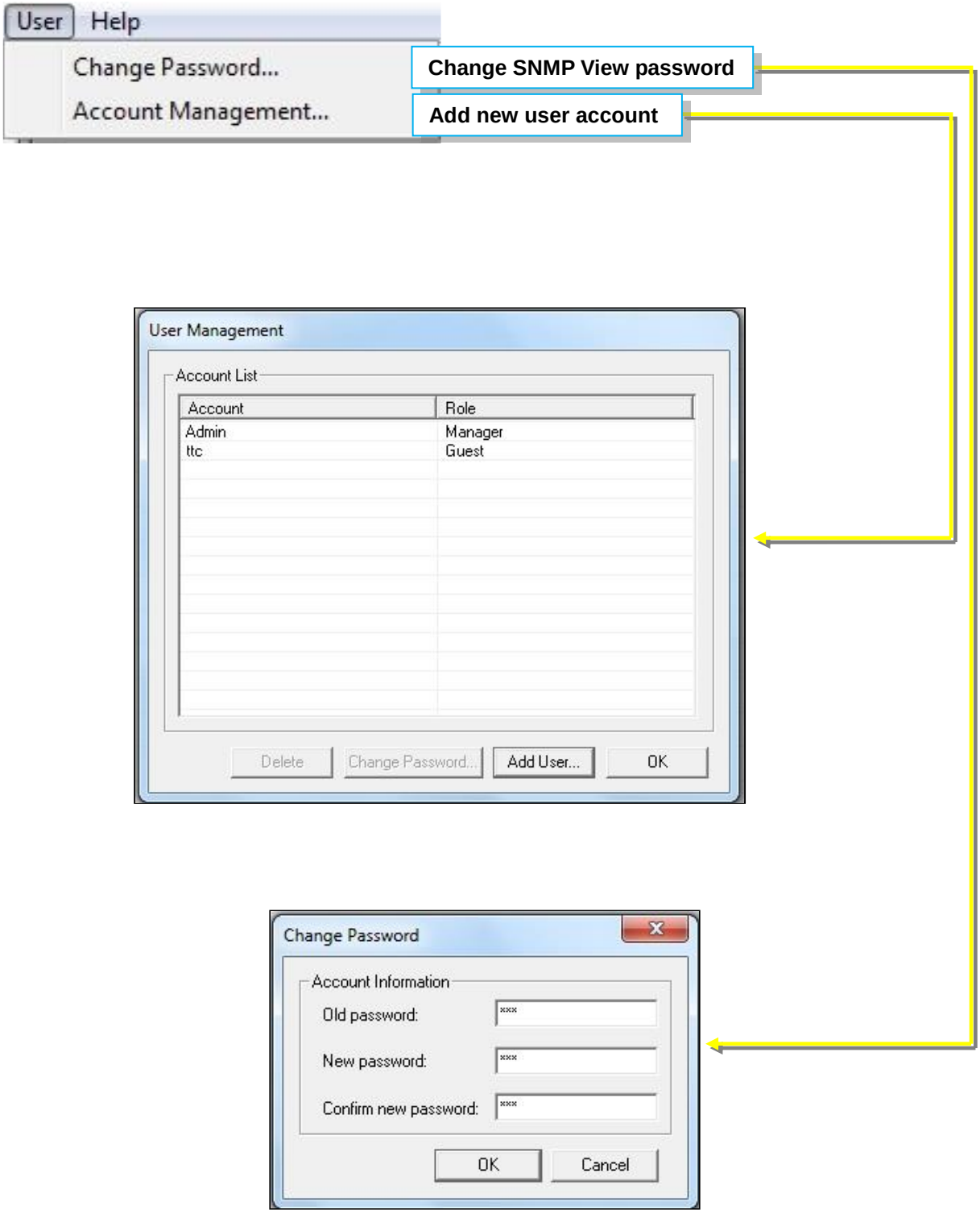

**Detail**




**Map**

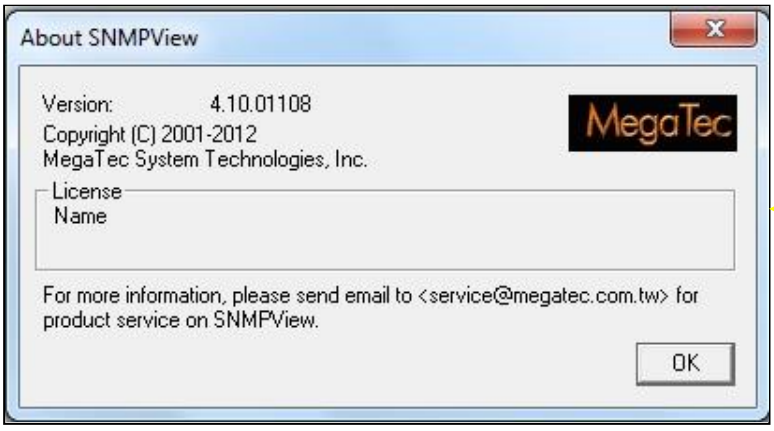

Tools
UPS Settings...
UPS Monitor...
Show Panel
Up
Find... Ctrl+F
SNMP Management...
Change Address
Parameter and alarm setting
To view UPS status
UPS data in Chart
Last window
Find NetAgent
NetAgent node
Change NetAgent IP
UPS Management
Device Information
Device Name: BY506
IP Address: 192.168.66.103
UPS Model: Smart UPS
MIB Management
Cell in the MIB
Selected MIB Cells
UPS
[UPSIdent]
[UPSBattery]
[UPSInput]
[UPSOutput]
[Basic UPS]
[Smart UPS]
upsSmartOutputVoltage
upsSmartOutputFrequency
upsSmartOutputLoad
Add >>
<< Delete
MIB Cell Description
The current UPS load expressed in percent of rated capacity.
Manage...
OK
Find
Host: 192.168.66.101
Find
Cancel
Device--(BY506)
Input Voltage
Output Voltage
Capacity
Input Frequency
Temperature
100 %
Communication has been made
AC Power Normal
Battery Normal
AC mode
Settings(192.168.66.103)
General
E-Mail
Trap List
SMS Notification
UPS Loading
Comment
UPS Name: BY506
Location: 2F
Manager: Administrator
Community: public
Trap community: public
SNMP port: 161
Polling Interval: 5 Sec (default 10 sec)
Record Data every: 5 Min (default 5 min)
Record UPS Event
Enable Warning Message
Enable Broadcastng Warning Message (only for NT/2000/XP)
This UPS is a 3-Phase UPS
OK
Cancel

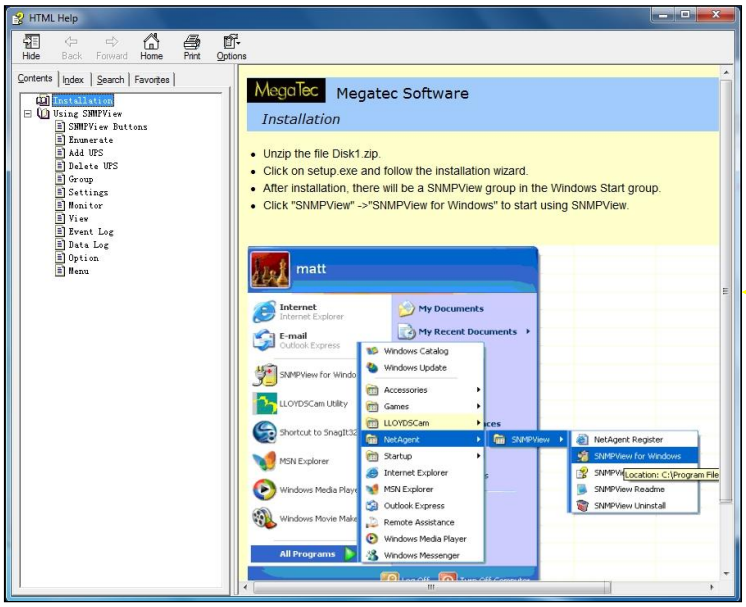

System
Event Log...
Data Log...
SNMP Options...
NetAgent Event log
NetAgent Data log
SNMP parameter and SMS Setting
Options
SNMP Options
System sound
SMS Settings
General
Community:
public
Default Polling Interval:
5
Secs
UPS SNMP Port:
161
SNMP Trap Port:
162
No response time to determine connection(3-10 polling interval):
10
polling interval
OK
Cancel
Data Log
UPS Data
Environment Data
Save As
Print
Clear All
OK
Cancel
Event Log
Record List
UPS
Date
Time
Description
192.168.0.132 2017/4/19 19:51:13 NetAgent is not able to connect to UPS.
192.168.0.148 2017/4/19 19:51:14 NetAgent is not able to connect to UPS.
192.168.0.31 2017/4/19 19:51:14 NetAgent is not able to connect to UPS.
192.168.0.32 2017/4/19 19:51:14 NetAgent is not able to connect to UPS.
192.168.0.30 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.29 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.198 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.175 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.229 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.211 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.34 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.115 2017/4/19 19:51:15 NetAgent is not able to connect to UPS.
192.168.0.212 2017/4/19 19:51:25 NetAgent is not able to connect to UPS.
192.168.0.148 2017/4/19 19:54:9 Unable to access the device by network.
192.168.0.148 2017/4/19 19:54:57 Restore the communication with the UPS.
192.168.0.30 2017/4/19 20:1:45 NetAgent is not able to connect to UPS.
192.168.0.115 2017/4/19 20:1:45 NetAgent is not able to connect to UPS.
192.168.0.211 2017/4/19 20:1:45 NetAgent is not able to connect to UPS.
192.168.0.175 2017/4/19 20:1:45 NetAgent is not able to connect to UPS.
Save As...
Print...
Clear All
OK


User
Help
Change Password...
Account Management...
Change SNMP View password
Add new user account
User Management
Account List
Account
Role
Admin
Manager
ttc
Guest
Delete
Change Password...
Add User...
OK
Change Password
Account Information
Old password:
New password:
Confirm new password:
OK
Cancel

**Menu Description**

**SNMPView Version and info**



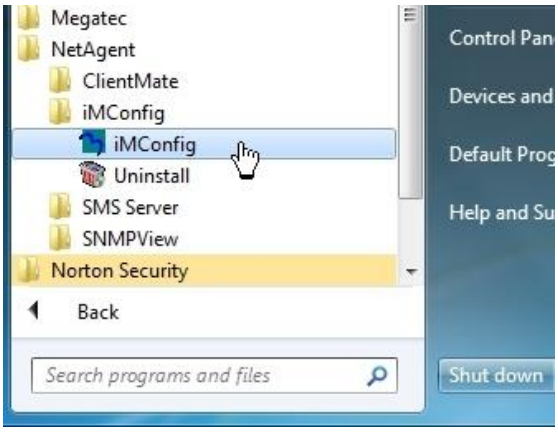
# *Chapter 8. iMConfig*

iMConfig is a tool software that allows user to change the same parameter on multi NetAgent simultaneously.

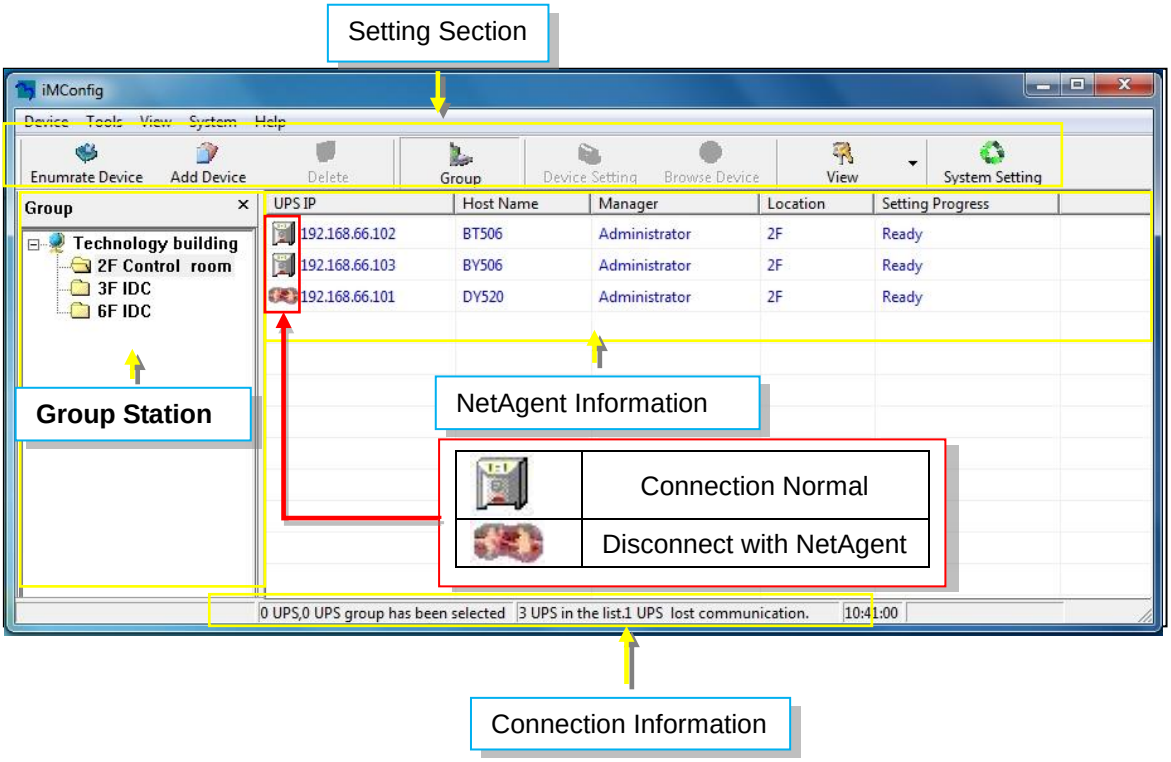
**Installation and setup**

iMConfig is available in the CD provided with NetAgent. After installed, it saves under directory of

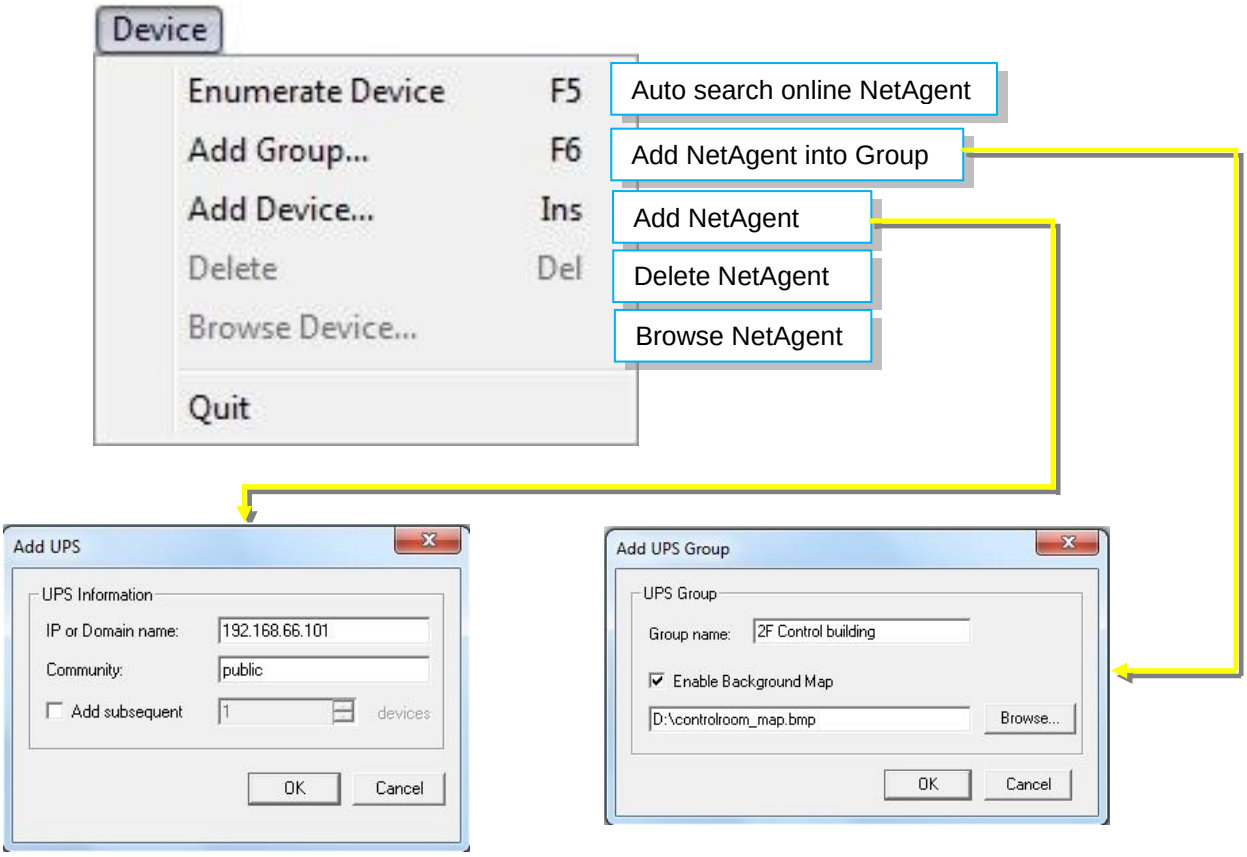
All Programs > NetAgent> iMConfig

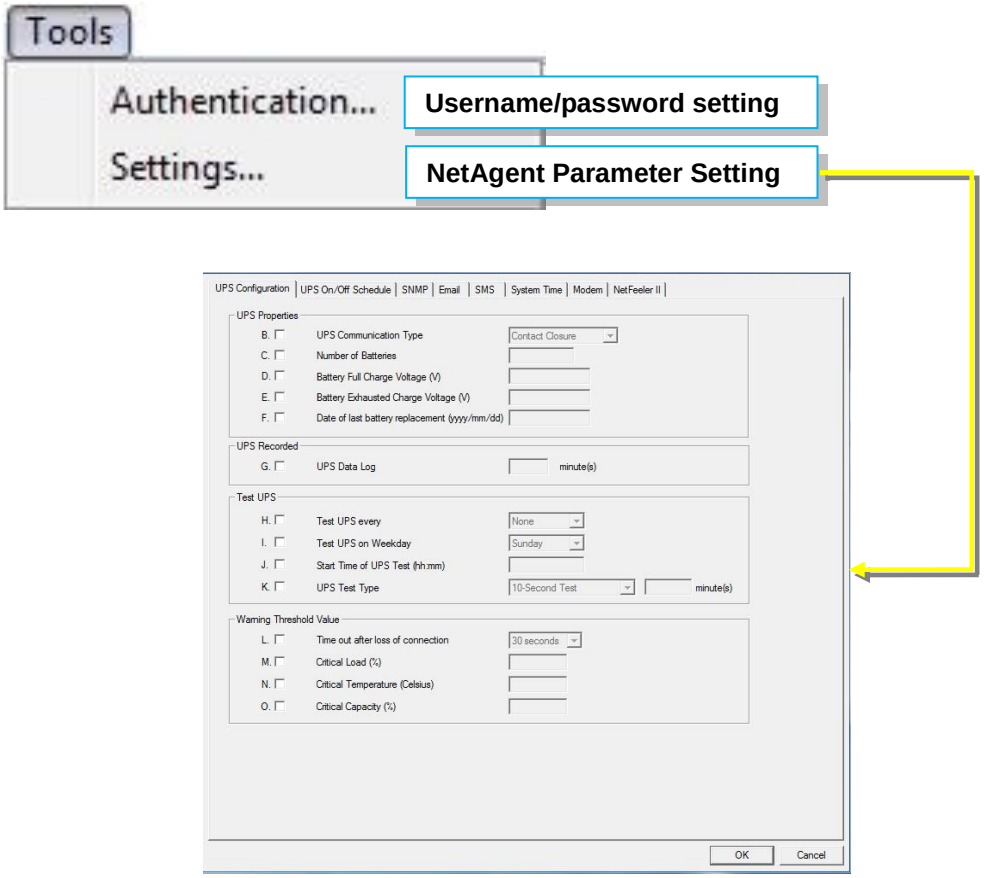


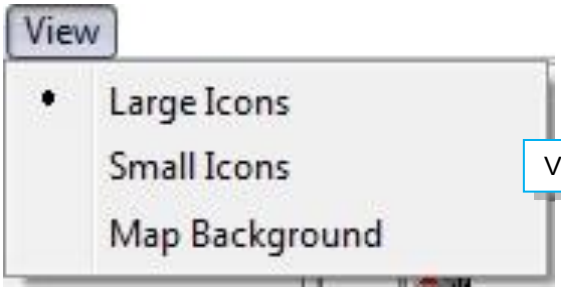

**Operation Interface**



## Setting Tab

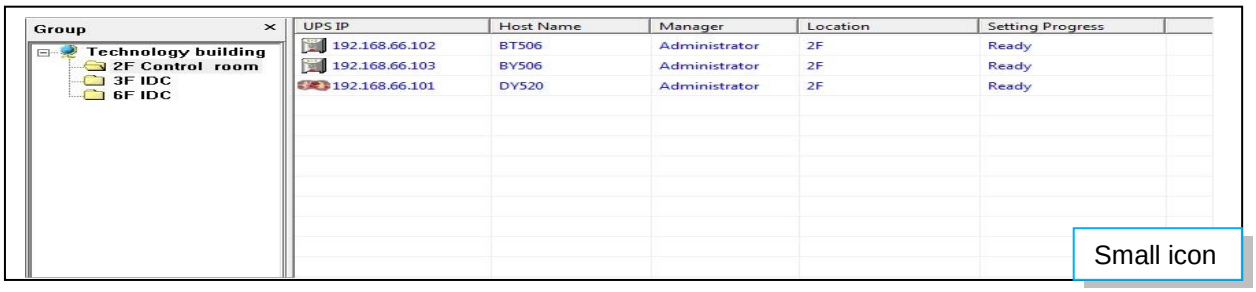

Device
Enumerate Device F5
Add Group... F6
Add Device... Ins
Delete Del
Browse Device...
Quit
Auto search online NetAgent
Add NetAgent into Group
Add NetAgent
Delete NetAgent
Browse NetAgent
Add UPS
UPS Information
IP or Domain name: 192.168.66.101
Community: public
Add subsequent 1 devices
OK Cancel
Add UPS Group
UPS Group
Group name: 2F Control building
Enable Background Map
D:\controlroom_map.bmp Browse...
OK Cancel


Tools
Authentication...
Settings...
Username/password setting
NetAgent Parameter Setting
UPS Configuration | UPS On/Off Schedule | SNMP | Email | SMS | System Time | Modem | NetFeeler II
UPS Properties
B. UPS Communication Type Contact Closure
C. Number of Batteries
D. Battery Full Charge Voltage (V)
E. Battery Exhausted Charge Voltage (V)
F. Date of last battery replacement (yyyy/mm/dd)
UPS Recorded
G. UPS Data Log minute(s)
Test UPS
H. Test UPS every None
I. Test UPS on Weekday Sunday
J. Start Time of UPS Test (hh:mm)
K. UPS Test Type 10-Second Test minute(s)
Warning Threshold Value
L. Time out after loss of connection 30 seconds
M. Critical Load (%)
N. Critical Temperature (Celsius)
O. Critical Capacity (%)
OK Cancel

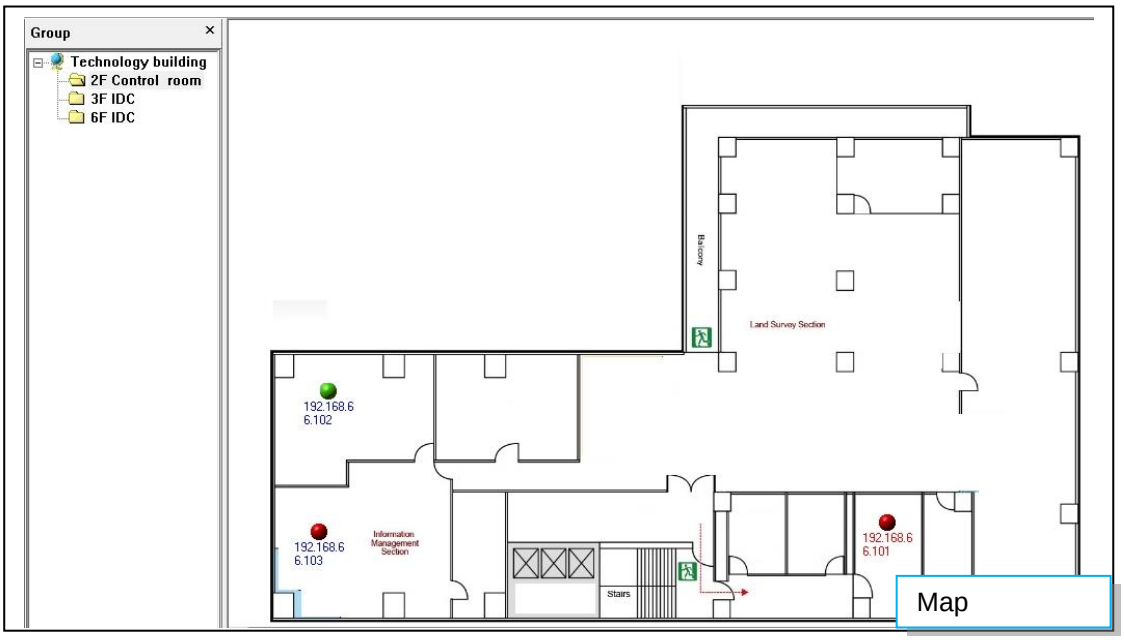



View with different mode

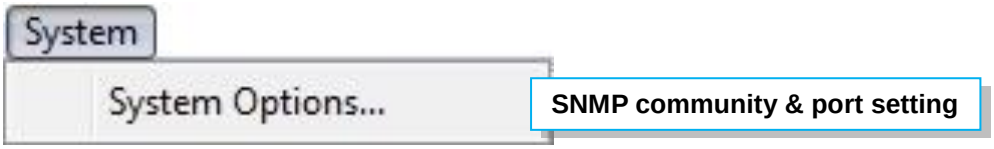
Large icon

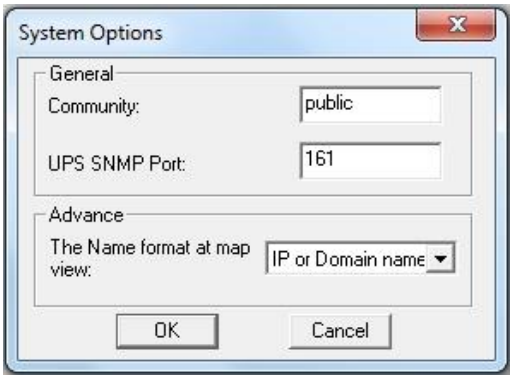


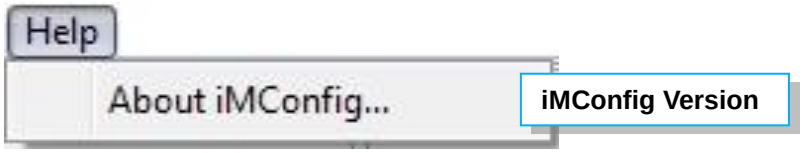

Small icon




Map


System
System Options...
SNMP community & port setting

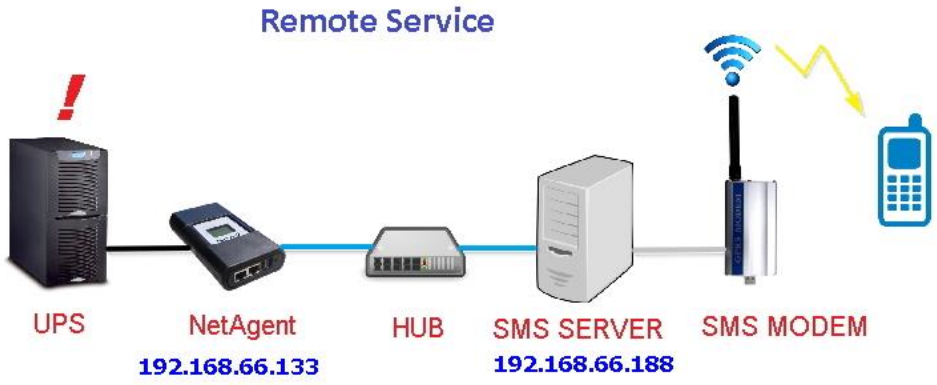

System Options
General
Community:
public
UPS SNMP Port:
161
Advance
The Name format at map view:
IP or Domain name
OK
Cancel


Help
About iMConfig...
iMConfig Version

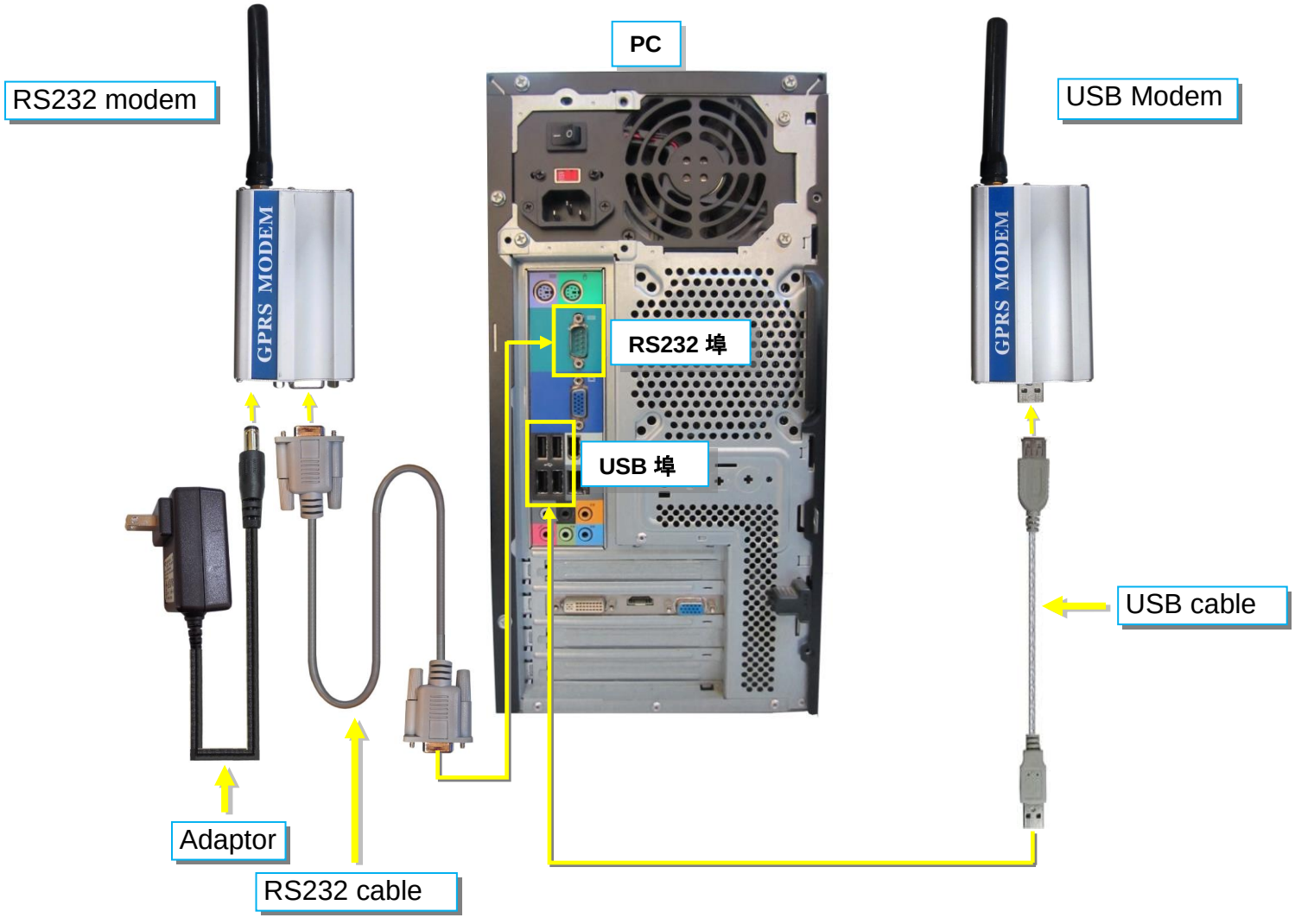
About iMConfig
iMConfig 1.2
Copyright (C) 2012
Mega System Technologies, Inc.
MegaTec
OK

# *Chapter 9. SMS Server Software*

SMS notification can be send by modem that connects to 3 ports NetAgent II or NetAgent 9 (BX/BY) model directly, or , it can also be achieved by the remote PC that has SMS Server software installed with modem connected



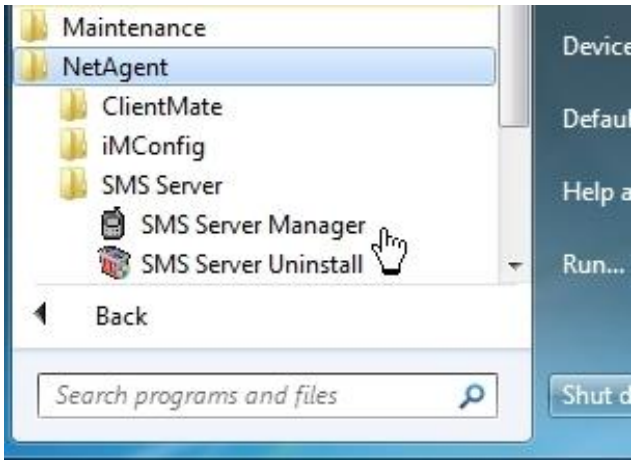

**Modem Installation**

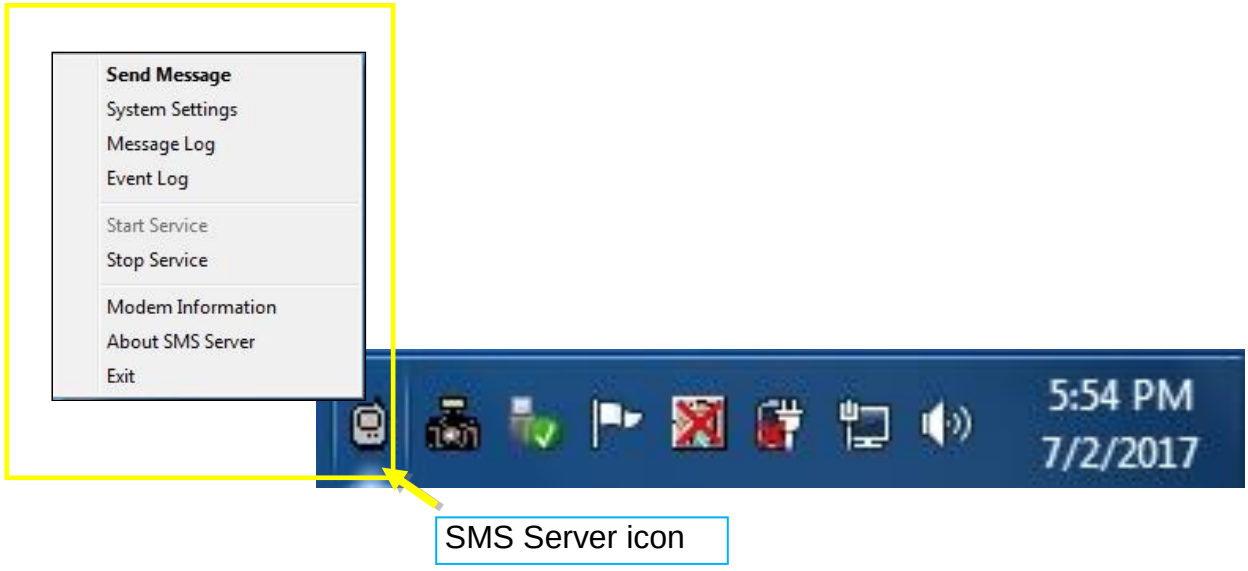


## SMS Server Software Installation

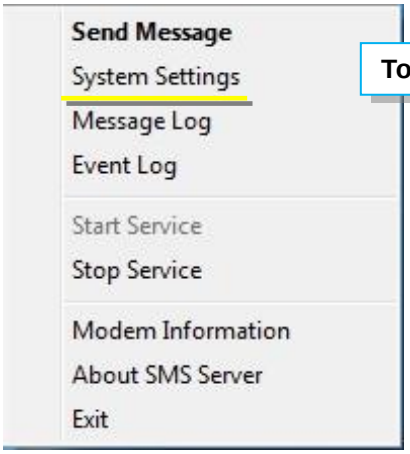
SMS Server software is available in the CD provided with NetAgent. After installed, it saves under directory of

All Programs > NetAgent>SMS Server>SMS Server Manager



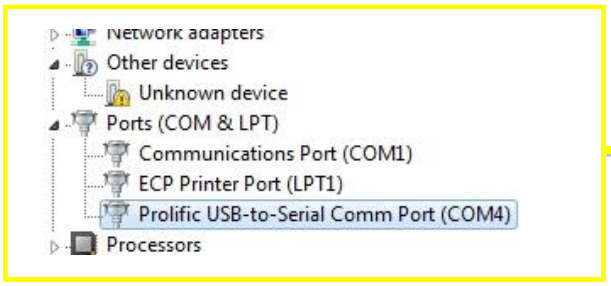
## Settings

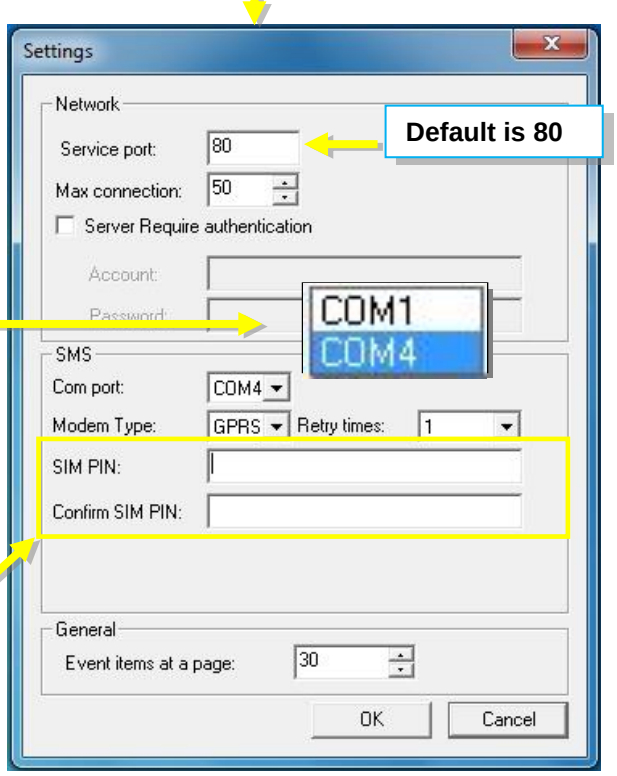



**To configure type of modem, port, SIM PIN**

**Check the virtual port number when using with USB modem**

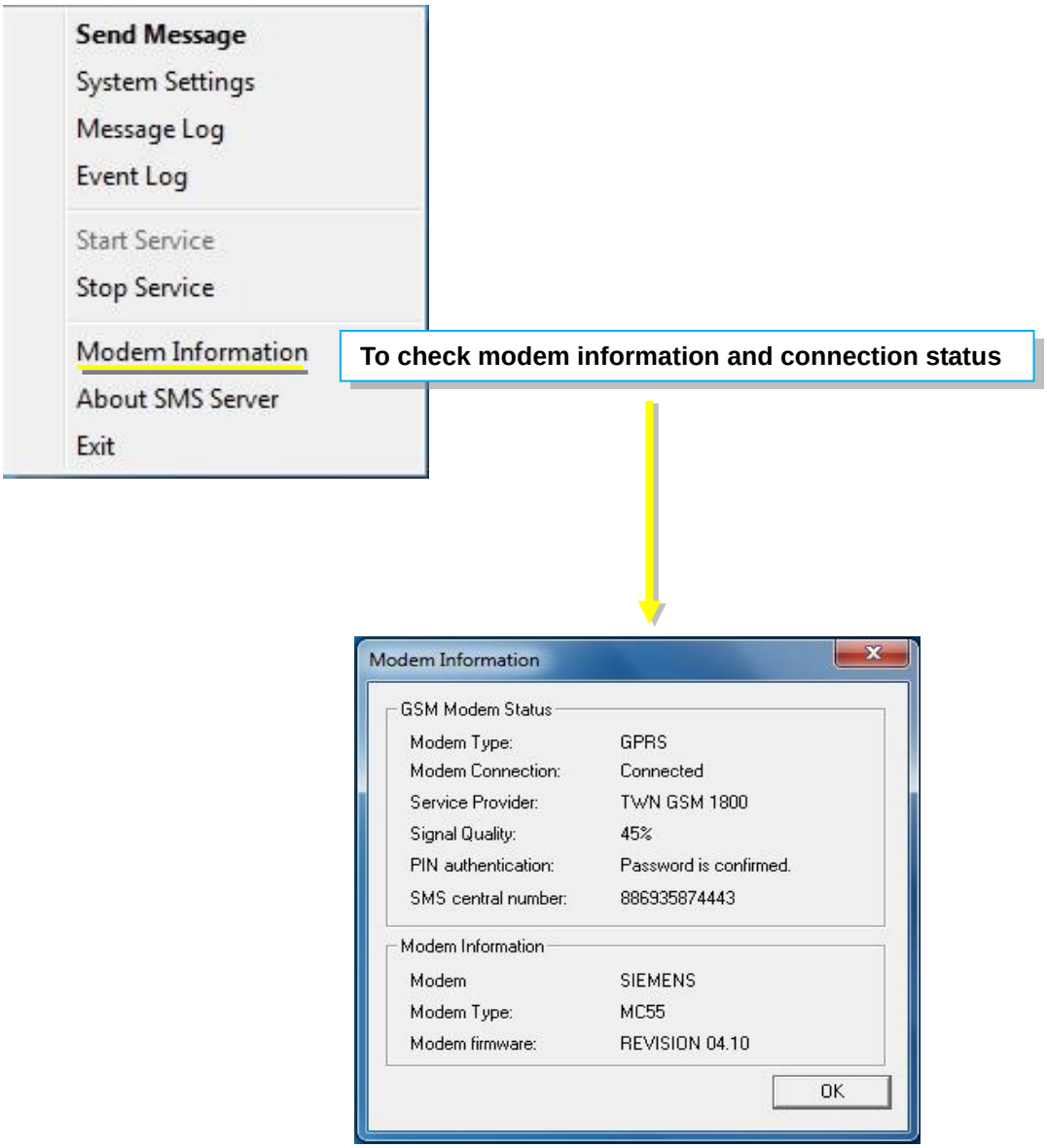
**Select COM port of COM1,COM2.. when using with RS232 modem**



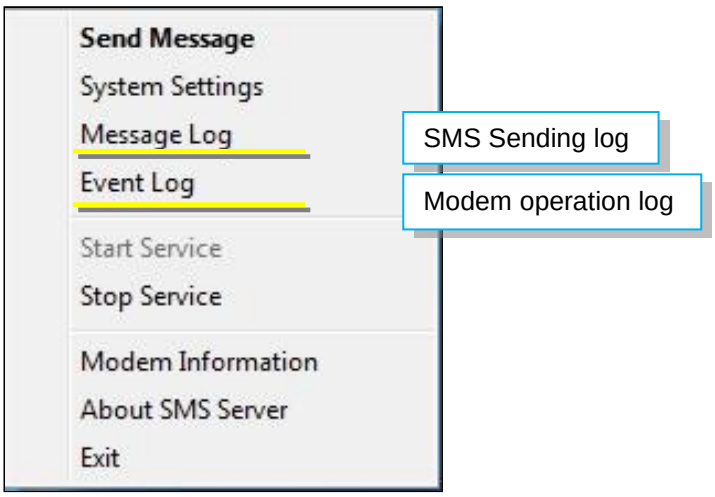



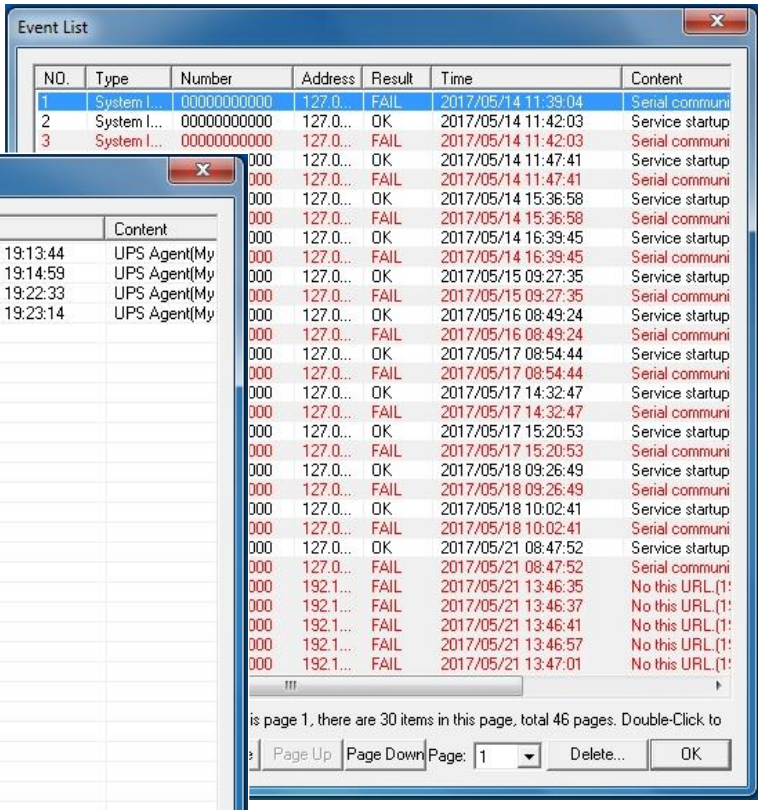

**Default is 80**

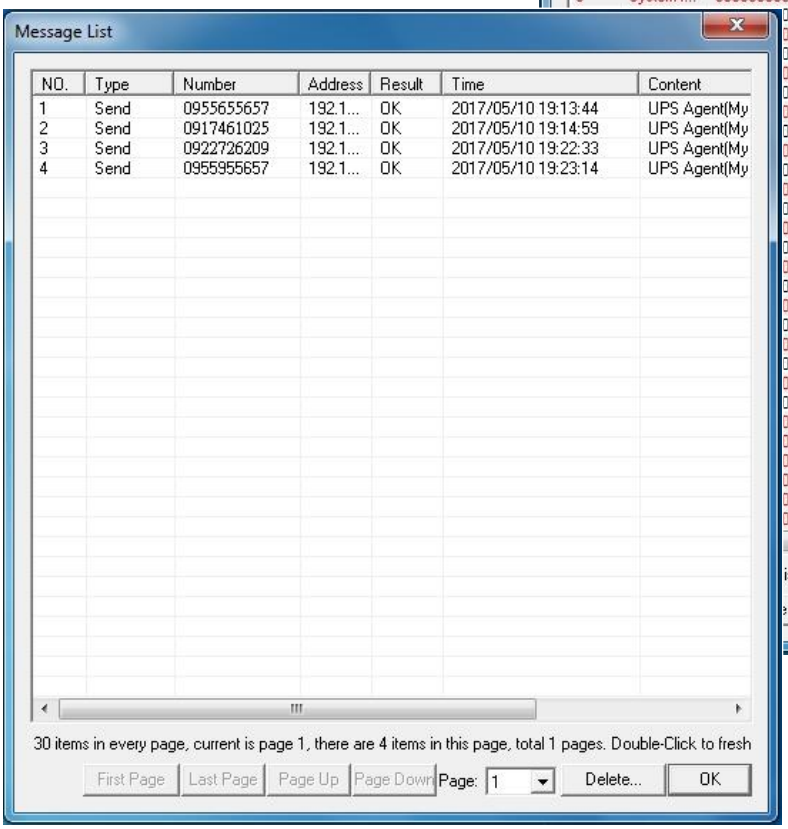
**If PIN required, please enter**

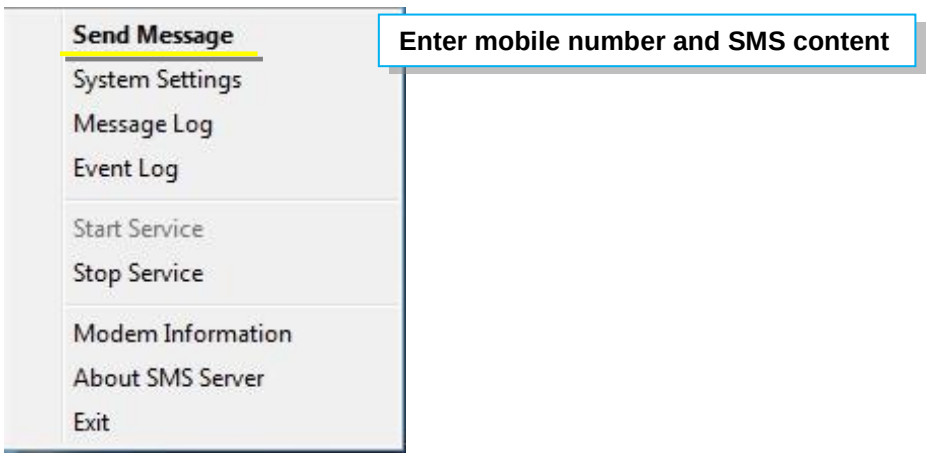


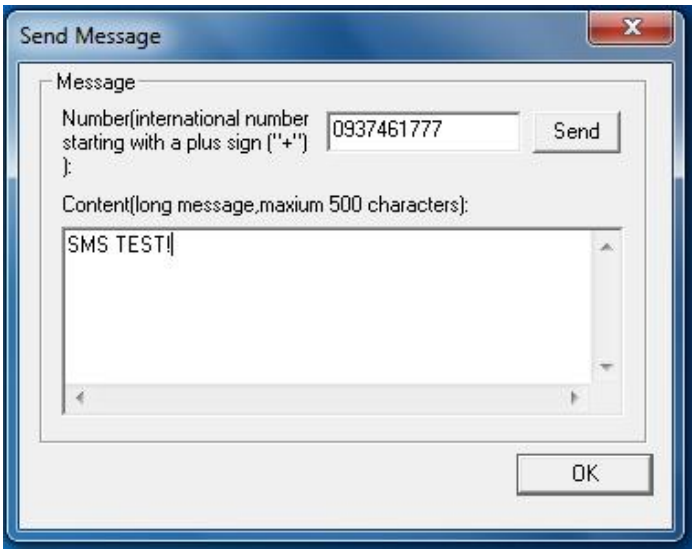

-Ensure all settings are correct and modem is connected with signal in order to send SMS successfully


Send Message
System Settings
Message Log
Event Log
Start Service
Stop Service
Modem Information
About SMS Server
Exit
SMS Sending log
Modem operation log

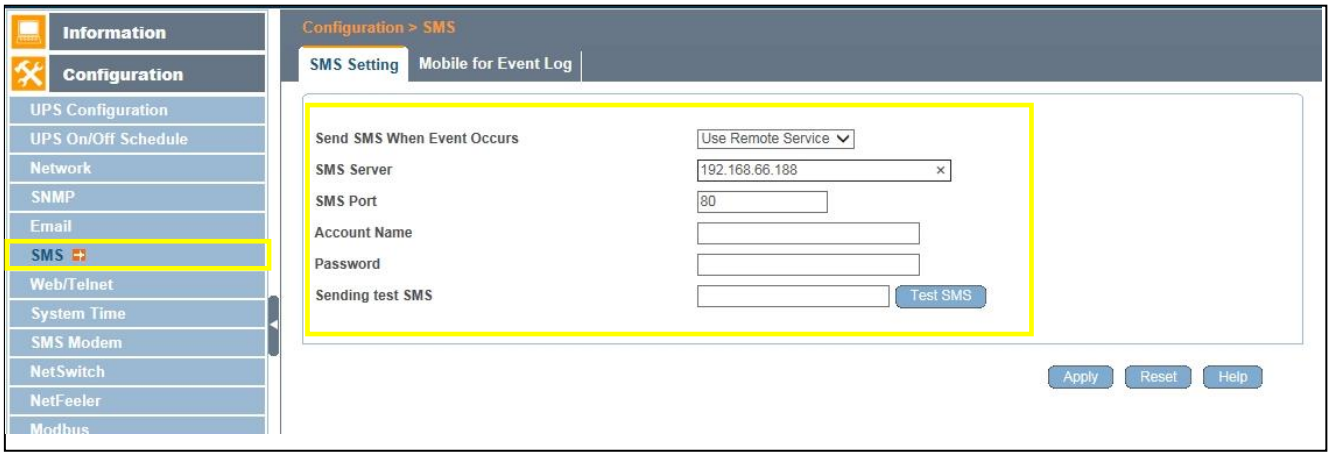

Event List
NO. Type Number Address Result Time Content
1 System I... 00000000000 127.0... FAIL 2017/05/14 11:39:04 Serial communi
2 System I... 00000000000 127.0... OK 2017/05/14 11:42:03 Service startup
3 System I... 00000000000 127.0... FAIL 2017/05/14 11:42:03 Serial communi
is page 1, there are 30 items in this page, total 46 pages. Double-Click to
Page Up
Page Down
Page: 1
Delete...
OK


Message List
NO. Type Number Address Result Time Content
1 Send 0955655657 192.1... OK 2017/05/10 19:13:44 UPS Agent(My
2 Send 0917461025 192.1... OK 2017/05/10 19:14:59 UPS Agent(My
3 Send 0922726209 192.1... OK 2017/05/10 19:22:33 UPS Agent(My
4 Send 0955955657 192.1... OK 2017/05/10 19:23:14 UPS Agent(My
30 items in every page, current is page 1, there are 4 items in this page, total 1 pages. Double-Click to fresh
First Page
Last Page
Page Up
Page Down
Page: 1
Delete...
OK




When SMS Server software installation and connection are both complete, the IP address of PC may be entered in the NetAgent's SMS webpage and select "Use Remote Service". Such NetAgent would then be able to send SMS notification via this SMS Server PC



# *Chapter 10. Appendix*

When Netility and NetAgent's username/password are lost, please follow the steps below to clear or check the configuration

1. Get the PC that is under same network as NetAgent-SNMP card
2. Open up the browser and type http://xxx.xx/password.cgi (xx.xxx is the IP address of the NetAgent)

3. Enter ID: admin

   Password: Enter the master password for the device

4. Press continue and clear

# NetAgent*A*

UPS SNMP Agent

User's Manual

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# *Chapter 1. Introduction*

## *1.1 Features*

NetAgent*A* is the SNMP (Simple Network Management Protocol) card for monitoring UPS. Not only could remote control the UPS and get the current status of it, it is also support to connect to compatible modem to send SMS notification, or our NetFeeler II and its additional sensors for ambient temperature, humidity and water status. The product is for “Contact Closure” and “RS232” interface UPS and the communication protocol includes the Contact Closure, RS232[MegaTec], Phoenixtec], SEC 2400, SEC 9600, Megatec Three Phase, ..etc. NetAgent*A* provides a simple and easy installation procedure. CD provides along with NetAgent*A* offers several software to allow the user to configure IP address; central monitoring and multi shutdown on different operating systems. Other advance configurations could be accomplished in the Web browser.

Features:

**(1)** Provide SNMP MIB to monitor & control UPS
**(2)** Auto-sense 10M /100M/1000M Fast Ethernet Manage and configure via Telnet, Web Browser or NMS
**(3)** Support TCP/IP, UDP, SNMP, Telnet,SNTP, PPP, HTTP, HTTPS, SMTP, FTP, Modbus, BACnet Protocols
**(4)** Support SSL/TLS, SSH Encryptions
**(5)** Providing easy setup and upgrade tools via our Netility software
**(6)** Send SNMP TRAP ; E-mail and SMS for events notification.
**(7)** Auto email daily UPS history report
**(8)** Perform graceful shutdown with our ClientMate software
**(9)** Add-on optional NetFeeler II for temperature, humidity, water, smoke and door sensor
**(10)** Add-on optional WiFi dongle for wireless network access
**(11)** Add-on optional GPRS modem for SMS notification

## *1.2 Applications*

- **NetAgent*A* allows UPS to be monitor on network**

When the UPS connects with NetAgent*A*, 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*A* which connects to the UPS. When there is a power abnormal condition happens, the NetAgent*A* could also send the trap information to the system manager to take proper action.

- **NetAgent*A* Provides Shutdown Utilities**

When a computer install our shutdown software in the network that connects to the NetAgentA, when UPS is in AC failure condition or Battery Low condition, the software would close all the files of the operating system and shutdown gracefully. This could avoid system corrupt when a power disconnection happened.

- **NetAgent*A* for Surrounding Monitoring**

NetAgent*A* with USB ports could connect to optional sensor- USB NetFeeler to get the surrounding temperature/humidity/smoke/fire signals. These information could also be revealed on the NetAgent*A* Web page. When there is an abnormal condition happened, it could also be sent as a trap to the system manager.

# Chapter 2. NetAgentA Series

## 2.1 NetAgentA Mini Models

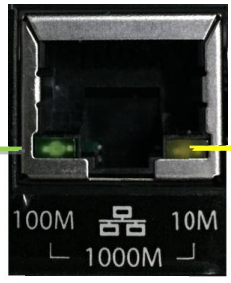
| NetAgentA Mini Model | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Model Name** | **Package Contents** | **Internal** | **External** | **RJ45** | **RS232** | **ENV** | **USB** | **Single Phase** | **Three Phase** |
| **DA520** | 1. NetAgentAA Mini SNMP Card<br>2. NetAgentA Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | | V | V |
| **DA806** | 1. NetAgentAA Mini SNMP Card<br>2. NetAgentA Utility CD<br>3. Quick Installation Guide (Optional)<br>4. M2509 Cable (USB) | V | | V | | | V | V | V |
| **DA807** | 1. NetAgentAA Mini SNMP Card<br>2. NetAgentA Utility CD<br>3. Quick Installation Guide (Optional) | V | | V | | | V | V | V |

## 2.2 NetAgentA Mini LED Indication

**Status LED** **RJ45 Ethernet**

| Amber | Red | |
|---|---|---|
| **Communication** | **Connection Status with UPS** | |
| **Flashing** | **Flashing** | **Off** |
| Transferring data with UPS | Lost connection | Connecting with UPS |

| Green | | Yellow | |
|---|---|---|---|
| **Power Status** | | **NetAgentA Mini Status** | |
| **On** | **Off** | **On** | **Off** |
| Normal | No Power | Operating | Stop working |

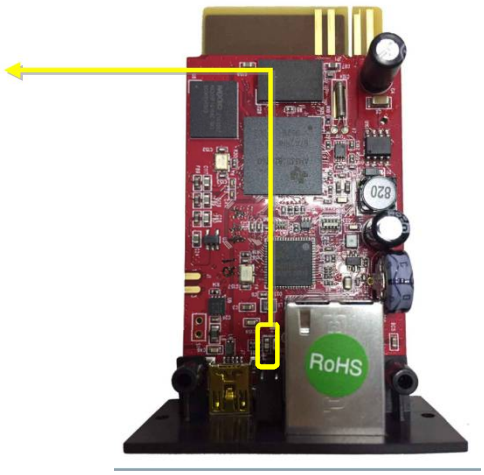



| Green | | Yellow | |
|---|---|---|---|
| **On** | **Flashing** | **On** | **Flashing** |
| 100 Mbps | Sending/ Receiving Data | 10 Mbps | Sending/ Receiving Data |

When Green and Yellow LED are both ON, it runs at 1000M mode

NOTE : When writing firmware, red led alternating flashing, DO NOT remove any power

| D5 | D4 |
|---|---|
| Green | Blue |
| Power | Communication |
| On / Off | Flashing |
| Normal / No Power | Sending/Receiving Data |




| Red |
|---|
| UPS connection |
| Flashing / Off |
| Lost connection / Connecting with UPS |

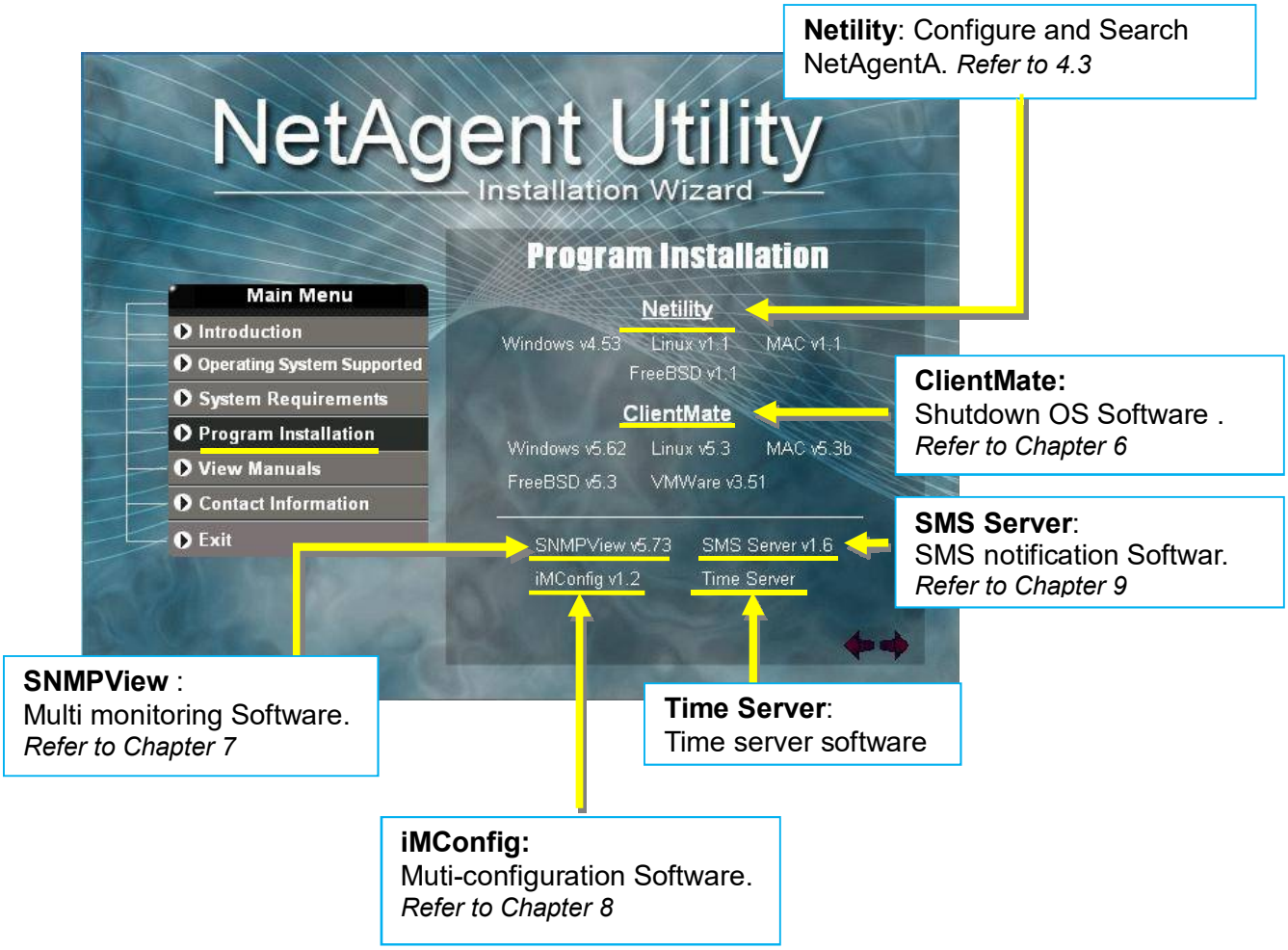
| Yellow |
|---|
| NetAgentA Mini 9 Status |
| On / Off |
| Operating / Stop Working |

| Status | Power On | Lost Communication | Writing Firmware |
|---|---|---|---|
| Yellow<br>NetAgentA Mini 9 Status | On | On | Off |
| Red<br>UPS Communication | Off | Flashing | Flashing |
| Green<br>Power | On | On | On |

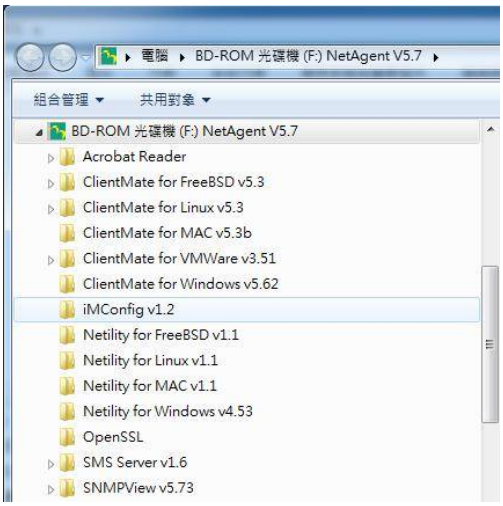
## *Chapter 3 Software Installation*

### *3.1 Software Installation*

NetAgentA Utility CD offers several management and shutdown software. Insert CD into CD-ROM and software can be select under **【Program Installation】**



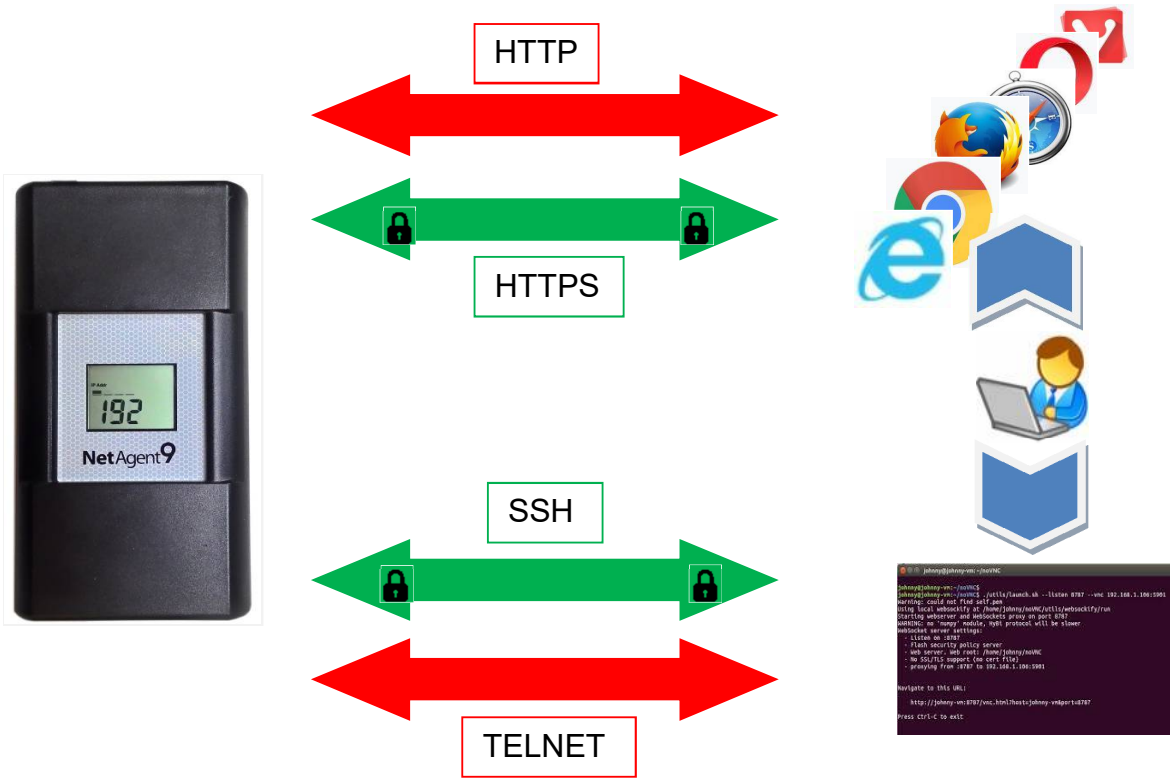

If the PC does not executes CD program automatically, please select from File Managment



# Chapter 4. NetAgentA Setting

## 4.1 Introduction

NetAgent*A* can be login via web or HyperTerminal with protocol and encryption of HTTP/HTTPS/SSH/Telnet. Enter the IP address of NetAgent*A* to configure and monitor the UPS status.




## 4.2 NetAgentA Login Procedure

1. Connect NetAgent*A* to modem/router

2. Install Netility under same network

3.NetAgent*A* searches all available NetAgent*A* within same network

4.Configure IP address of NetAgent*A*
(1)DHCP IP (Default) (2)Static IP

5. Enter IP address of the NetAgent*A* on browser

5. Double click NetAgent*A* from Netility

5. Login via HyperTerminal

6. Select the compatible protocol under UPS Configuration webpage of NetAgent*A*

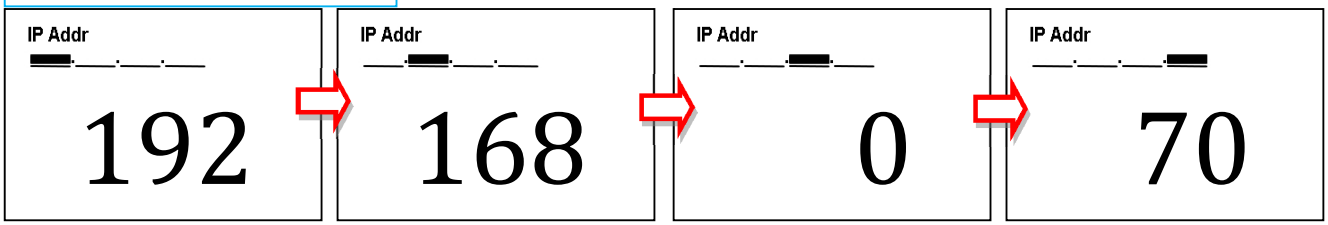
7.Enter other parameter on NetAgent*A* webpage

**NOTE 1**：Each NetAgent*A* has its unique serial number / MAC address and Password. This is available on the label of each unit.　This helps to identify the card information on Netility

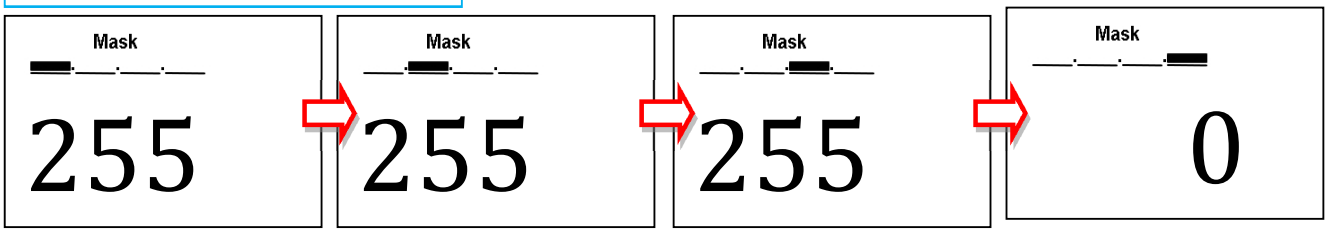
**NOTE 2**： NetAgent*A* with LCD display may obtain the IP info from it.

Example of LCD display format as below

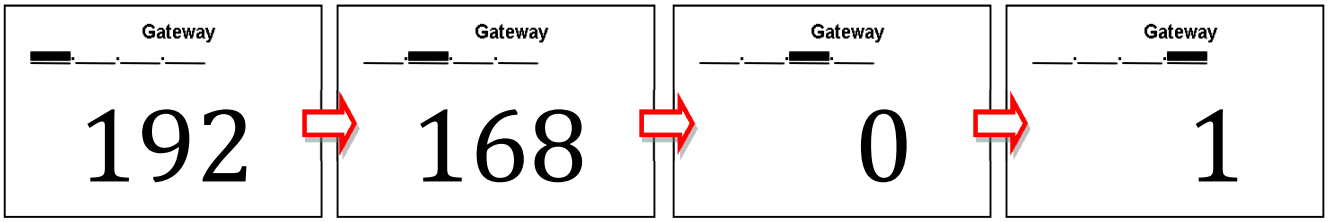
IP address 192.168.0.70




Subnet Mask: 255.255.255.0




Gateway:192.168.0.1

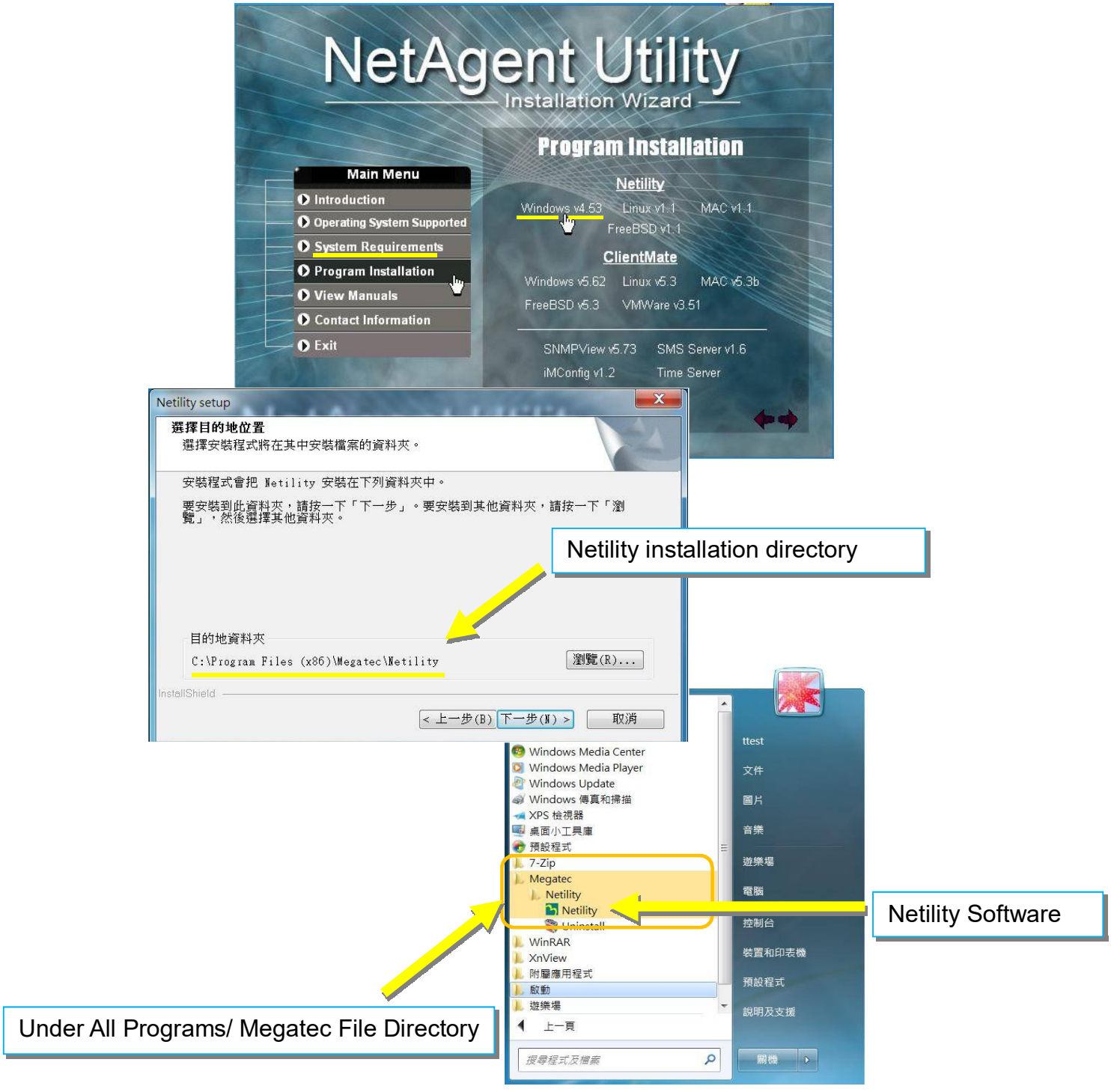


When NetAgent*A* IP is known, enter such IP address on the browser to login. If non-LCD NetAgentA model, install Netility software to find and configure its IP address.

## *4.3* Netility Installation and Setting

### ■ Netility Installation

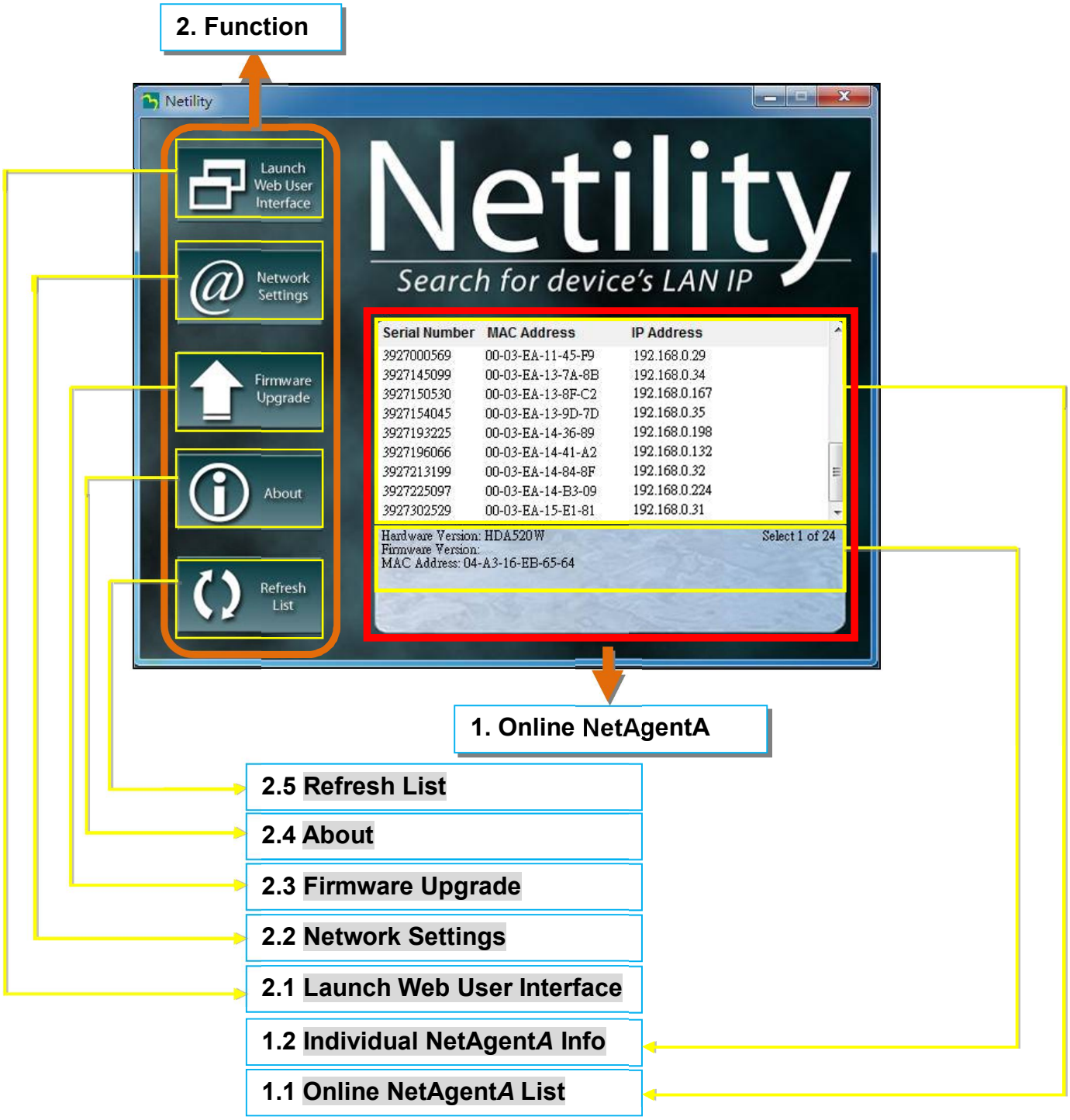
Netility is tool software that helps the user to search all the available NetAgent*A* within network as well as to configure IP address and firmware upgrade. Mount the NetAgent*A* Utility CD on CD-ROM and click on Program Installation>Netility>Windows



## ■ Netility Operation and Setting

Netlity main pages divided into 2 sections:

**1. Online NetAgent*A* List  2. Function Selection**

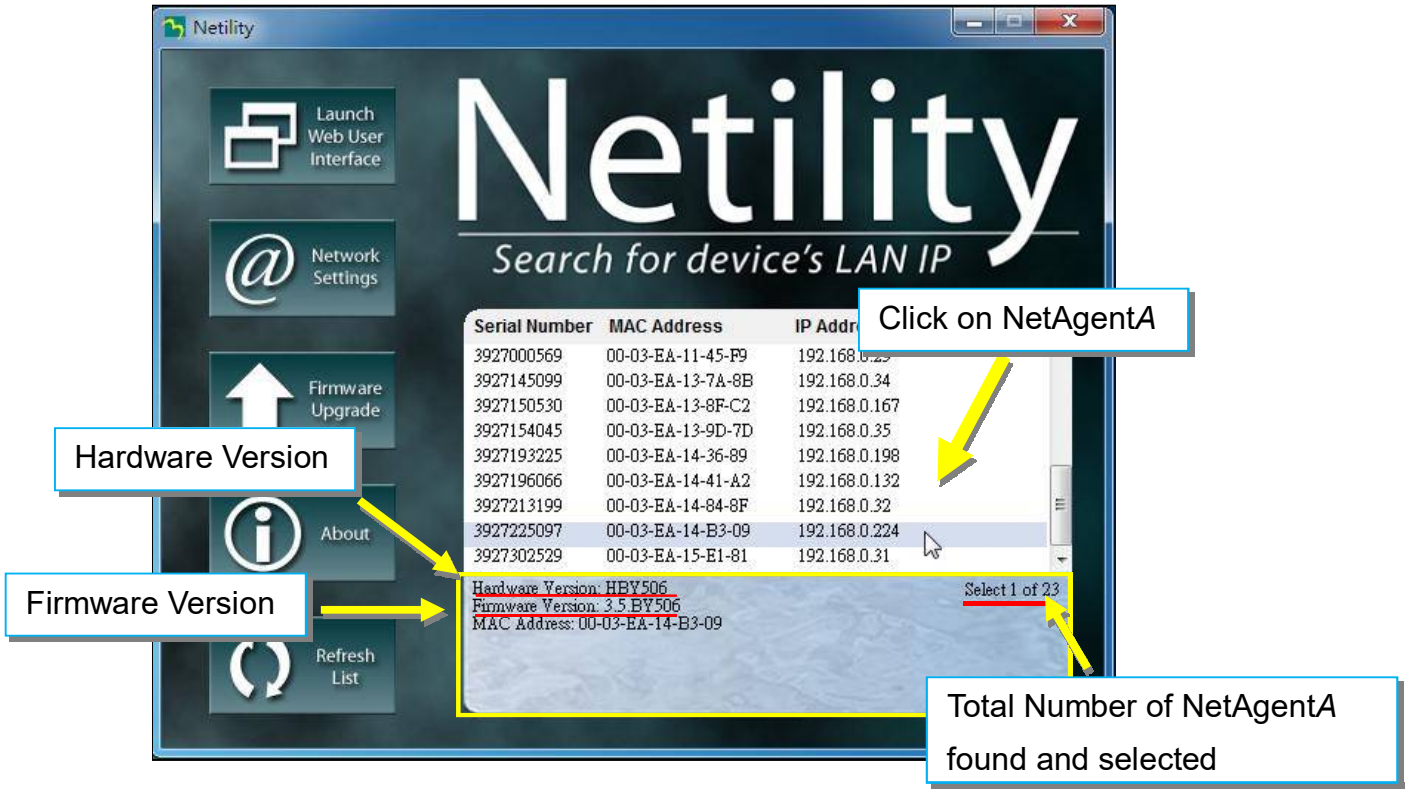


## 1.1 Online NetAgent*A* List

When open up Netility , it automatically searches all the available online NetAegnt*A* within the network with its serial number, IP address, MAC address. Double click on the specific NetAgent*A* with valid IP address, it will direct to the NetAgent*A*'s webpage. (List refreshes automatically every 2 minutes)

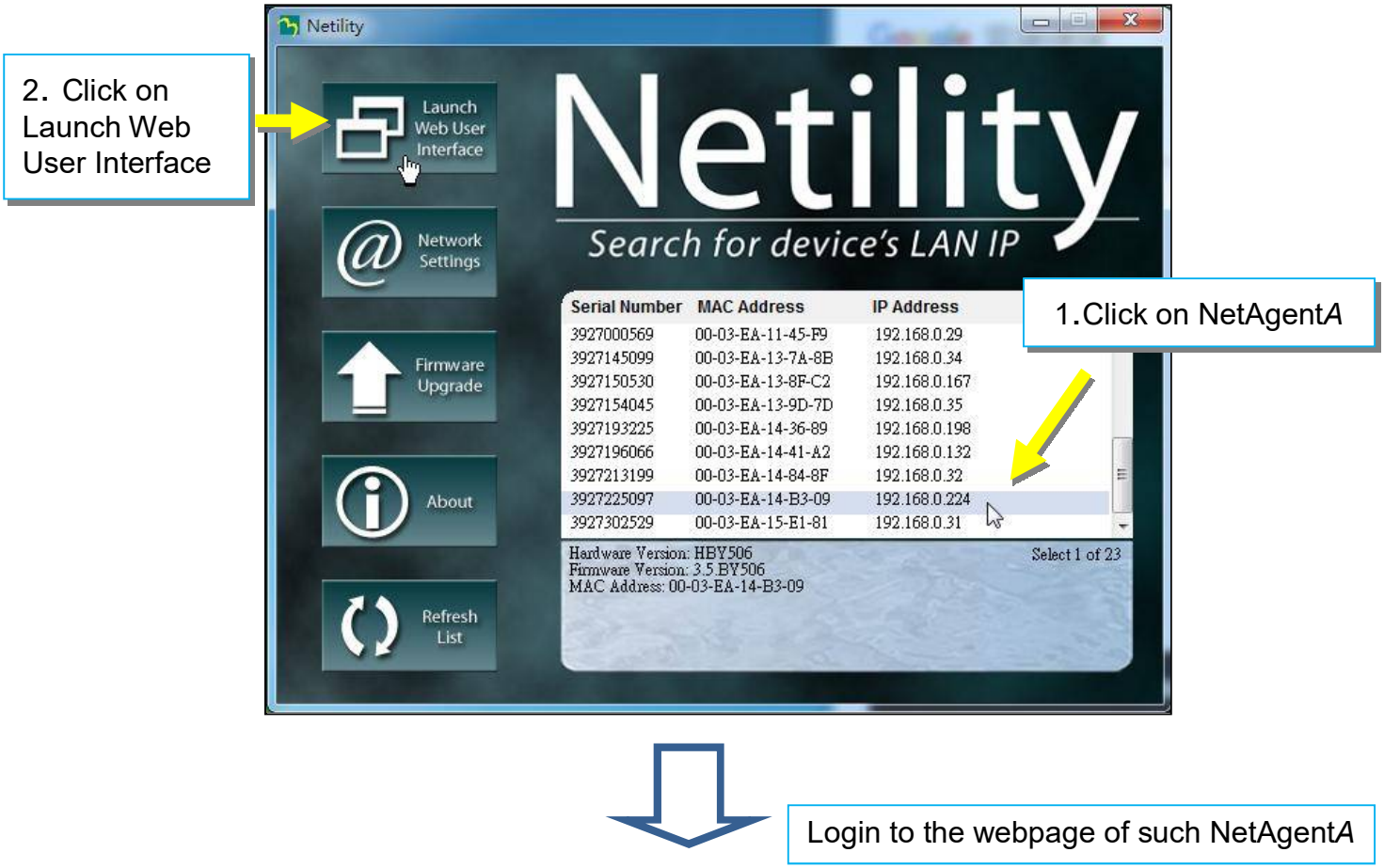
## 1.2 Individual NetAgent*A* Info

Click on specific NetAgent*A* , the bottom column shows its hardware , firmware version and MAC address. It also shows the total NetAgentA number that found by Netility and selected



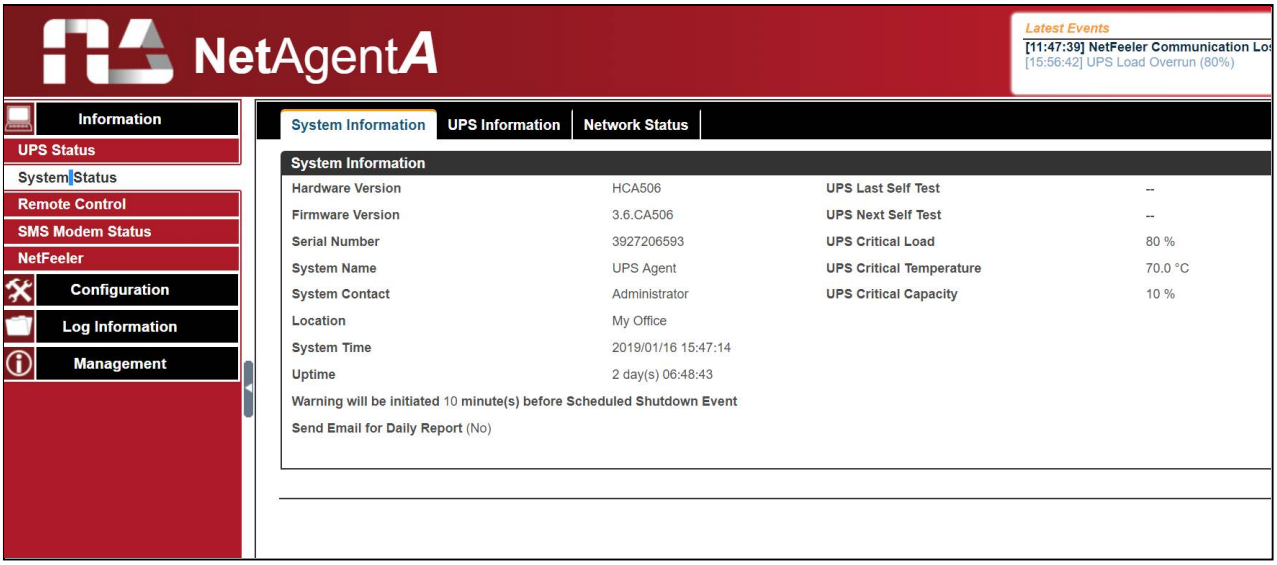
## 2.1 Launch Web User Interface

Select specific NetAgent*A* from the list and click on Launch Web User Interface to login to the NetAgentA's webpage






Login to the webpage of such NetAgent*A*



## 2.2 Network Settings

- When connecting the NetAgent*A* for the first time, ensure IP address and other network setting are correctly entered in order to login to the NetAgent*A*'s webpage via browser or HyperTerminal

- When select to obtain IP address by DHCP or BOOTP, IP address and other network parameter will be assign by the network

- NetAgent*A* offers 4 network protocols - HTTP / HTTPS / TELNET / SSH for management with security consideration. If any change on port number, the it require to enter the full IP address with port number in order to login

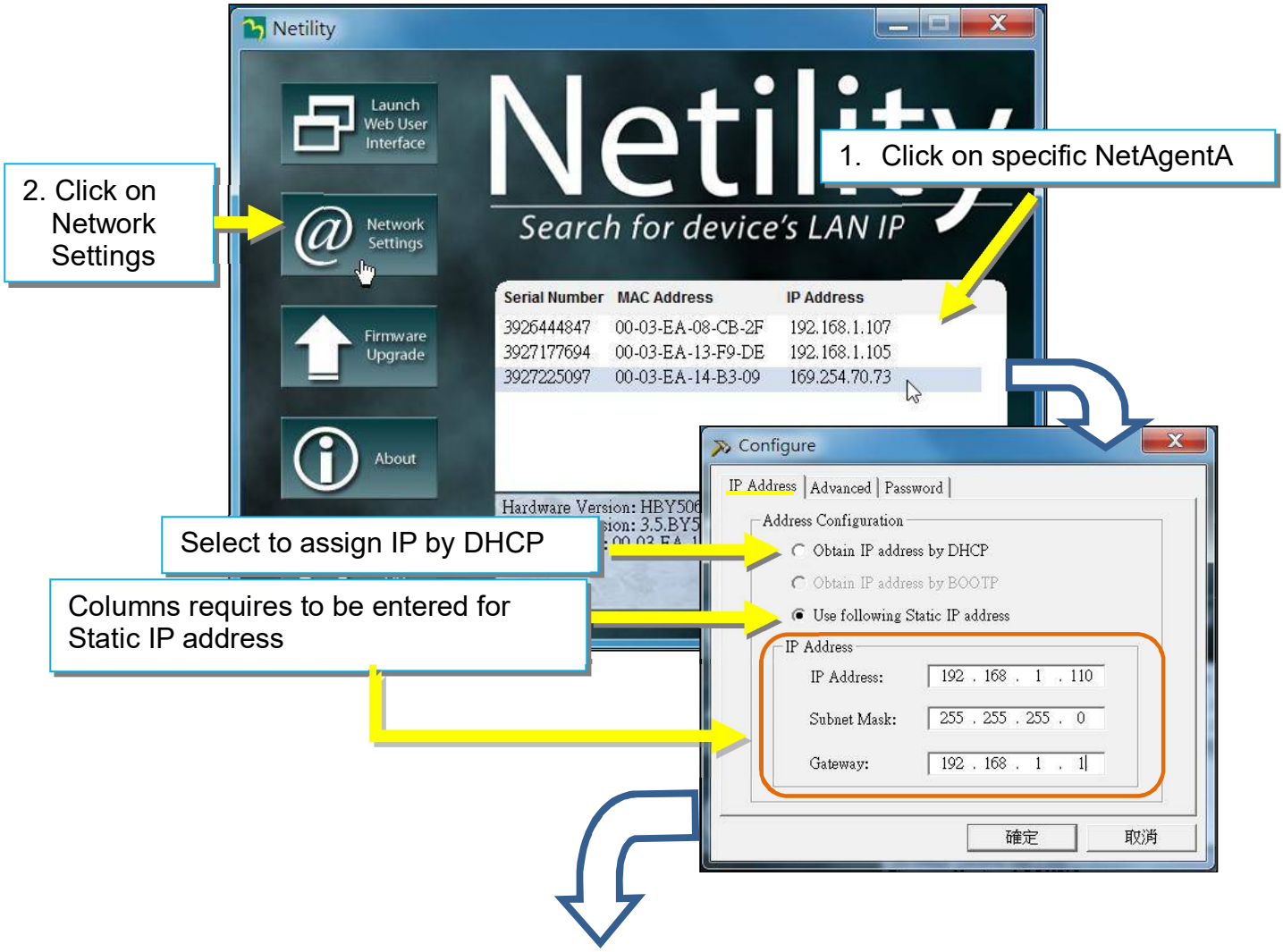
  For example：HTTP port number change to 81

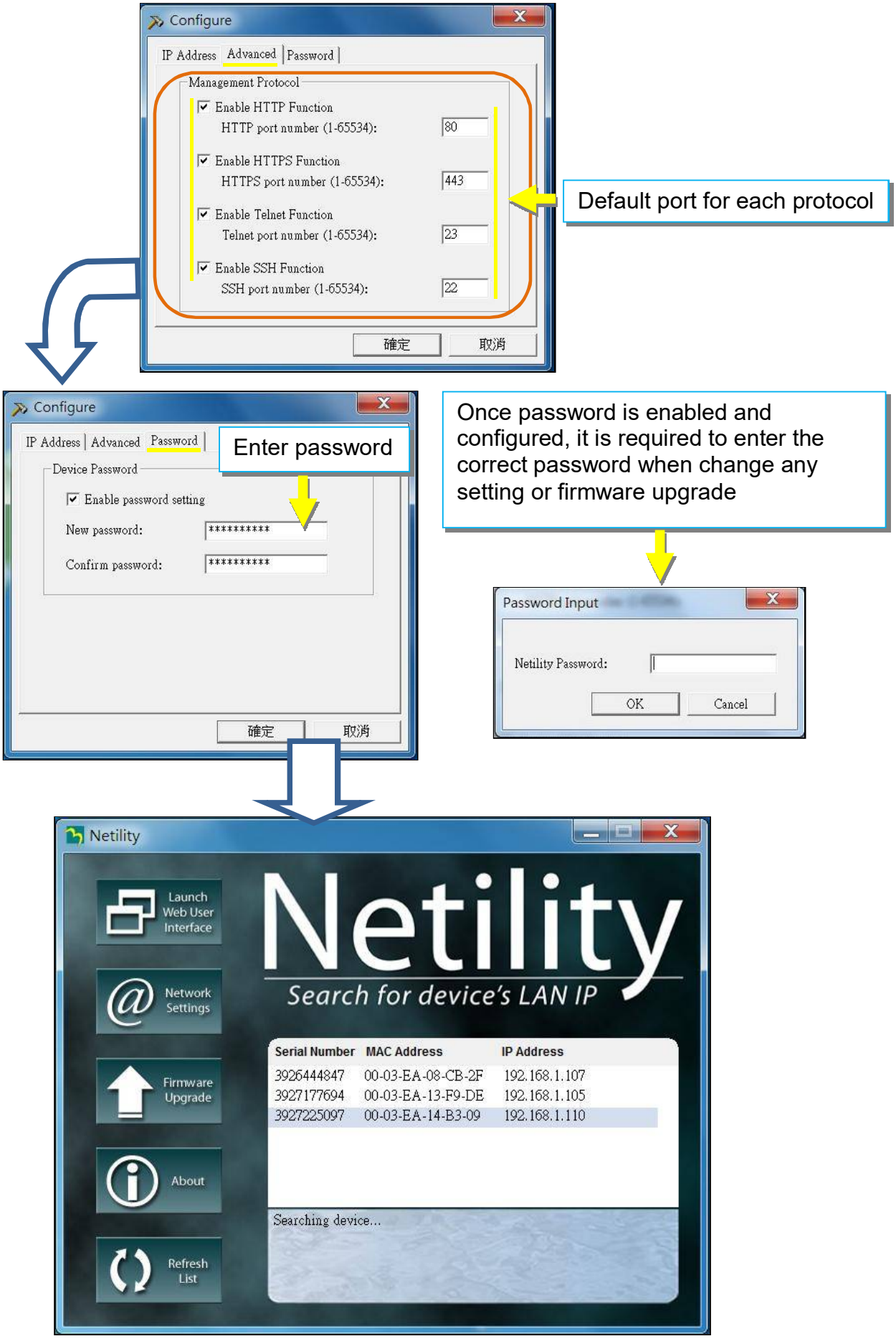
  The full address to be enter on browser should be "http://X.X.X.X:81" (X.X.X.X is the IP address of the NetAgentA)

  For Example：Telnet port number change to 24

  The full address to be enter on HyperTermnal should be "http://X.X.X.X 24" (X.X.X.X is the IP address of the NetAgentA)

- When password of the NetAgent*A* is enabled, it is necessary to enter the correct password before making any configuration change and firmware upgrade



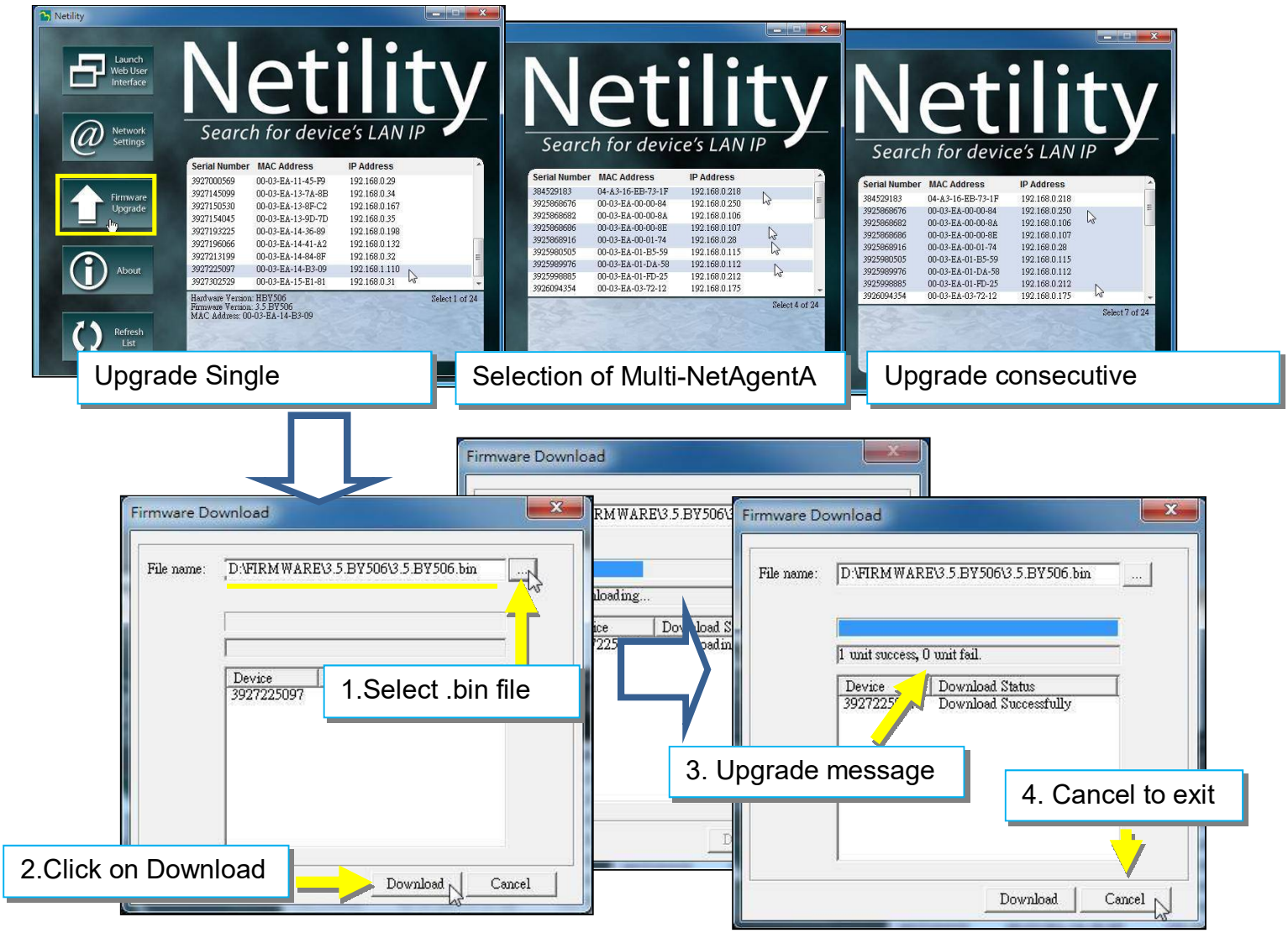

Configure
IP Address
Advanced
Password
Management Protocol
Enable HTTP Function
HTTP port number (1-65534):
80
Enable HTTPS Function
HTTPS port number (1-65534):
443
Enable Telnet Function
Telnet port number (1-65534):
23
Enable SSH Function
SSH port number (1-65534):
22
確定
取消
Default port for each protocol
Configure
IP Address
Advanced
Password
Enter password
Device Password
Enable password setting
New password:
**********
Confirm password:
**********
確定
取消
Once password is enabled and configured, it is required to enter the correct password when change any setting or firmware upgrade
Password Input
Netility Password:
OK
Cancel
Netility
Launch Web User Interface
Network Settings
Firmware Upgrade
About
Refresh List
Netility
Search for device's LAN IP
Serial Number
MAC Address
IP Address
3926444847
00-03-EA-08-CB-2F
192.168.1.107
3927177694
00-03-EA-13-F9-DE
192.168.1.105
3927225097
00-03-EA-14-B3-09
192.168.1.110
Searching device...

## 2.3 Firmware Upgrade

- This is to upgrade or re-load the firmware to the NetAgent*A* unit. Firmware version is available on the official website. Ensure to check the NetAgent*A* model, hardware version for the correct firmware version (.bin)
- Ways to select NetAgent*A* for firmware upgrading
  (1) Click on specific NetAgent*A* from the Netility list
  (2) Press and hold on CTRL key then select multi NetAgent*A* unit from the list=>This is to upgrade multi units at once
  (3) Click on the first NetAgent*A* from the list, then press and hold on SHIFT key as well as click on the last unit of the NetAgent*A* =>This is if all NetAgent*A* from the list are same model

  ✹ **WARING**：Please makes sure the multi NetAgent*A* selected are same model

- If any failure during firmware upgrading, please upgrade again until it is successfully done
- While upgrading, red and yellow LED would alternating flashing, or red led flashing. DO NOT remove any power or cable to the NetAgent*A*. Once firmware is successfully upgraded, NetAgent*A* would reboot automatically.



## 2.4 About

Here shows the current Netility verison

## 2.5 Refresh List

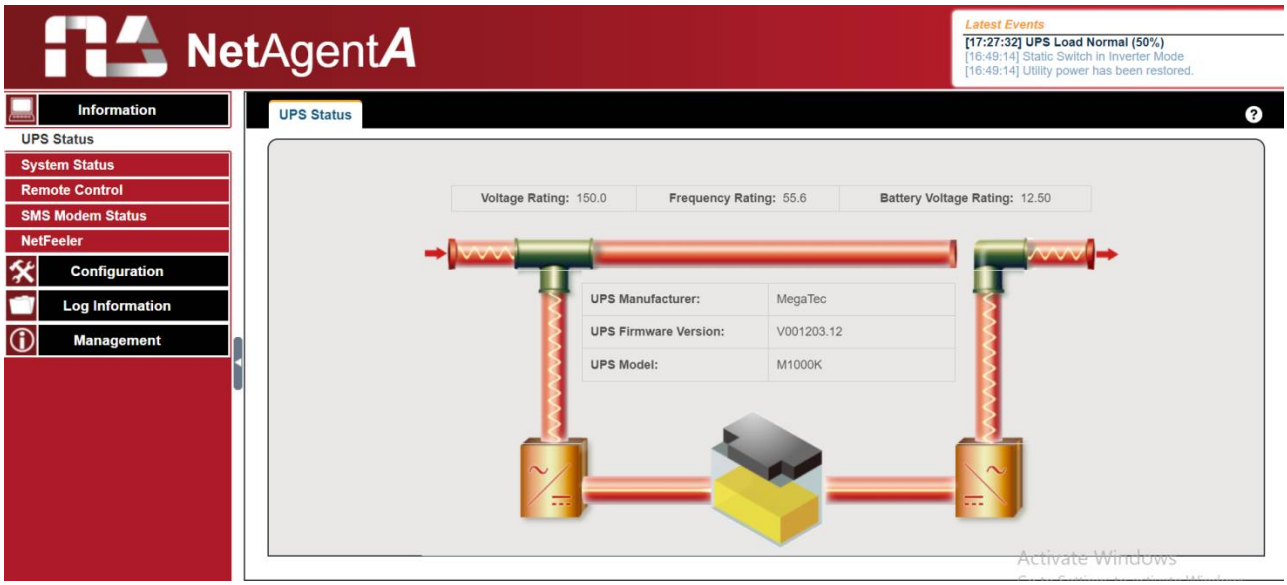
The list on Netility would refresh every 2 minutes automatically, however, manual refresh is also possible by clicking Refresh List

## *4.4 NetAgentA Web Interface & Setting*

- **Information > UPS Status**

- **UPS Status**

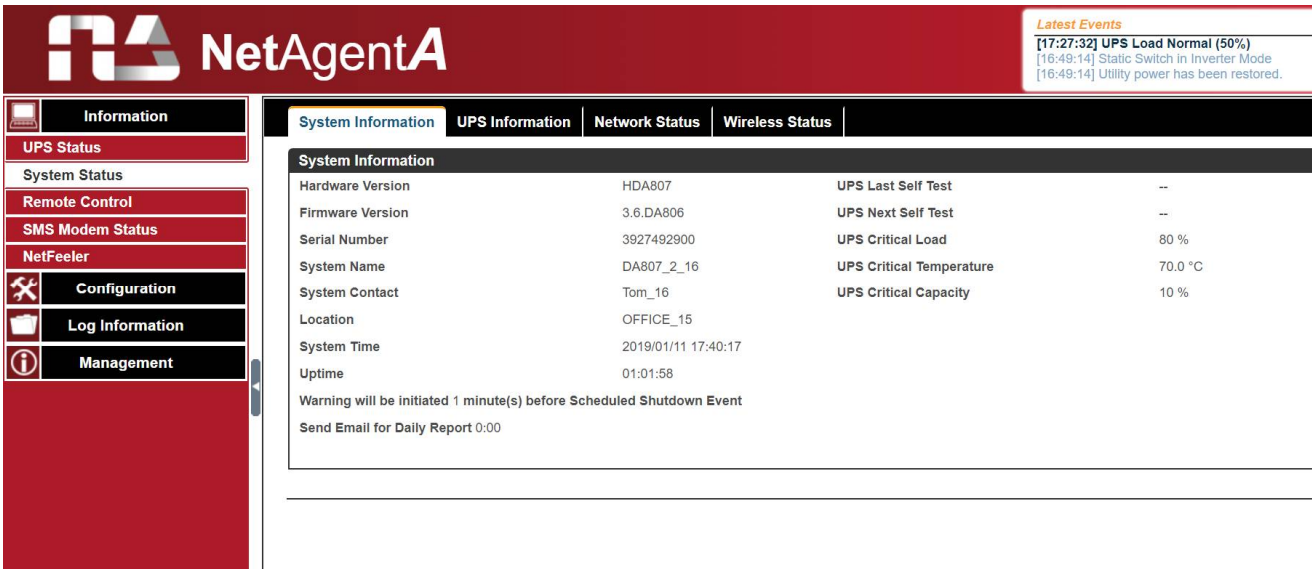
This page is to show the current UPS connection status in graphic mode with Voltage, Frequency and other information.




- **Information > System Status**

- **System Information**

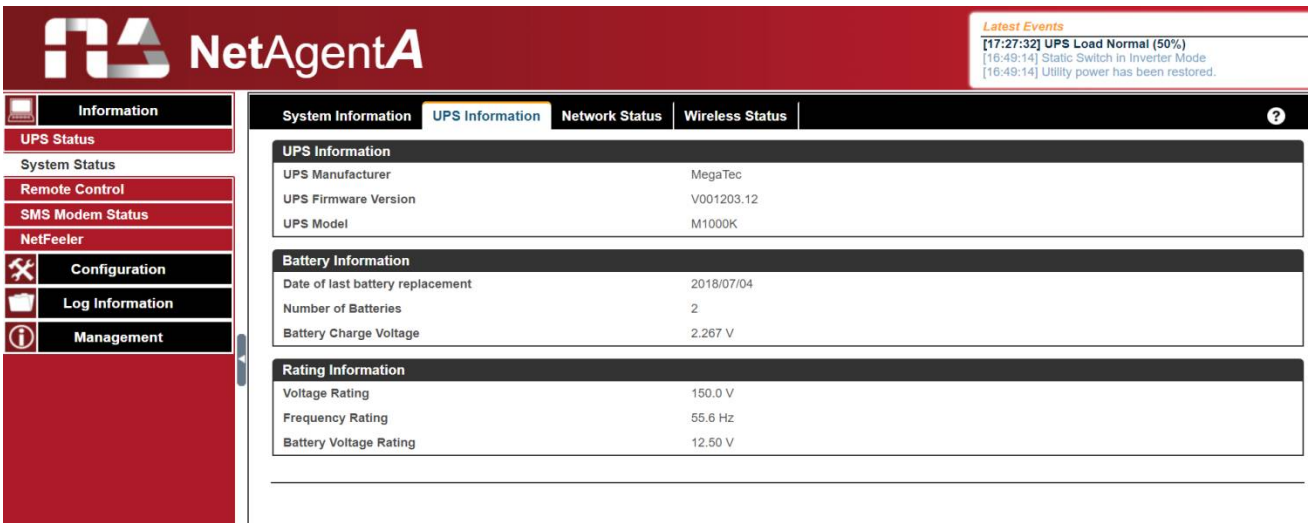
Here shows all the basic information of the NetAgent*A* such as hardware / firmware version; Serial Number; Uptime…etc.



## ■ Information > System Status

- **UPS Information**

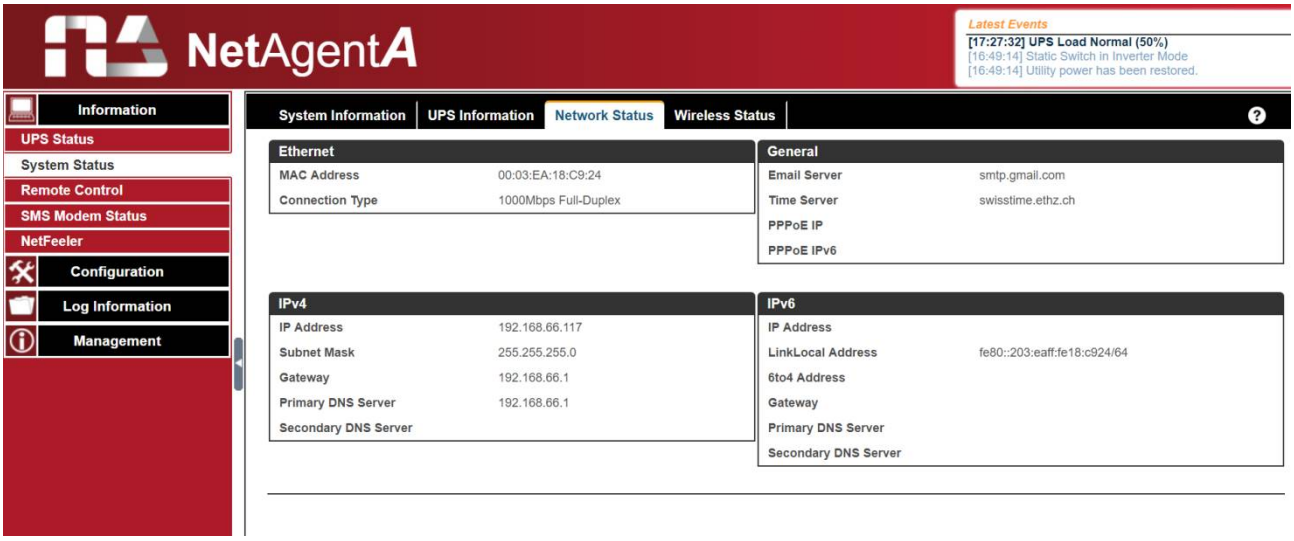
This page shows UPS information/Battery Information/Rating Information. The data is obtained from the reply of UPS or the settings from [UPS Configuration] webpage




## ■ Information > System Status

- **Network Status**

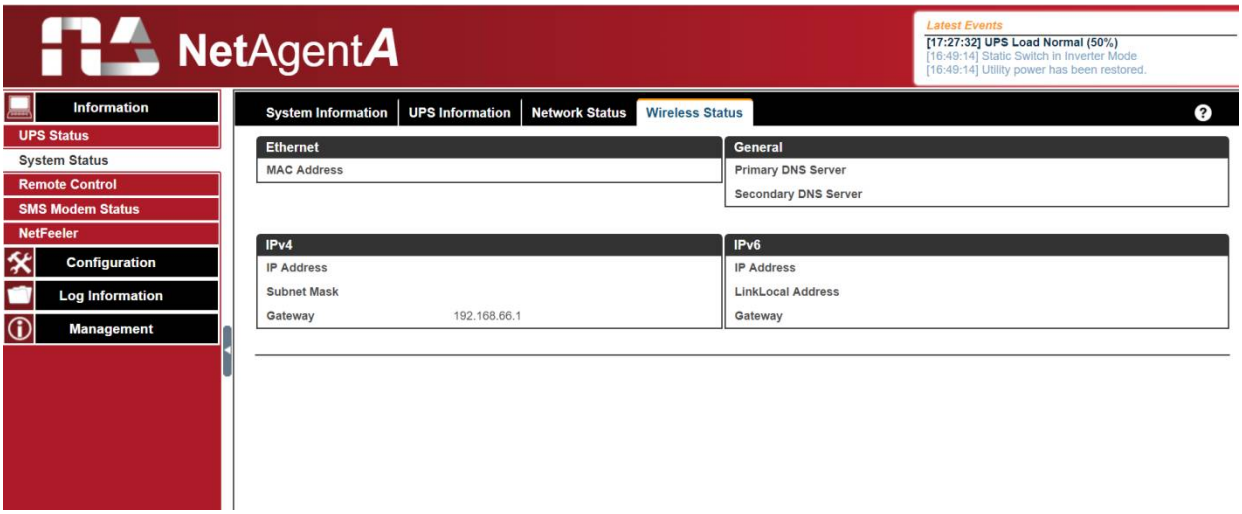
This page shows the network information of NetAgent*A*.



## ■ Information > System Status

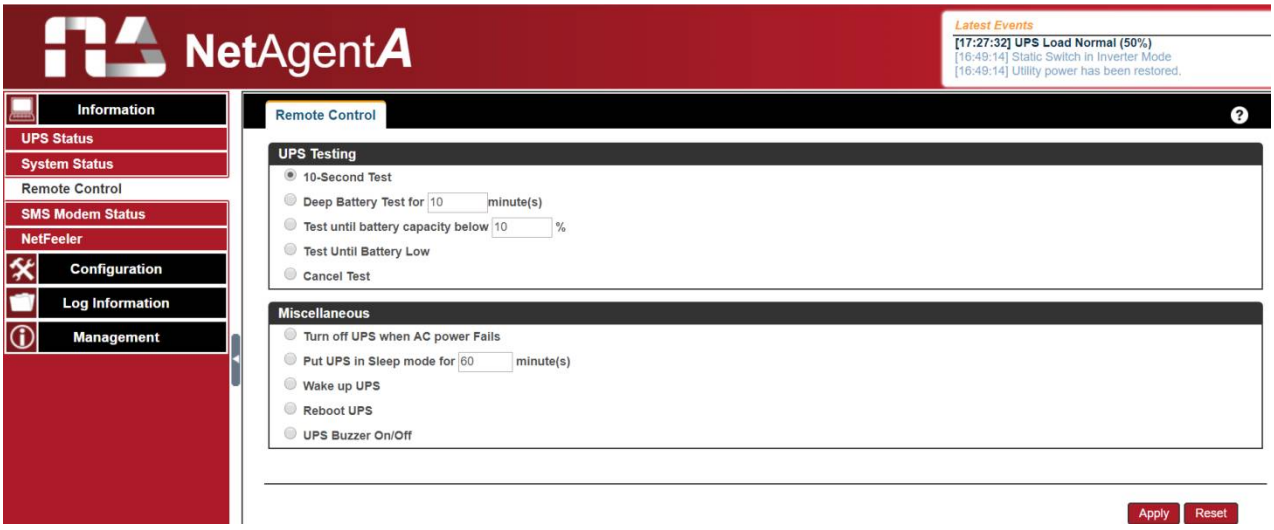
- **Wirelss Status**

This page is to show Wireless connection status and information when NetAgent*A* communicates via the compatible WiFi dongle



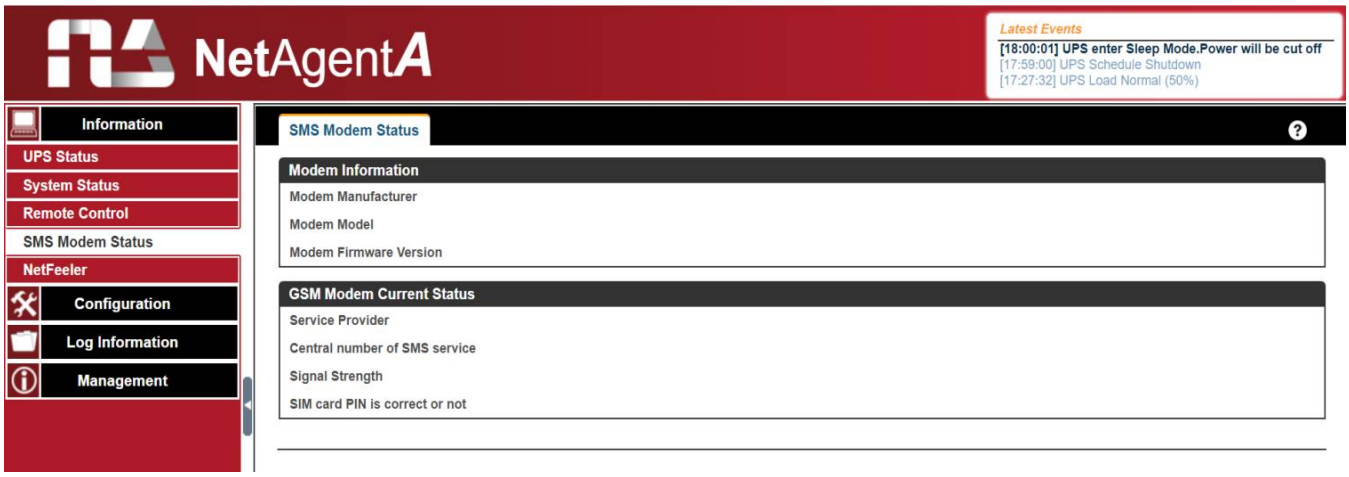

## ■ Information > Remote Control

User can perform several tests to the UPS remotely. Once the option is selected, please click on Apply in order to execute it.



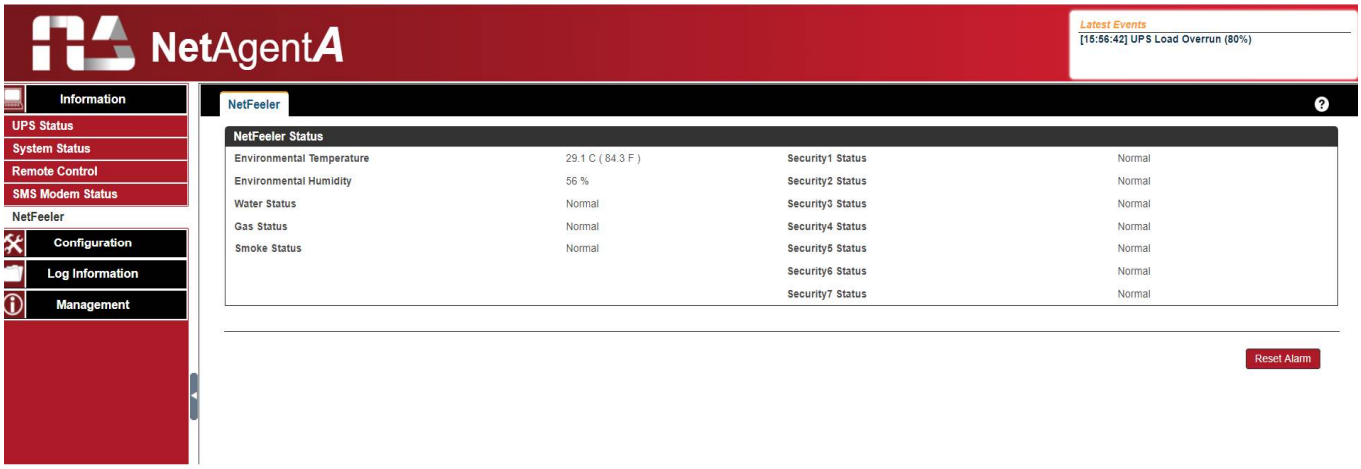
## ■ Information > SMS Modem Status

This page shows the Modem status when GPRS modem is connecting with NetAgent*A*




## ■ Information > NetFeeler

This page shows the environmental status when USB NetFeeler/ NetFeeler II and its accessories are connected with NetAent*A*.




## ■ Configuration > UPS Configuration

- **UPS Properties (Please refer to your UPS specification)**

*UPS Communication Type:*

In order to establish theconnection between NetAgent*A* and UPS, select the compatible protocol which your UPS supported from the list. Wrong protocol selected would cause no communication at all. (Megatec is default protocol)

*Number of Batteries* :

Enter the number of battery that the UPS has.

*Battery Full Charge Voltage (V)* :

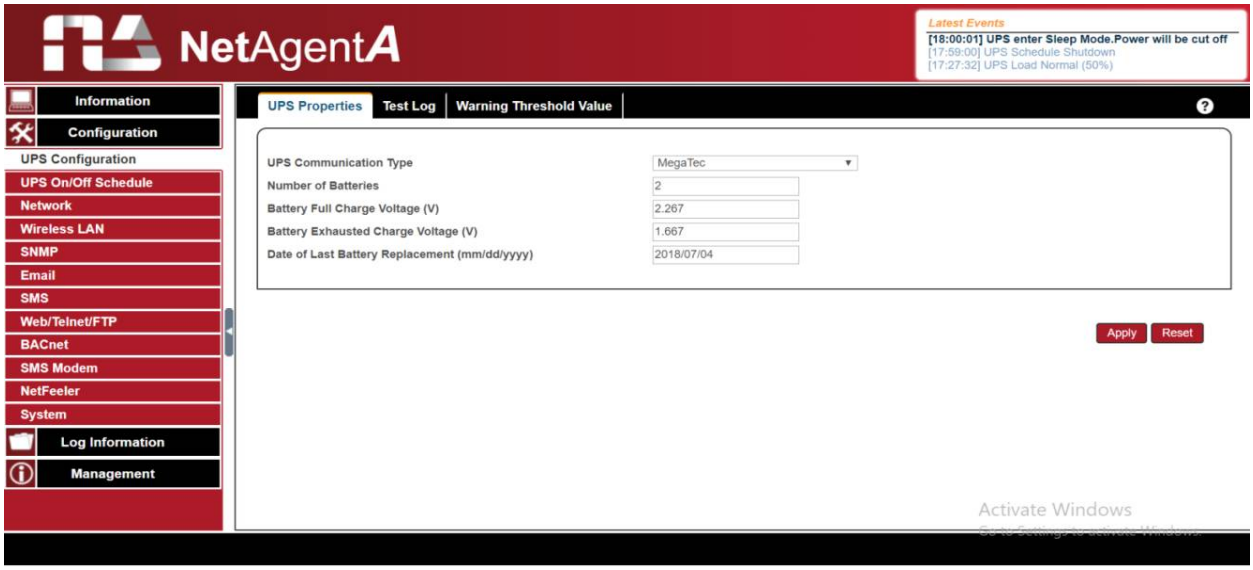
Enter the number of the full charged voltage per battery cell. (2.267 is default, this is recommended not to be change)

*Battery Exhausted Charge Voltage(V)* :

Enter the number of exhausted voltage per battery cell. (1.667 is default, this is recommended not to be change)

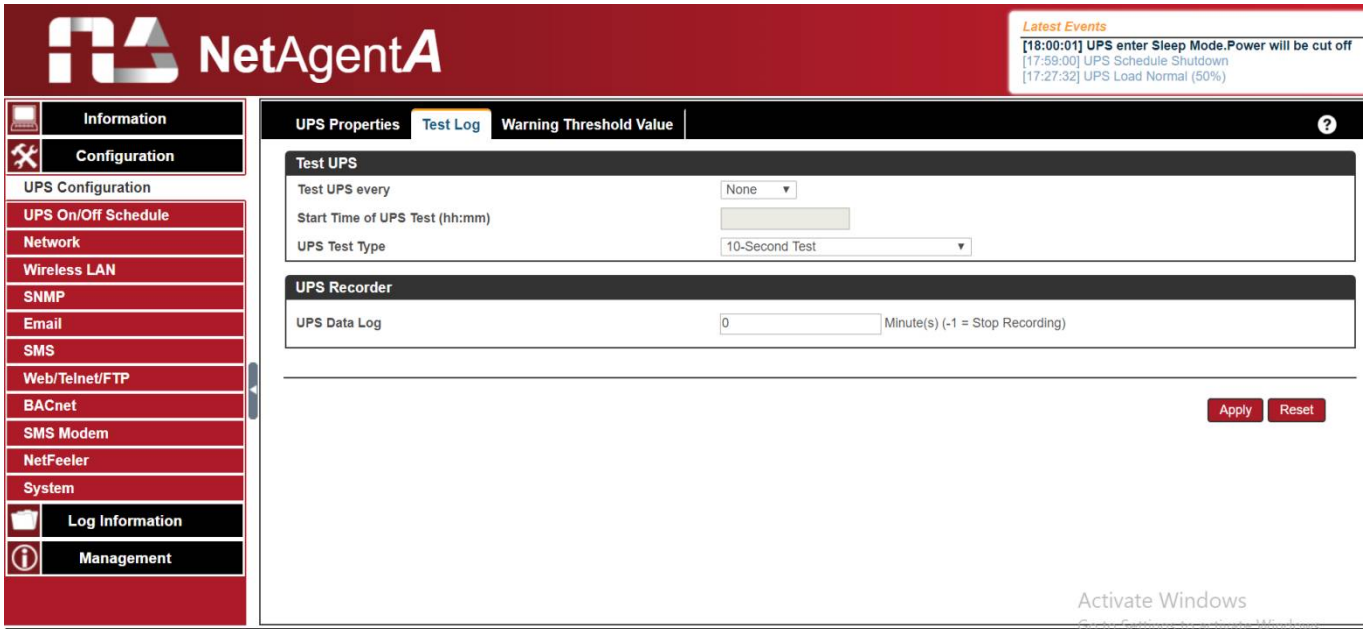
*Date of Last Battery replacement(mm/dd/yyyy)* :

Enter the date of last battery replacement for record




- **Test log**

*Test UPS Every* :
Week /2 Weeks/ Month / Quarter UPS can be selected
*Start Time of UPS Test (hh:mm)* :
To enter the time to begin the test
*UPS Test Type* :
Test option can be select from the drop down list
*UPS Data Log* :
To enter the time interval to refreshing data



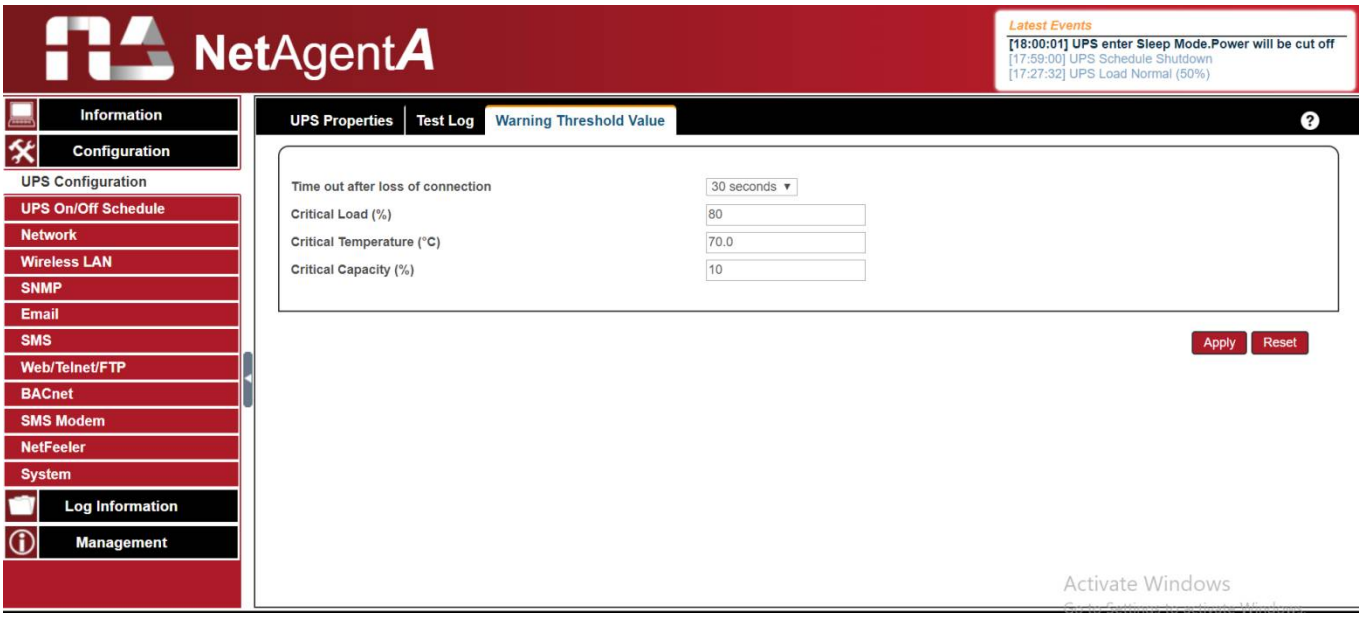
- **Warning Threshold Values**

Time out after loss of connection：
Send warning alarm when NetAgent*A* and UPS lost connection at this configured time
Critical Load(%)：
When loading reaches at this % configured, NetAgent*A* will send warning alarm

UPS Temperature (℃)：
When UPS temperature reaches at this degree configured, NetAgent*A* will send warning alarm

Critical Capacity (%)：

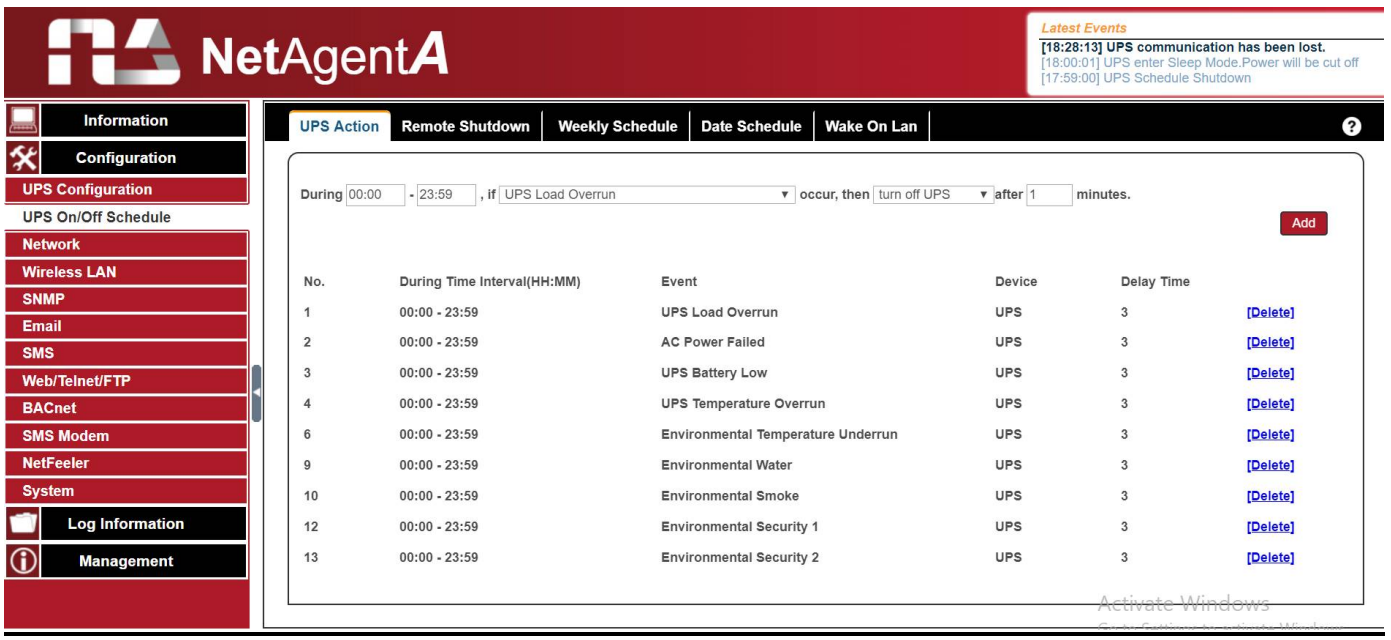
When UPS battery capacity reaches at this % configured, NetAgent*A* will send warning alarm




■ **Configuration > UPS On/Off Schedule**

- **UPS Action**

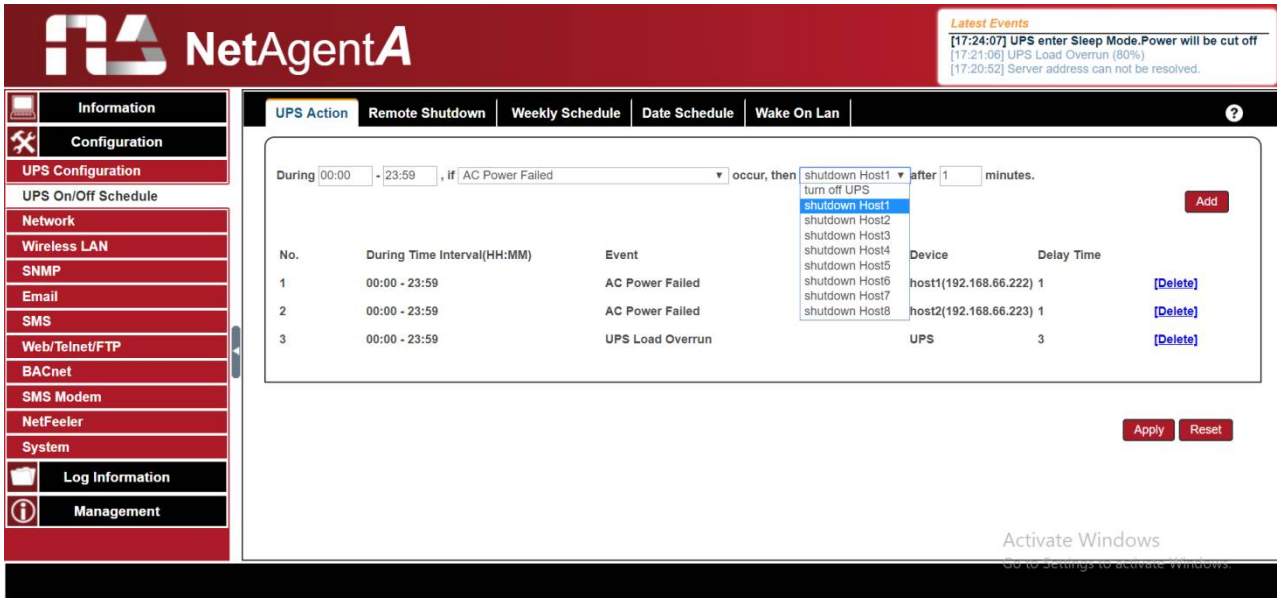
When selected event happens at configured time range, UPS will be shut down



- **Remote Shutdown**

This is to shut down the network server when selected event happens without install shutdown software. Event needs to be adding under UPS Action first and then enter the IP address of server that wish to be shut down by SSH or Telnet with compatible shutdown command of the server system.

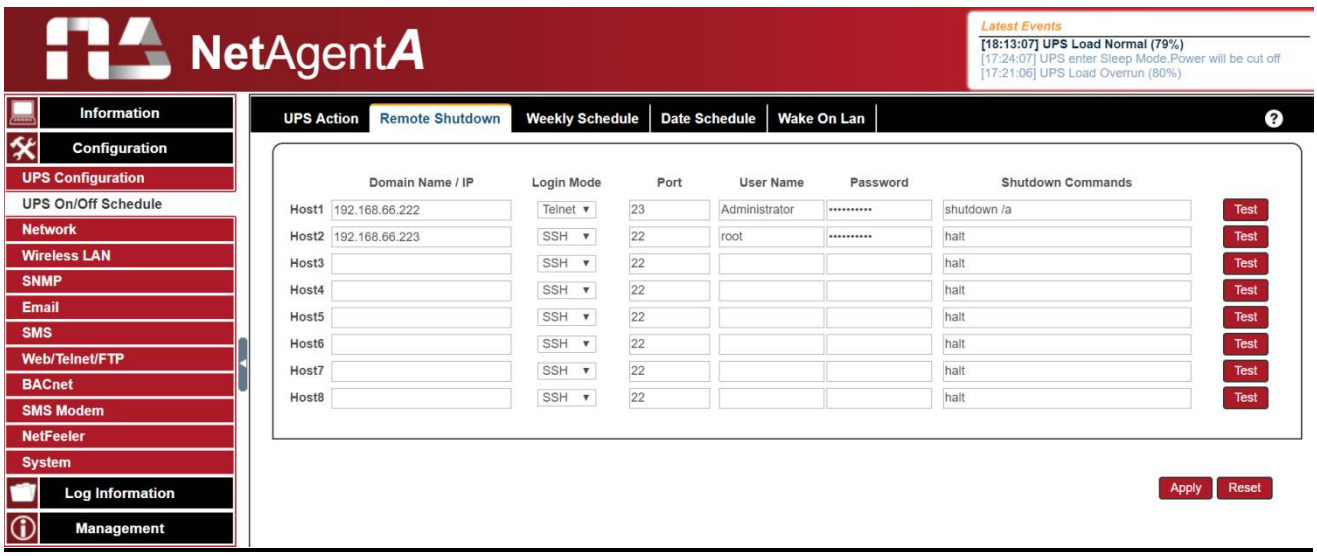
For example: To shutdown Host 1 (Windows server) and Host 2 (Linux server) after 1 minute when AC power failed.
First, go to UPS Action tab, select event of “AC Power Failed” then select “shutdown Host 1 “ , press on Add. The action will be add in the list. Then the same for Host 2, select event of “AC Power Failed” and select “shutdown Host 2” from the list and press on Add to be in the list.




Once action is added, go to Remote Shutdown tab, enter the domain IP for Host 1 and Host 2, select Telnet or SSH for access and then enter the user name/password of the server with its shutdown command of the server. For Windows, “shutdown /a “ is the shutdown command. For Linux, “halt” is the command to shut down. For MAC, it is “sudo shutdown” as the command.

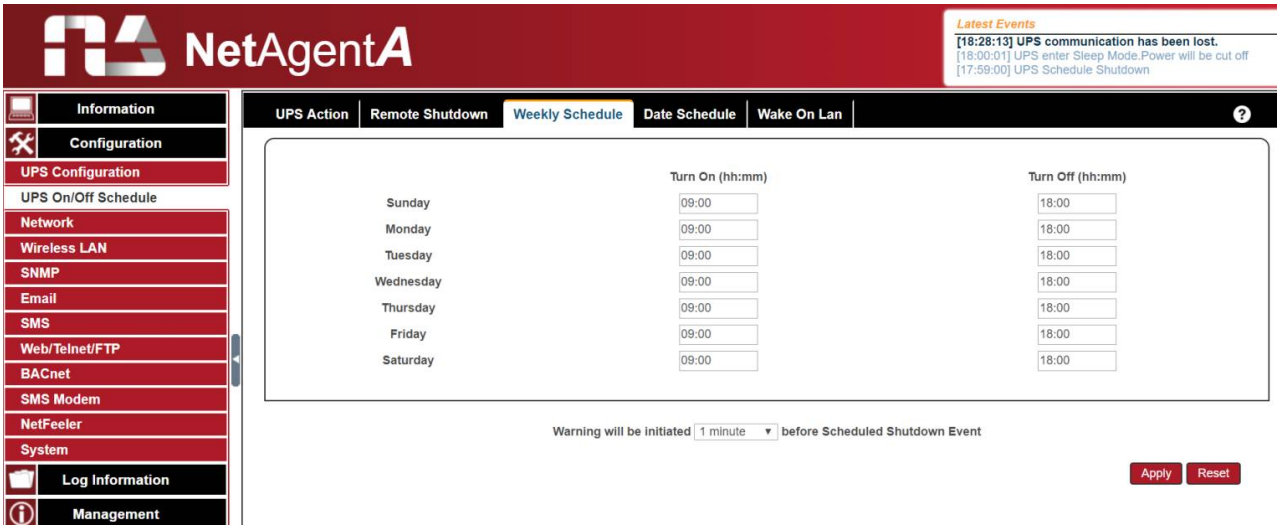
Below to check command menu for different system

***- Windows : shutdown/?***
***- Linux : shutdown –help***
***- MAC : sudo shutdown***



- **Weekly Schedule**

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

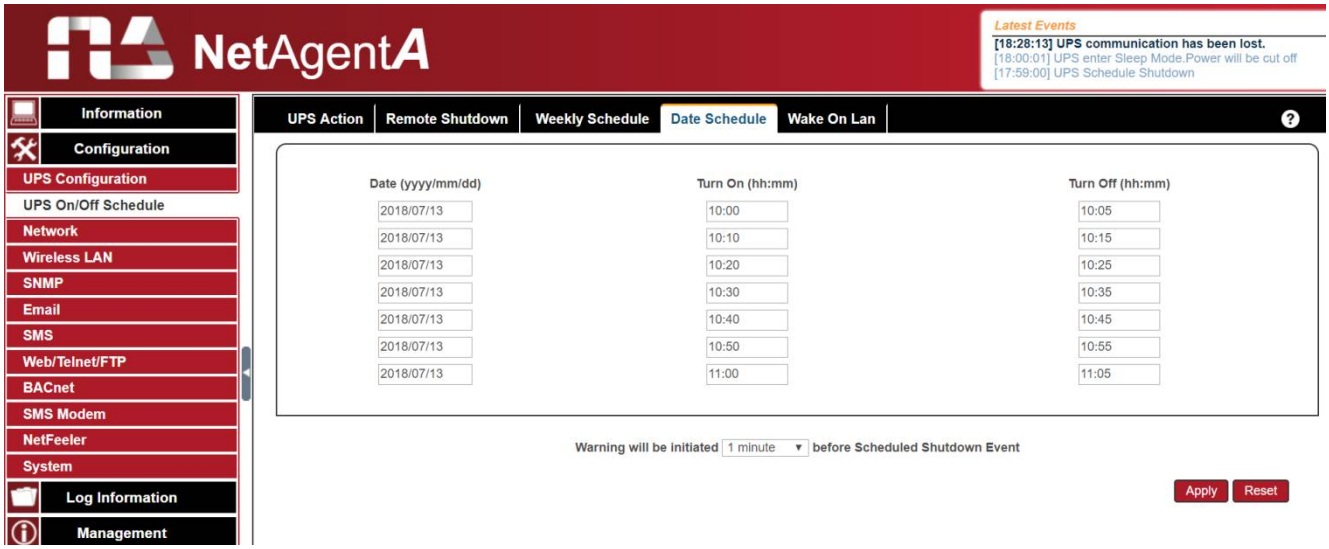



- **Date Schedule**

This section is to set the time to turn on/off the UPS on particular days.
The settings here override the settings in **Weekly Schedule**.

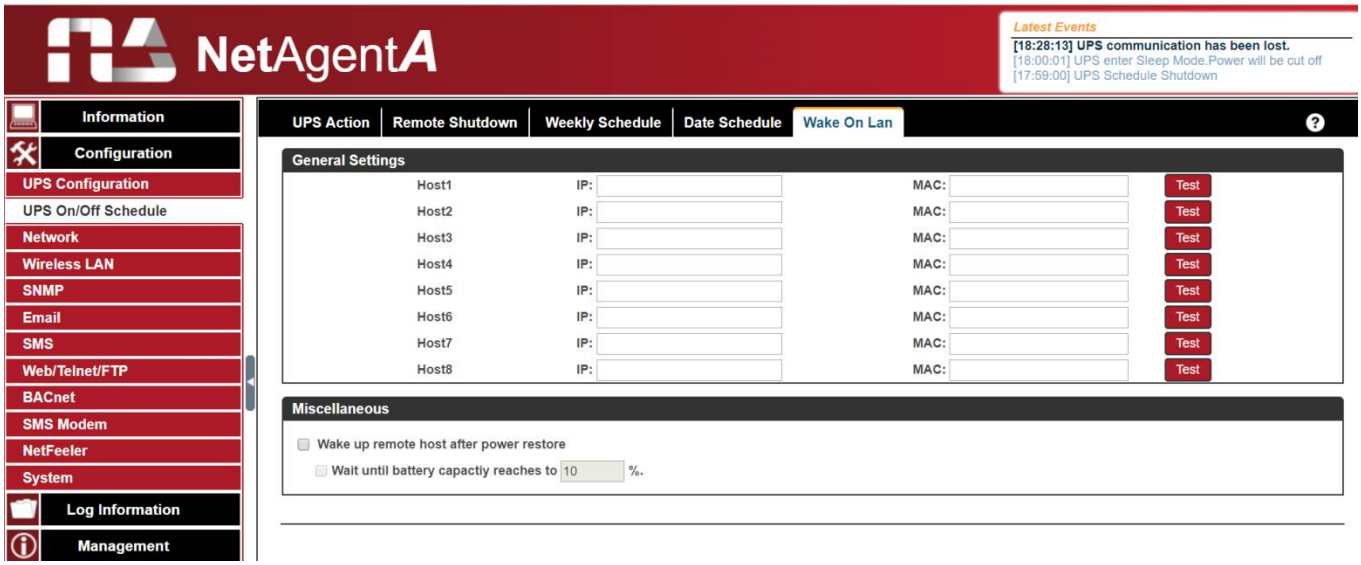
**Warning will be initiated X before Schedule shutdown event**

NetAgent*A* 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.



- **Wake On Lan**

This section is to wake the PC within the network when AC recovery, or, when battery capacity reaches at configured %. (Make sure the PC has such function supported and configure as “Enabled” under BIOS.) Enter the IP address of that PC and system would search its IP accordingly.

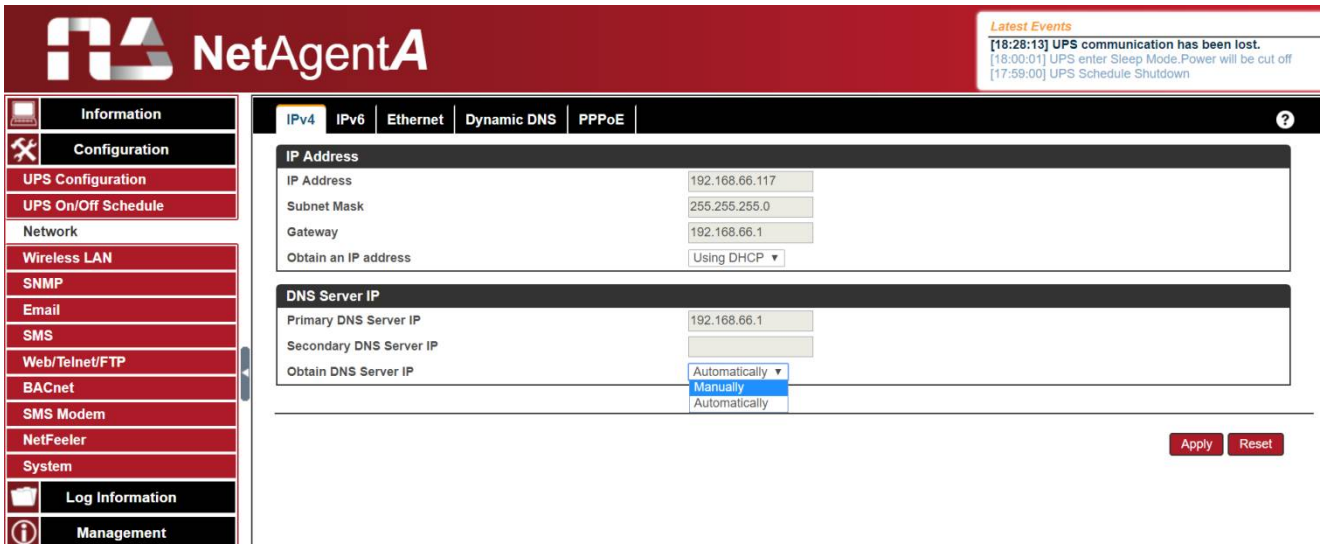



## ■ Configuration > Network

This page is to set NetAgent*A*’s Network settings.

- **IPv4**

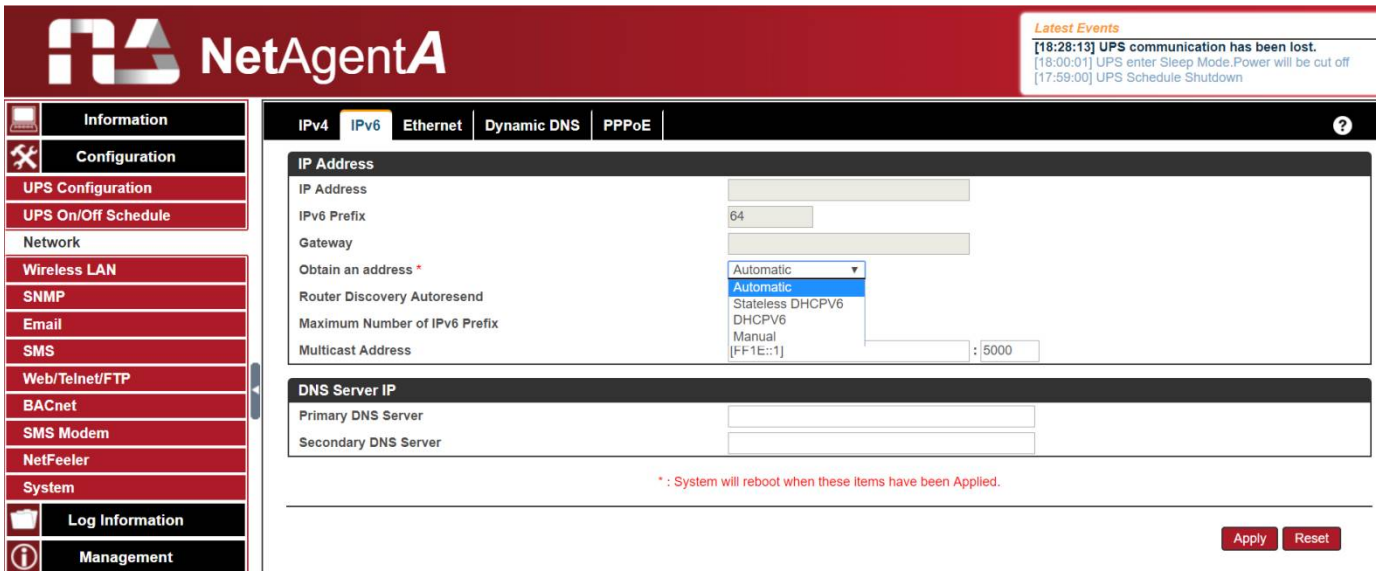
NetAgent*A* and DNS IP address can be obtain by drop down list with option of Manually, Using DHCP, or Bootp. If the IP address and DNS has been configured on Netility, then info will automatically show here



- **IPv6**

All NetAgent*A* series supports IPv6. IP address can be obtain from the drop down list with option of ( Automatic／Stateless DHCPV6／DHCPV6／Manual )

✹Once click on Apply, NetAgent*A* will reboot




- **Ethernet**

*Connection Type*

This section is to set communication speed between NetAgent*A* and Network.

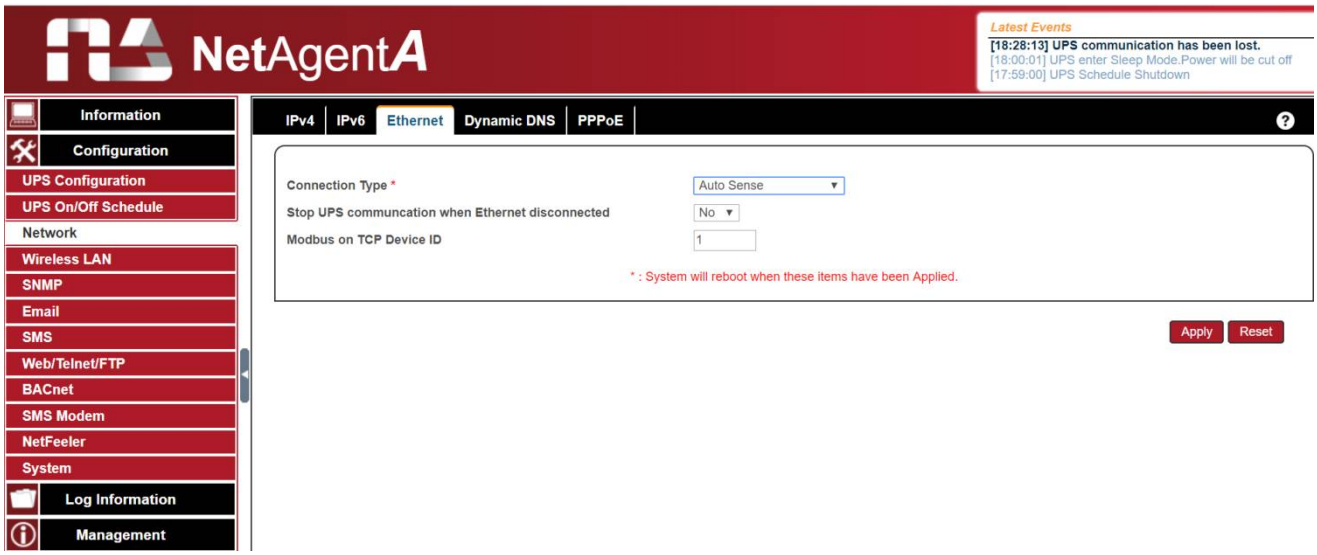
✹Once click on Apply, NetAgent*A* will reboot

*Stop UPS communication when Ethernet disconnected*

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

*Modbus on TCP Device ID* :

Enter device ID to read/write data when using Modbus on TCP communication with Megatec protocol and Modbus Register Table



- **Dynamic DNS**

This is a free service that allows the user to alias a dynamic IP address to a static hostname. Ensure account/password has been registered from the DNS service provider

*Service Provider*

Dynamic DNS providers can be select from the list

*Domain Name*

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

*Login Name*

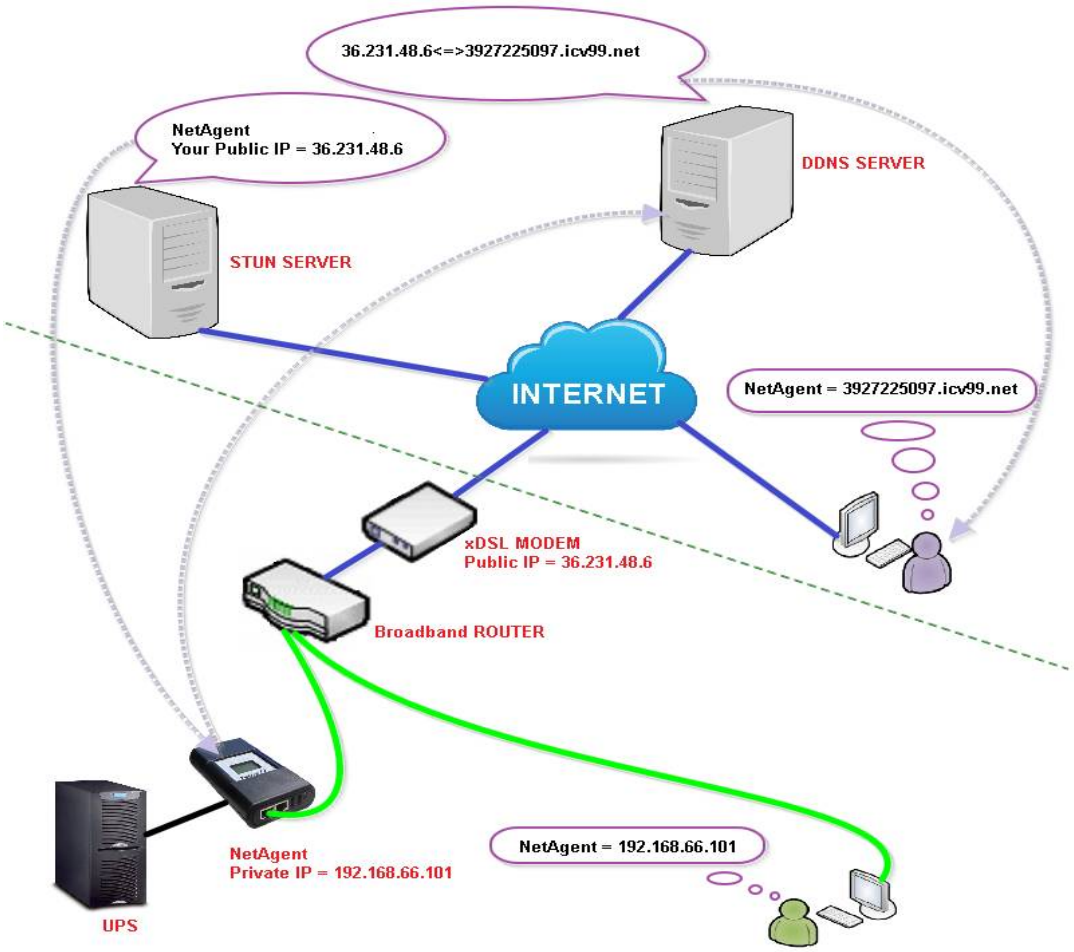
This is the Login / Account name that you have created with the selected DDNS provider.

*Login Password:*

Enter the Password you have assigned to your DDNS Account.

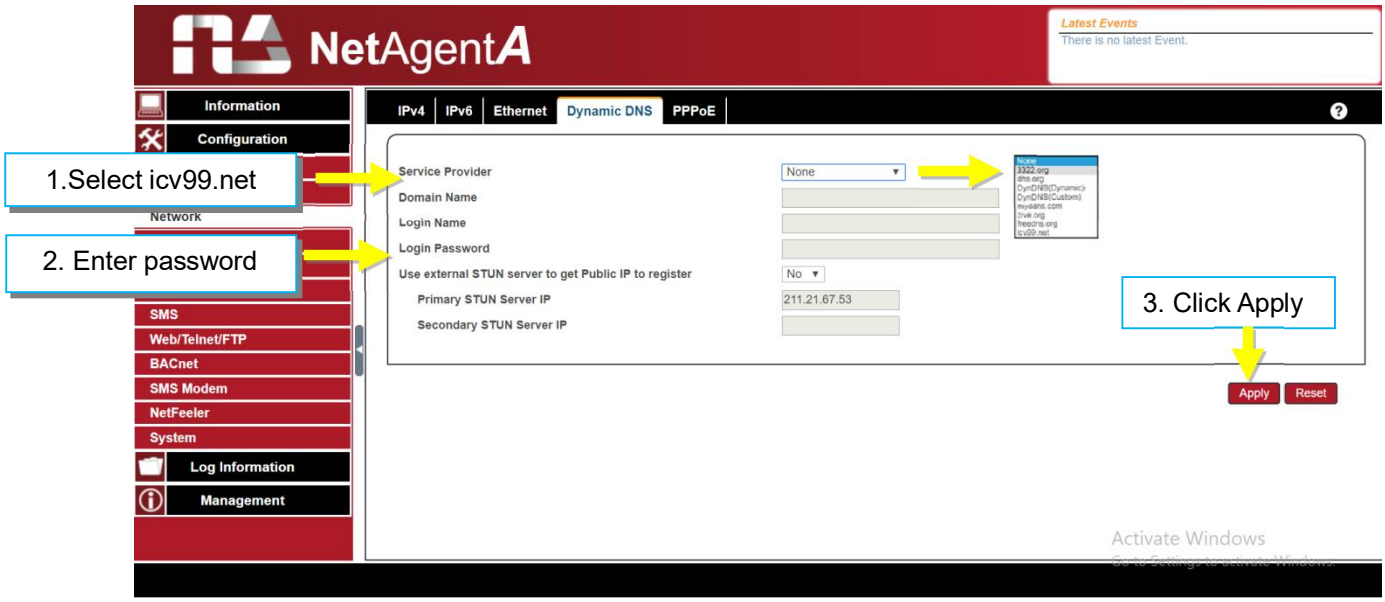
*Use external STUN server to get Public IP to register*

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



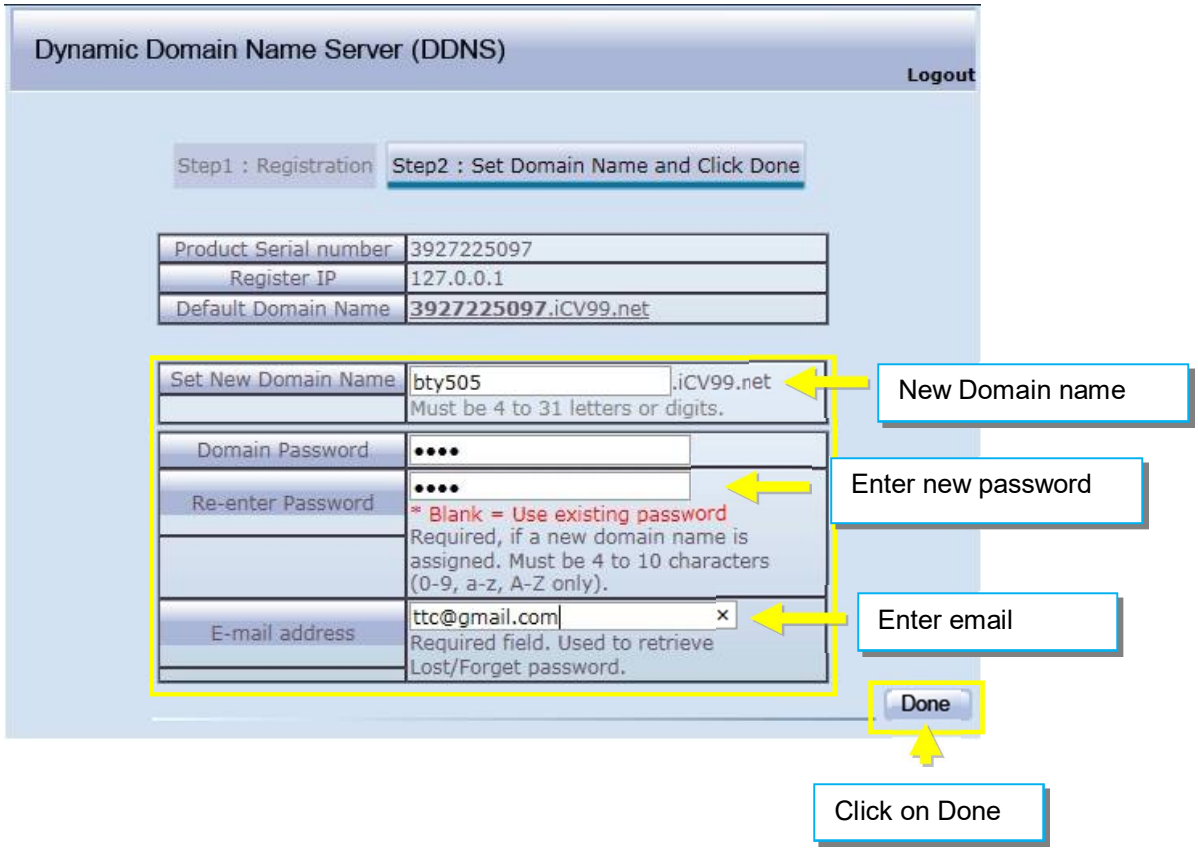
If to use iCV99.net as Service Provide which host by Megatec, instruction as below:

1. Ensure NetAgent*A* is able to connect to Internet. Select icv99.net from the drop down list of the Service Provider. The Domain Name and Login Name will automatically be fill-in with serial number of the device. Enter the password of the NetAgent*A* which is printed on the NetAgent*A* label, then click Apply.



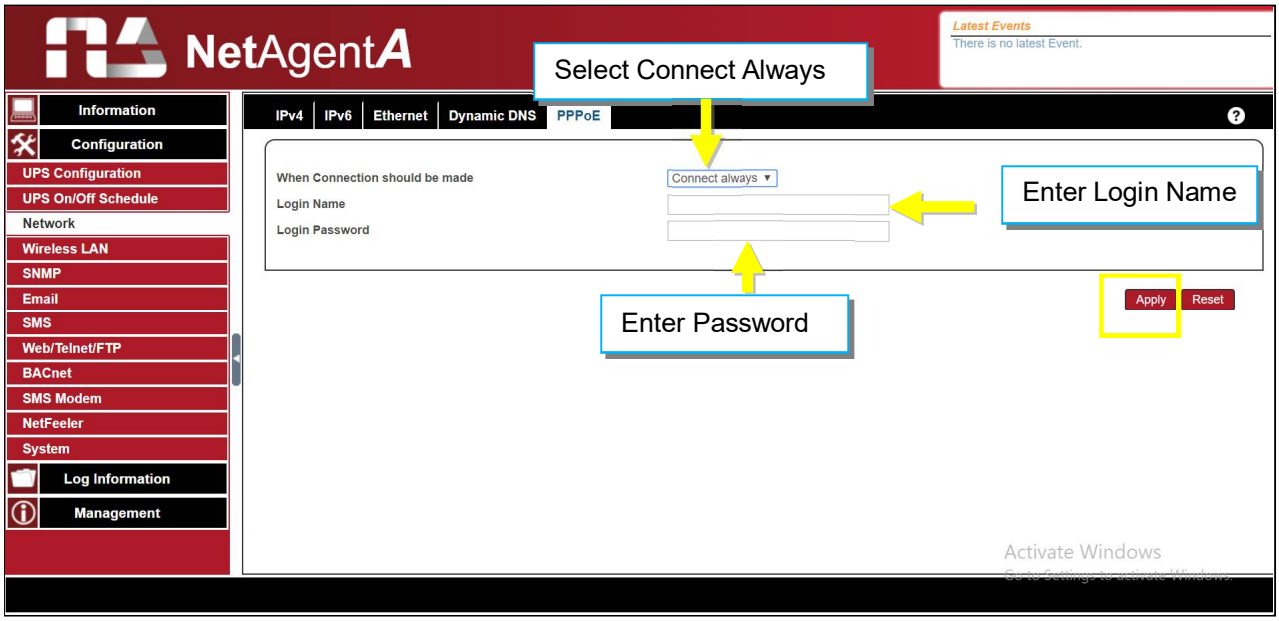

2. If using router, please login to router and direct IP and port number under virtual server for port forwarding. Kindly refer to router's manual

**3.** After 20 minutes, NetAgent*A* should be login with its DDNS Domain name



- **PPPoE**

Use this option to allow NetAgent*A* to connect to the Internet directly using your xDSL modem by PPPoE. Enter the Login name and password to enable the connection. Once set-up, NetAgent*A* will connect directly to the Internet , any abnormal connection failure would also cause to re-dial



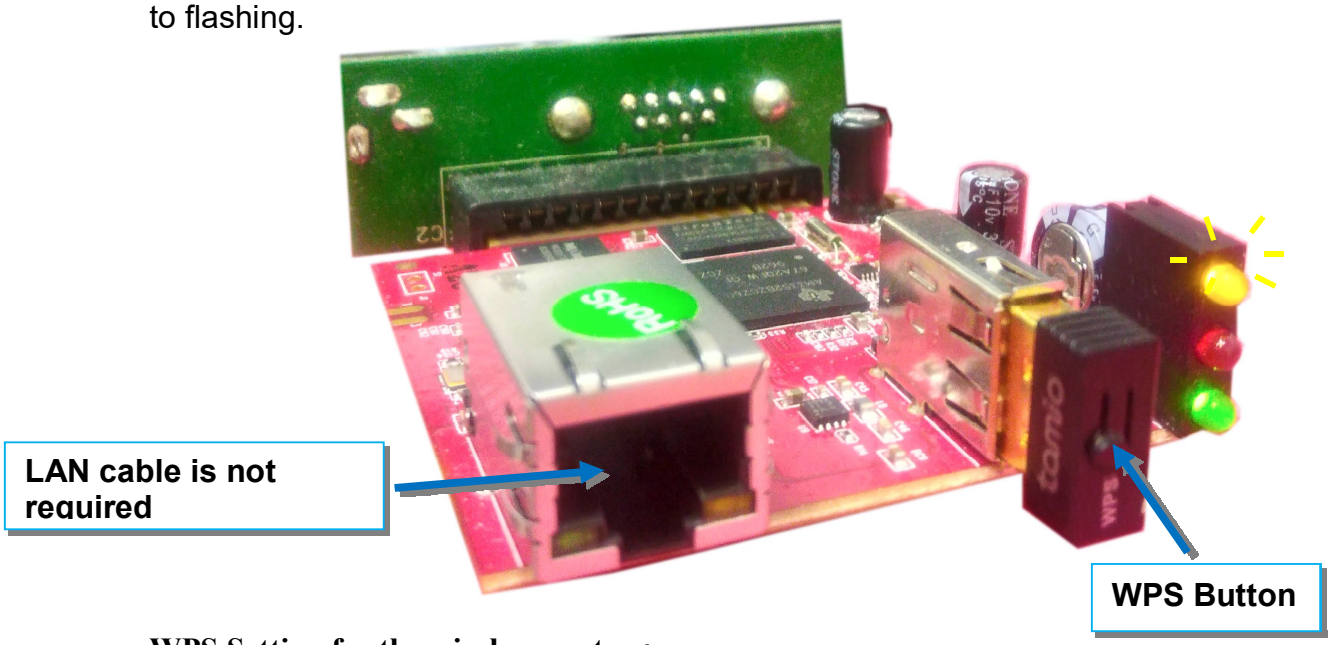
## ■ Configuration > Wireless LAN

This is to configure NetAgent*A* Wireless network with compatible USB wireless dongle.

**Login to the Wireless Router**

(1)SSID : Name it (any)
(2)Authorization：Select **WPA2-Personal**
(3)WPAEncryption：**AES**
(4)WPA-PSKKey：Enter any password (8~63 digits ASCII code)

(1)Connect U1 Tamio dongle to NetAgentA card *( If it is model-DA806, use the M2509 cable to convert)。*
(2)Press WPS button on Tamio dongle for 2~3 seconds until the yellow LED begins to flashing.




**WPS Setting for the wireless router：**

When yellow LED of the NetAgent*A* is flashing , open up WPS setting page of the wireless router. With WPS connection mode,
(1)Select "**WPS button**"
(2)Click on"**Start**"

RT-AC53
登出
重新開機
繁體中文
網路設定精靈
運作模式: 無線路由器 韌體版本： 3.0.0.4.380_10446
SSID: ASUS_RTAC53_2.4G ASUS_RTAC53_5G
一般設定
WPS
WDS
無線 MAC 地址過濾器
RADIUS 設定
專業設定
一般設定
網路地圖
訪客網路
流量管理
家長電腦控制程式
進階設定
無線網路
區域網路(LAN)
外部網路(WAN)
IPv6
VPN
防火牆
無線網路 - WPS
Start WPS Connection Process
WPS (Wi-Fi Protected Setup) 可讓您輕鬆地設定一個安全的無線網路。
啟用 WPS
ON
目前頻率
2.4GHz
連線狀態
Start WPS Process
配置
是
重新設定
基地台 PIN 碼
46312037
您可以透過以下任一方法簡便連接一個 WPS 用戶端：
方法1：點擊介面上的 WPS 按鈕。（或按下路由器後面板的 WPS 按鈕），然後按下用戶端無線網路卡上的 WPS 按鈕並等待約 3 分鐘。
方法2：開啟用戶端 WPS 程式並取得用戶端PIN碼。在用戶端PIN碼欄中輸入用戶端PIN碼並點選「開始」。請查看您的無線用戶端的使用手冊以確認其是否支援WPS功能。若您的無線用戶端不支援 WPS 功能，您需要進行手動設定並設定與路由器相同的網路名稱（SSID）以及加密設定。
WPS 連線模式：
WPS 按鈕
用戶端 PIN 碼
起始

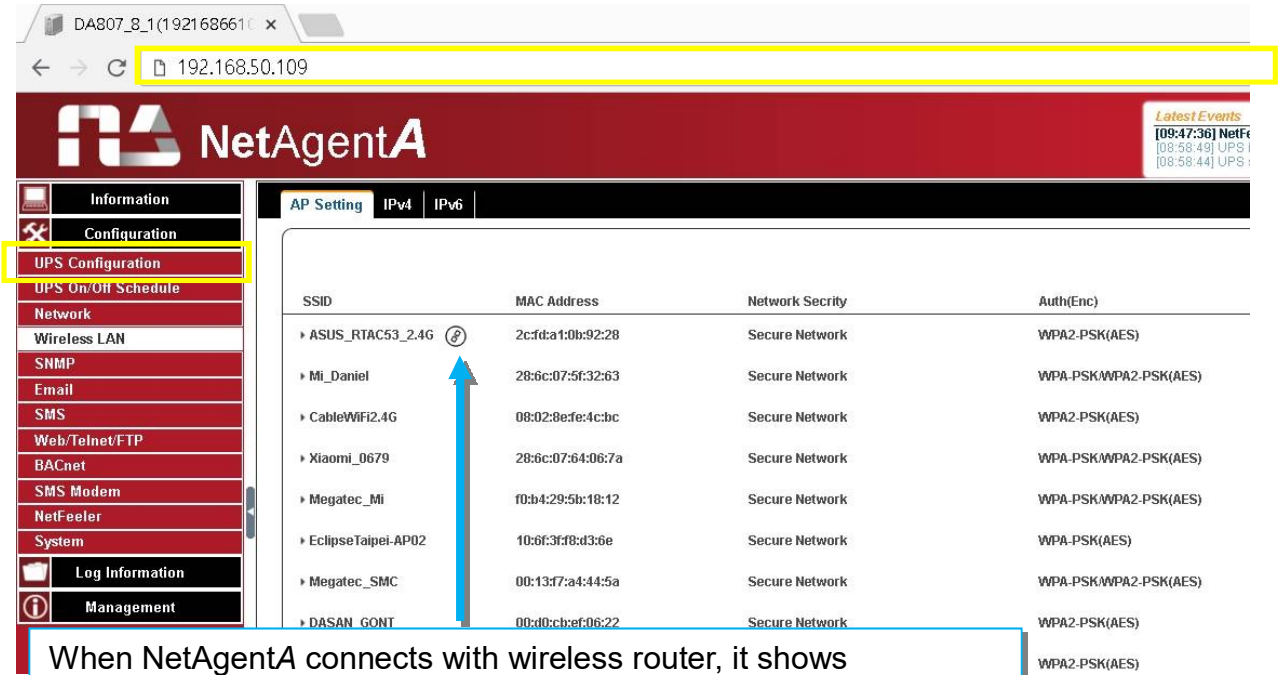
RT-AC53
登出
重新開機
繁體中文
網路設定精靈
運作模式: 無線路由器 韌體版本： 3.0.0.4.380_10446 SSID: ASUS_RTAC53_2.4G ASUS_TED_5G
一般設定
WPS
WDS
無線 MAC 地址過濾器
RADIUS 設定
專業設定
一般設定
網路地圖
訪客網路
流量管理
家長電腦控制程式
進階設定
無線網路
區域網路(LAN)
外部網路(WAN)
IPv6
VPN
防火牆
無線網路 - WPS
When WPS connection successfully, the yellow LED on NetAgentAA stop flashing
WPS (Wi-Fi Protected Setup) 可讓您輕鬆地設定一個安全的無線網路。
啟用 WPS
ON
目前頻率
2.4GHz
連線狀態
Success
配置
是
重新設定
基地台 PIN 碼
46312037
您可以透過以下任一方法簡便連接一個 WPS 用戶端：
方法1：點擊介面上的 WPS 按鈕。（或按下路由器後面板的 WPS 按鈕），然後按下用戶端無線網路卡上的 WPS 按鈕並等待約 3 分鐘。
方法2：開啟用戶端 WPS 程式並取得用戶端PIN碼。在用戶端PIN碼欄中輸入用戶端PIN碼並點選「開始」。請查看您的無線用戶端的使用手冊以確認其是否支援WPS功能。若您的無線用戶端不支援 WPS 功能，您需要進行手動設定並設定與路由器相同的網路名稱（SSID）以及加密設定。
WPS 連線模式：
WPS 按鈕
用戶端 PIN 碼
起始

Open up Netility to login to NetAgent*A* :

(1)Once NetAgent*A* is connected with wireless router via WPS, Netility should be able to find this wireless NetAgent*A*

(2)Login to NetAgent*A*'s webpage , under **Configuration** > **Wireless Lan** webpage, it shows the wireless signal

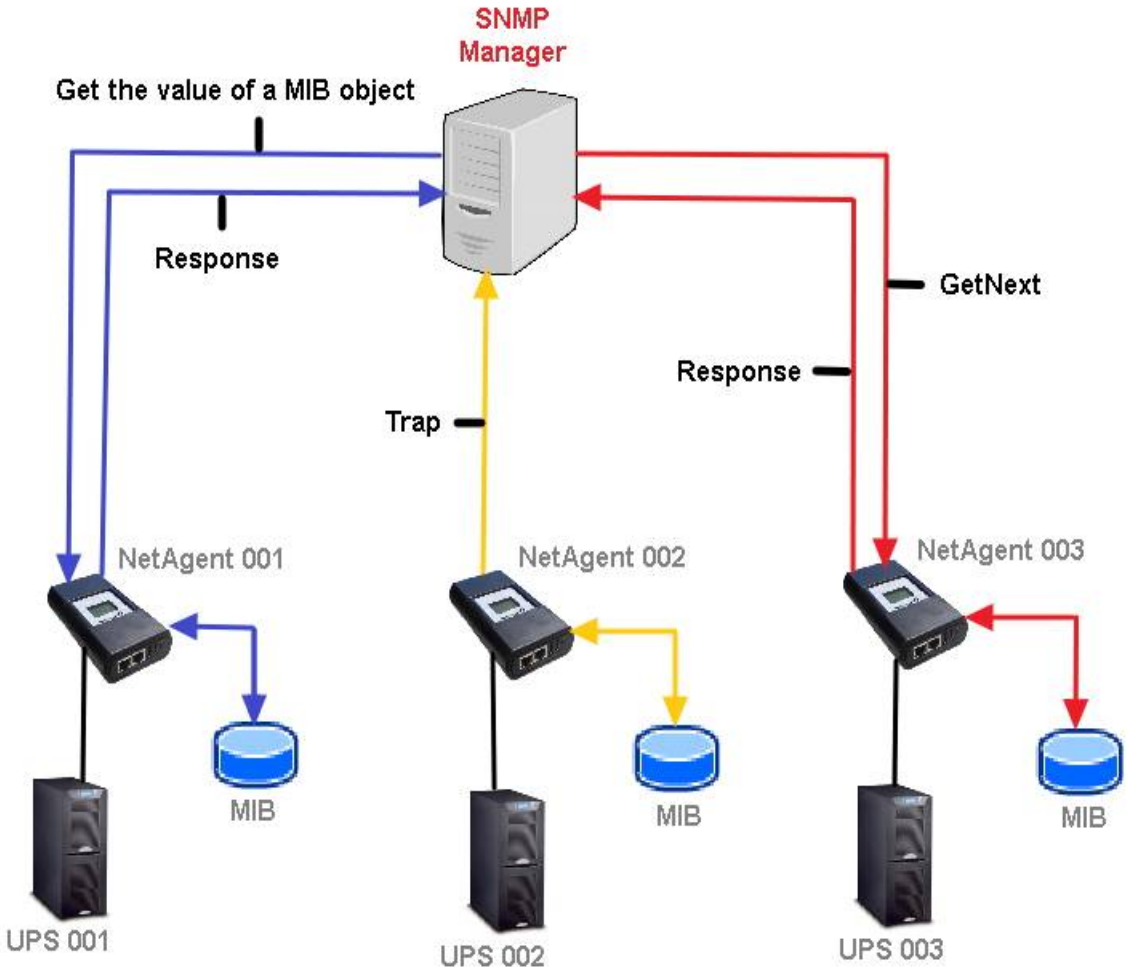
*(With distance of 6-10 meters. Router RT-AC53 still shows with full signal)*




When NetAgent*A* connects with wireless router, it shows this sign to indicate the router that NetAgent*A* is connecting.

## ■ Configuration > SNMP

This page is to configure NetAgent*A* SNMP settings to be used by NMS ( Network Management System). (e.g: SNMPView, it is available on the NetAgent*A* Utility CD.)



- **General**

MIB System

*System Name*

This section is to give a name to the NetAgent*A*.

*System Contact*

This section is to give a name to the administrator.

*System Location*

This section is to set NetAgent*A* location.

SNMP UDP Port

*NetAgentA SNMP Port：*

The port that NetAgnet*A* receive and send SNMP command. (Default is 161)

*Trap Receive Port*：

The port to receive trap. (Default is 162)

SNMPv3 Engine ID

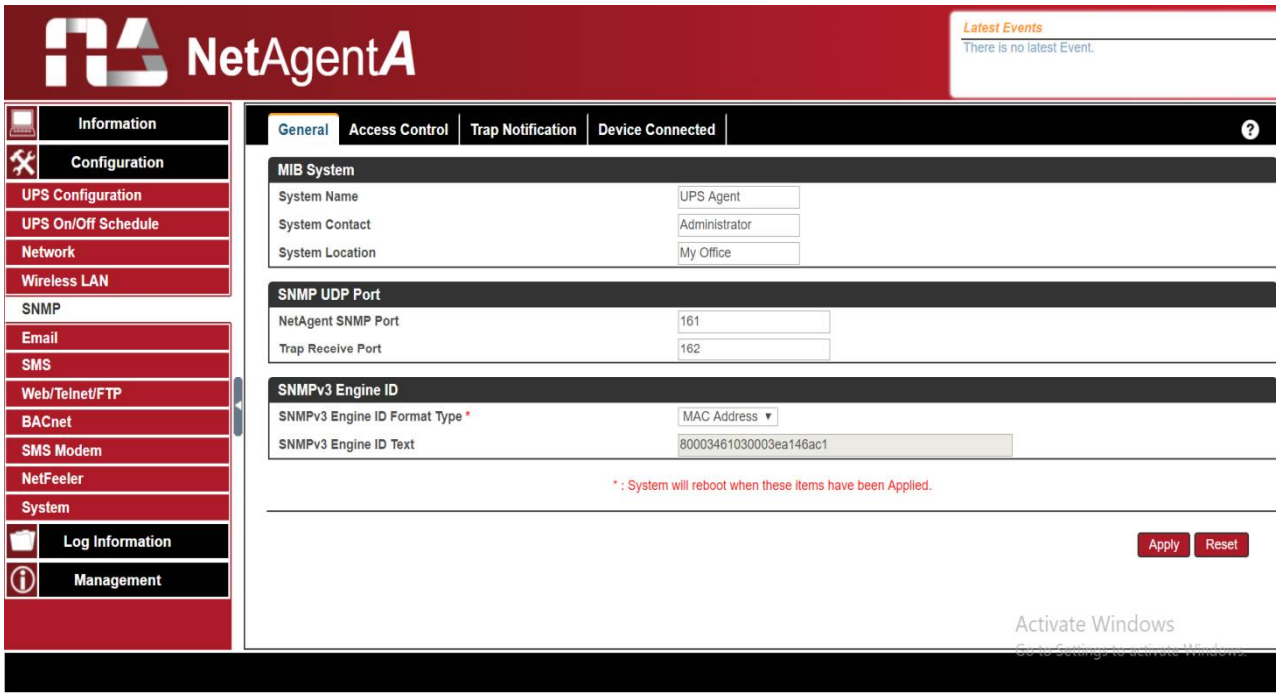
*SNMPv3 Engine ID Format Type*：

When using SNMPv3, NetAgent*A* requires to have its Engine ID for identification to generates authentication and encryption key . Format type can be select from the drop down list with option of MAC Address / IPv4 / IPv6 / Manual

✹Once click on Apply, NetAgent*A* will reboot

*SNMPv3 Engine ID Text*：

SNMPv3 Engine ID content



- **Access Control**

*Manager IP Address :*

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

*Version:*

This is to select between SNMPv1& SNMPv2 or When select All and V3, user name, password, authentication and privacy are required

*Community* :

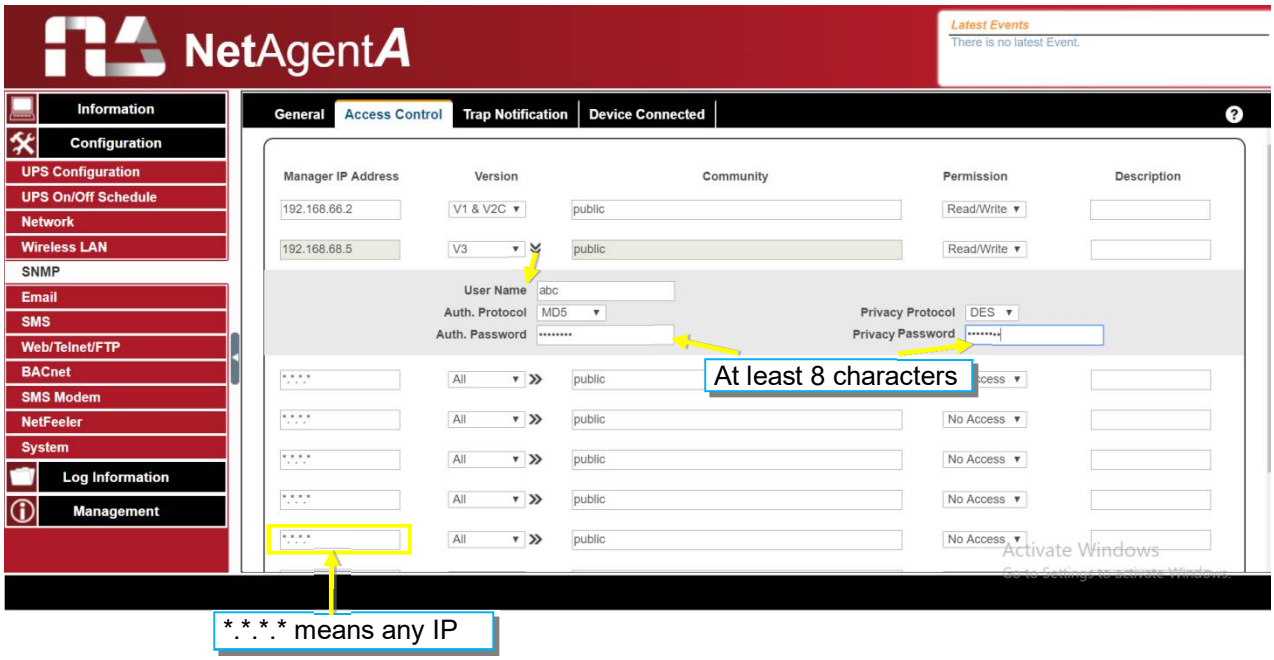
This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS. (Default is public)

*Permission* :

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

*Description* :

This is to make note for administrator's reference




- **Trap Notification**

Trap Notification

*Destination IP Address* :

To set receivers IP address for receiving traps sent by NetAgent*A*. It is valid for up to 8 IP Addresses.

*Accept* :

Select the trap type of its SNMP version or Inform from drop down list. When SNMPv3 trap or SNMPv3 Inform is selected, username/password and authentication information are required.

*Community* :

Trap receiver and NetAgentA must be same community. (Default is public)

*Trap Type* :

Select from PPC MIB or RFC1628 MIB (Default is PPC)

✹MIB file is available in the CD provided with NetAgent*A*

*Severity* :

This section is to set Trap level for each receiver. There are three levels as below

☐ 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.)

*Description :*

This is to make note for administrator’s reference

*Events* :

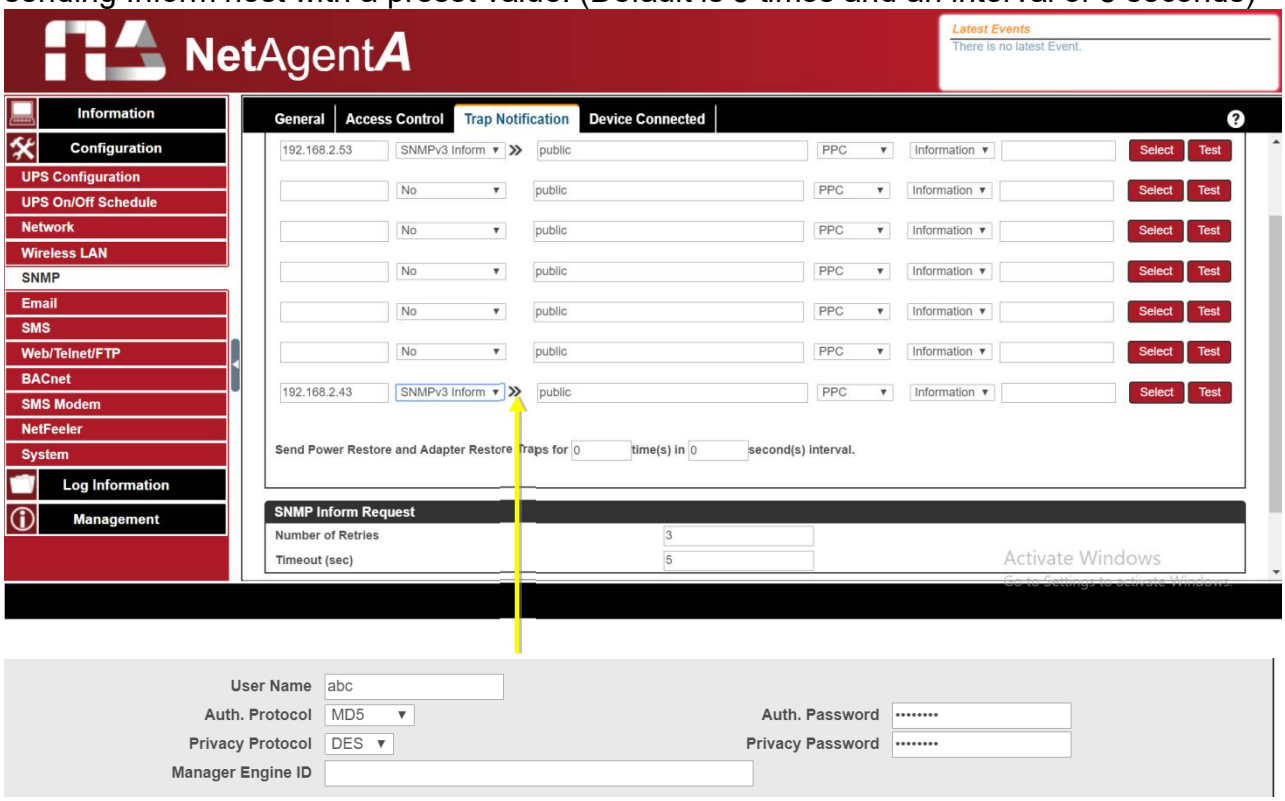
This is to select events for NetAgent*A* to send traps. Click on Select to show the full Events List. Click on Test to send test trap to ensure all setting is correct

*Send Power Restore and Adaptor Restore Traps for X time(s) in X second(s) Interval.*

This is to set number of trap to send in preset second when power restore on NetAgent*A*. This is to check if the communication between trap receiver and NetAgent*A* remains well or not after power recovers

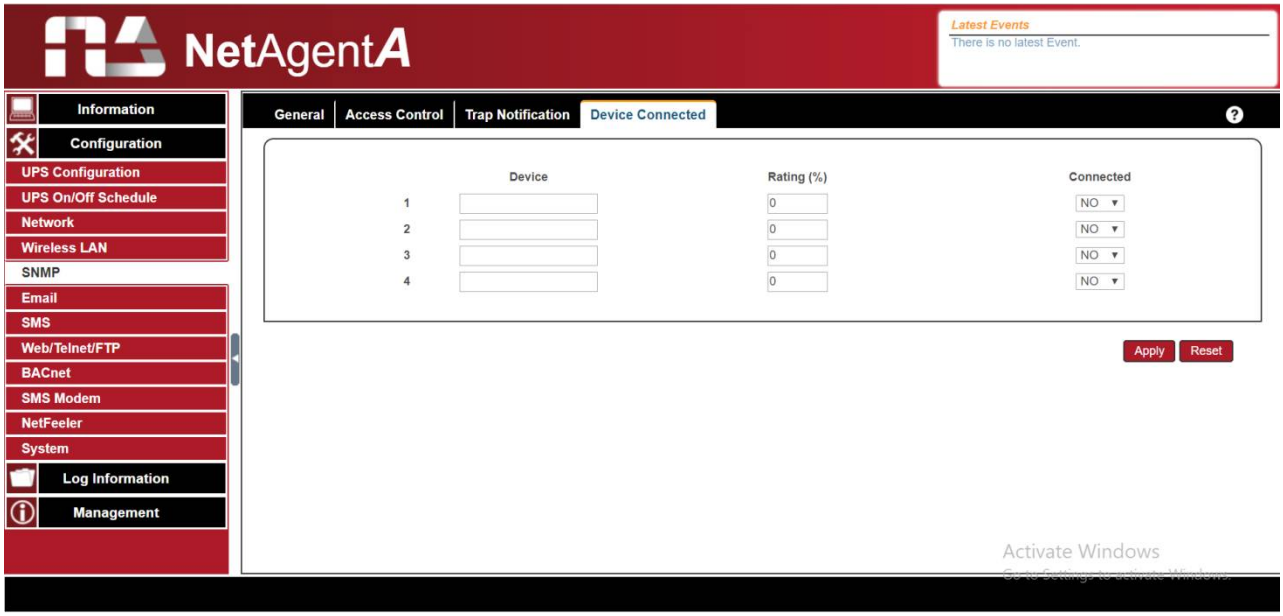
SNMP Inform Request

This is to set the number of times that the NetAgent*A* can request a response from the sending Inform host with a preset value. (Default is 3 times and an interval of 5 seconds)



- **Device Connected**

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



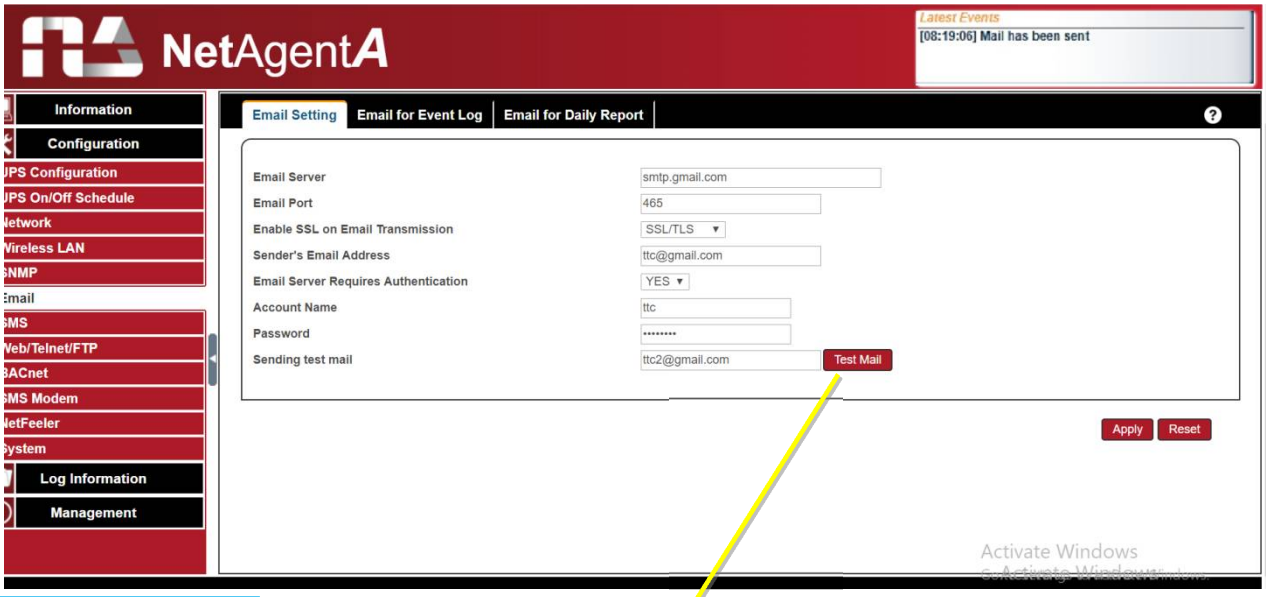

■ **Configuration > Email**

To send email notification when event occurs or data log. Encryption supports are SSL/TLS/STARTTLS

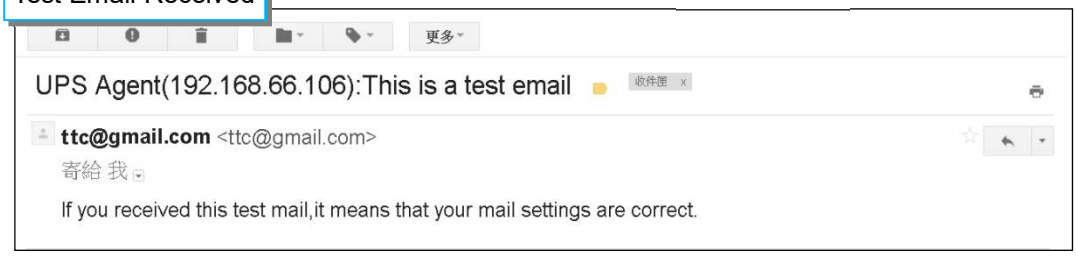
- **Email Setting**

*Email Server:*
Enter the address of email server
*Email Port:*
Email Port that use for sending email
*Enable SSL on Email Transmission:*
Select SSL type for email transmission

*Sender's Email Address* :
To enter the email address that for sending email
*Email Server Requires Authentication* :
If such email server requires authentication or not
*Account name* :
If authentication is required, enter its account name
*Password* :
If authentication is required, enter its password
*Sending Test Mail* :
Enter email address to check all configuration is correct or not to receiving mail

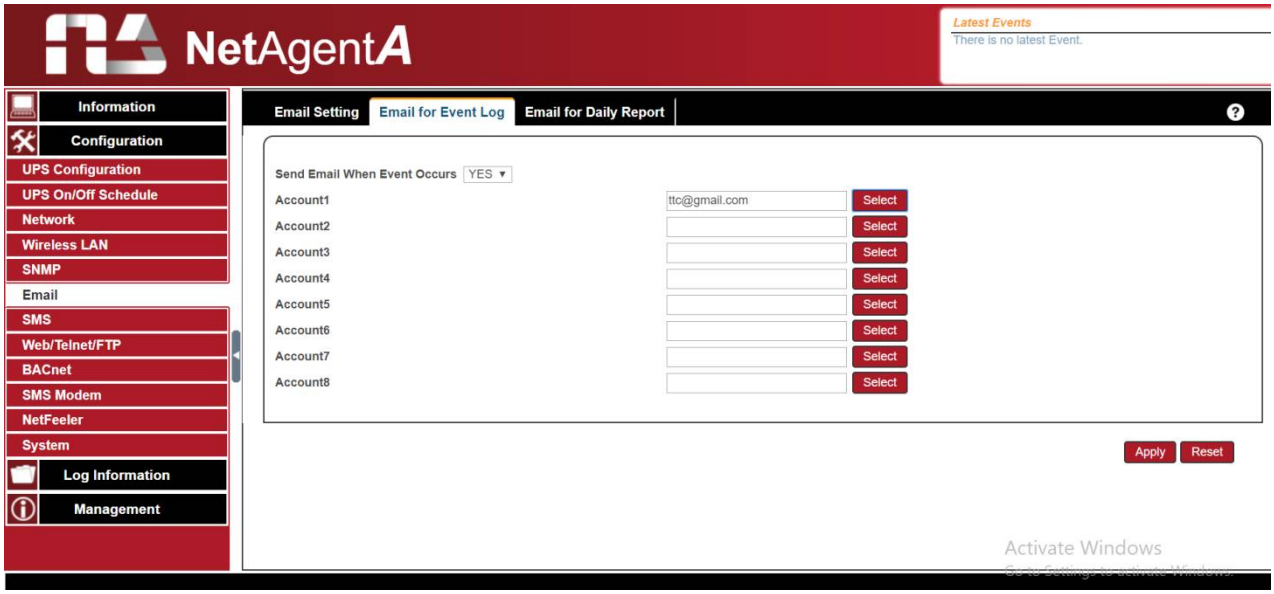



Test Email Received



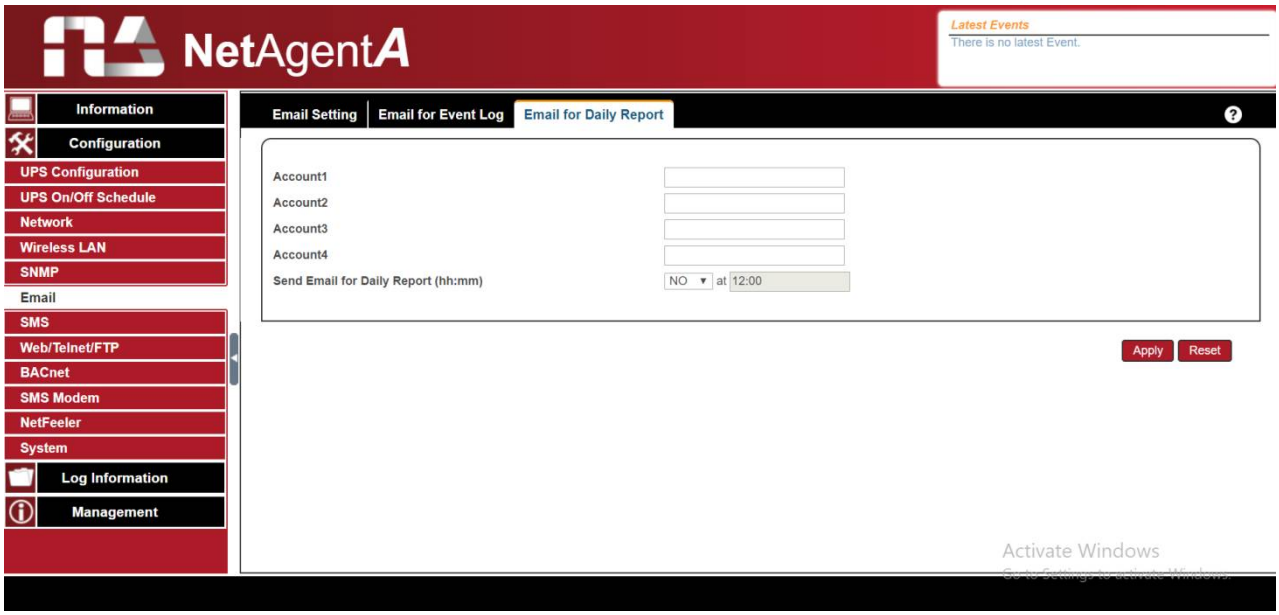

- **Email for Event Log (To received email notification**

To set email addresses to receive warning email sent by NetAgent*A* when selected event occurs. It is valid for up to 8 Email addresses.



- **Email for Daily Report (To receive daily report)**

This section is to set email addresses to receive NetAgent*A*'s Daily Report at pre-set time. It is valid for up to 4 email addresses. Daily report will be the content of event and data log.




## ■ Configuration > SMS

When UPS events occurs, it allows Short Message Signals ("SMS") to be sent and received using a GSM/GPRS/CDMA Modem. Operation information are as below for single and three ports of NetAgent*A*.

- **SMS Setting**

*Send SMS When Event Occurs:*

☐ Disable ：No SMS Service

☐ Use Local Modem：When GSM modem is connected to NetAgent*A* directly
(Refer to SMS Modem section for its installation)

☐ Use Remote Service：When GSM modem connects to PC with SMS Server software installed
(Refer to SMS Server section for SMS Server Software installation)

*SMS Server* :

If select to use Remote Service to send SMS, then enter the IP address of the SMS Server.
(The PC that installed SMS Server Software)

*SMS Port* :

If select to use Remote Service to send SMS, enter the port number that SMS Server uses for sending SMS. (Port 80 is default)

*Account Name* :

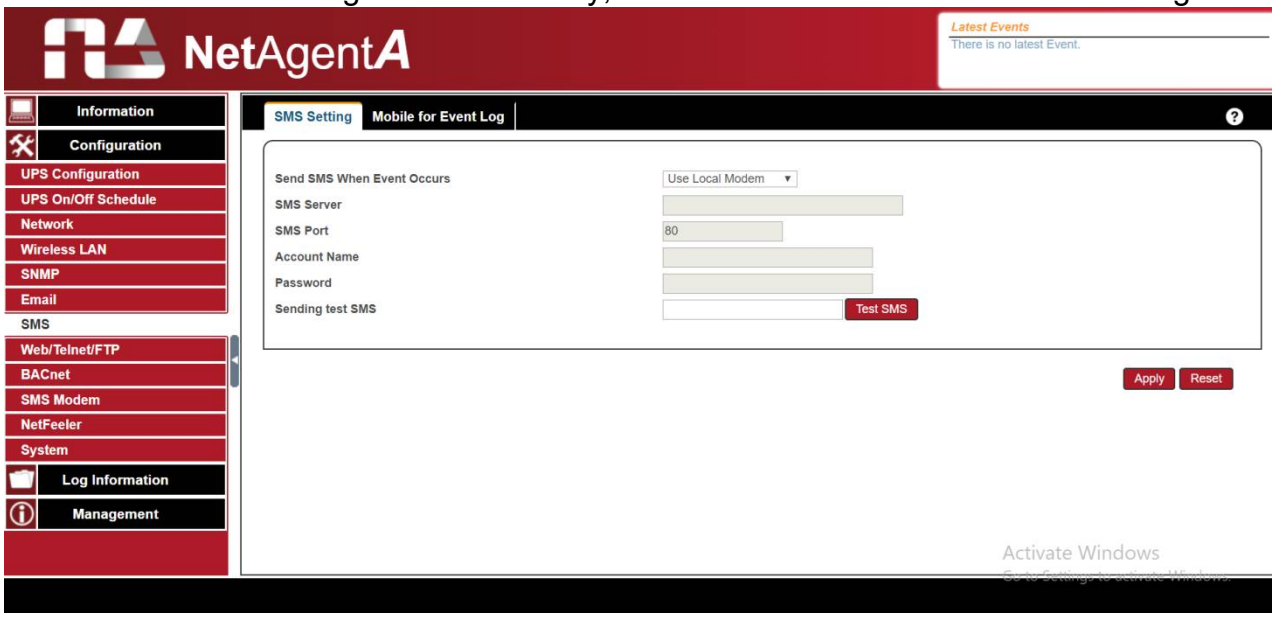
If select to use Remote Service to send SMS, enter SMS Server's account name if required

*Password* :

If select to use Remote Service to send SMS, enter SMS Server's password if required

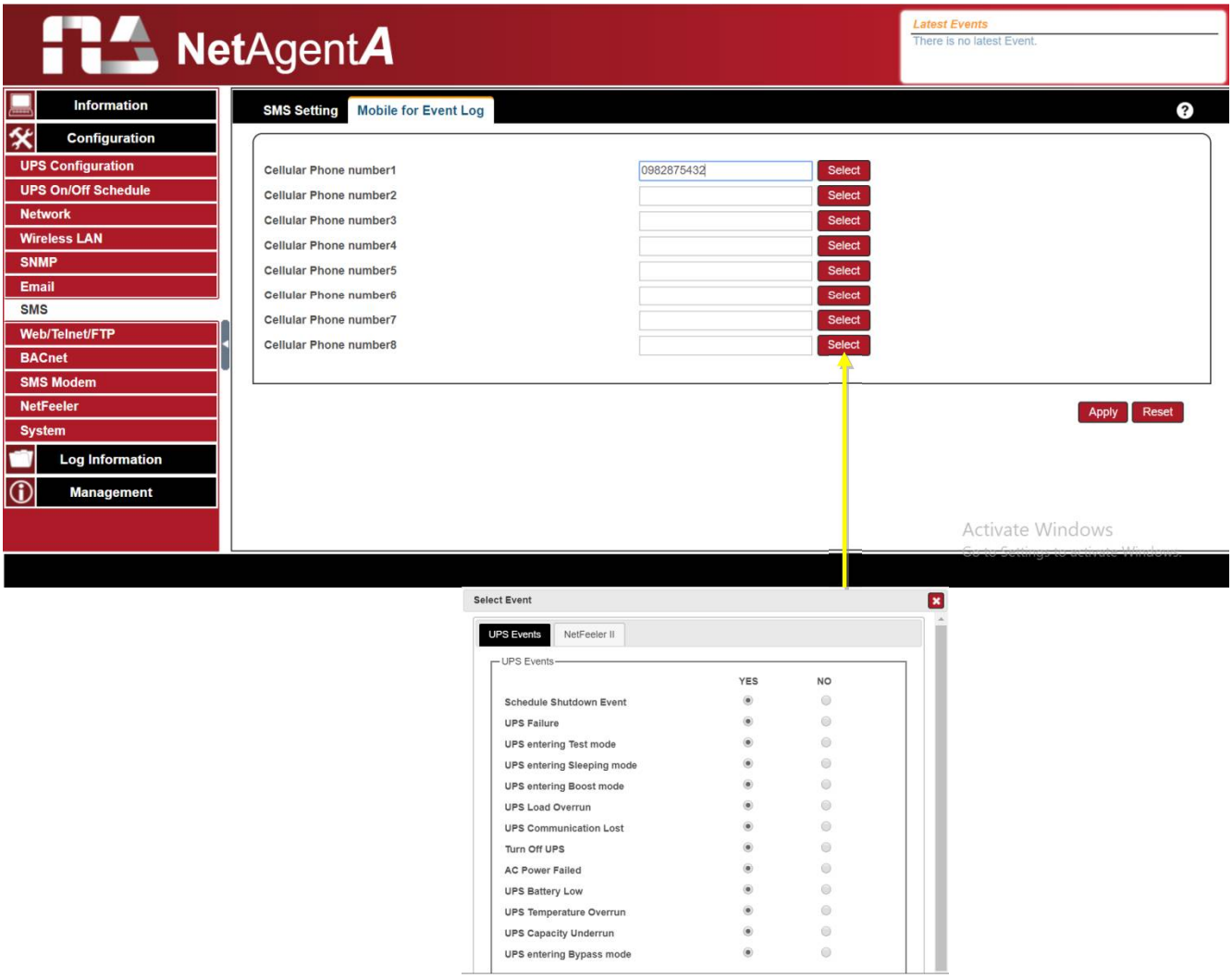
*Sending test SMS* :

When modem and configuration are ready, enter a mobile number to receive testing SMS



- **Mobile for Event Log**

To set the recipient's mobile number for SMS notification when event or NetFeeler event occurs. A total of 8 mobile numbers can be assign.




## ■ Configuration > Web/Telnet/FTP

To set permission for each user account for Web,Telnet and FTP access with up to 8 users. Also to enable/disable specific port for HTTP/HTTPS, Telnet/ SSH and FTP

- **HTTP/HTTPS**

Enter specific port number to access or disable for HTTP, HTTP proxy, HTTPS

HTTP/HTTPS Account

*User Name* :

To set password for NetAgentA Web access.

*Password* :

To set password for NetAgentA Web access.

*Permission* :

To set No Access / Read/ Read&Write)

✹ Permission Rule： At least one user account must be Read/Write

✹ Permission Rule : User name with Read and Write cannot be blank

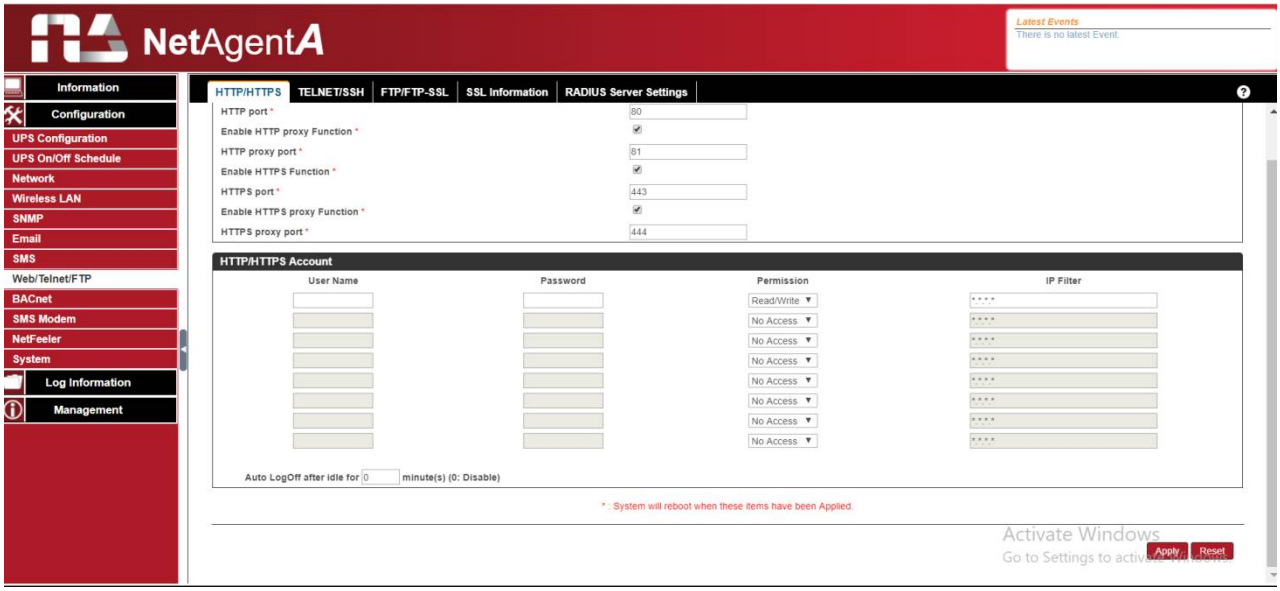
*IP Filter :*

Only specific IP address could login to NetAgent*A*

- *.*.*.* means any IP address

*Auto Logoff after Idle for_____ minute (s). ( 0 is disabled)*

NetAgentA webpage will be logoff automatically if it idles for the preset value.




- **Telnet/SSH**

Enter specific port number to access or disable for Telnet/SSH

Telnet/SSH Account

*Same as HTTP account/password settings*

This is to duplicate the same settings from HTTP

*User Name* :

To set password for NetAgent*A* Telnet access.

*Password* :

To set password for NetAgent*A* Telnet access.

*Permission* :

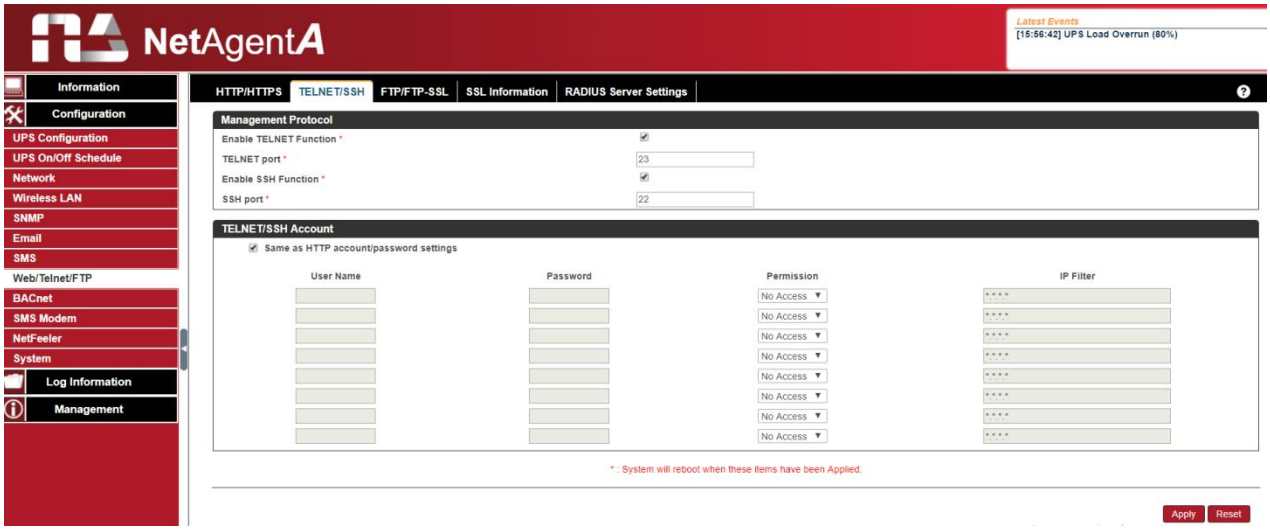
To set No Access / Read/ Read&Write)

- Permission Rule： At least one user account must be Read/Write
- Permission Rule : User name with Read and Write cannot be blank

*IP Filter :*

Only specific IP address could login to NetAgent*A*

- *.*.*.* means any IP address




- **FTP/FTP-SSL**

To select the access between FTP and FTP-SSL with specific port number or to disabled it

FTP/FTP-SSL Account

*Same as HTTP account/password settings*

This is to duplicate the same settings from HTTP

*User Name* :

To set password for NetAgent*A* FTP access.

*Password* :

To set password for NetAgent*A* FTP access.

*Permission* :

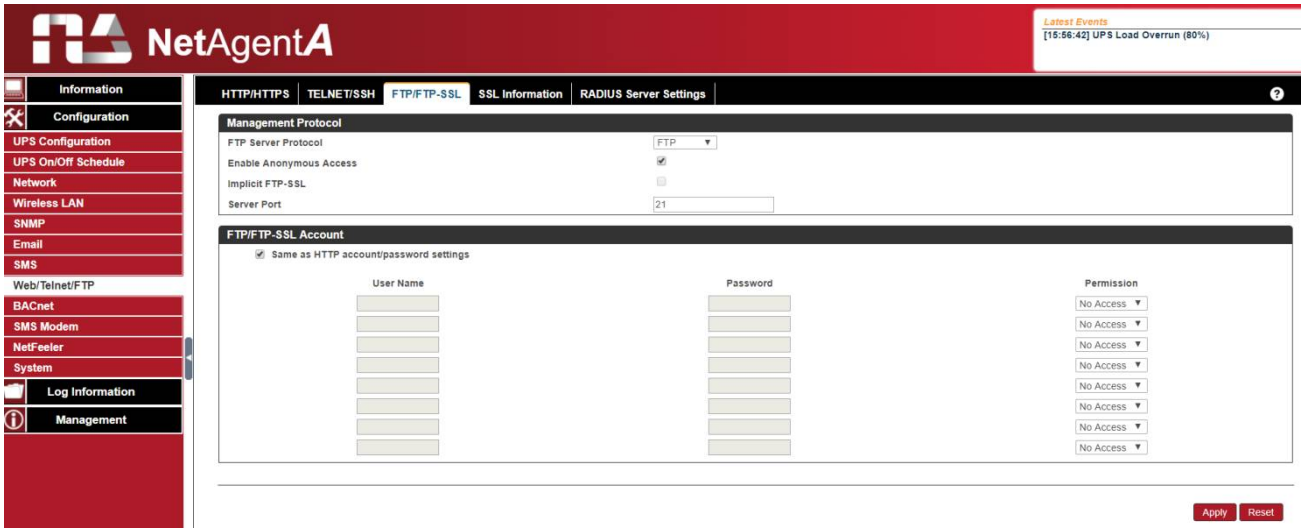
To set No Access / Read/ Read&Write)

- Permission Rule： At least one user account must be Read/Write
- Permission Rule : User name with Read and Write cannot be blank

*IP Filter :*

Only specific IP address could login to NetAgent*A*

- *.*.*.* means any IP address



- **SSL Information**

NetAgent*A* supports HTTPS protocol and varies SSL encryptions version for network connection. User may upload its Public Key and Certification for authentication

### HTTPS Protocols

Select the encryption version

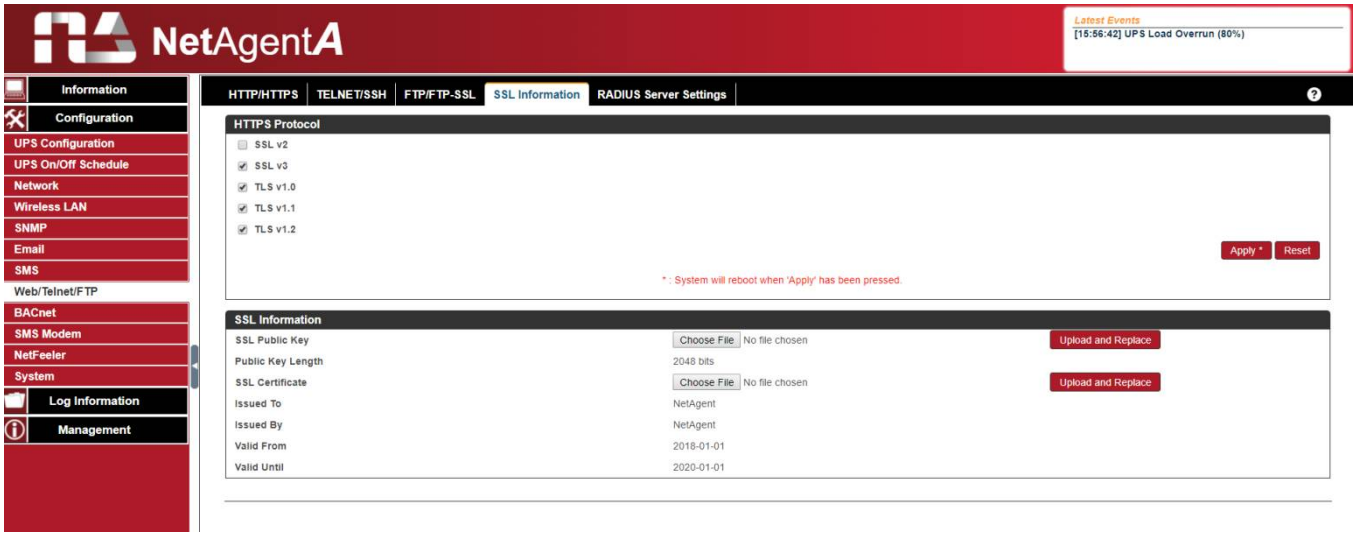
☐ SSL v2
☐ SSL v3
☐ SSL v1.0
☐ SSL v1.1
☐ SSL v1.2

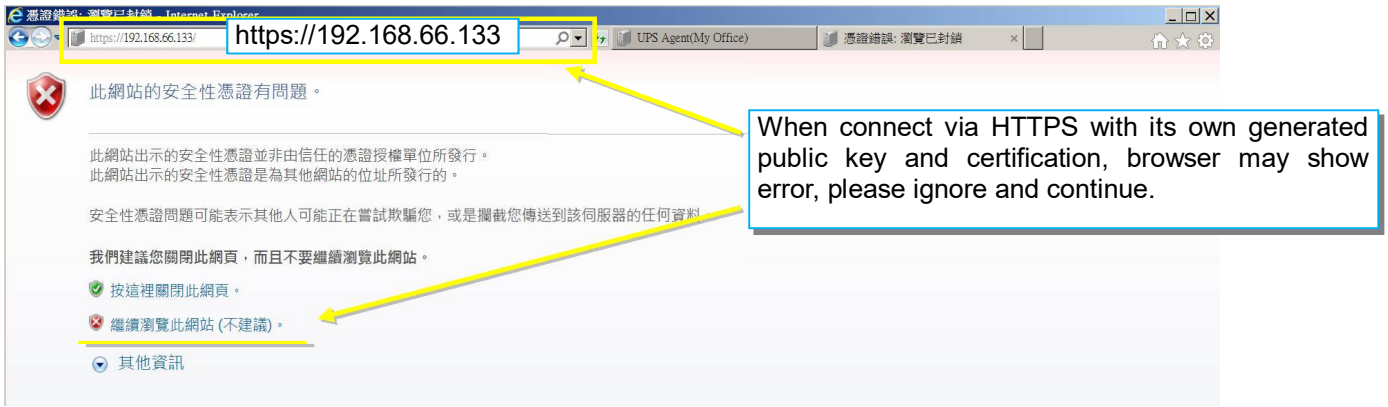
✹ Once click on Apply, NetAgent*A* will reboot

### SSL Information

This is to upload the SSL certificate. When both public key and certificate are uploaded to NetAgent*A* web server, the communication will be encrypted by SSL

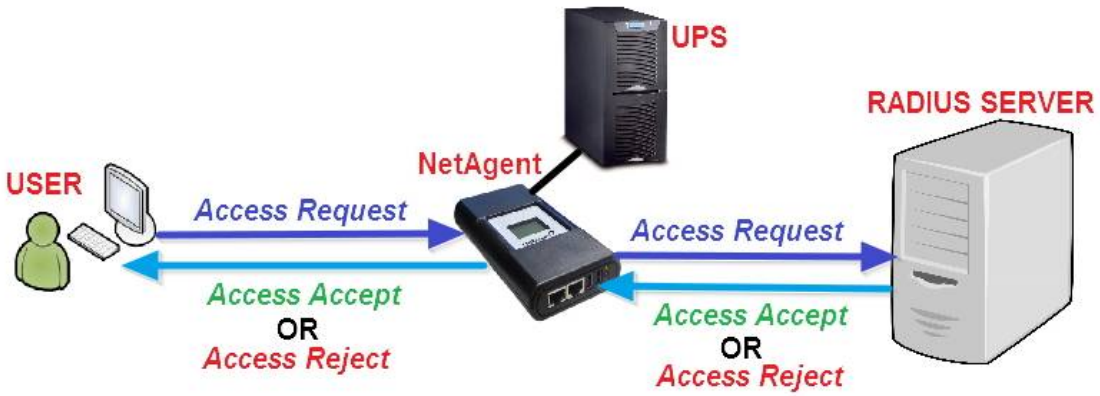
(To communicate via Https, make sure to enable Https port 443.)To create its own public key and certification, please refer to OpenSSL software in the CD



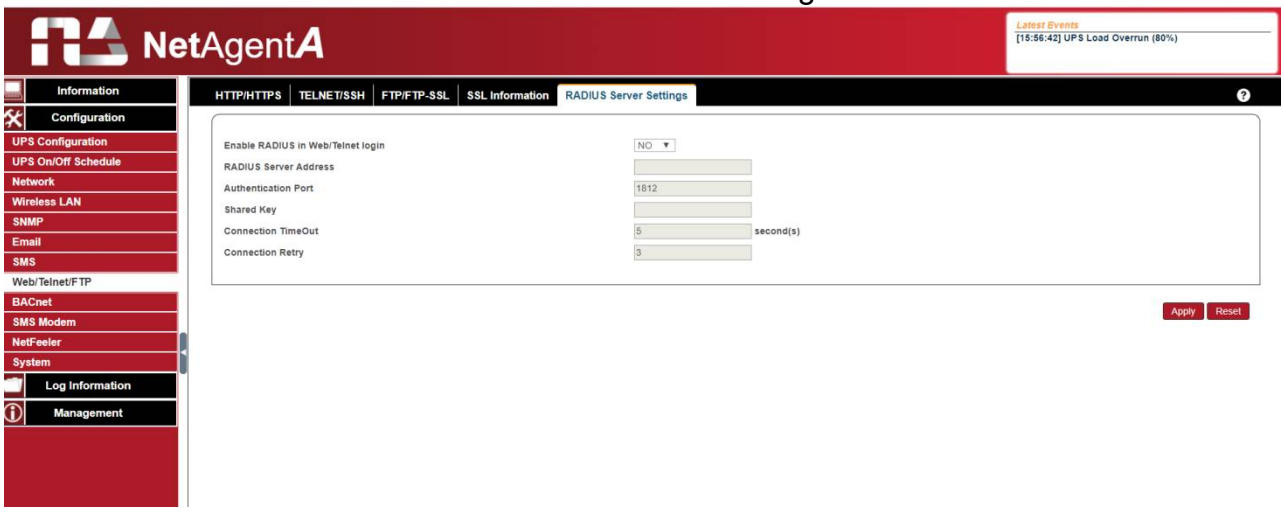



- **RADIUS Server Setting**

If RADIUS server authentication is required for the network, NetAgent*A* could be added by entering following parameter.




*Enable RADIUS in Web/Telnet Login:*
To select if to enable RADIUS
*RADIUS Server Address* :
To enter the IP address of the RADIUS Server
*Authentication Port* :
RADIUS port number (Default is 812)
*Shared Key* :
Enter the Shared Key between RADIUS Server and client
*Connection Timeout* :
Set the number of seconds to suspend the login time after the RADIUS server is rejected
*Connection Retry* :
Sets the number of connections to the RADIUS server again



## ■ Configuration > BACnet

NetAgent*A* supports BACnet/IP (Building Automation and Control/Internet Protocol)

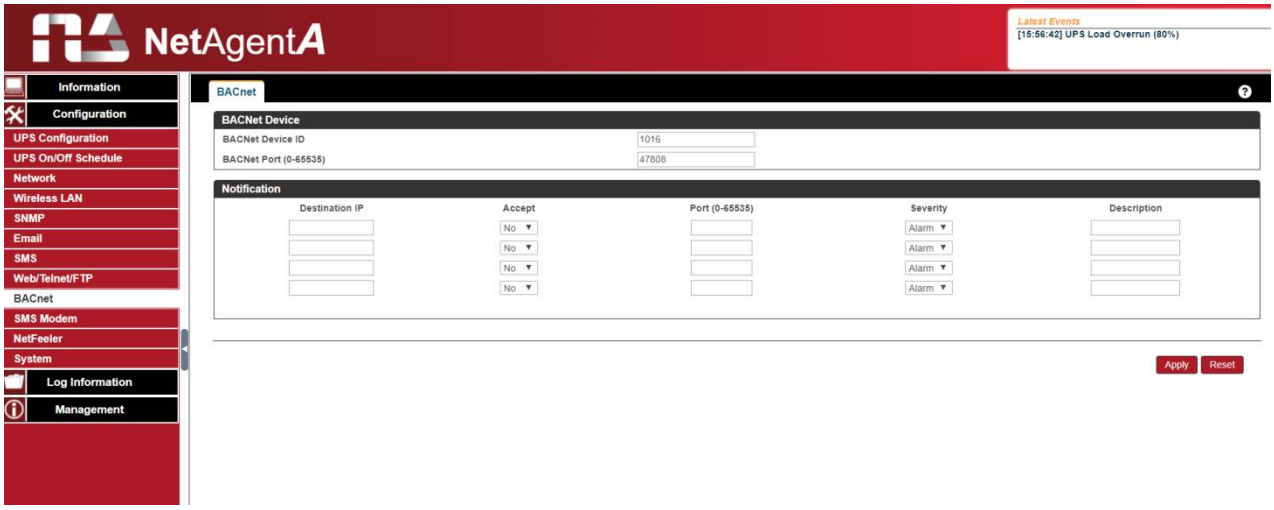
- **BACnet**

BACNet Device

Configure the device ID and access port number for the NetAgent*A* when using BACnet for communication

Notification

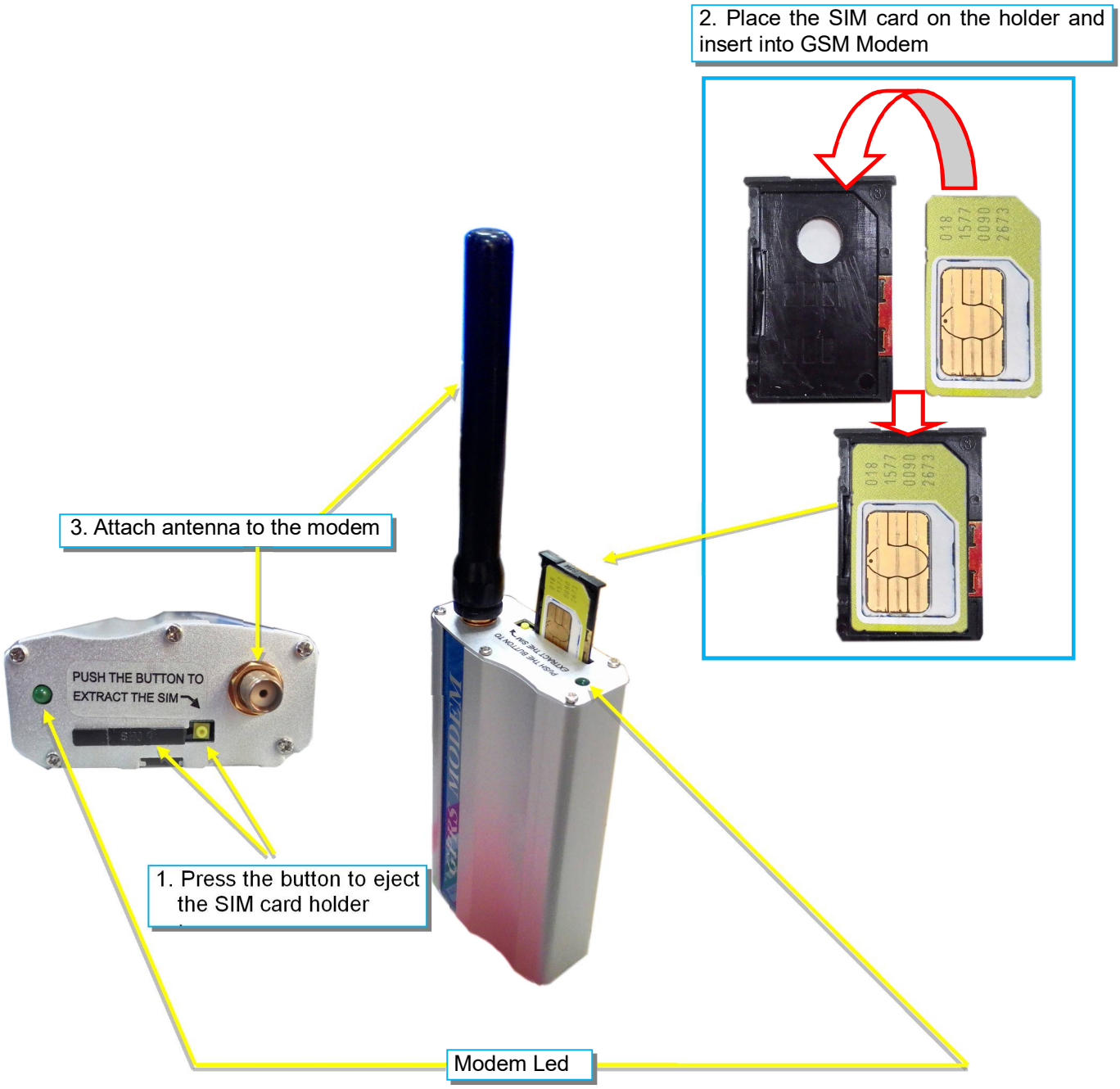
Enter the IP address of the PC that to be notify by BACnet software when event occurs



## ■ Configuration > SMS Modem

When compatible GPRS modem connects with NetAgent*A* , it is able to send SMS notification when event occurs

☐ Modem Setup Procedure




**Modem Led Status**

1. **If flash every 0.8 seconds** :
   - ■Modem initializing, please wait
   - ■If no respond
     - **(1)** Check if PIN is correctly entered, or if PIN is required
     - **(2)** Check if SIM card is inserted corrected
     - **(3)** Check if no or low signal

2. **If flash every 3 seconds** :
   - ■Modem is ready for operation

- **SNMS Modem Setting**

*Modem Communication Port*：

Select “ ttyUSB0” for USB modem connects with NetAgent*A* directly；

*SMS Communication*：

Select between GPRS or CDMA

*SIM Card PIN*：

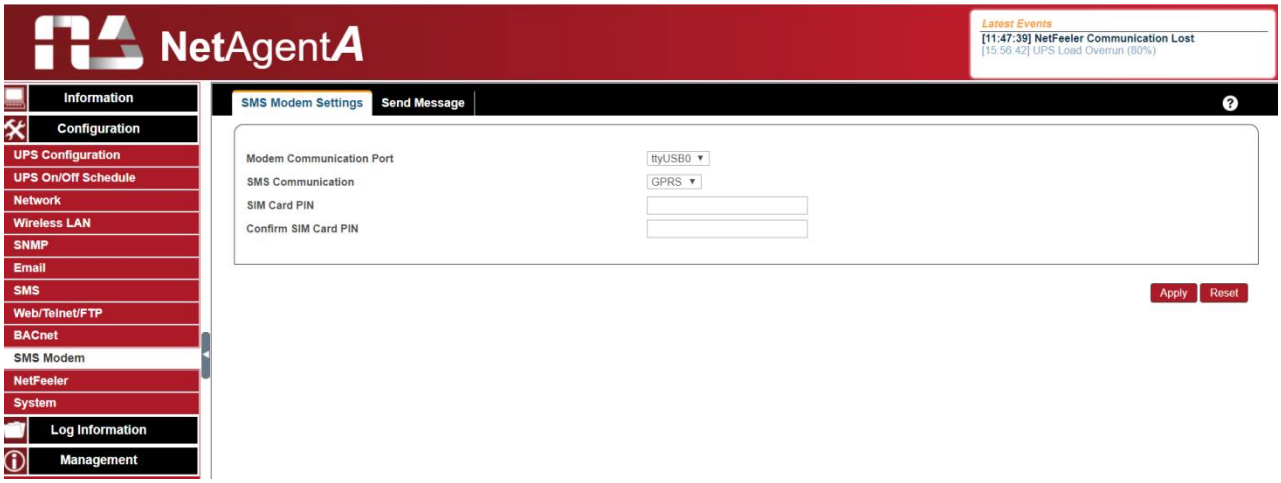
If PIN is required for the SIM card, please enter

*Confirm SIM PIN*：

Retype SIM card PIN

When all done, click on Apply. Modem Information and Status can be check from Information> SMS Modem Status

✹ Once click on Apply ,NetAgent*A* will reboot



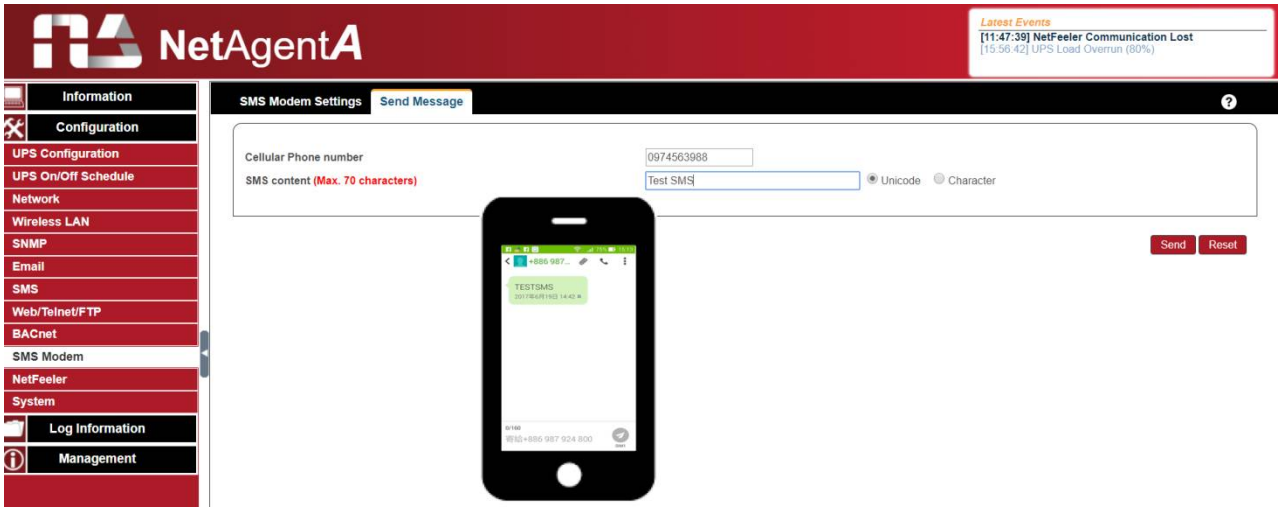

- **Send Message**

*Cellular Phone number*：

Enter mobile number

*SMS Content(Max.70 Characters)*：

Enter the SMS content text and select coding. Unicode or Character



## ■ Configuration > NetFeeler

NetFeeler is the external optional environmental sensor. It is to detects temperature, humidity and water. NetFeeler has RF receiver built-in to work with extension sensors such as smoke, security sensor.

- **NetFeeler**

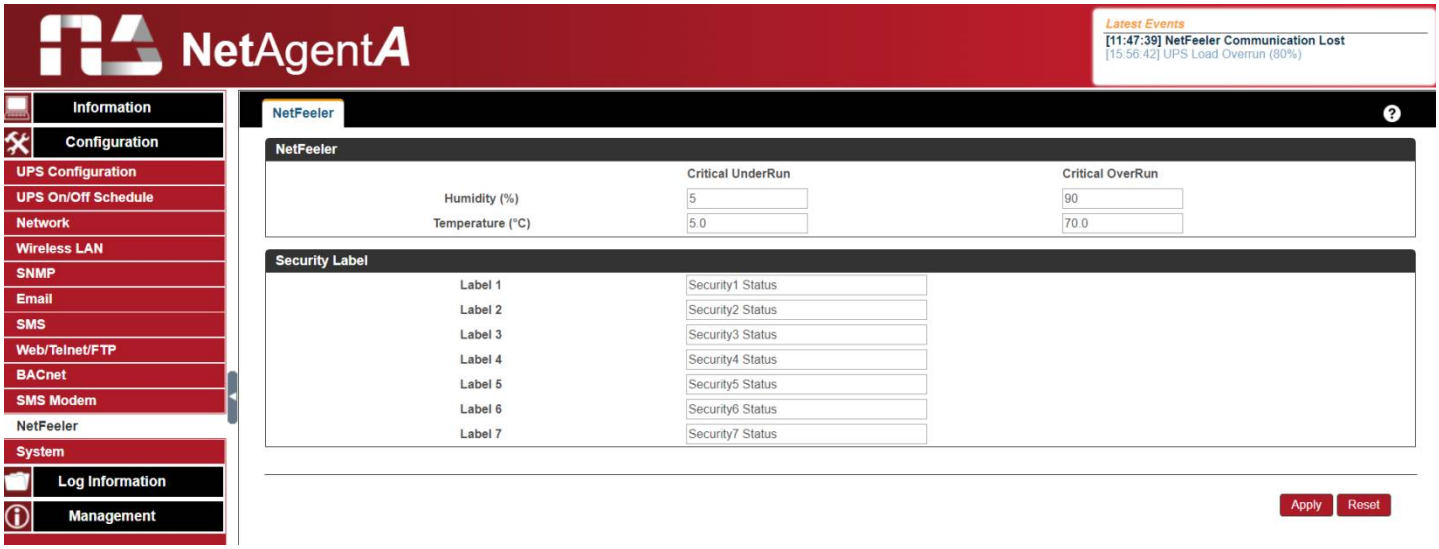
NetFeeler

*Humidity/Temperature Critical value* :

To set the lowest and highest critical values for temperature and humidity. NetFeeler will send a warning message when it detects temperature or humidity values below and above these settings.

Security Label

NetFeeler may connect up to 7 security sensors that communicate via RF. This section is to set the location or name of each sensor.




## ■ Configuration > System

This page is to set NetAgent*A*'s system time, language and configuration.

- **Date/Time**

NetAgent*A* to synchronize with external or internal Time Server for correct date and time.

System Time

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

To display the current system time/date of NetAgent*A*. Or click on Adjust Now to adjust to the correct time/date automatically

*Time Between Automatic Updates* :

To set an interval for time synchronization.

*Time Server* :

Time server can be select from the drop down list , or add other time server manually.

*Time Zone(Relative to GMT)* :

To select its GMT time zone

*Using Daylight Saving Time* :

Select whether to use the daylight saving time system to adjust the clock for 1 hour in advanced

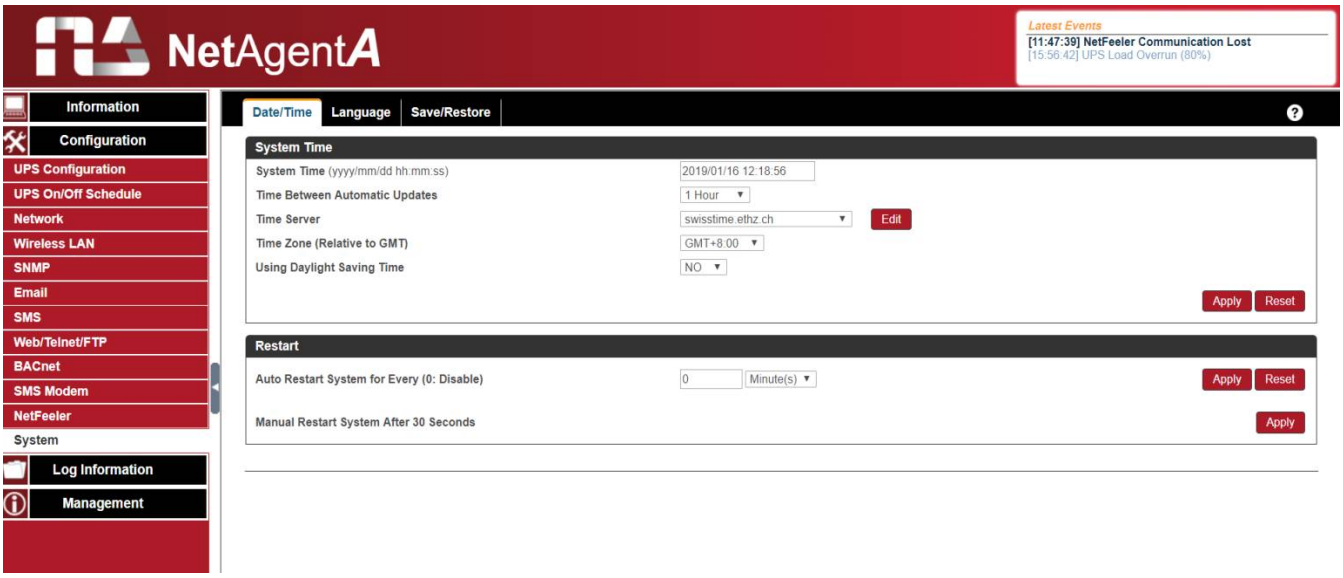
Restart

*Auto Restart System for Every (0 is disabled):*

NetAgent*A* to restart automatically at preset hour or minute

*Manual Restart System After 30 seconds* :

Once click on Apply, NetAgent*A* would restart after 30 seconds




- **Language**

This page is to set the language interface for NetAgent*A*.

Interface Language

To set the language of NetAgent*A* web pages. When first start login to the webpage of NetAgent*A*, NetAgent*A* will auto detects the OS language of the PC and shows the same language on its web pages. Users may choose the language per preference

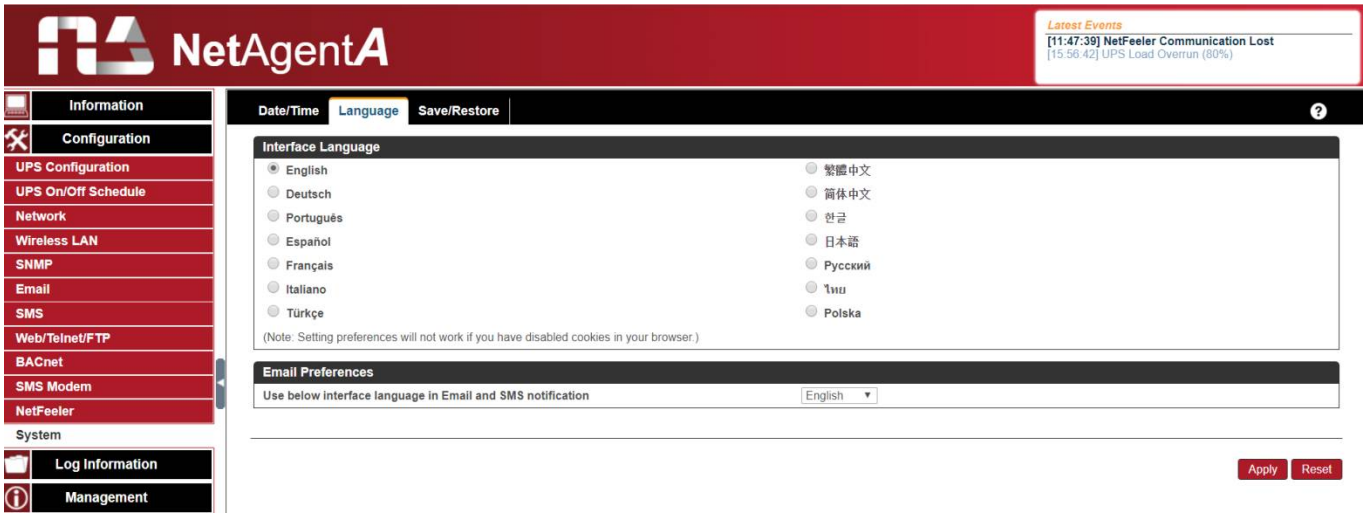
Note: Users will have to enable cookies before they use this function.

Email Preference

Select language preference when receive emails and SMS.

*Languages supported by NetAgentA*

- English
- Deutsch
- Português
- Español
- Français
- Italiano
- Türkçe
- 繁體中文
- 簡體中文
- 한글
- 日本語
- Русский
- ไทย
- Polska




- **Save/Restore**

*Save Current Configuration*

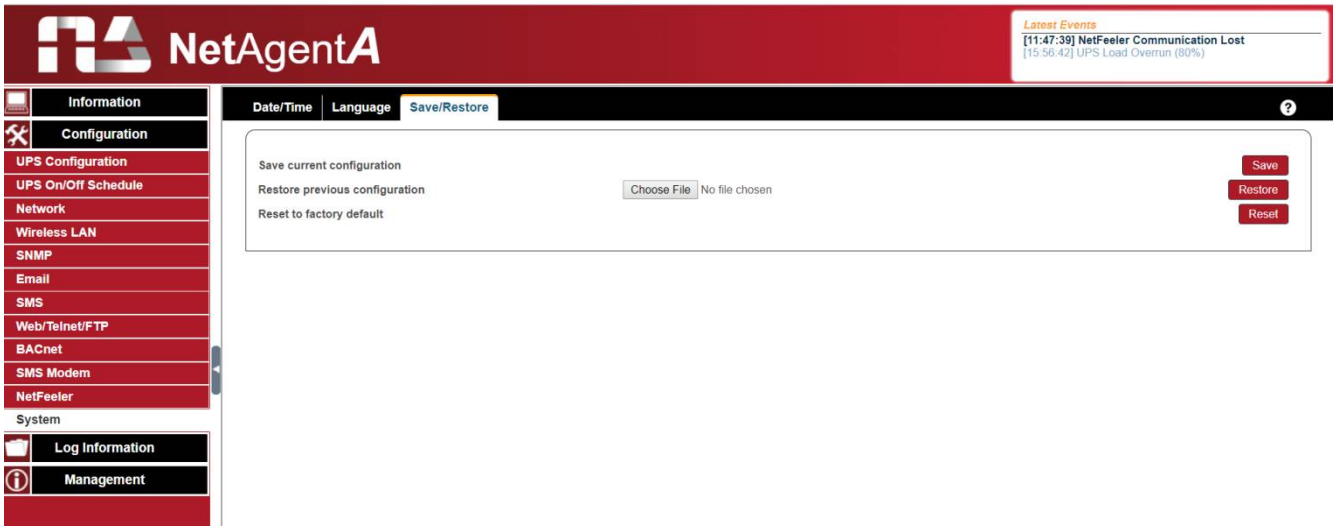
Click on Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####.cfg. Administrator permission required.

*Restore previous configuration*

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.

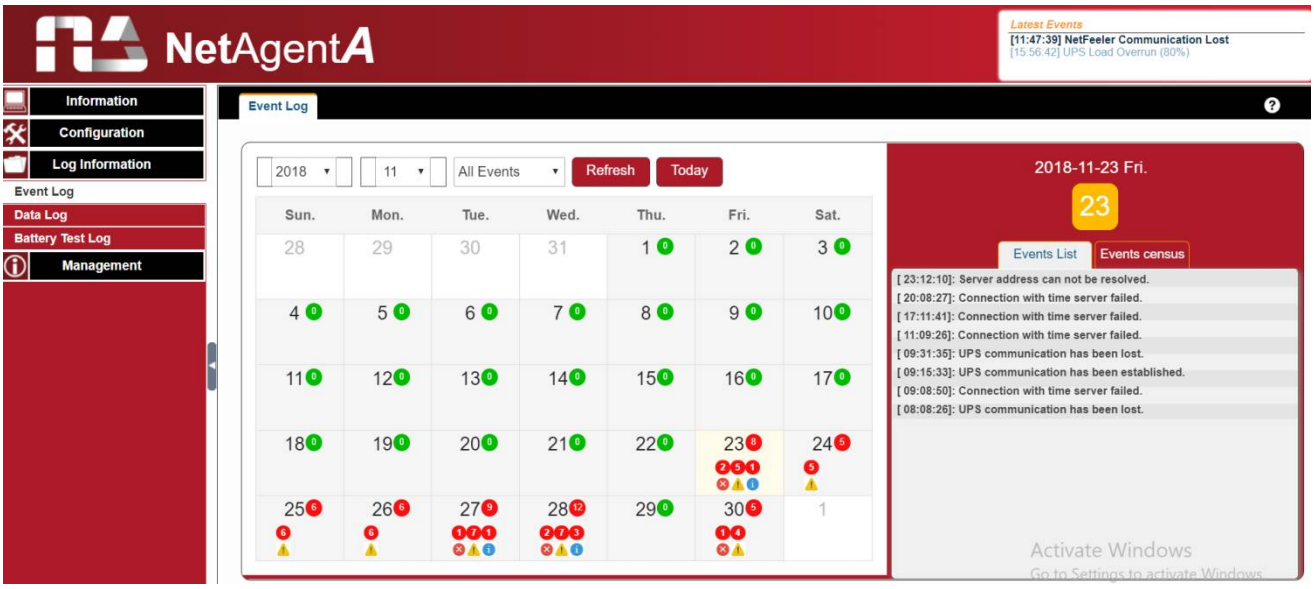



## ■ Log Information > Event Log

- **Event Log**

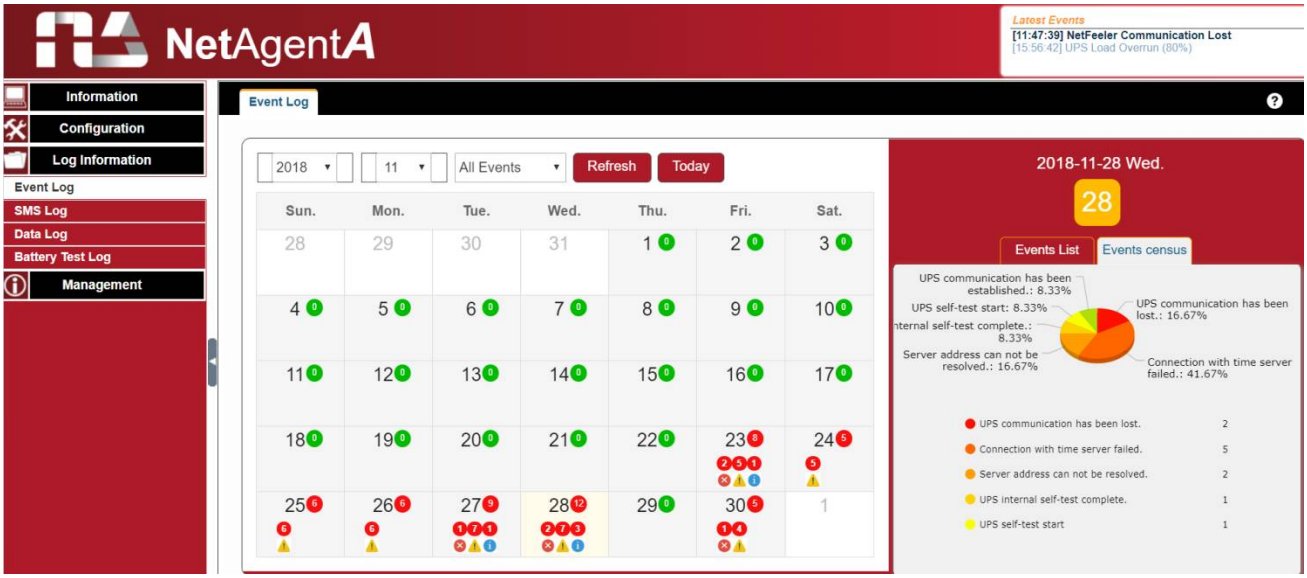
Event List

It shows record of all events, giving the Date/Time of the event with detailed description of each. Event can be check on specific date from the calendar




Event census

Here is to present the event statistically on the selected date

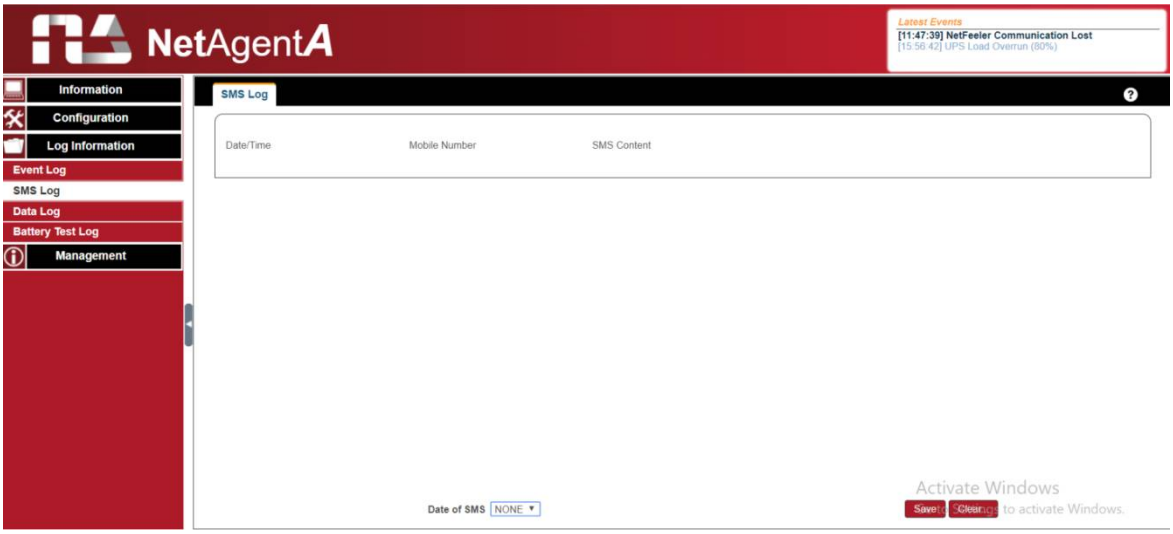



- **Log Information > SMS Log**

- **SMS Log**

It shows SMS record of all mobile number, giving the Date/Time of the SMS sent and a detailed description of each. When reach to the limit, it rewrites on the previous logs.

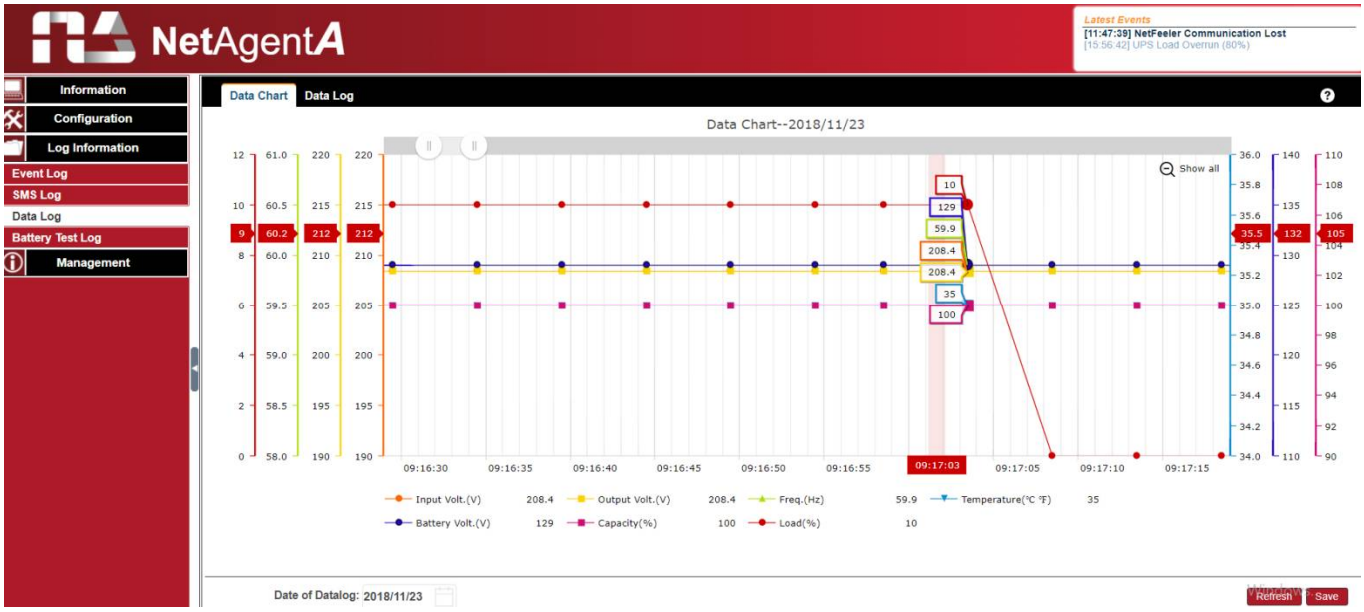
SMS log can be save as csv file .



## ■ Log Information > Data Log

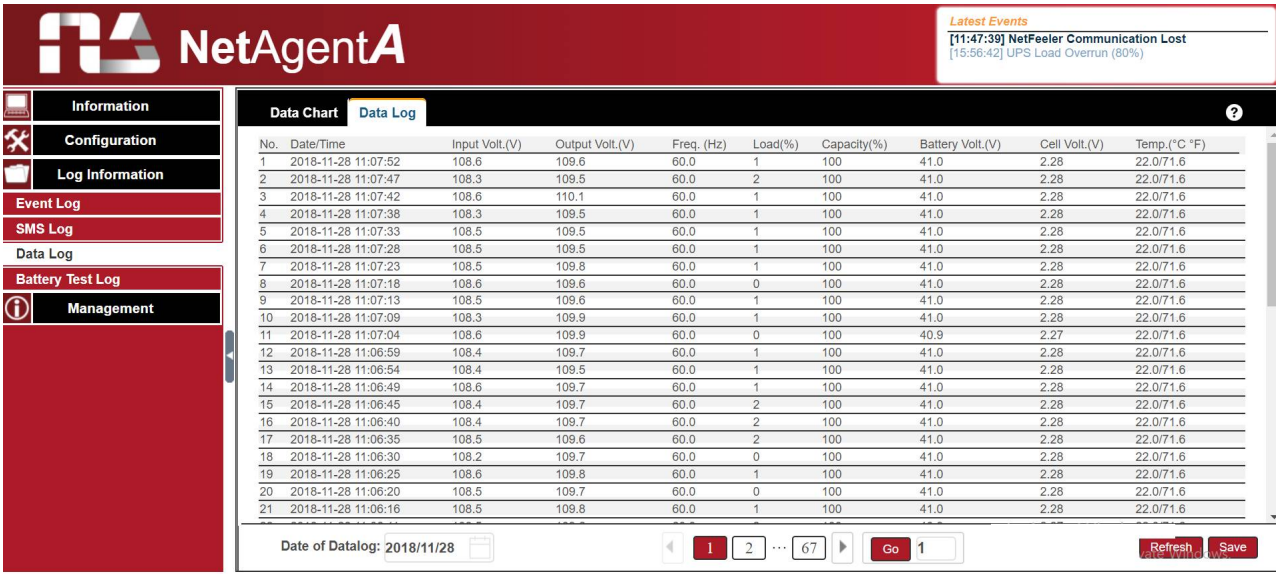
- **Data Chart**

It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature..etc in chart format. Logs can be saved in CSV format by clicking on “Save”. The bar on top can be adjusted to check the log status at specific time of the day.




- **Data Log**

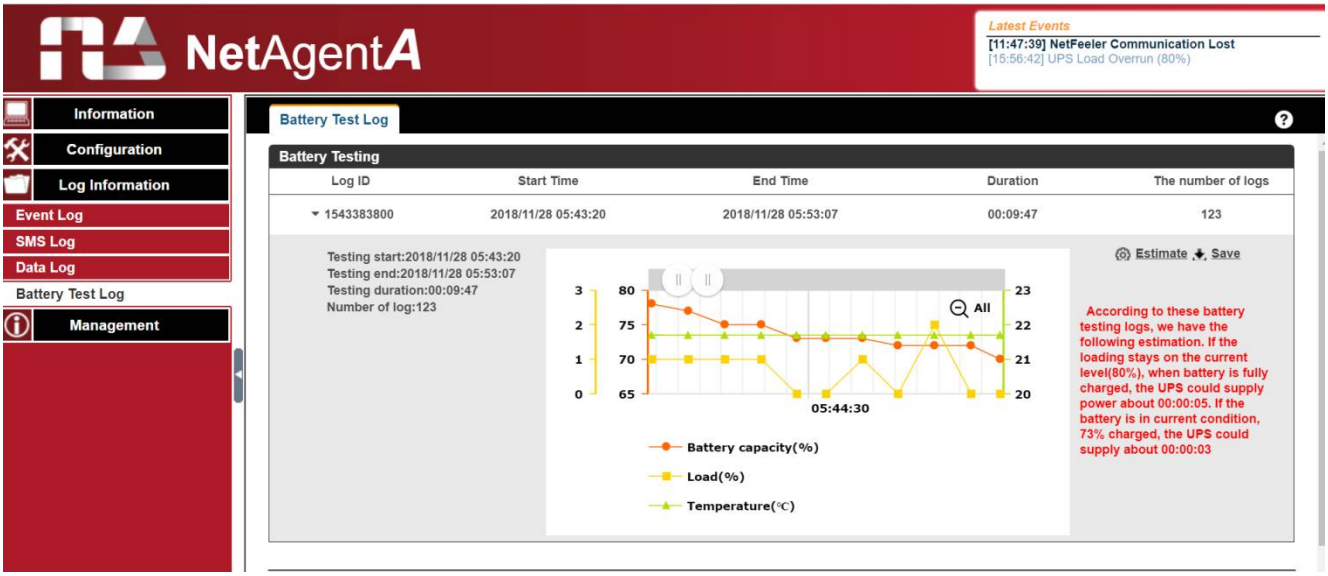
It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature..etc in detailed list. When NetFeeler is connected, status will be available too.



## ■ Log Information > Battery Test Log

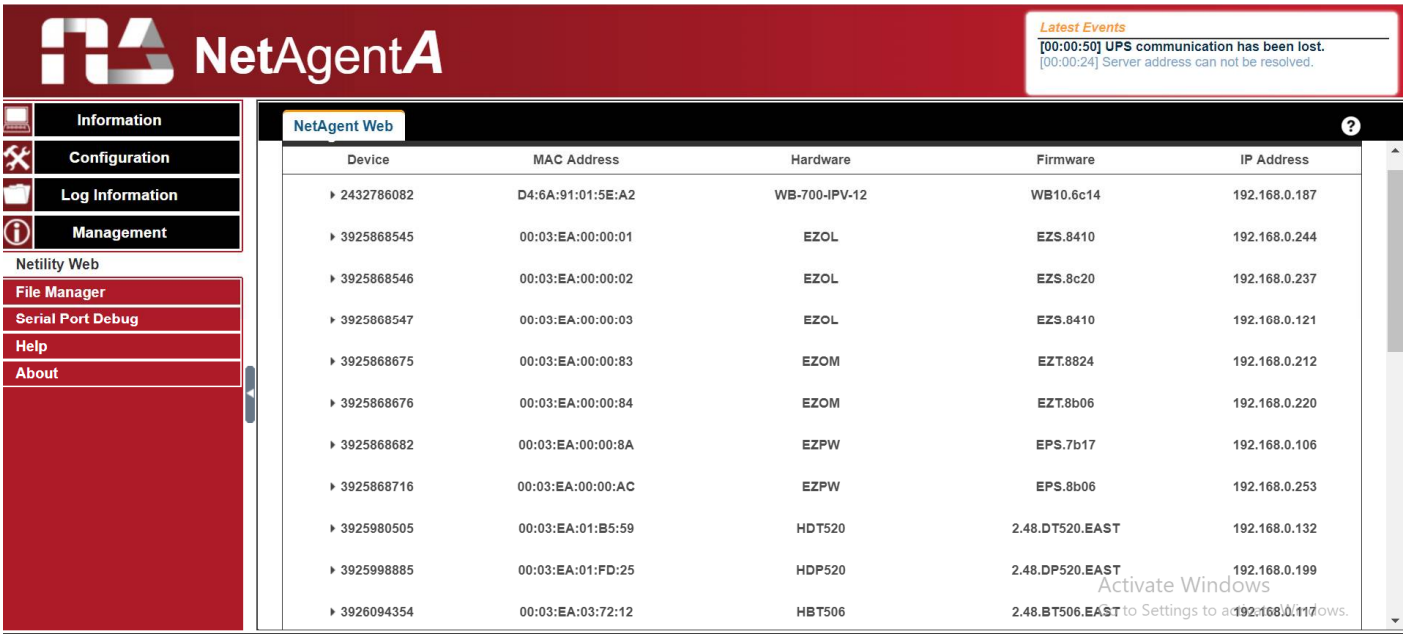
- **Battery Test Log**

To record the UPS Self-Test and it shows in graphic. UPS Self-Test option is available under System Information > Remote Control.



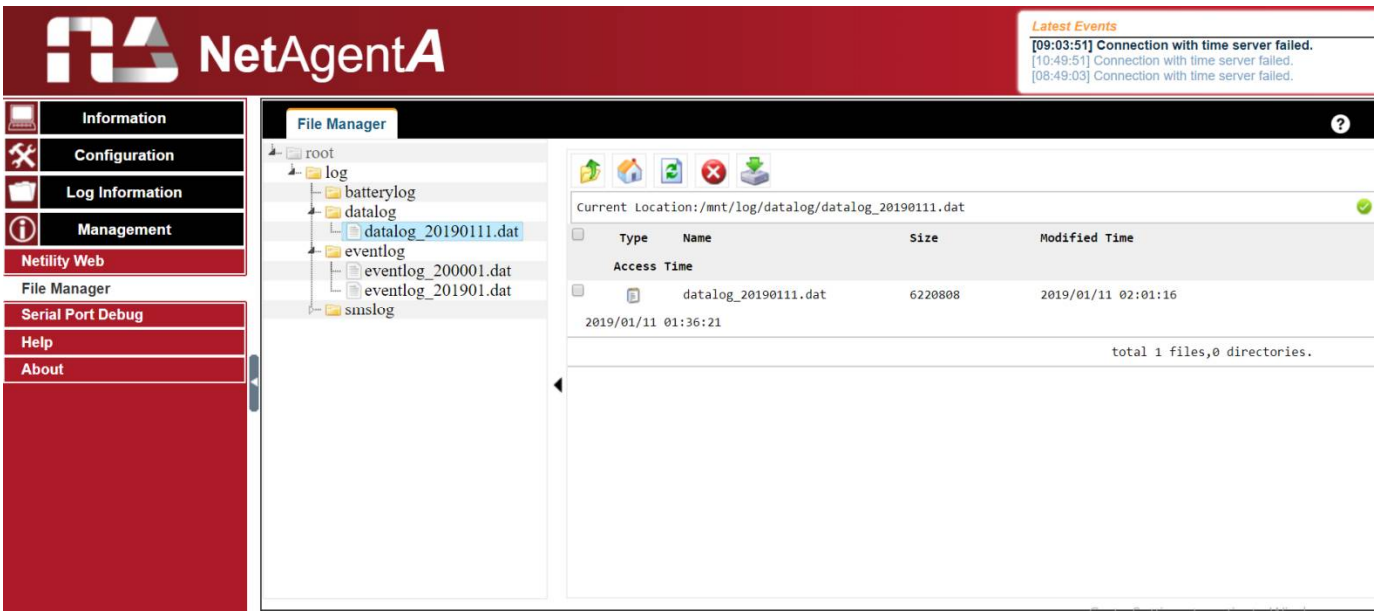

## ■ Management > Netility Web

This to display all the NetAgent*A* within network with its serial number; Mac Address; Hardware/Firmware version and its IP address. Double click on the highlighted unit to open the webpage of such device.
If the NetAgent*A* is access by WAN IP , Netility Web would also be able to list out all the other available NetAgent*A* under same LAN as the NetAgent*A* that has WAN IP. (HTTP port 81 must be enabled on the NetAgent*A* with WAN IP and domain to be as http://xxx.xxx.xx:81 ( xxx.xx is the WAN IP or domain name)



## ■ Management > File Manager

This is manage log file generates by NetAgent*A*. Specific log.dat can be download, delete. Once dat. file is deleted, the log record will also be erased on the Log display under Log Information




## ■ Management > Serial Port Debug

It shows the communication status between NetAgent*A* and UPS by Sent and Received columns.

- **Debug Information**

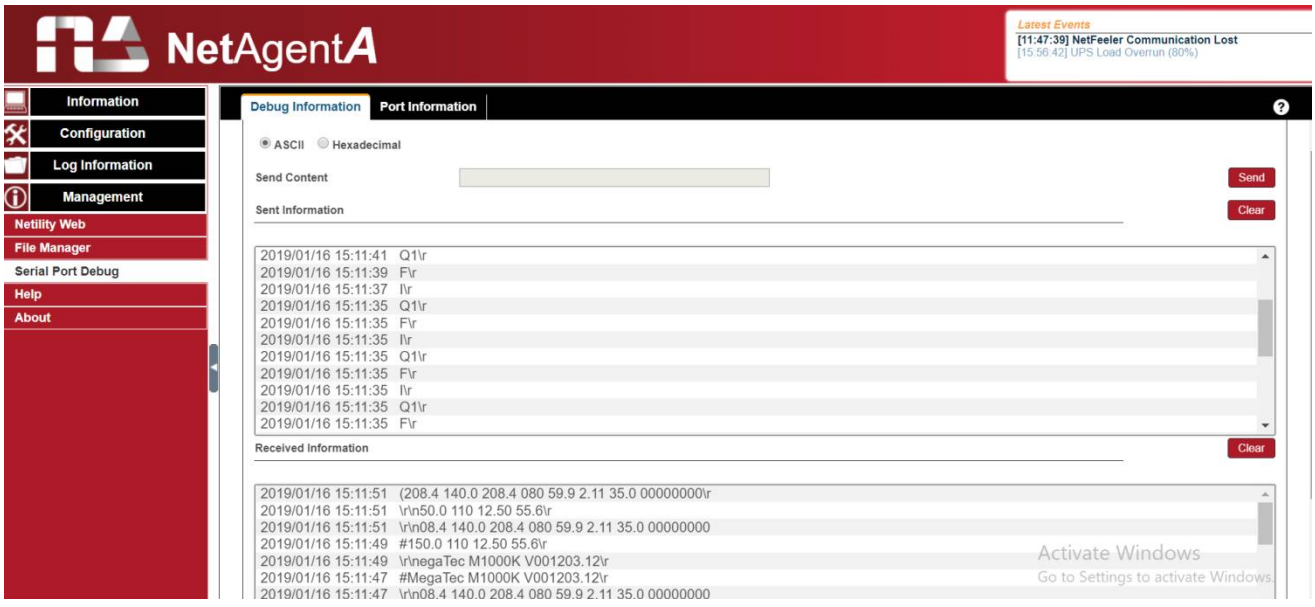
Command can send automatically by NetAgent*A*, or manually enter the command to UPS.

**Sent Information**

This column shows the real time sent command

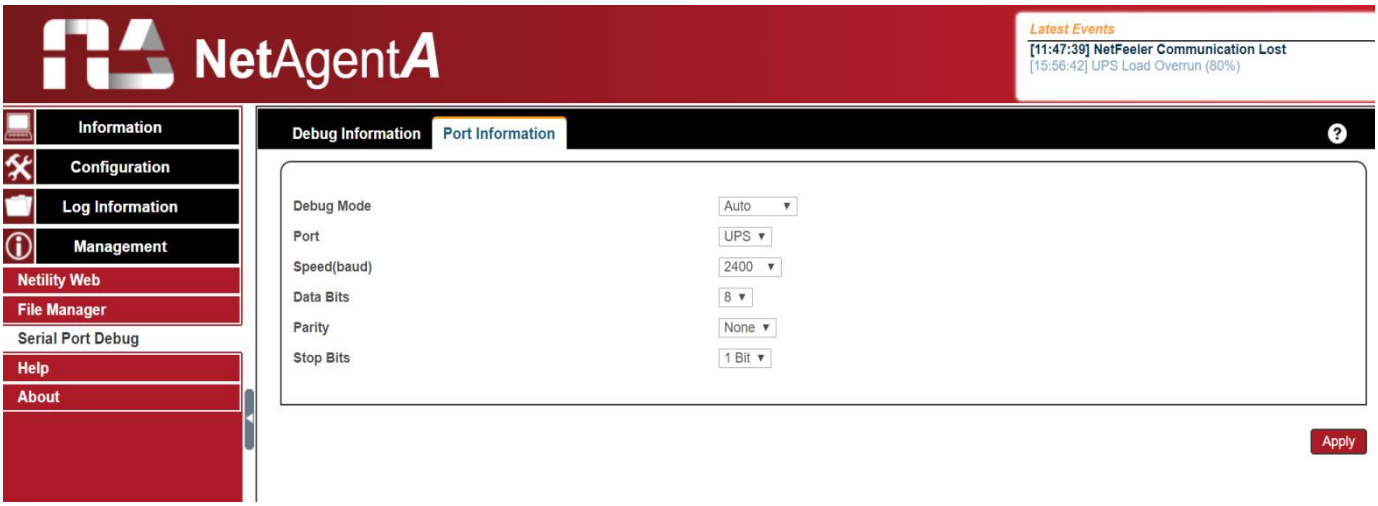
**Received Information**

This display the response that NetAgent*A* receives from UPS



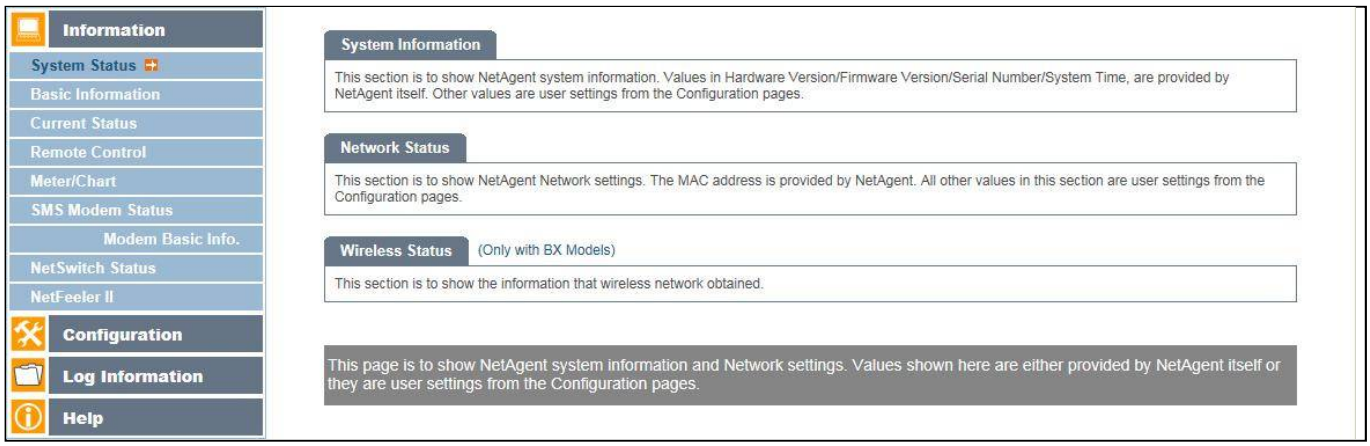
- **Port Information**

This is to configure the communication parameter between NetAgent*A* and UPS. Parameters are Debug Mode; Port; Speed (Baud), Data Bits;Parity and Stop Bits. Two encoding formats: ASCII or Hexadecimal.




■ **Management > Help**

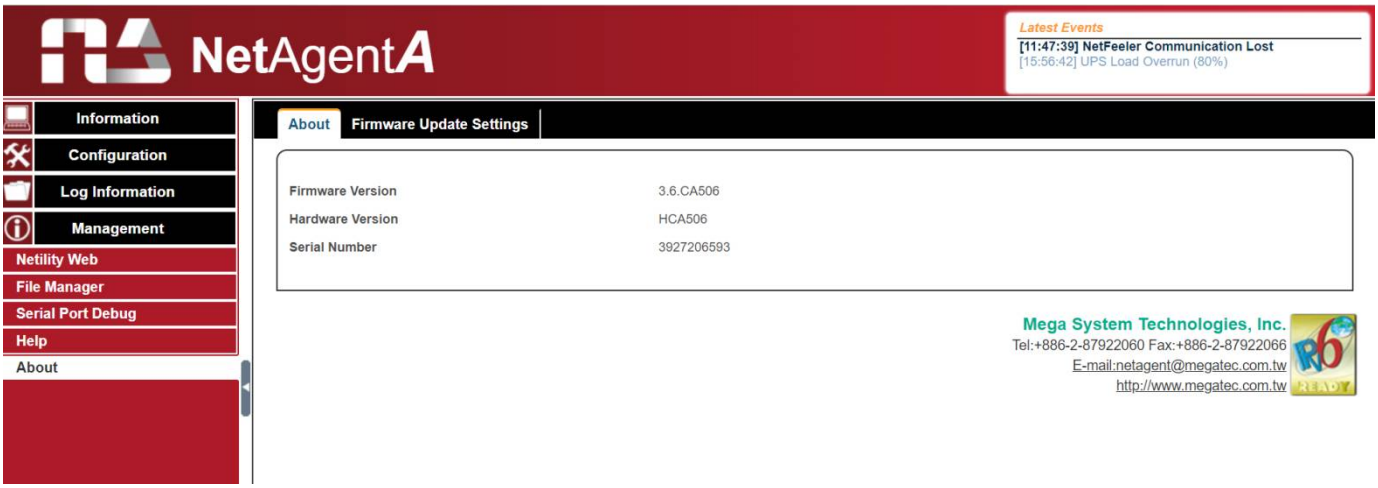
This is to help to illustrate each feature/option that NetAgent*A* offers




■ **Management > About**

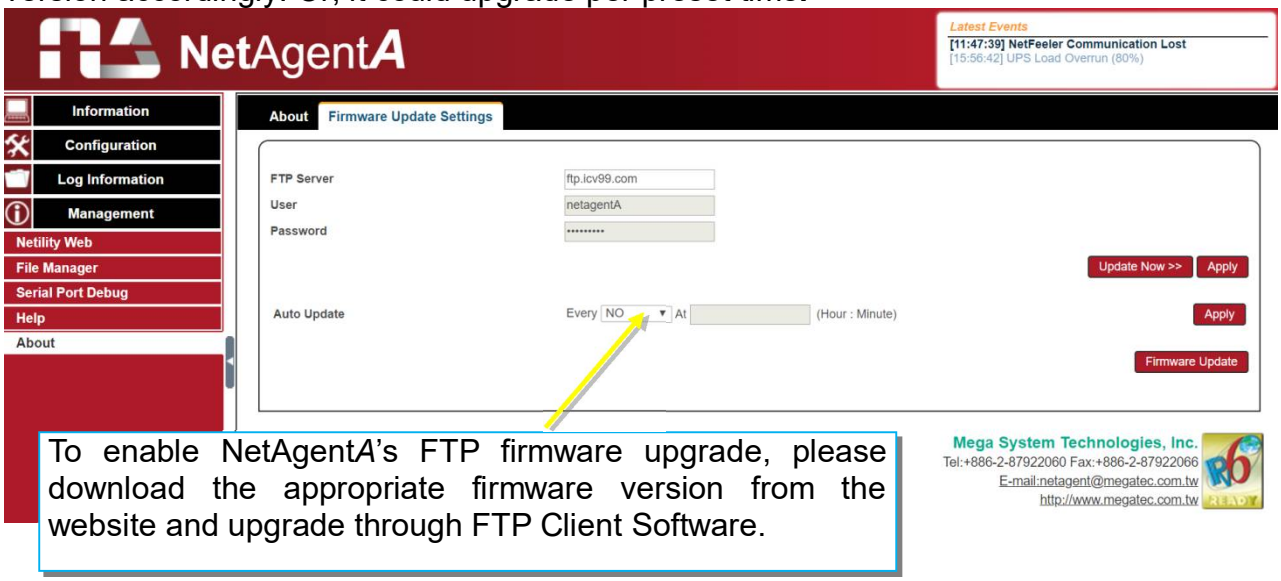
- **About**

It shows NetAgent*A*'s hardware/firmware and serial number.



- **Firmware Update Settings**

Default FTP server is set as ftp.icv99.com with its username/password. Click on Update Now, NetAgent*A* will connects to the FTP server and upgrade to the latest firmware version accordingly. Or, it could upgrade per preset time.

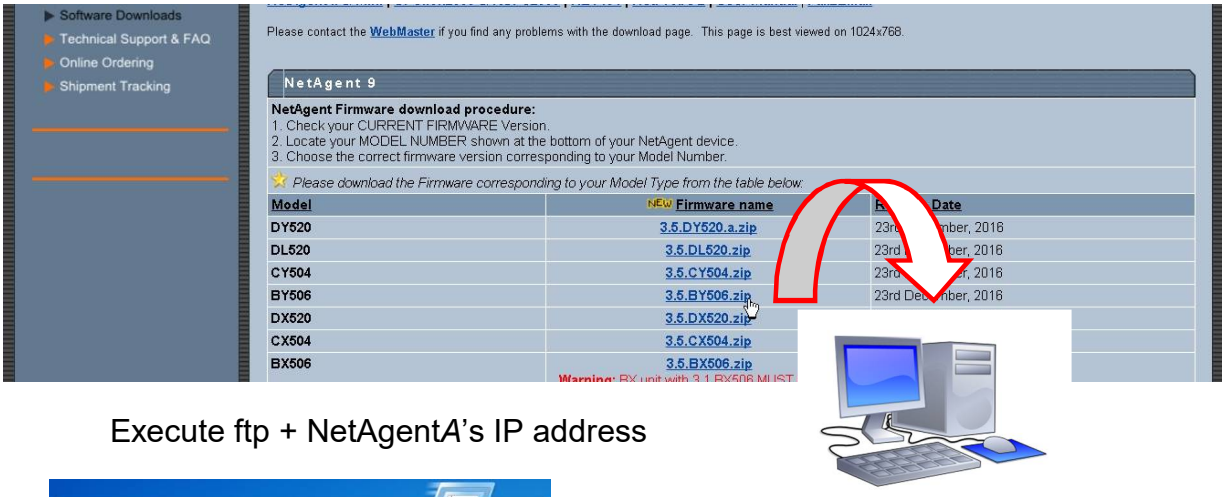



*Update Firmware from FTP Client*

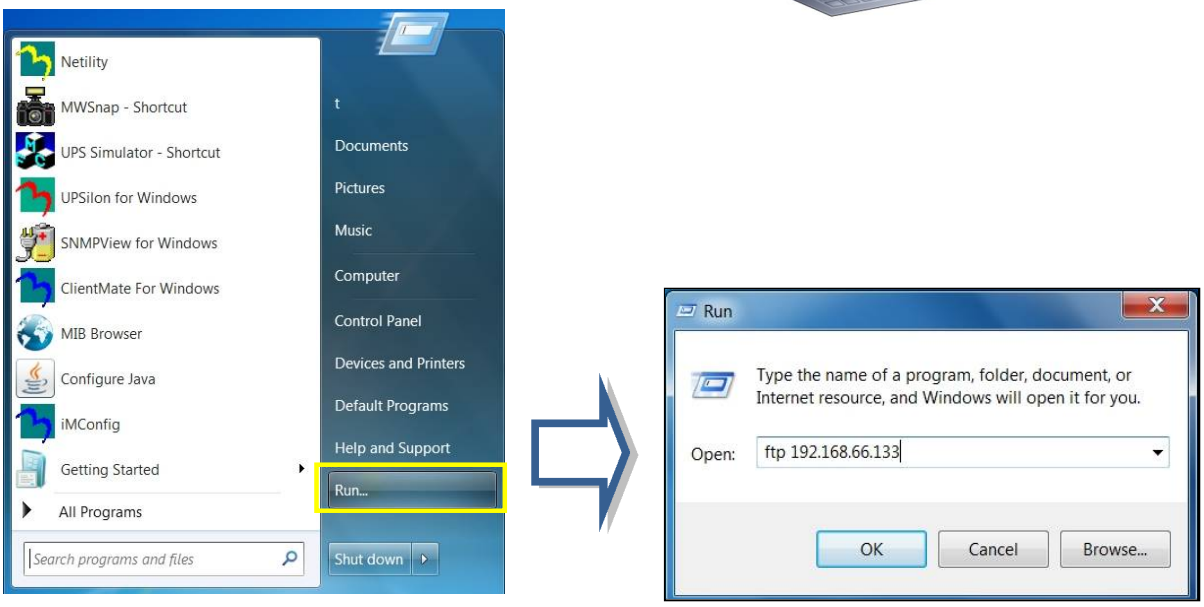
-Select on Enable

-Download the appropriate firmware version from website (http://www.megatec.com.tw)

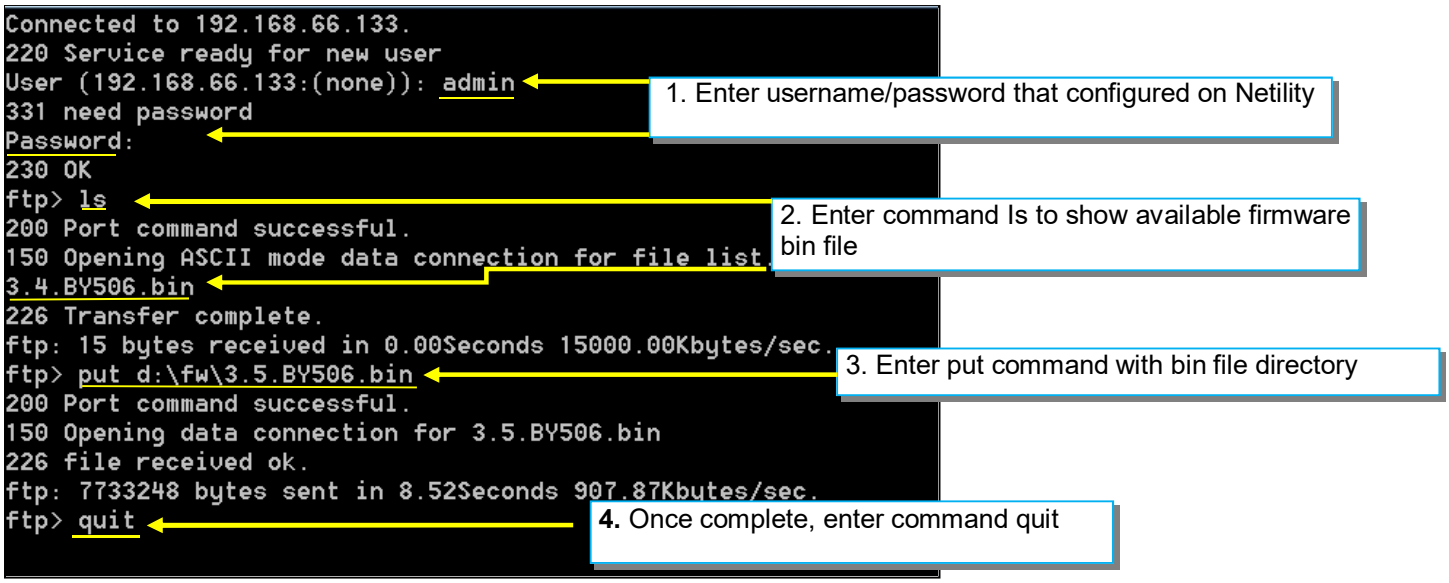
-Unzip the file and known the directory path




Execute ftp + NetAgent*A*'s IP address



-FTP login


Connected to 192.168.66.133.
220 Service ready for new user
User (192.168.66.133:(none)): admin
331 need password
Password:
230 OK
ftp> ls
200 Port command successful.
150 Opening ASCII mode data connection for file list.
3.4.BY506.bin
226 Transfer complete.
ftp: 15 bytes received in 0.00Seconds 15000.00Kbytes/sec.
ftp> put d:\fw\3.5.BY506.bin
200 Port command successful.
150 Opening data connection for 3.5.BY506.bin
226 file received ok.
ftp: 7733248 bytes sent in 8.52Seconds 907.87Kbytes/sec.
ftp> quit
1. Enter username/password that configured on Netility
2. Enter command ls to show available firmware bin file
3. Enter put command with bin file directory
4. Once complete, enter command quit