NetAgent*A*

UPS SNMP Agent

User's Manual

User Guide for NetAgent*A* Mini

Version 1.0

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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

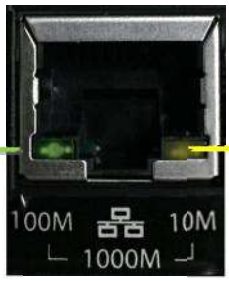
NetAgent*A* Mini Model									
Model Name	**Package Contents**	**Internal**	**External**	**RJ45**	**RS232**	**ENV**	**USB**	**Single Phase**	**Three Phase**
DA520	1. NetAgentA*A* Mini SNMP Card 2. NetAgentA Utility CD 3. Quick Installation Guide (Optional)	V		V				V	V
DA806	1. NetAgentAA Mini SNMP Card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

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

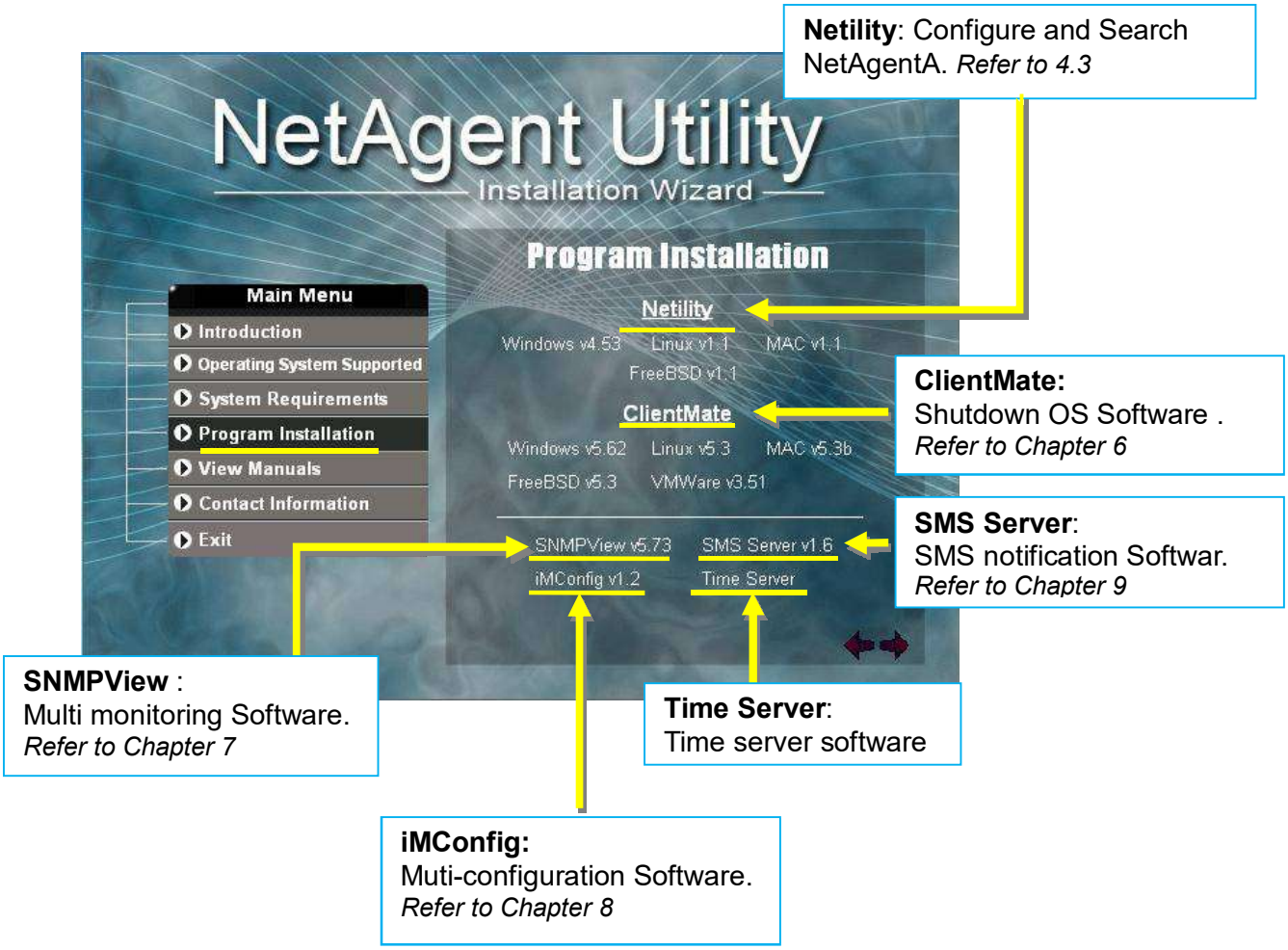
Yellow	
NetAgentA Mini 9 Status	
On	Off
Operating	Stop Working

Status	Power On	Lost Communication	Writing Firmware
Yellow NetAgentA Mini 9 Status	On	On	Off
Red UPS Communication	Off	Flashing	Flashing
Green Power	On	On	On

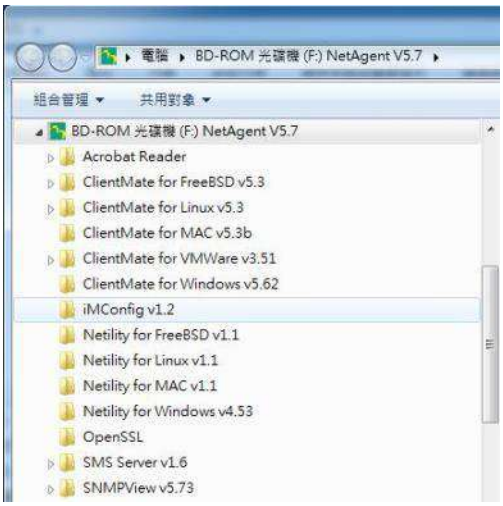
Chapter 3 Software Installation

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】**



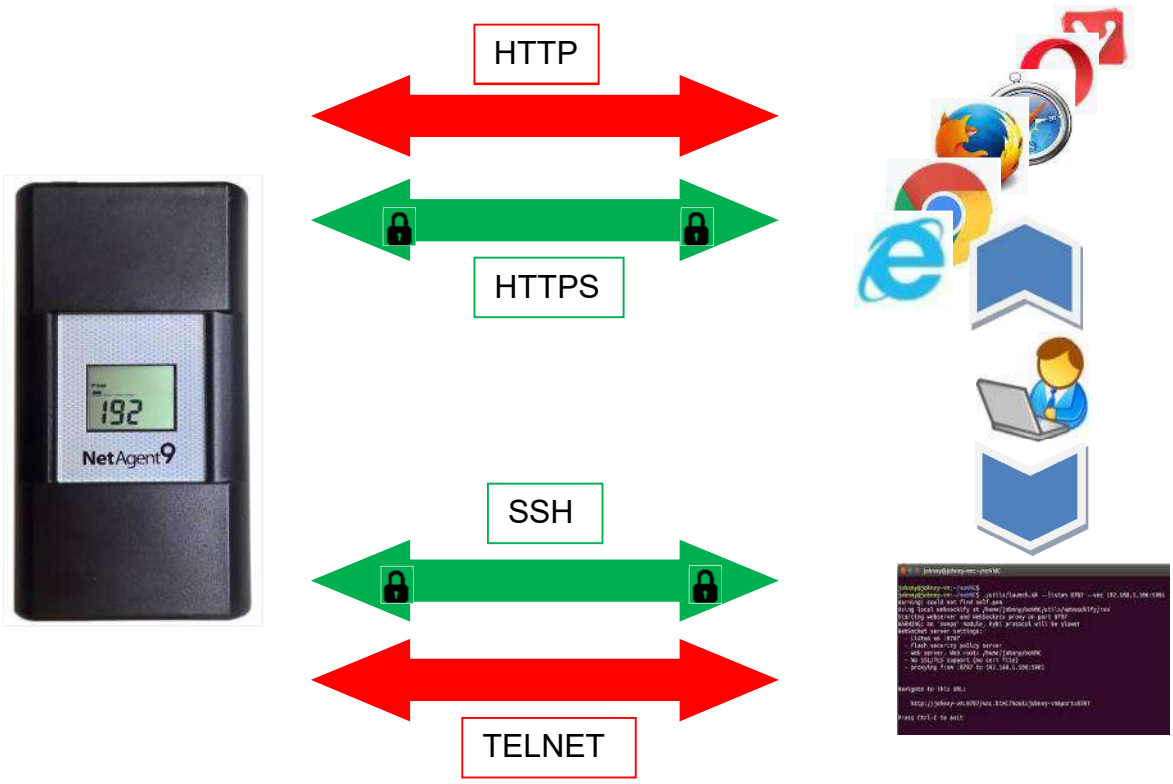
If the PC does not executes CD program automatically, please select from File Managment



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*

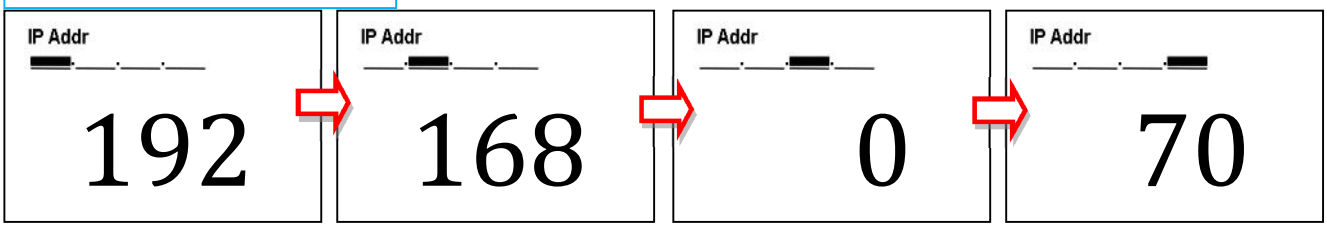
7.Enter other parameter on NetAgent*A* webpage

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

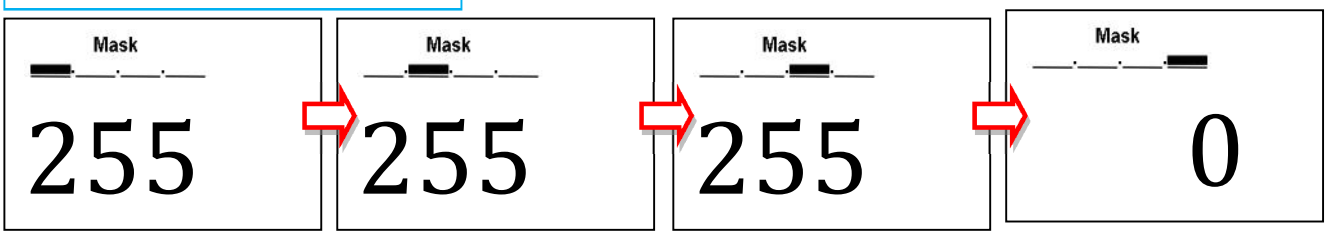
NOTE 2： NetAgent*A* with LCD display may obtain the IP info from it.

Example of LCD display format as below

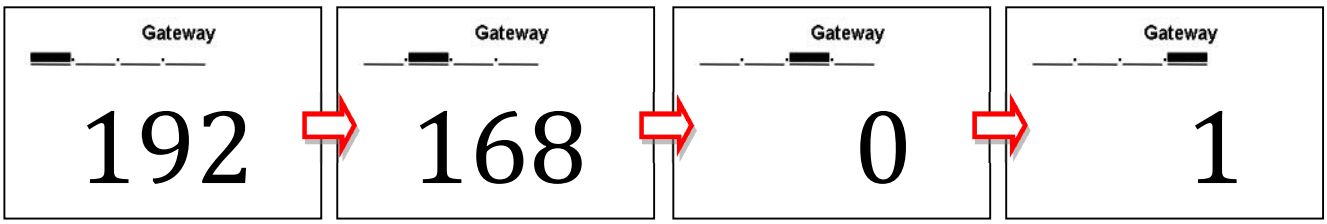
IP address 192.168.0.70



Subnet Mask: 255.255.255.0



Gateway:192.168.0.1

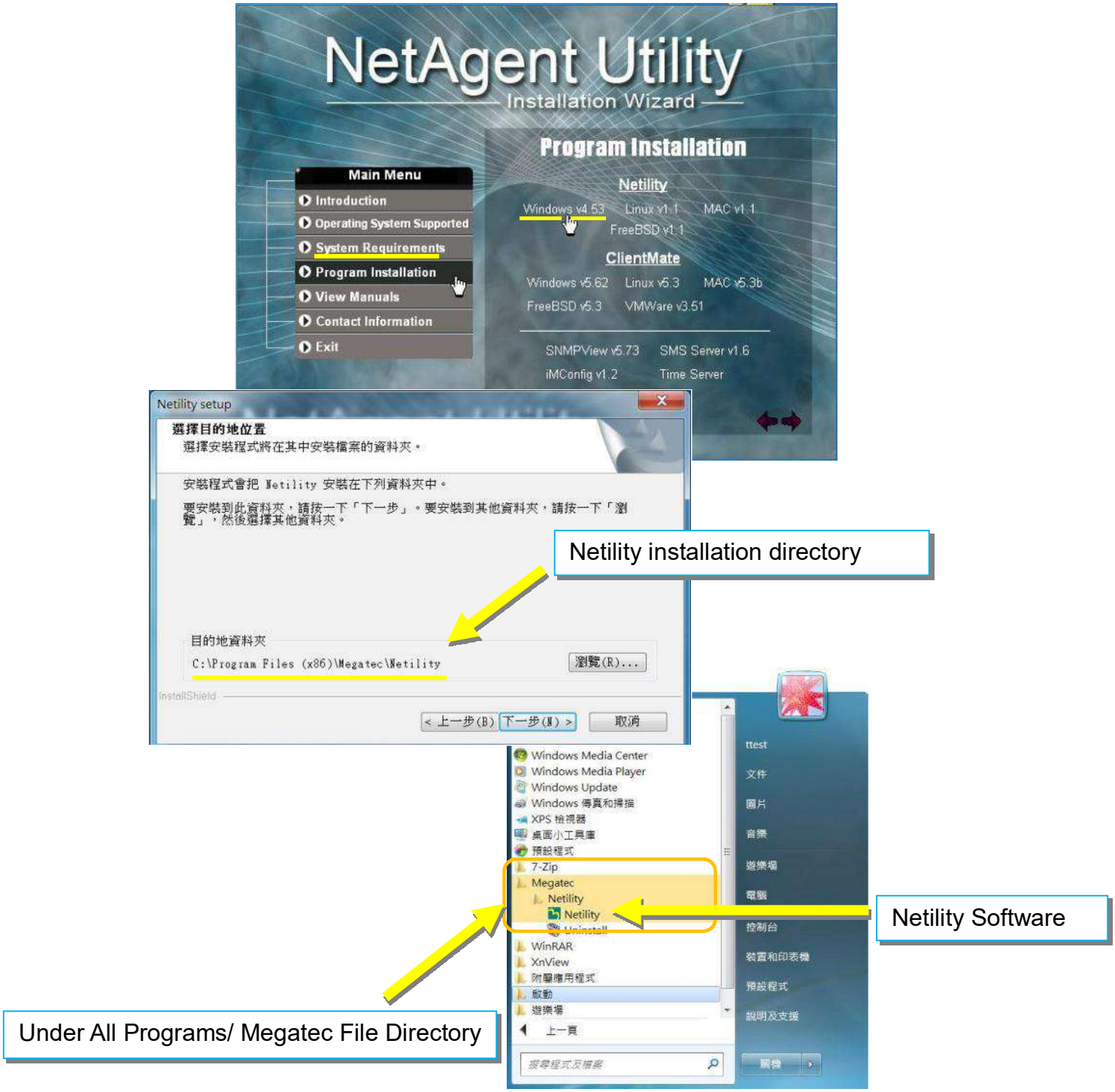


When NetAgent*A* IP is known, enter such IP address on the browser to login. If non-LCD NetAgentA model, install Netility software to find and configure its IP address.

4.3 Netility Installation and Setting

■ **Netility Installation**

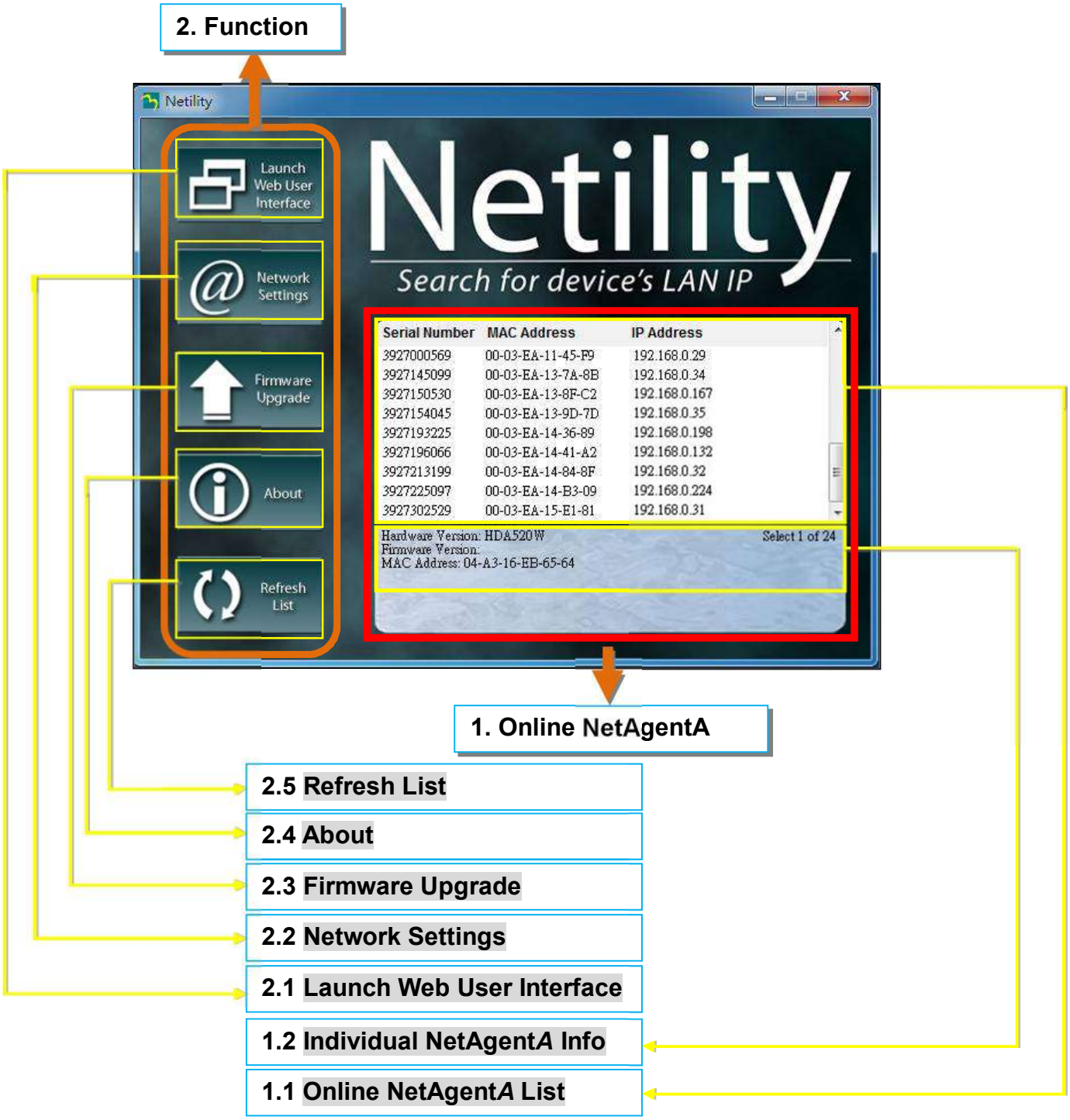
Netility is tool software that helps the user to search all the available NetAgent*A* within network as well as to configure IP address and firmware upgrade. Mount the NetAgent*A* Utility CD on CD-ROM and click on Program Installation>Netility>Windows



■ Netility Operation and Setting

Netlity main pages divided into 2 sections:

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

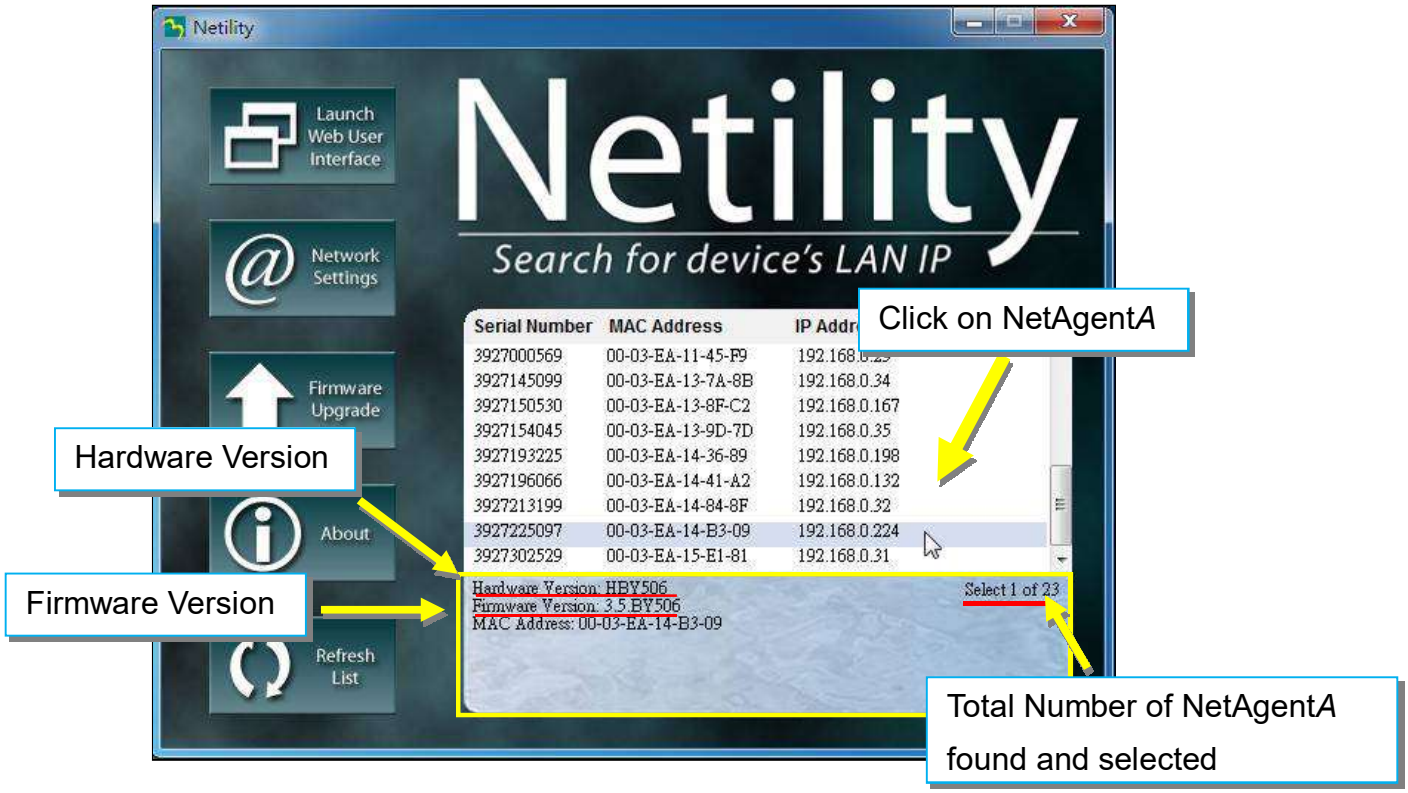


1.1 Online NetAgent*A* List

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

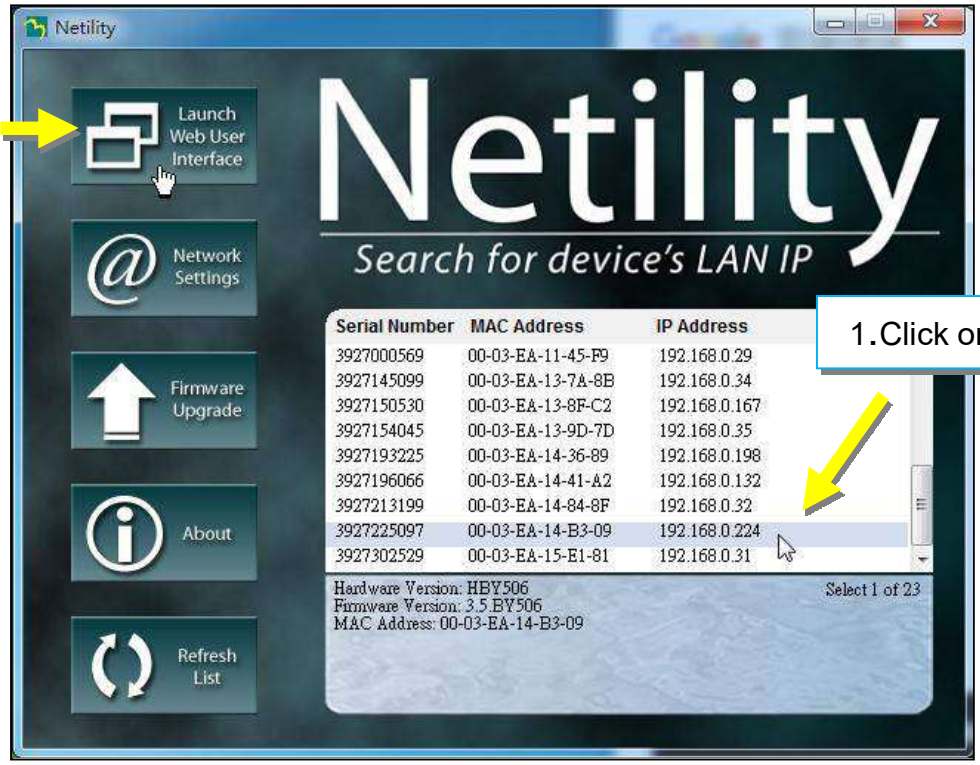
Click on specific NetAgent*A* , the bottom column shows its hardware , firmware version and MAC address. It also shows the total NetAgentA number that found by Netility and selected



2.1 Launch Web User Interface

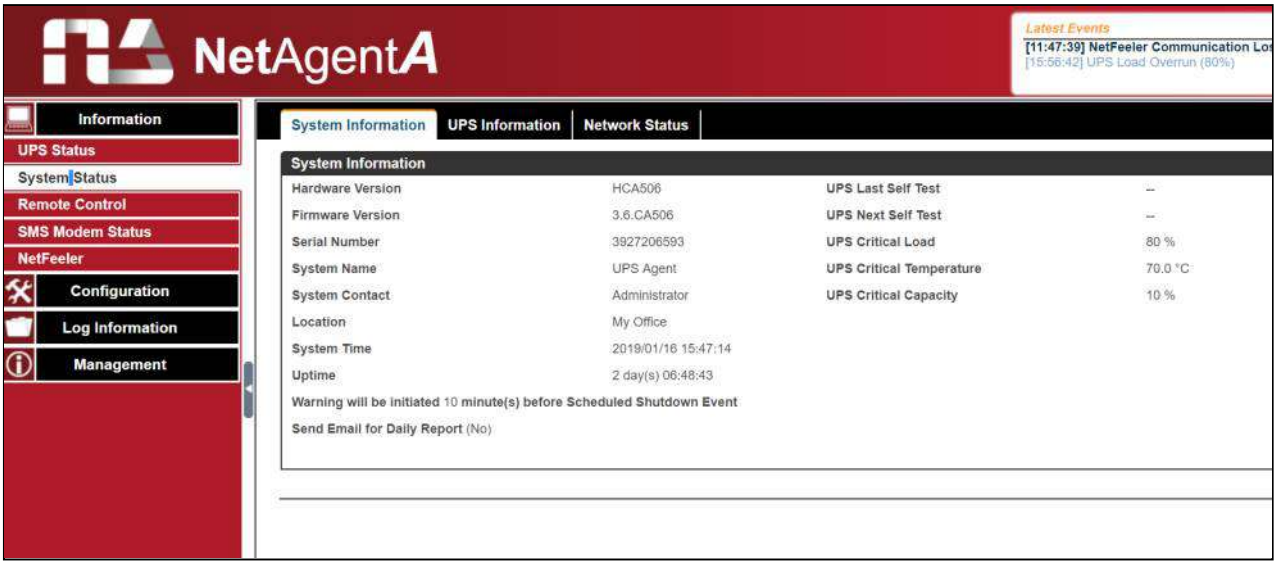
Select specific NetAgent*A* from the list and click on Launch Web User Interface to login to the NetAgentA's webpage

2. Click on Launch Web User Interface



1.Click on NetAgent*A*

Login to the webpage of such NetAgent*A*



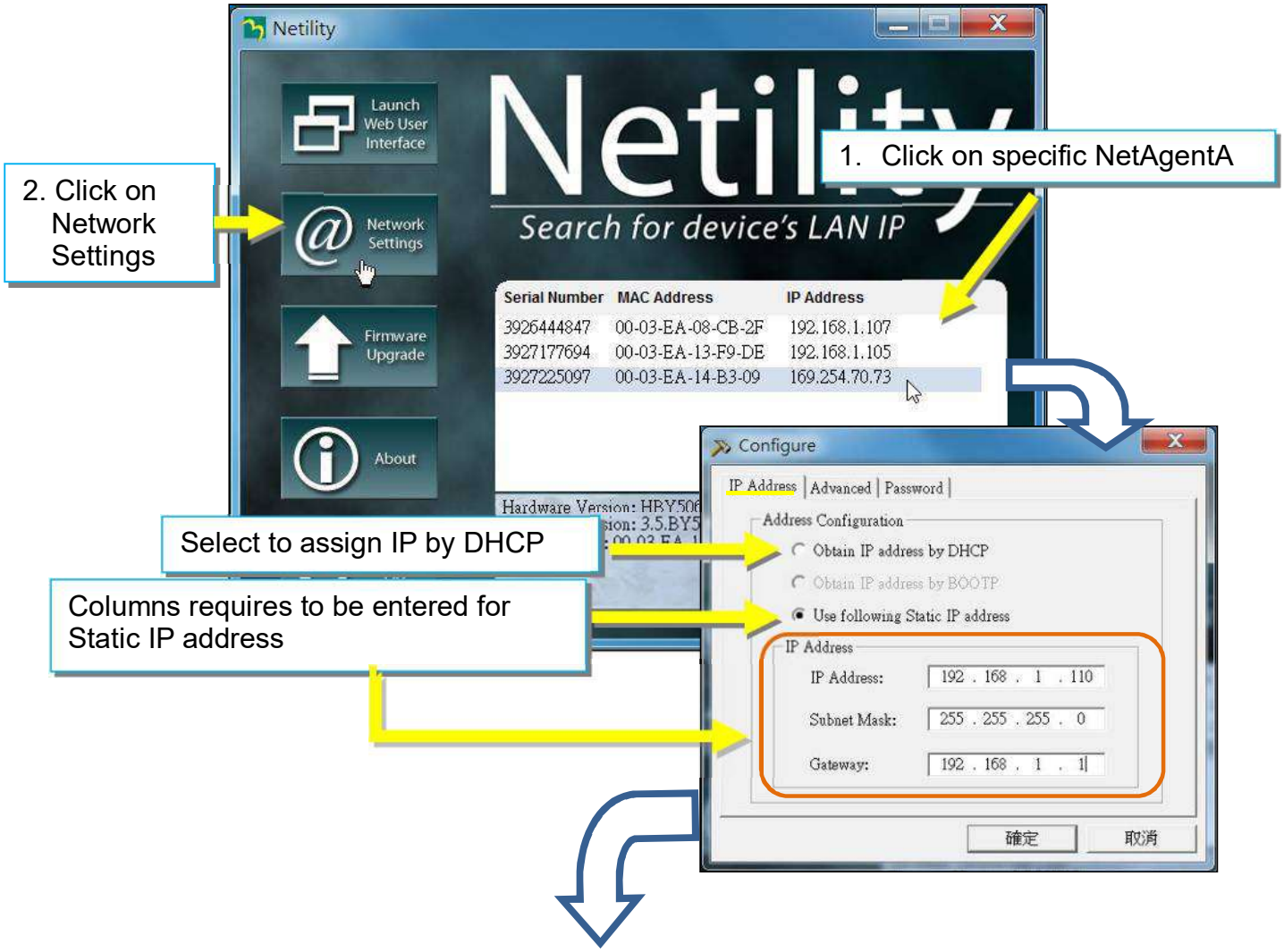
2.2 Network Settings

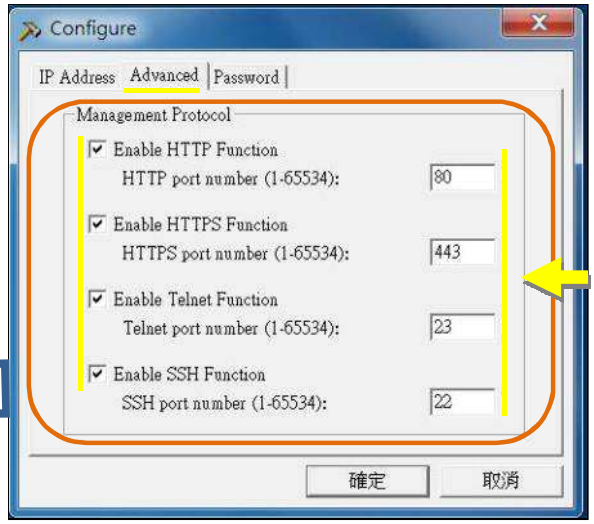
- When connecting the NetAgent*A* for the first time, ensure IP address and other network setting are correctly entered in order to login to the NetAgent*A*'s webpage via browser or HyperTerminal

- 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

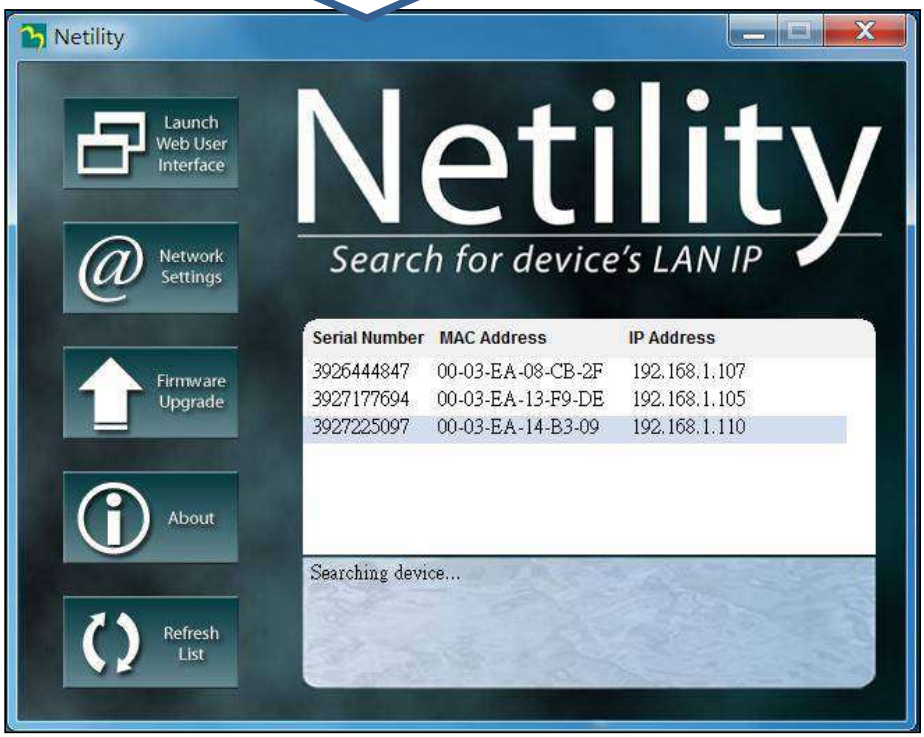




Default port for each protocol

Enter password

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

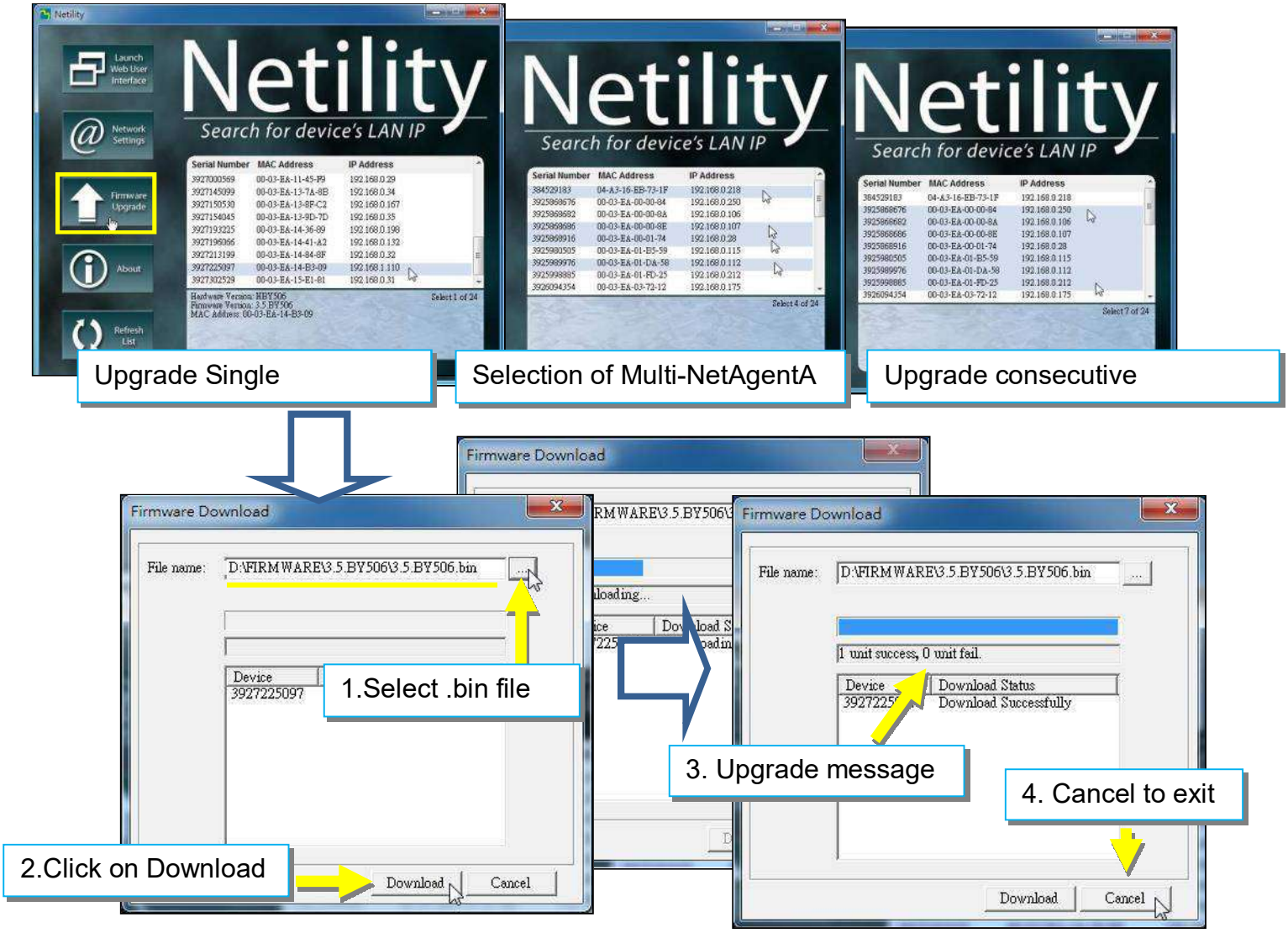


2.3 Firmware Upgrade

- This is to upgrade or re-load the firmware to the NetAgent*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**

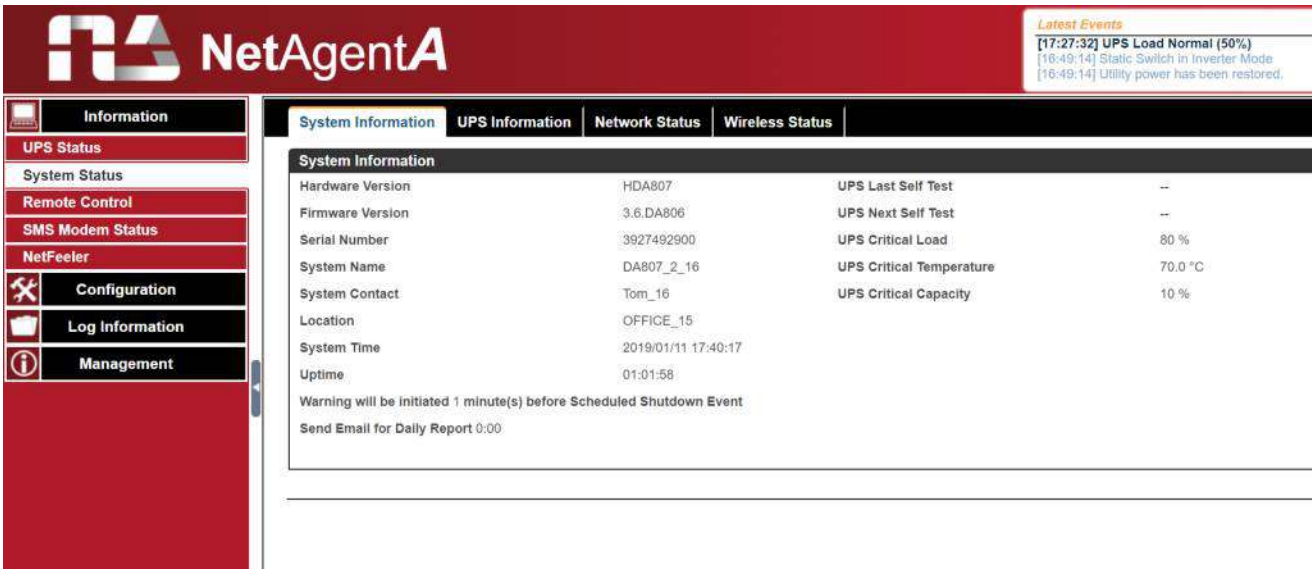
- **UPS Status**

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

- **Information > System Status**

- **System Information**

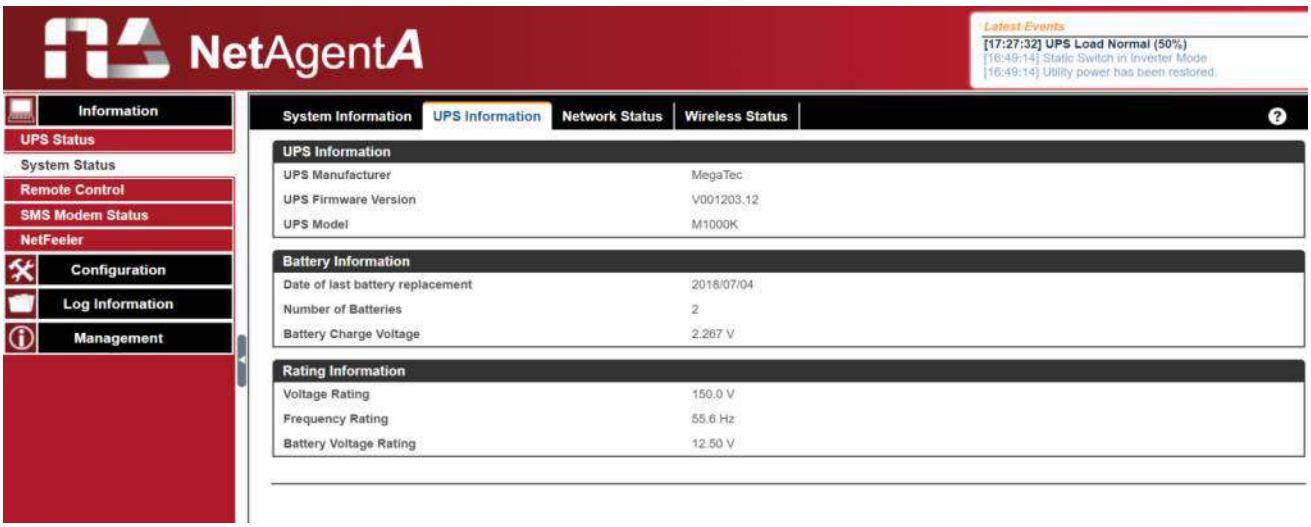
Here shows all the basic information of the NetAgent*A* such as hardware / firmware version; Serial Number; Uptime…etc.



■ Information > System Status

- **UPS Information**

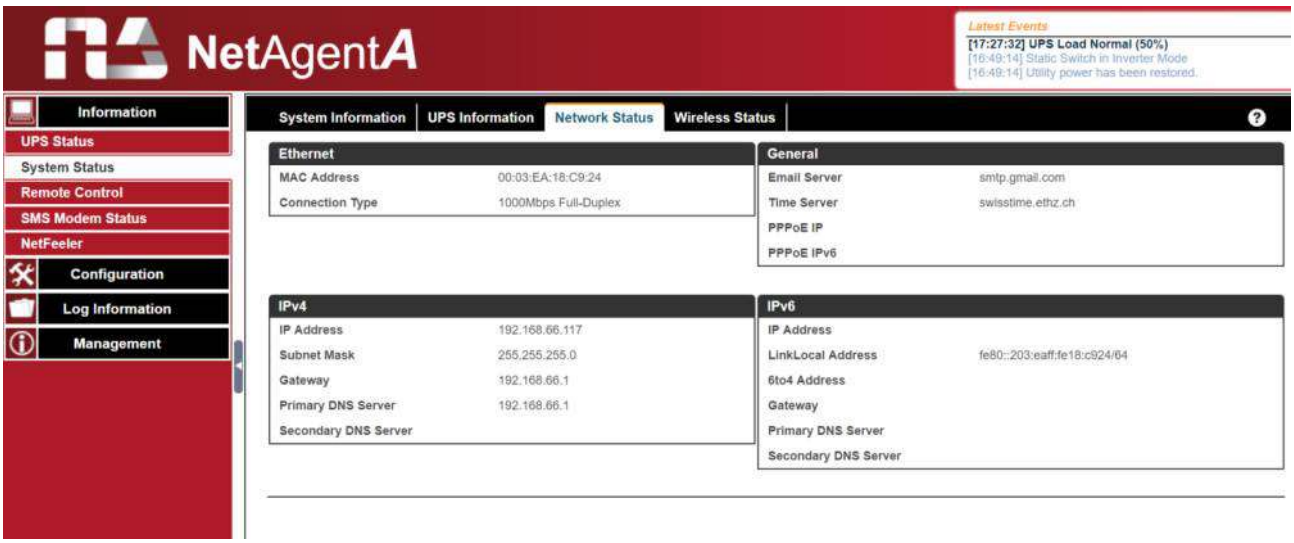
This page shows UPS information/Battery Information/Rating Information. The data is obtained from the reply of UPS or the settings from [UPS Configuration] webpage



■ Information > System Status

- **Network Status**

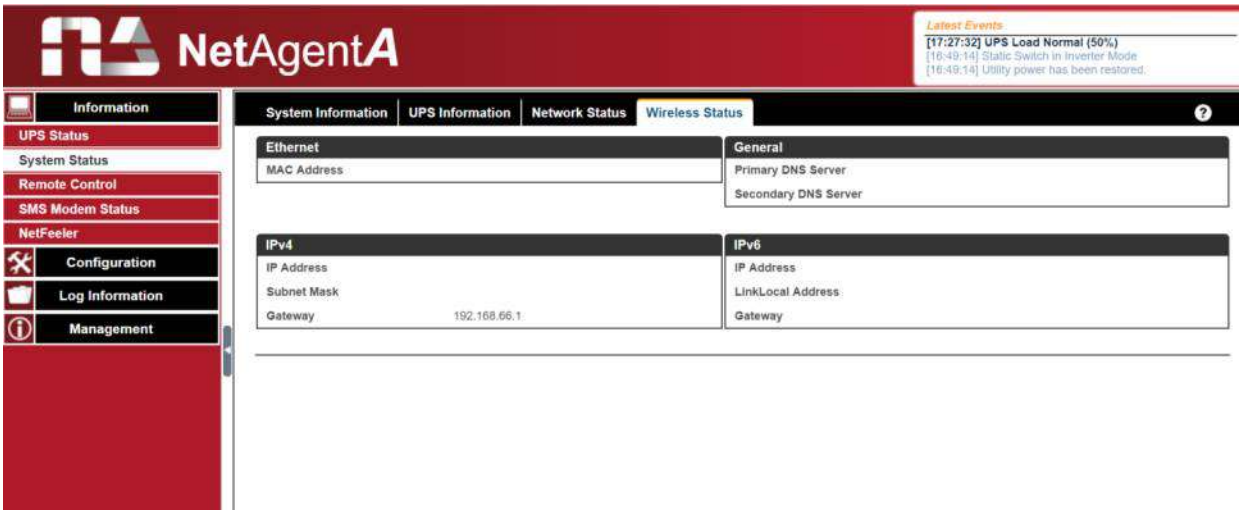
This page shows the network information of NetAgent*A*.



■ Information > System Status

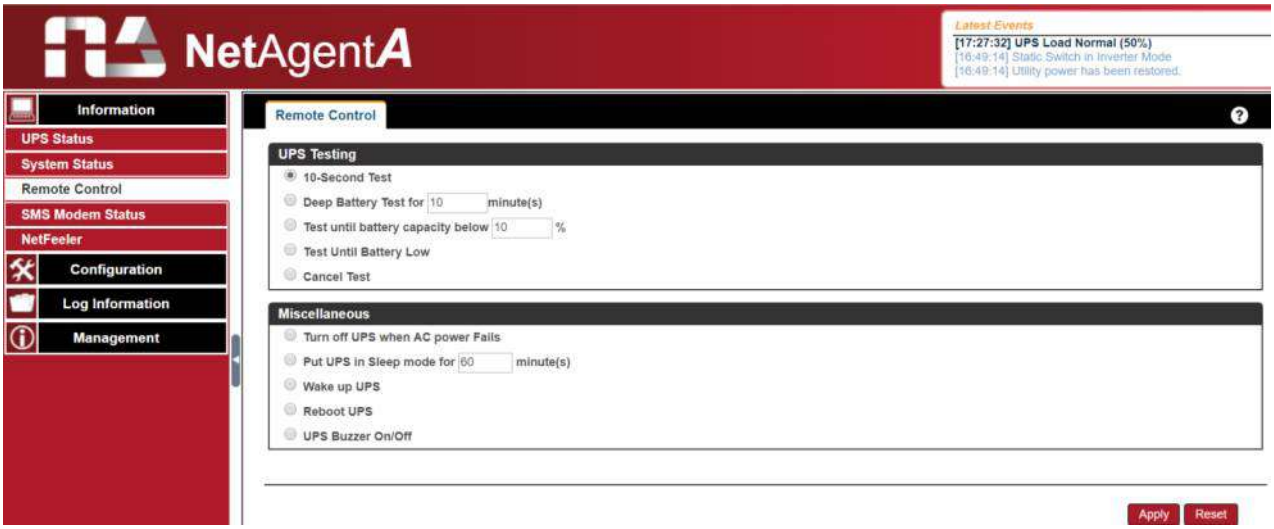
- **Wirelss Status**

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



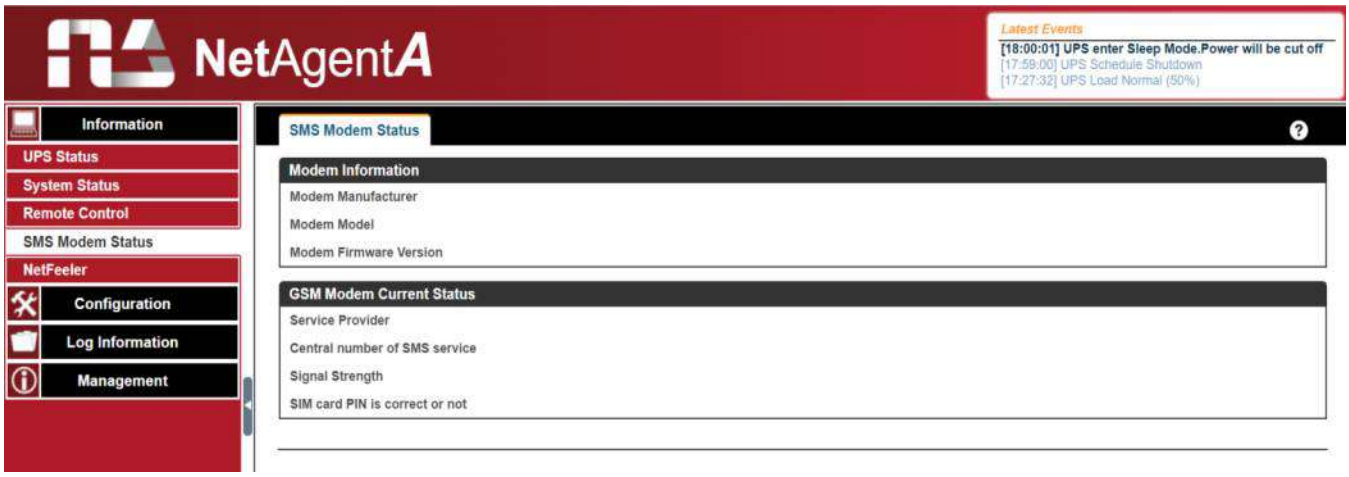
■ Information > Remote Control

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



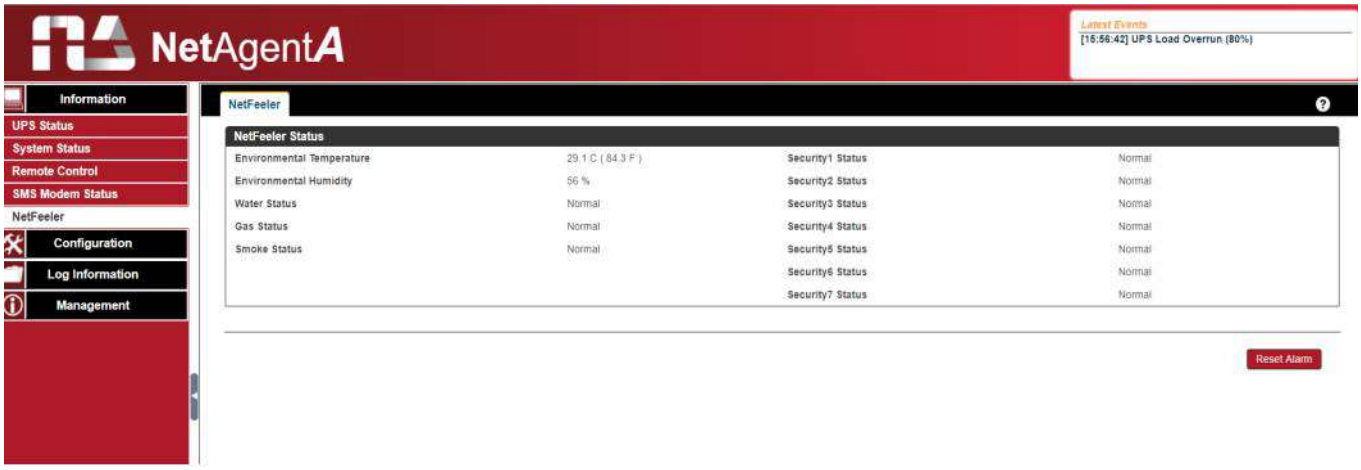
■ **Information > SMS Modem Status**

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) :

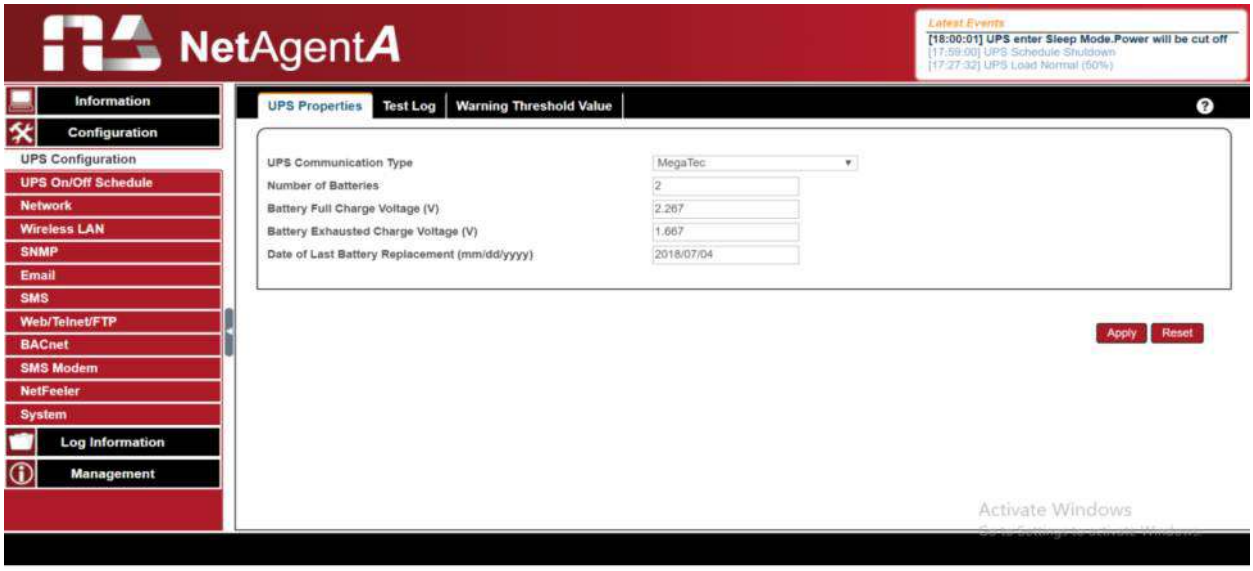
Enter the number of the full charged voltage per battery cell. (2.267 is default, this is recommended not to be change)

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)

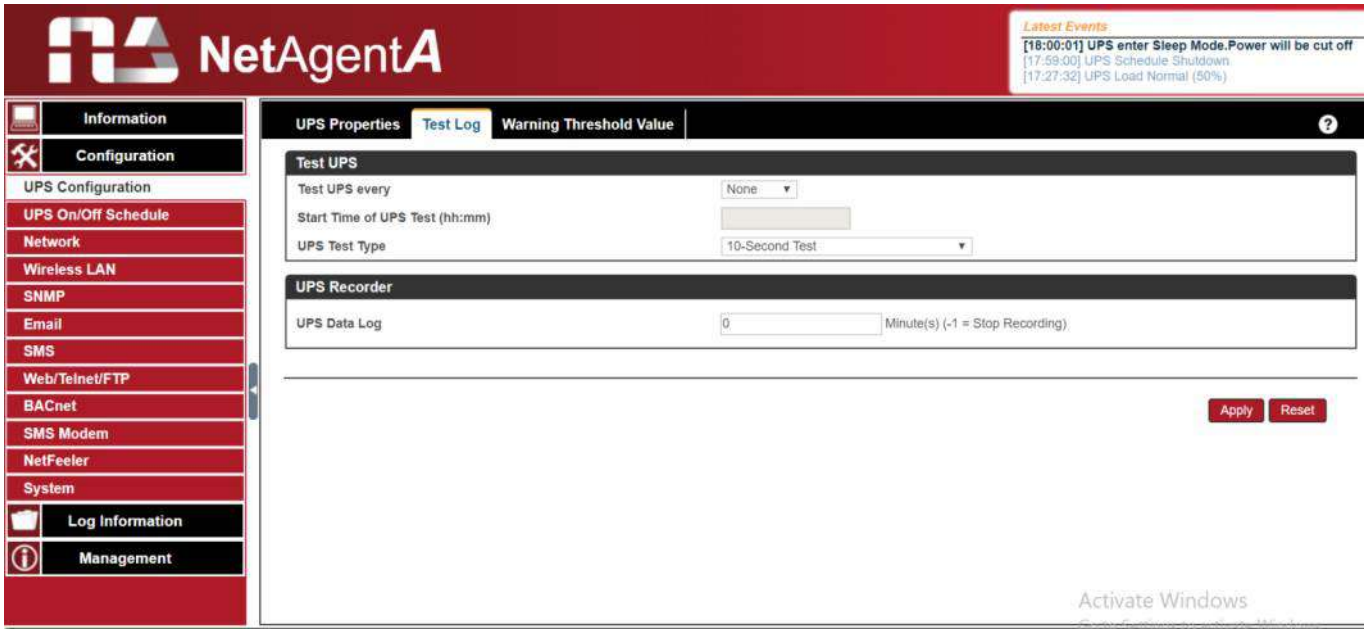
Date of Last Battery replacement(mm/dd/yyyy) :

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

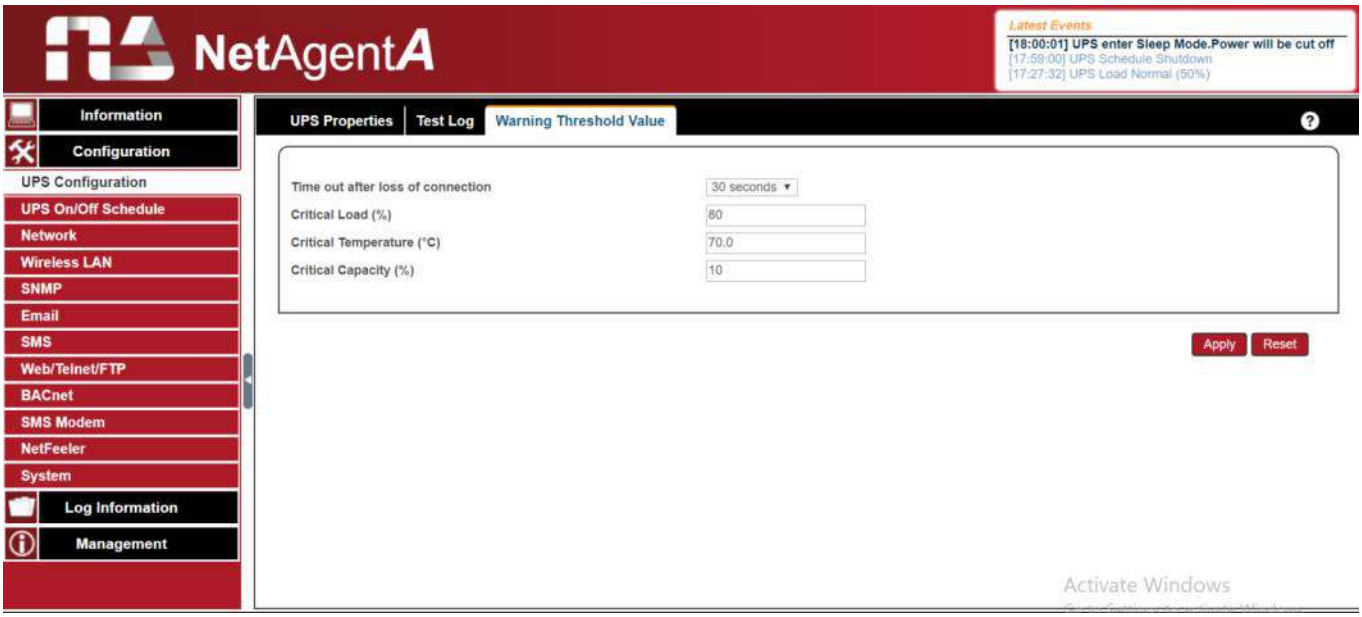


- **Warning Threshold Values**

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

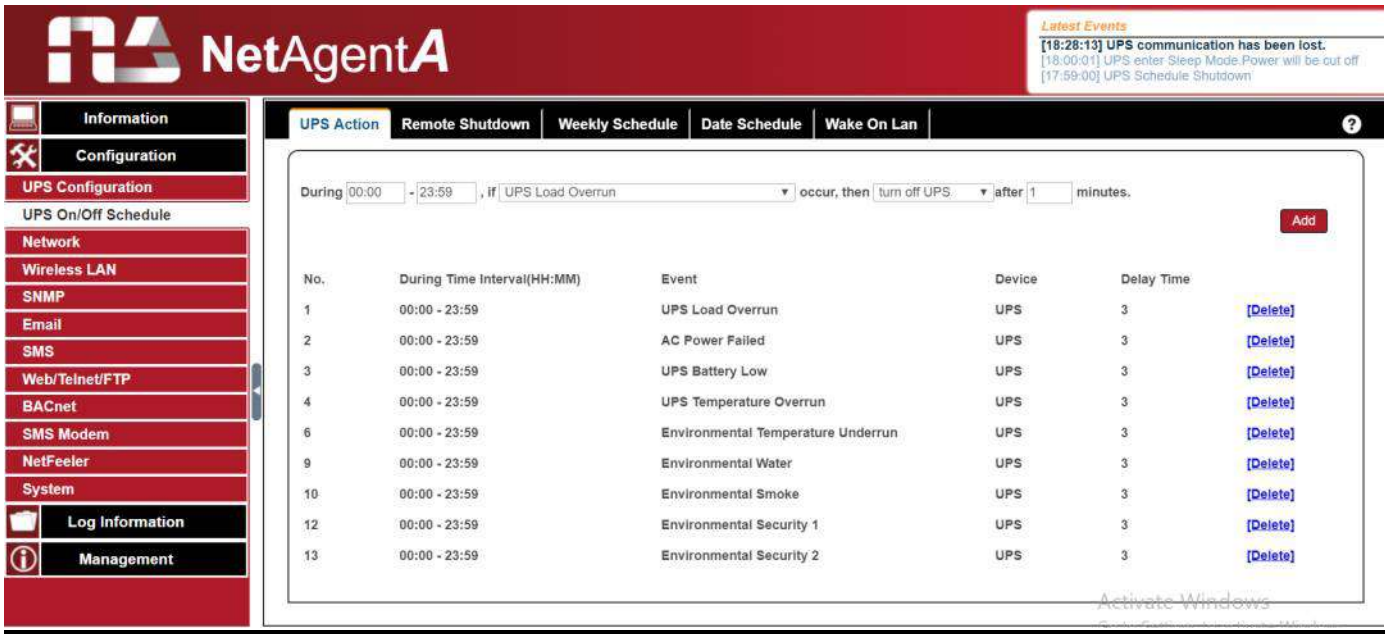
Critical Capacity (%)：
When UPS battery capacity reaches at this % configured, NetAgent*A* will send warning alarm



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

- **UPS Action**

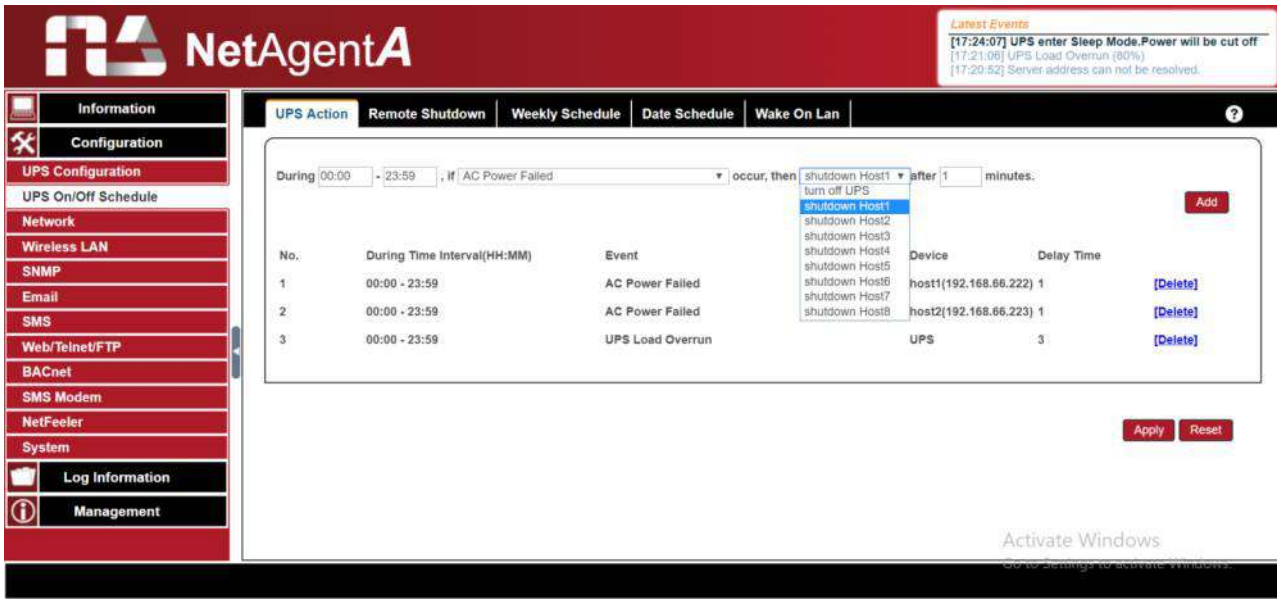
When selected event happens at configured time range, UPS will be shut down



- **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. (Telner Server must be enabled on the PC)

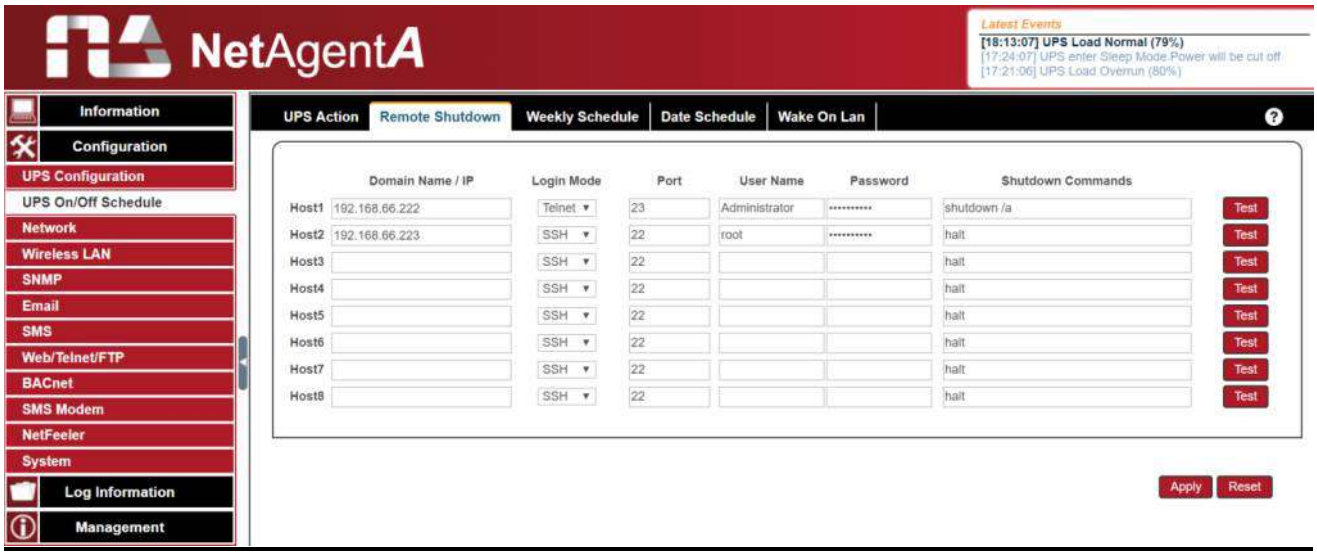
For example: To shutdown Host 1 (Windows server) and Host 2 (Linux server) after 1 minute when AC power failed.
First, go to UPS Action tab, select event of “AC Power Failed” then select “shutdown Host 1 “ , press on Add. The action will be add in the list. Then the same for Host 2, select event of “AC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

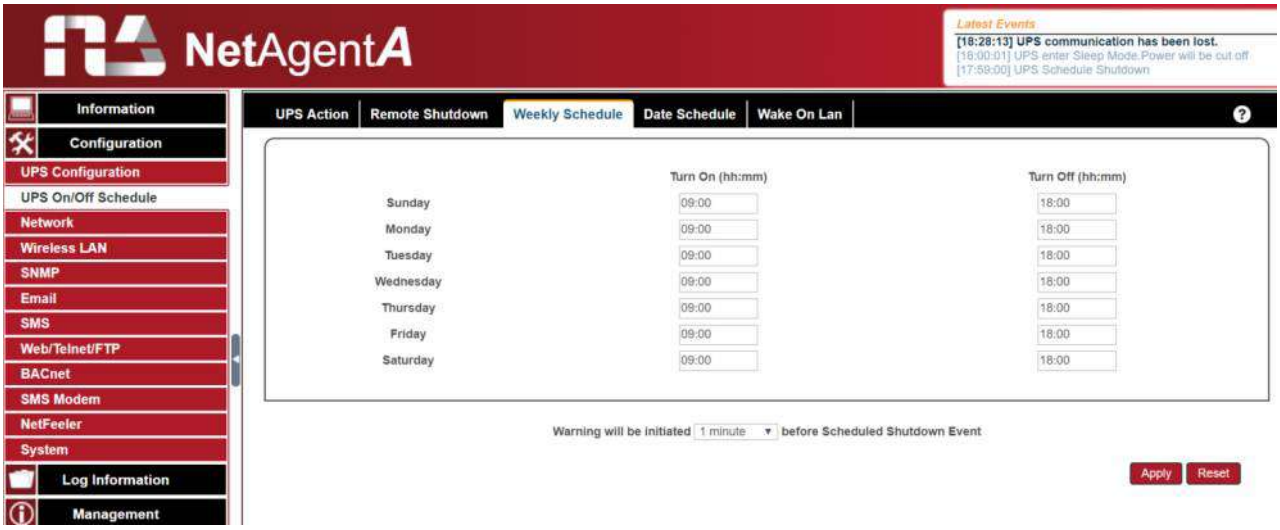
Below to check command menu for different system

- 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.

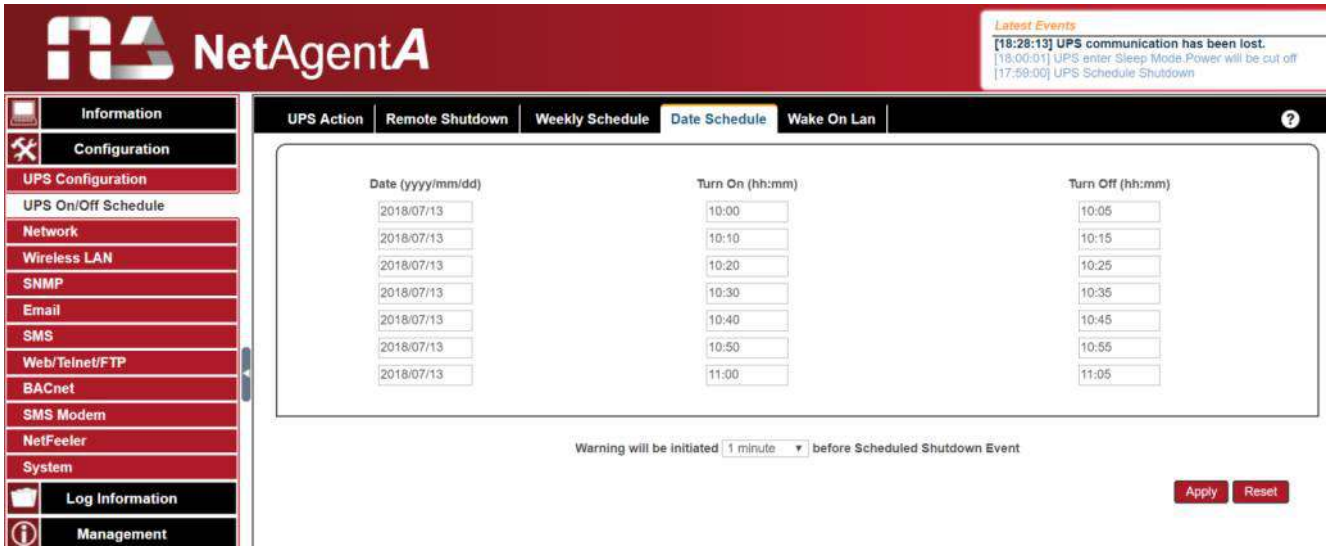


- **Date Schedule**

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**.

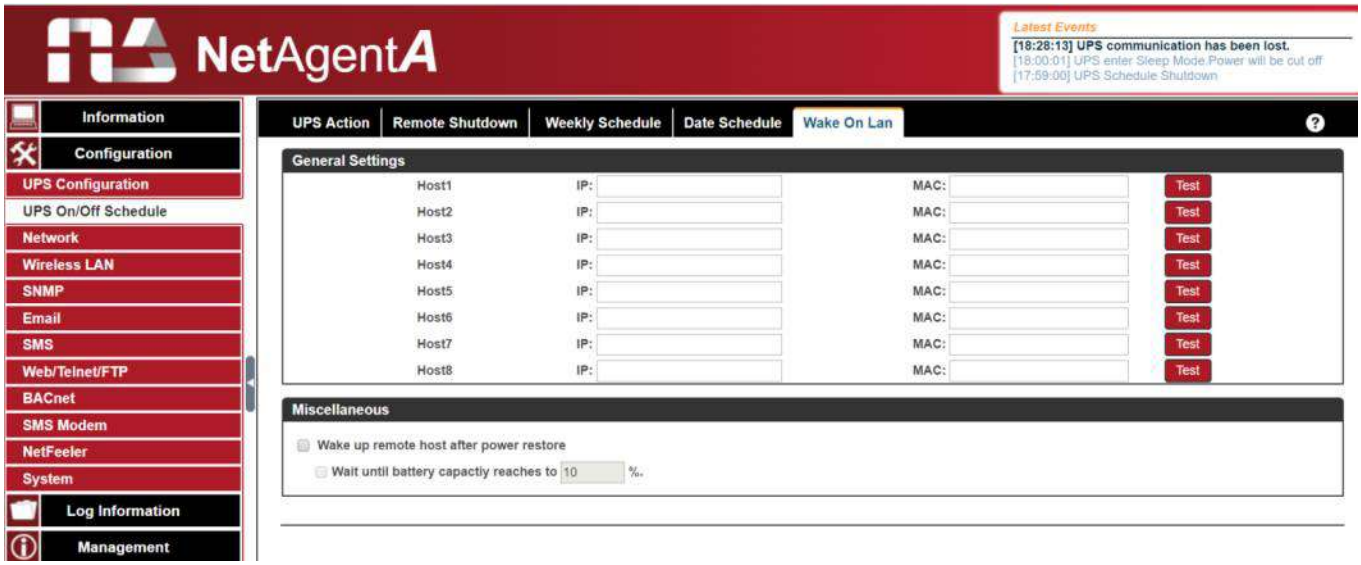
<u>Warning will be initiated X _ before Schedule shutdown event _</u>

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.

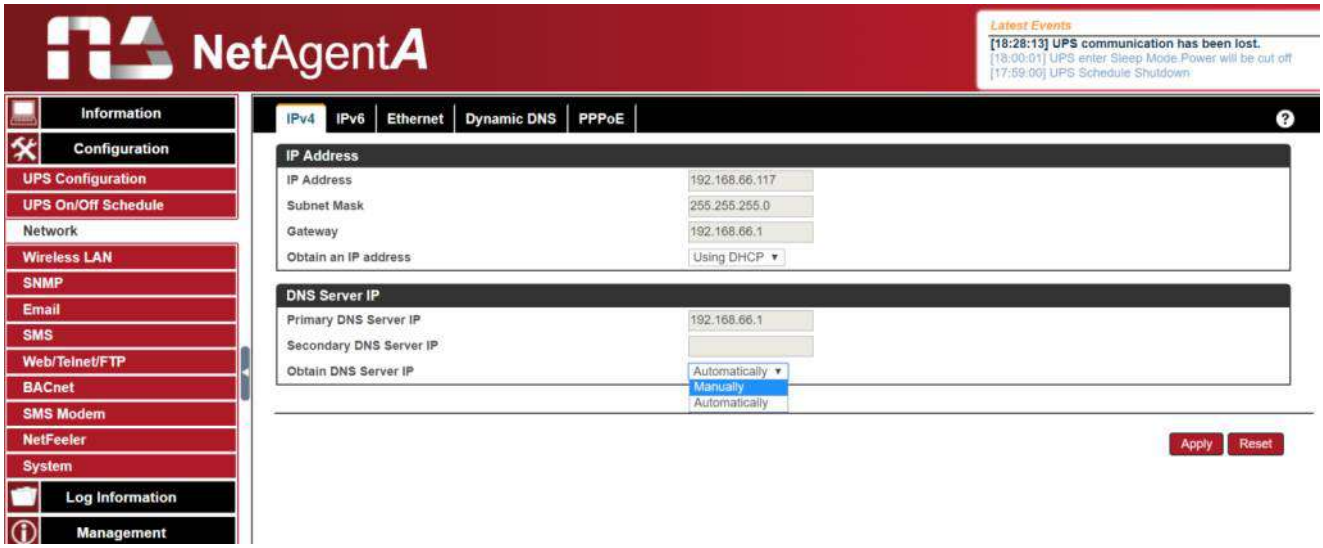


■ **Configuration > Network**

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

- **IPv4**

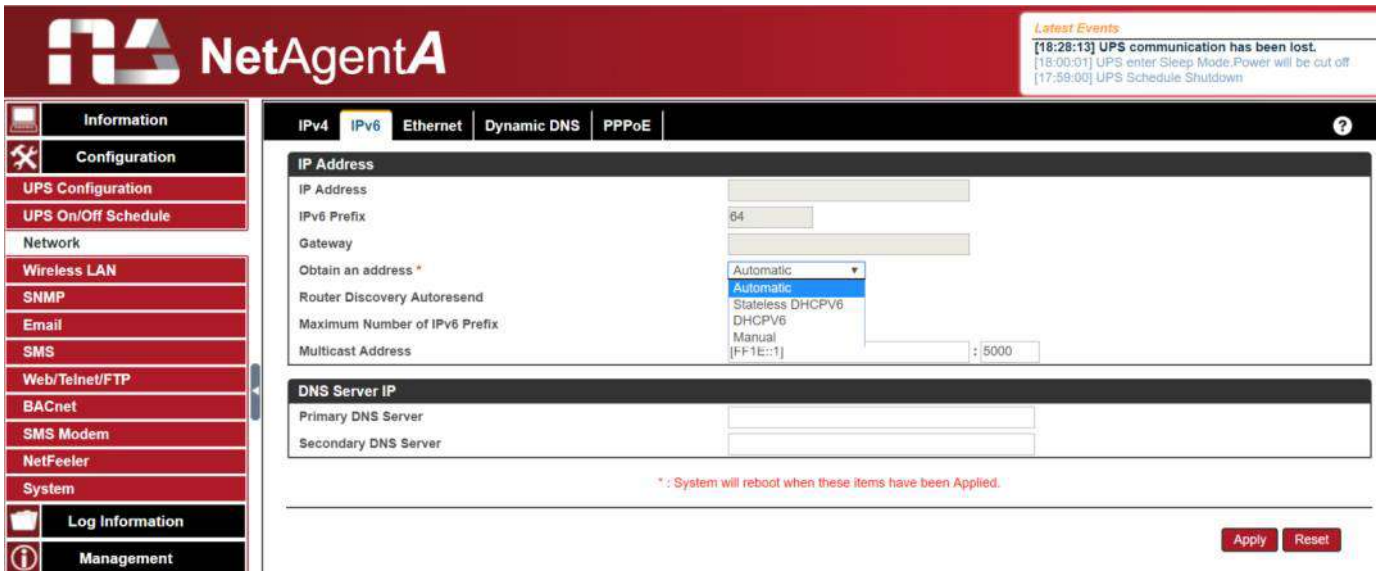
NetAgent*A* and DNS IP address can be obtain by drop down list with option of Manually, Using DHCP, or Bootp. If the IP address and DNS has been configured on Netility, then info will automatically show here



- **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.

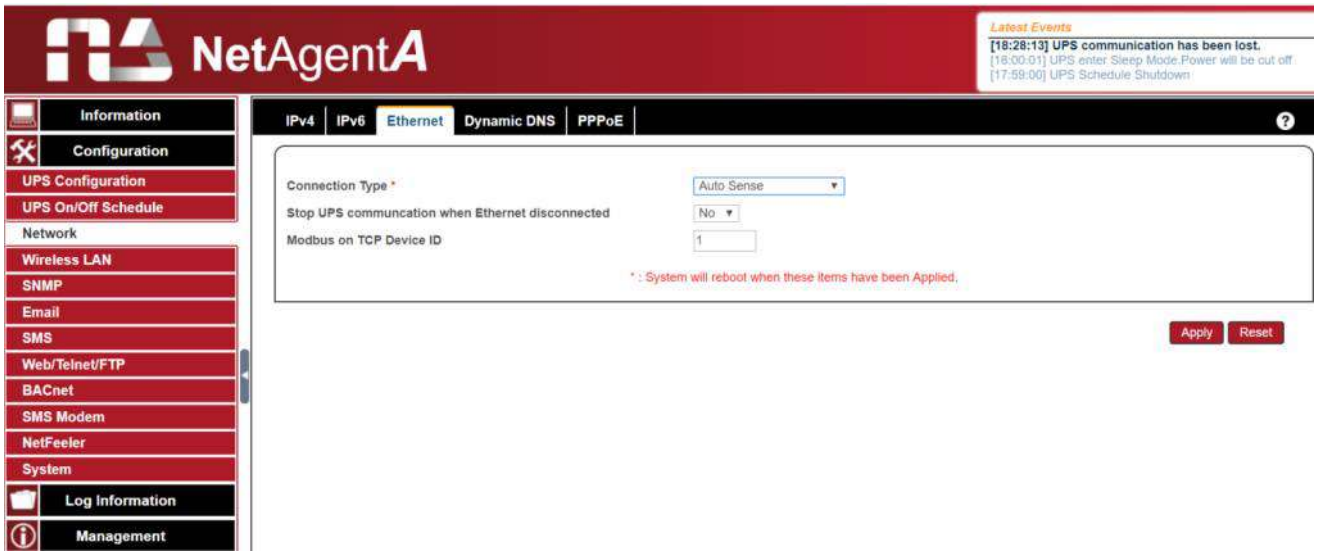
✸Once click on Apply, NetAgent*A* will reboot

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

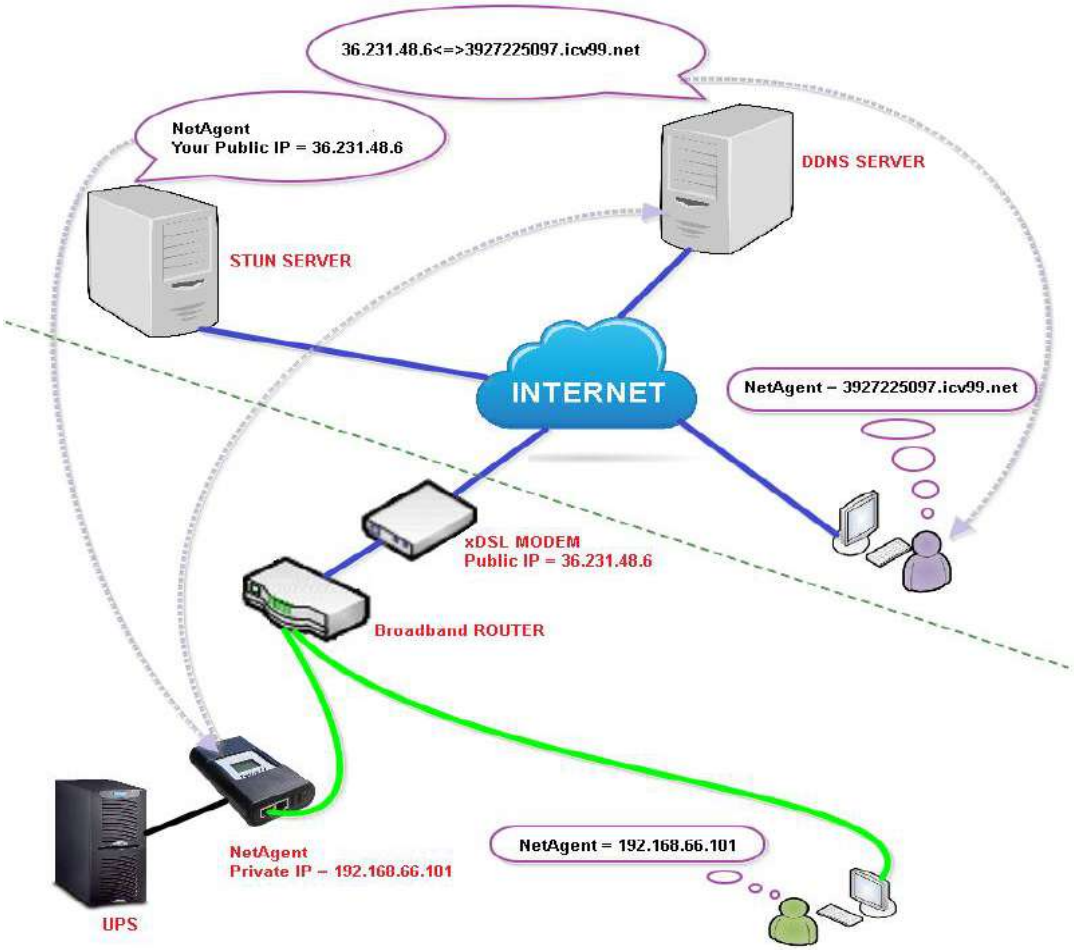
This is the Login / Account name that you have created with the selected DDNS provider.

Login Password:

Enter the Password you have assigned to your DDNS Account.

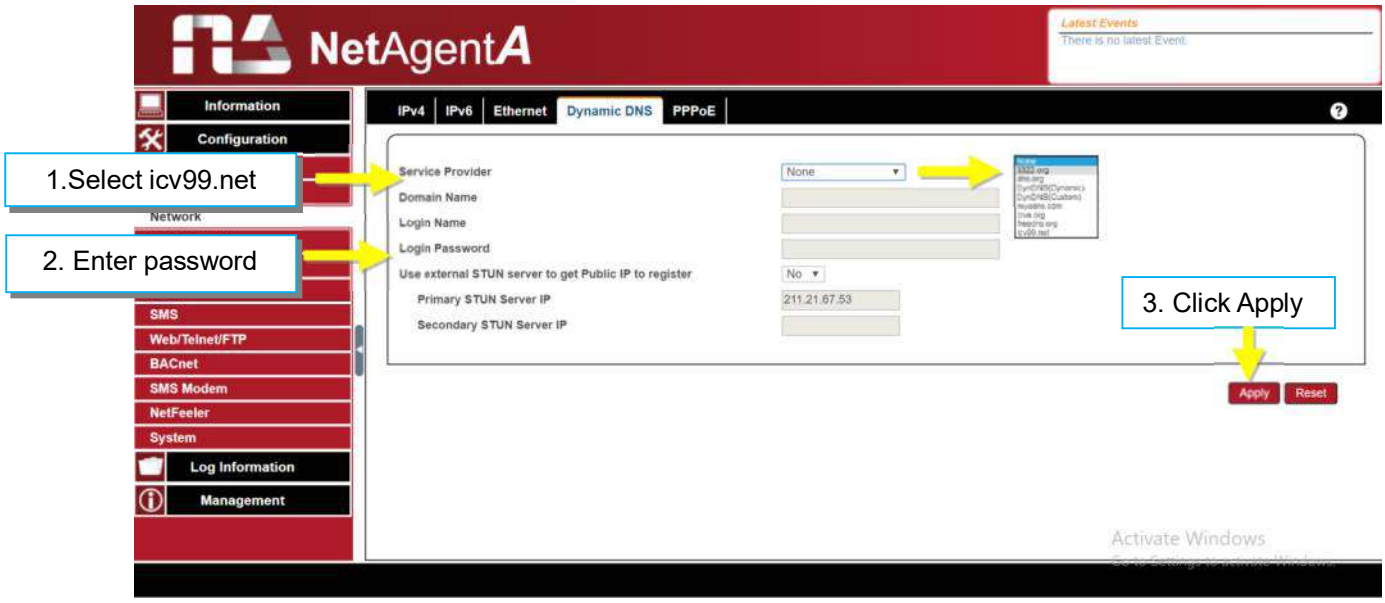
Use external STUN server to get Public IP to register

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

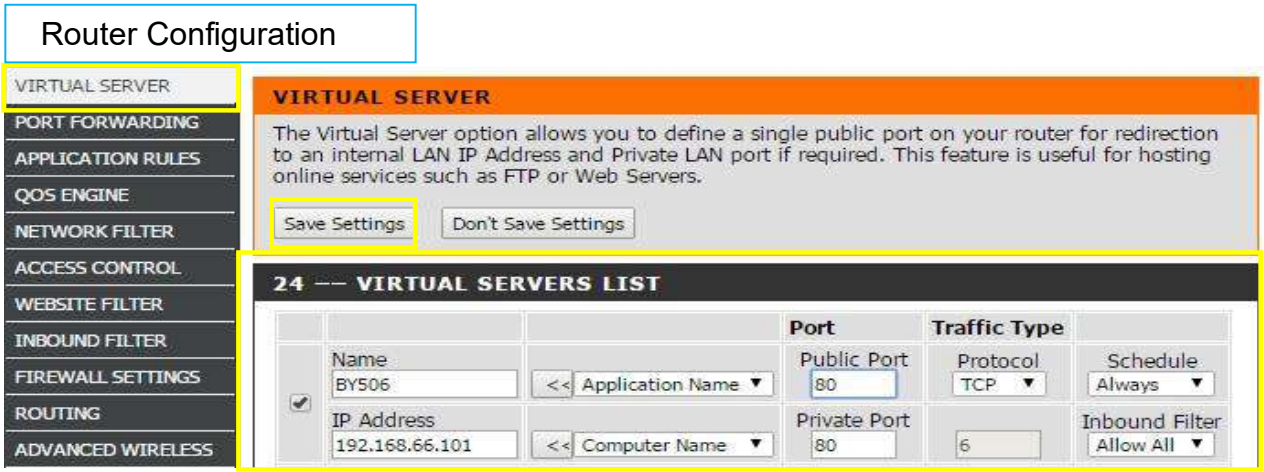


If to use iCV99.net as Service Provide which host by Megatec, instruction as below:

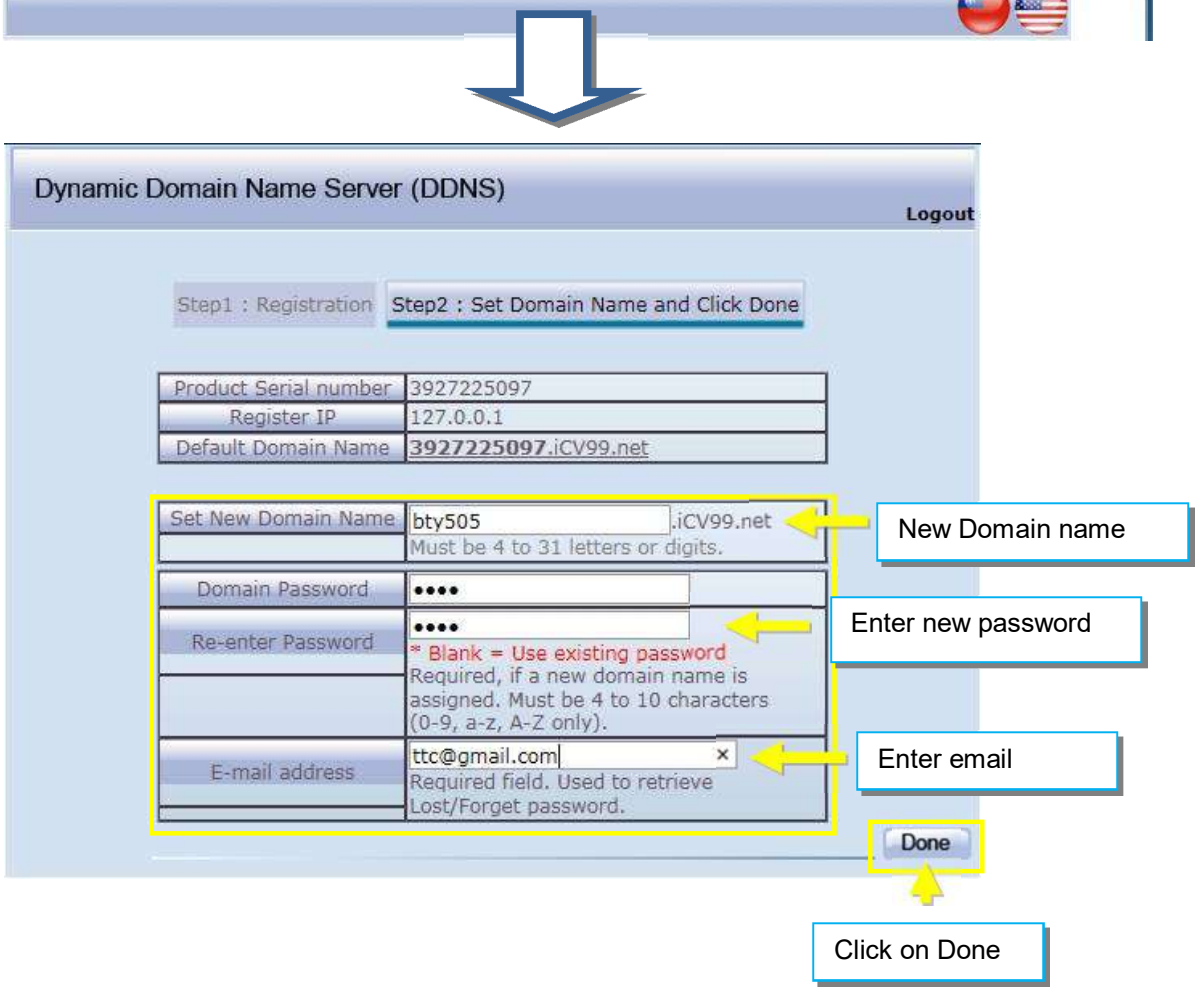
1. Ensure NetAgent*A* is able to connect to Internet. Select icv99.net from the drop down list of the Service Provider. The Domain Name and Login Name will automatically be fill-in with serial number of the device. Enter the password of the NetAgent*A* which is printed on the NetAgent*A* label, then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

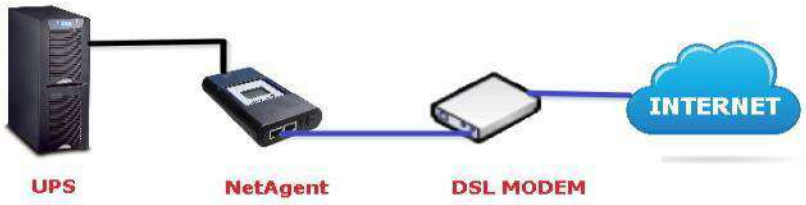


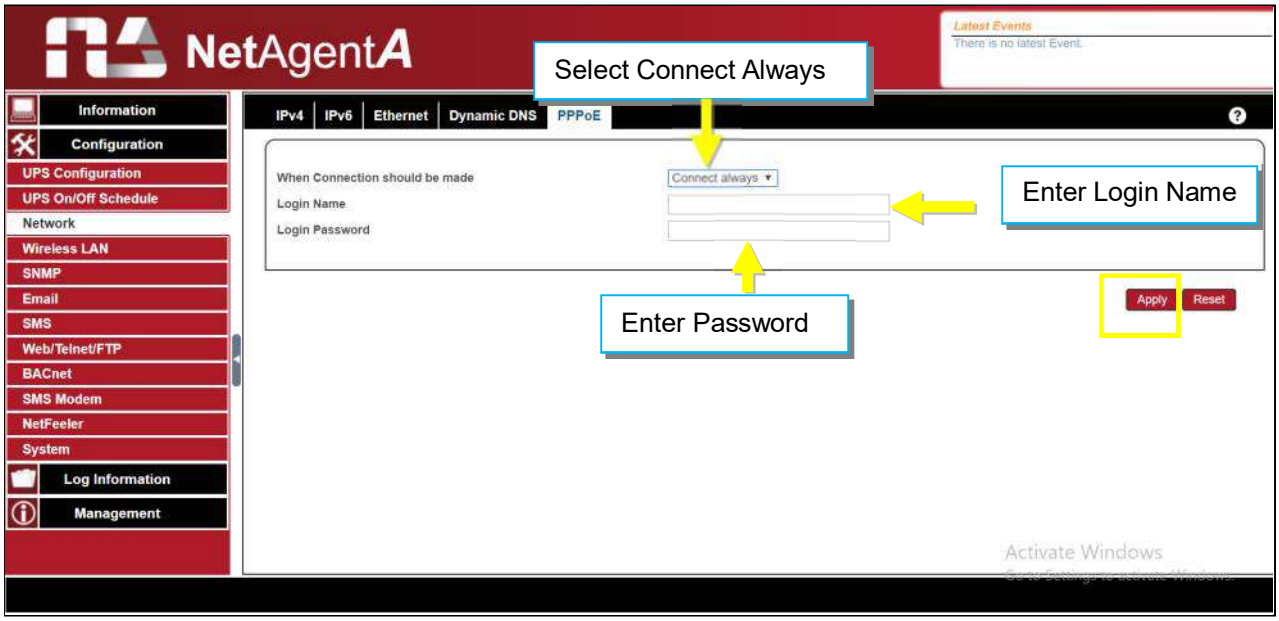
3. After 20 minutes, NetAgent*A* should be login with its DDNS Domain name



- **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 "**<u>WPS button</u>**"
(2)Click on"**<u>Start</u>**"

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

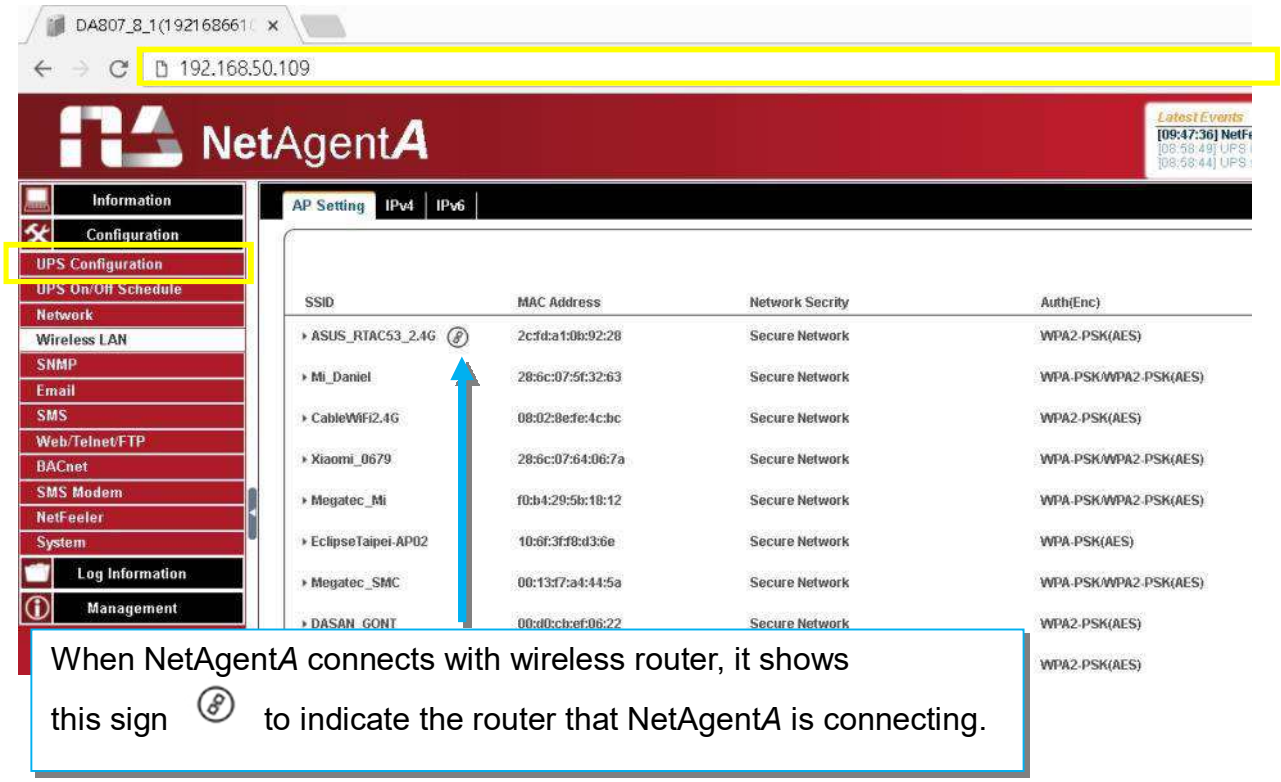
RT-AC53
登出
重新開機
繁體中文
網路設定精靈
運作模式: 無線路由器 韌體版本: 3.0.0.4.380_10446 SSID: ASUS_RTAC53_2.4G ASUS_TED_5G
一般設定
WPS
WDS
無線 MAC 地址過濾器
RADIUS 設定
專業設定
一般設定
網路地圖
訪客網路
流量管理
家長電腦控制程式
進階設定
無線網路
區域網路(LAN)
外部網路(WAN)
IPv6
VPN
防火牆
無線網路 - WPS
When WPS connection successfully, the yellow LED on NetAgentAA stop flashing
WPS (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

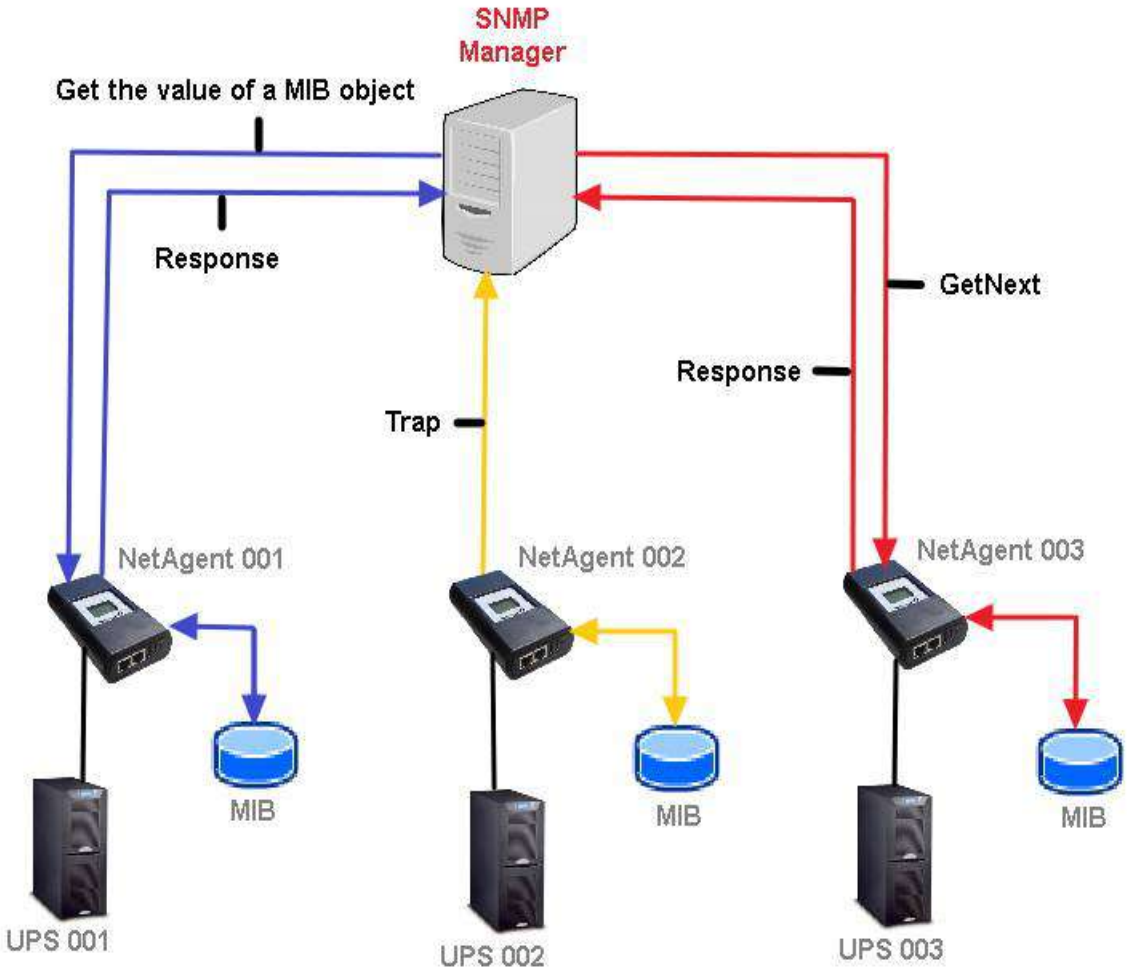
(With distance of 6-10 meters. Router RT-AC53 still shows with full signal)



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

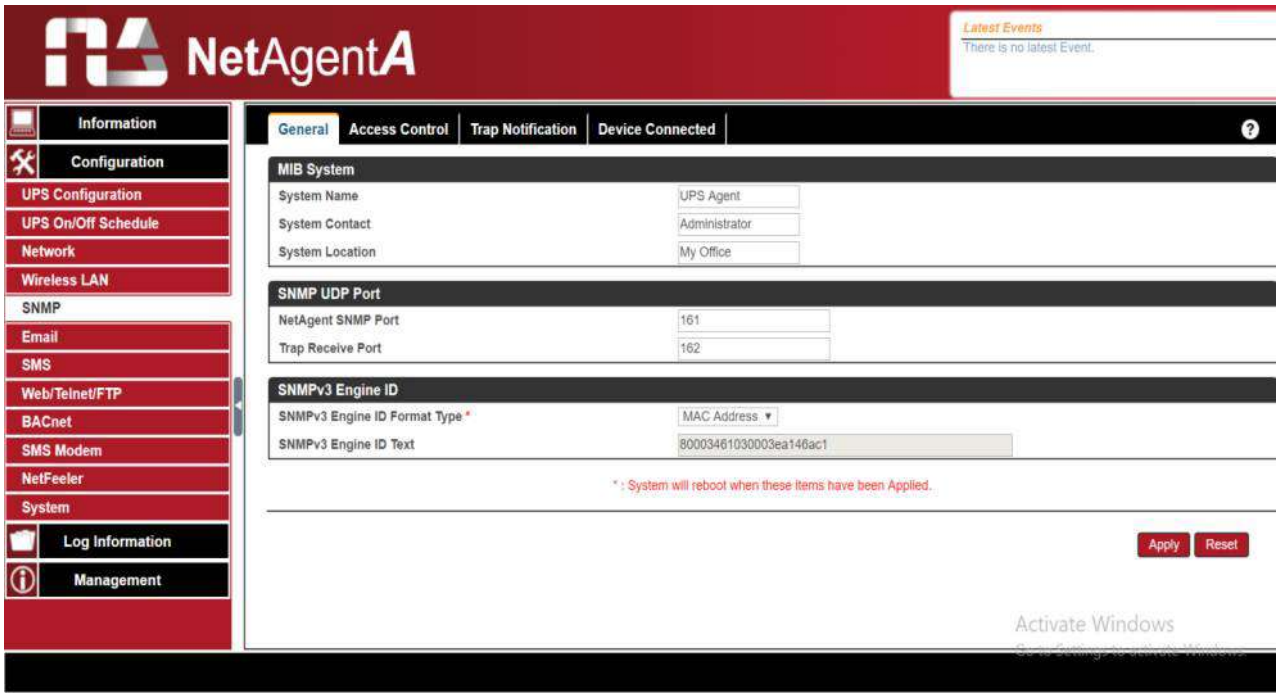
SNMPv3 Engine ID Format Type：

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 :

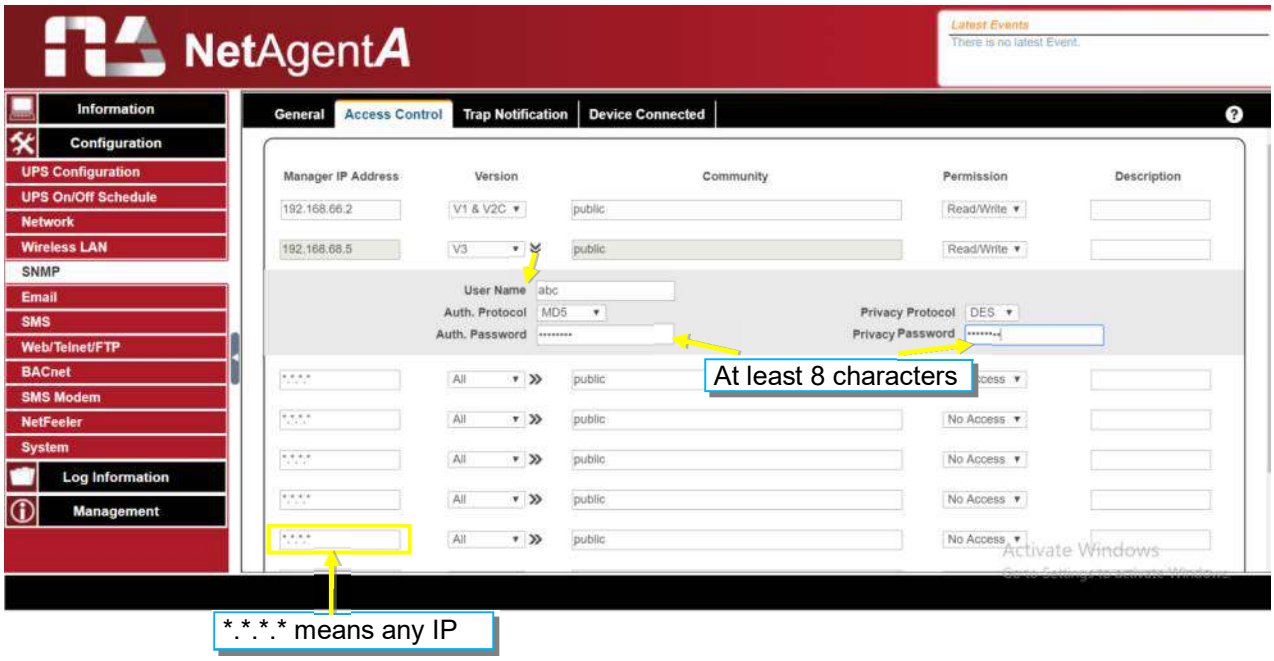
This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS. (Default is public)

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 :

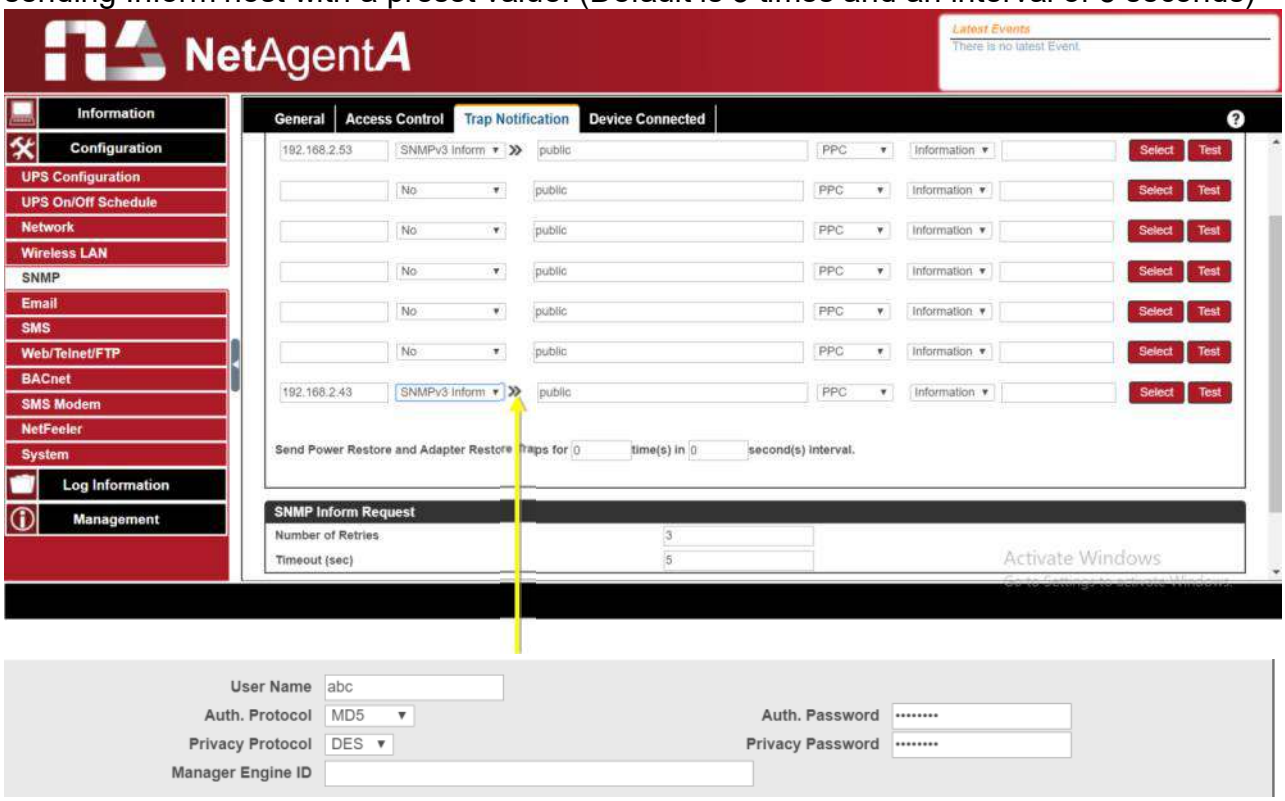
This is to select events for NetAgent*A* to send traps. Click on Select to show the full Events List. Click on Test to send test trap to ensure all setting is correct

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

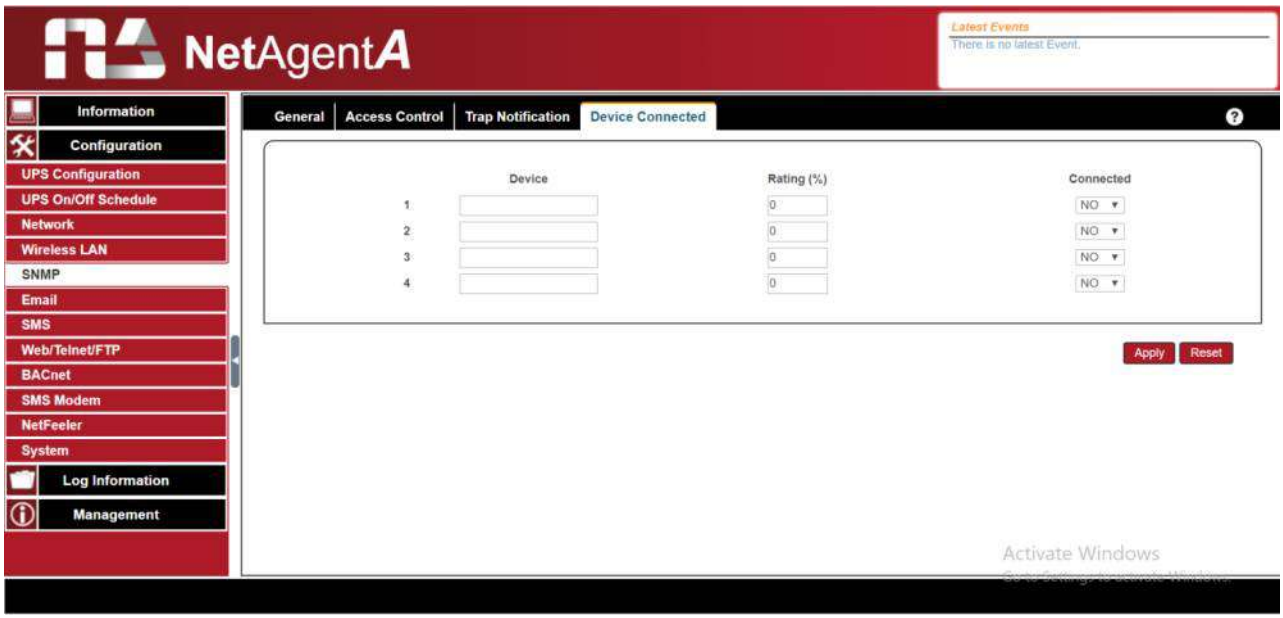
SNMP Inform Request

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.



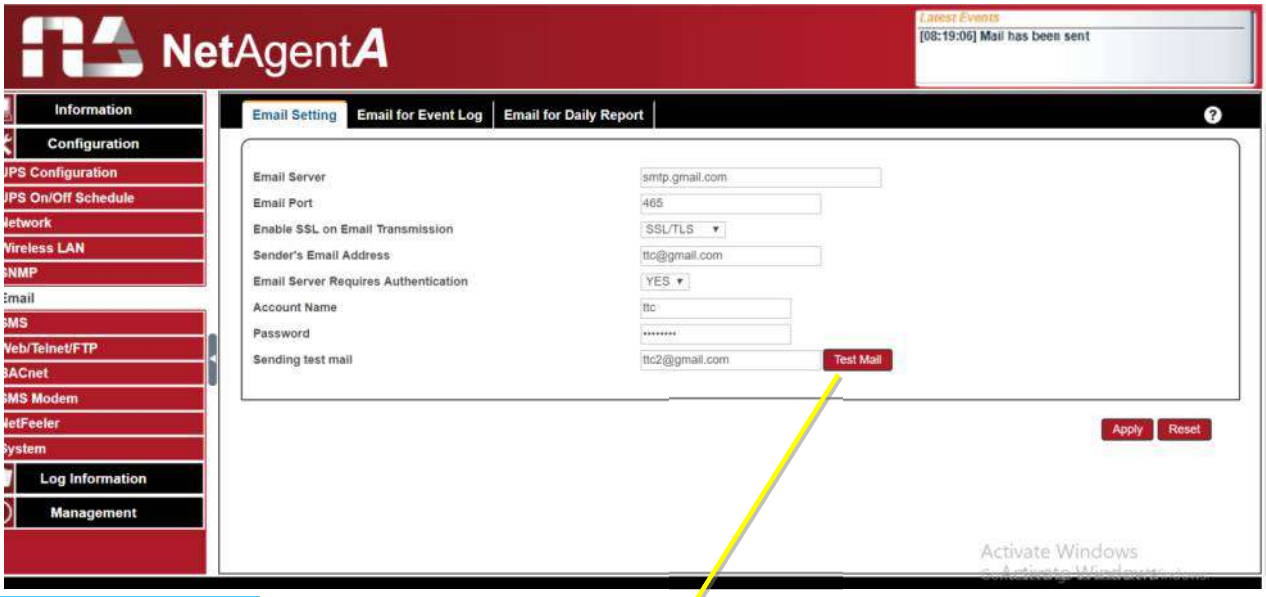
■ Configuration > Email

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



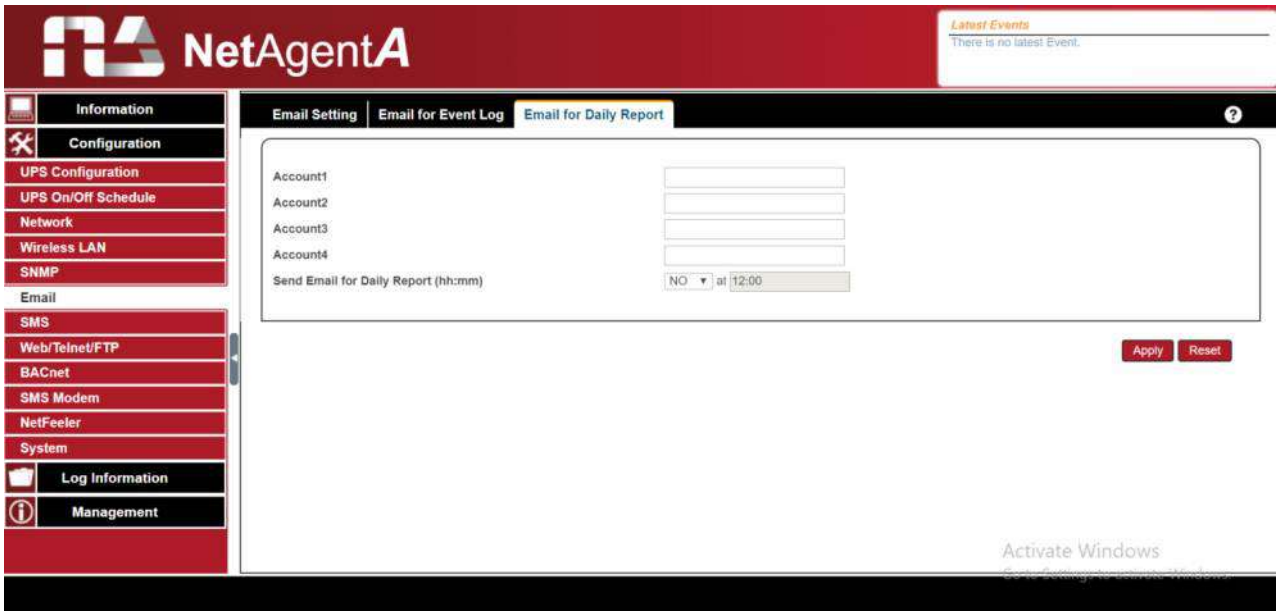
Test Email Received

- **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.

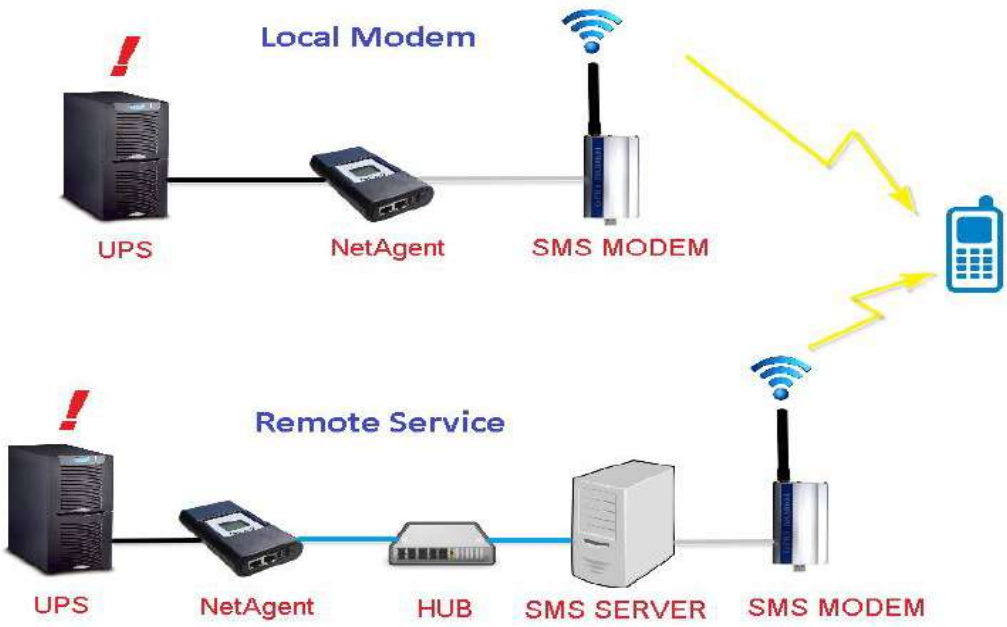
- **Email for Daily Report (To receive daily report)**

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 :

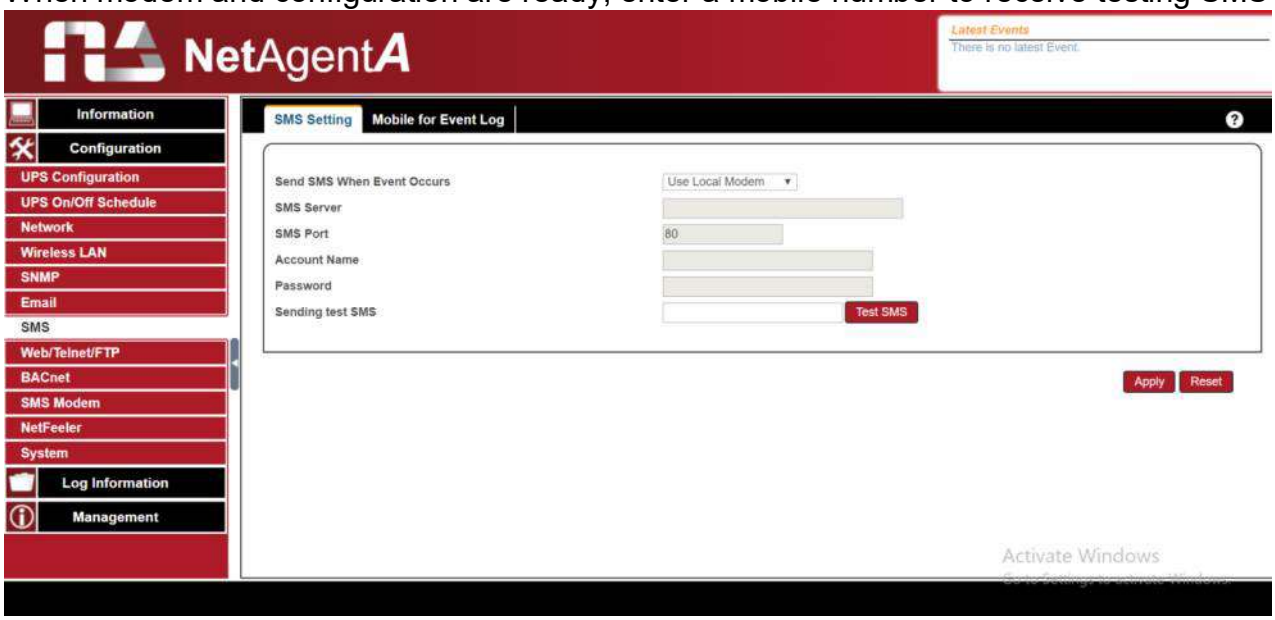
If select to use Remote Service to send SMS, enter SMS Server's account name if required

Password :

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

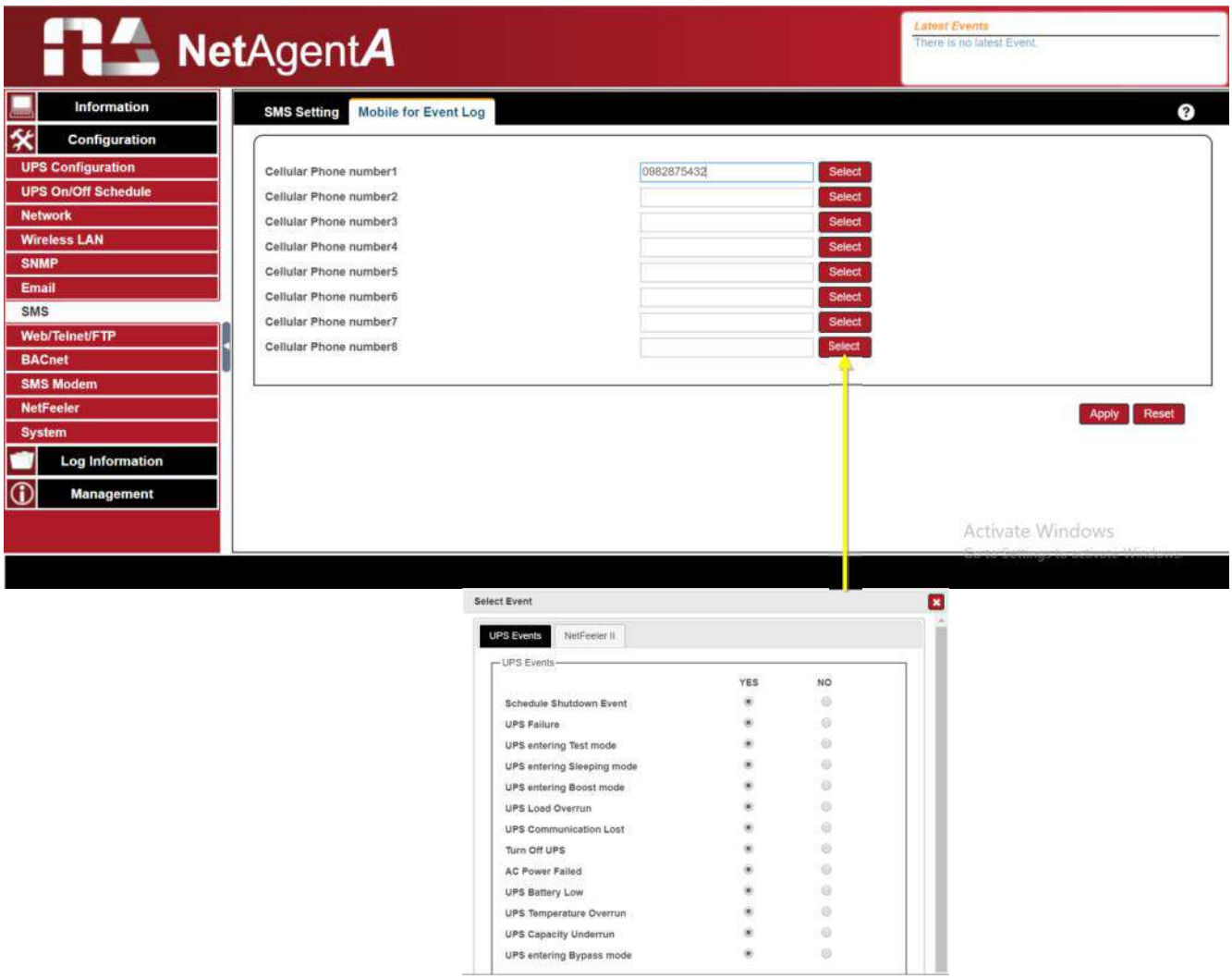
Sending test SMS :

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

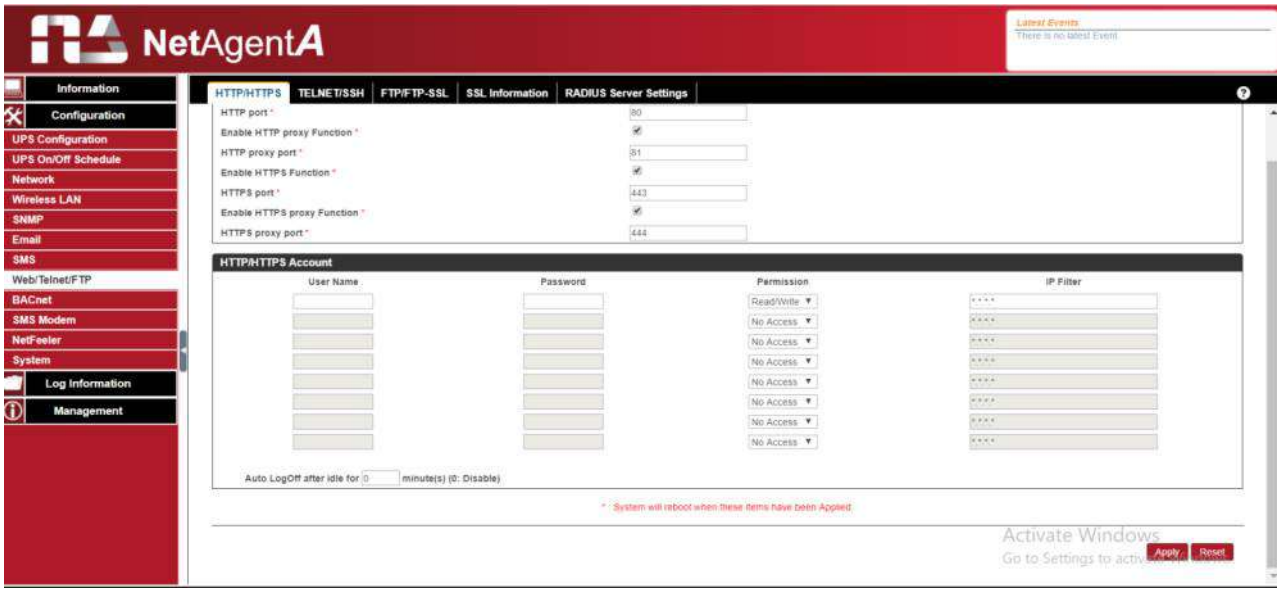
IP Filter：

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：

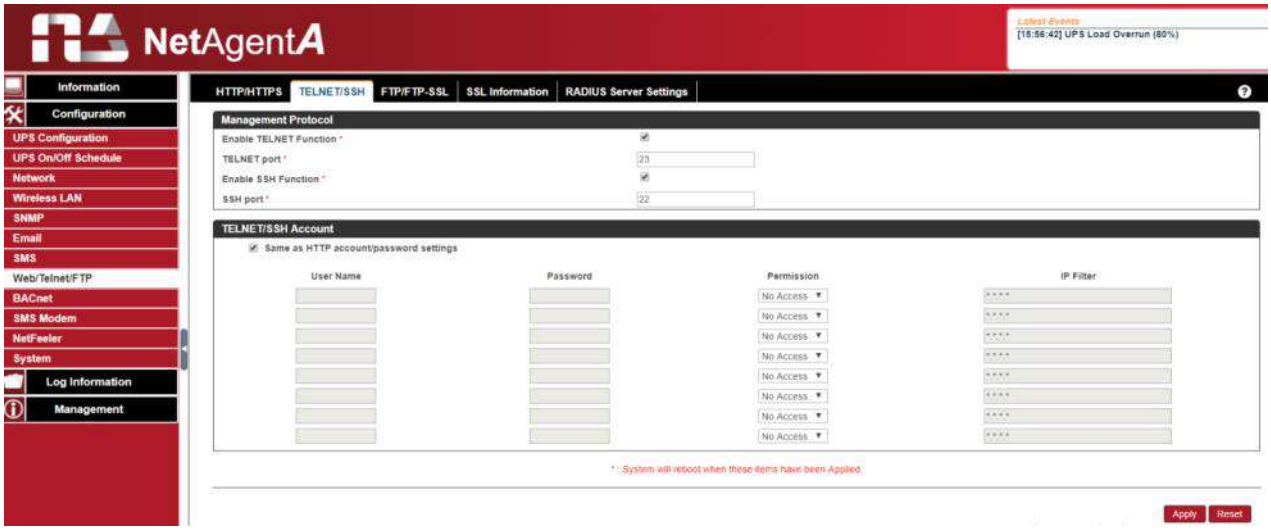
To set No Access / Read/ Read&Write)

- ✹ 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)

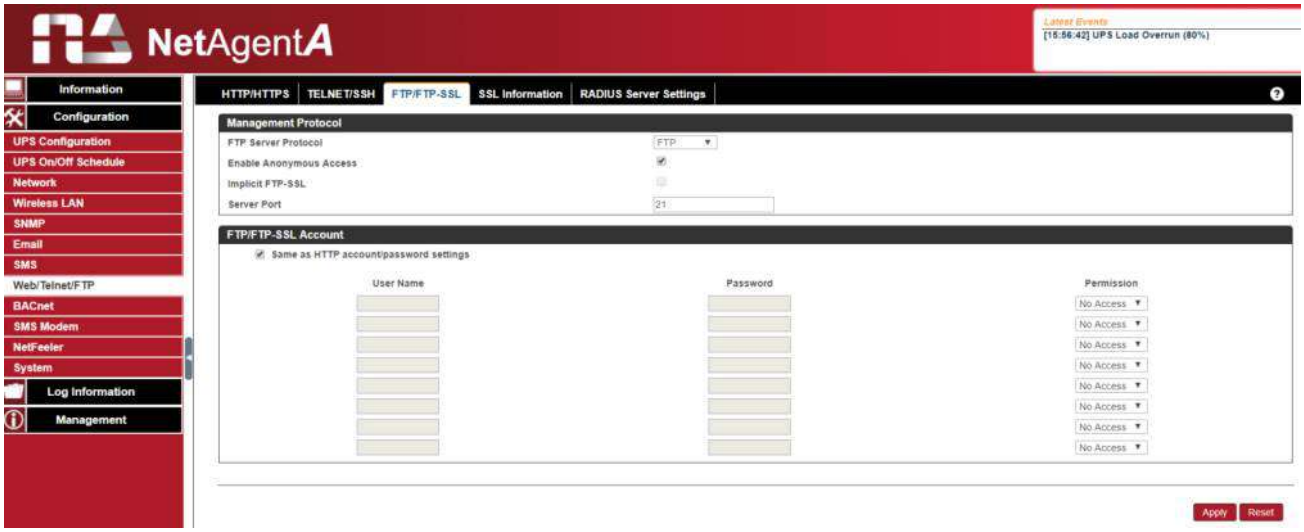
✹ Permission Rule： At least one user account must be Read/Write

✹ 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

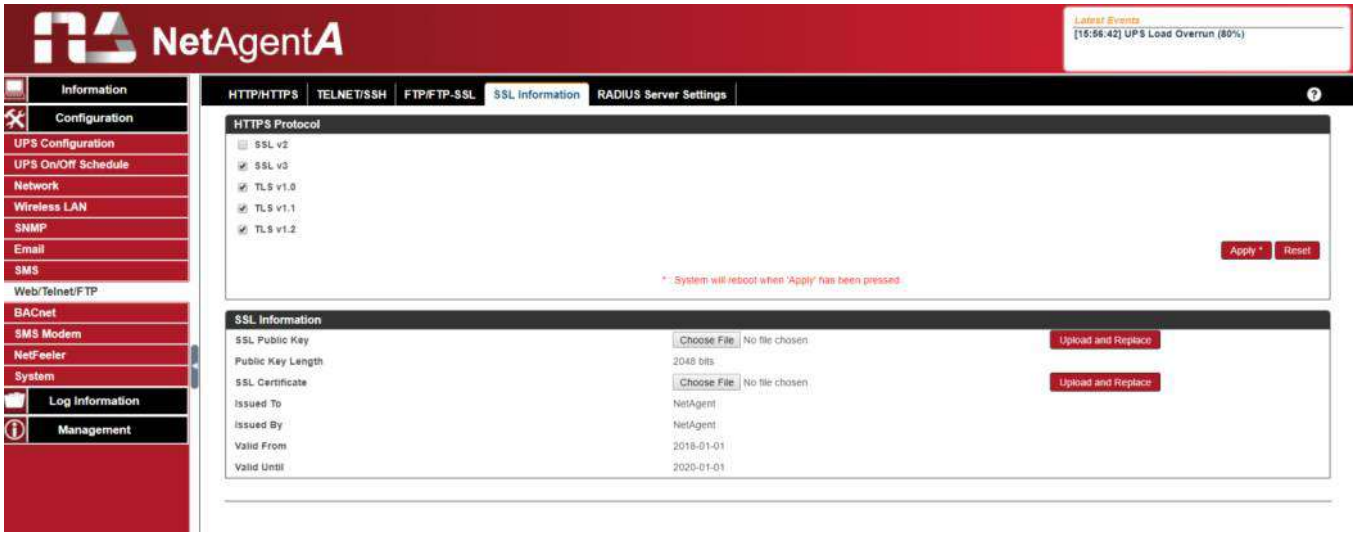
☐ SSL v2
☐ SSL v3
☐ SSL v1.0
☐ SSL v1.1
☐ SSL v1.2

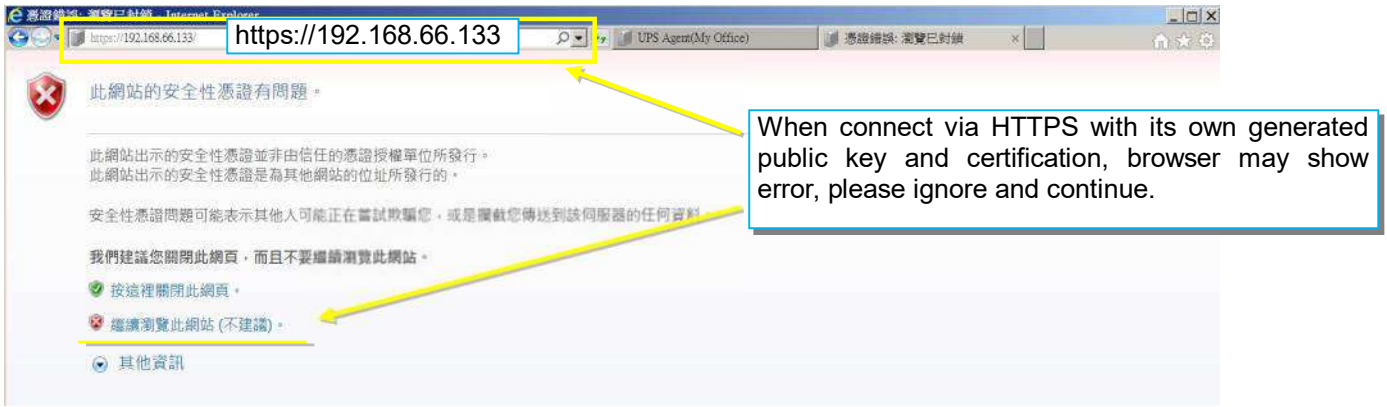
✹ Once click on Apply, NetAgent*A* will reboot

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

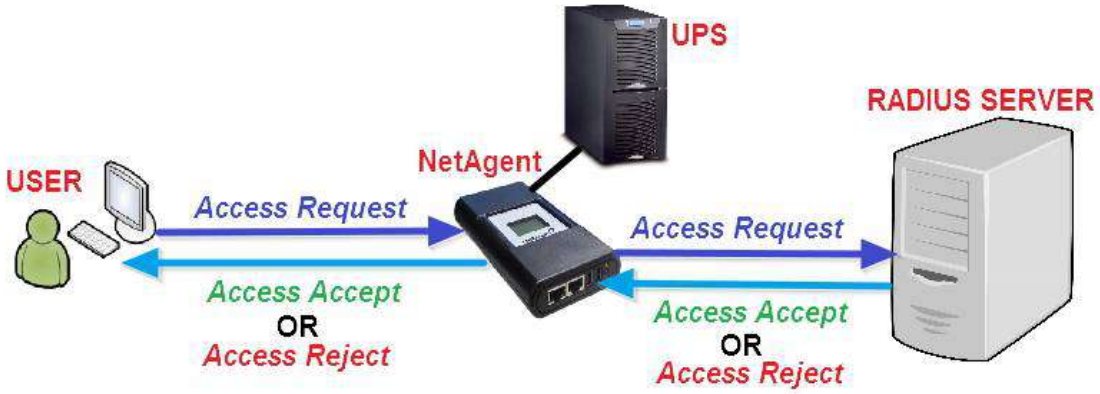
(To communicate via Https, make sure to enable Https port 443.)To create its own public key and certification, please refer to OpenSSL software in the CD





- **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 :

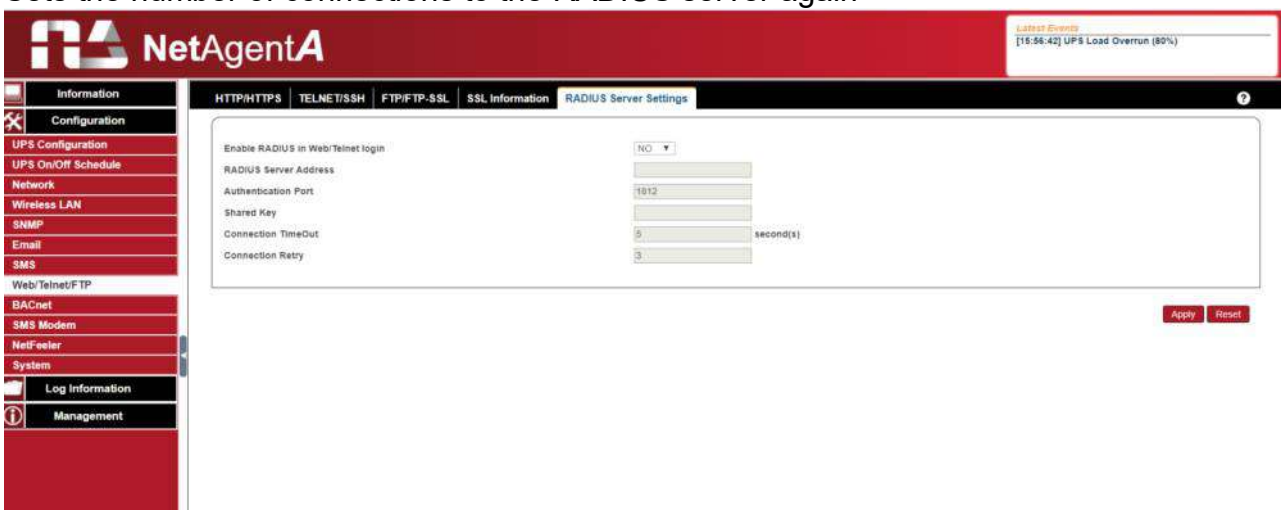
Enter the Shared Key between RADIUS Server and client

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)

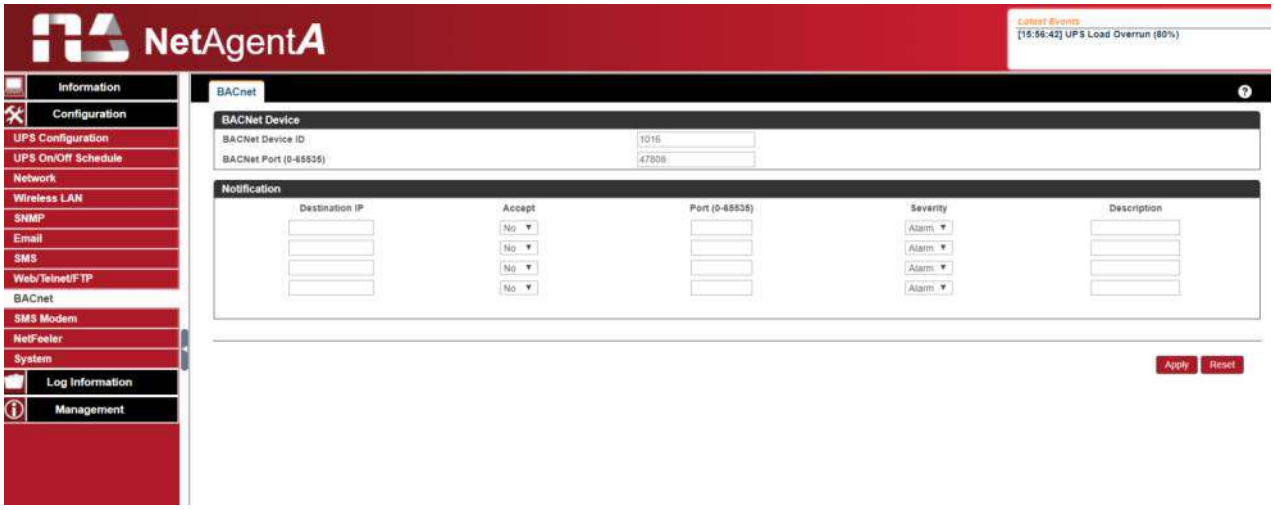
- **BACnet**

BACNet Device

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

Notification

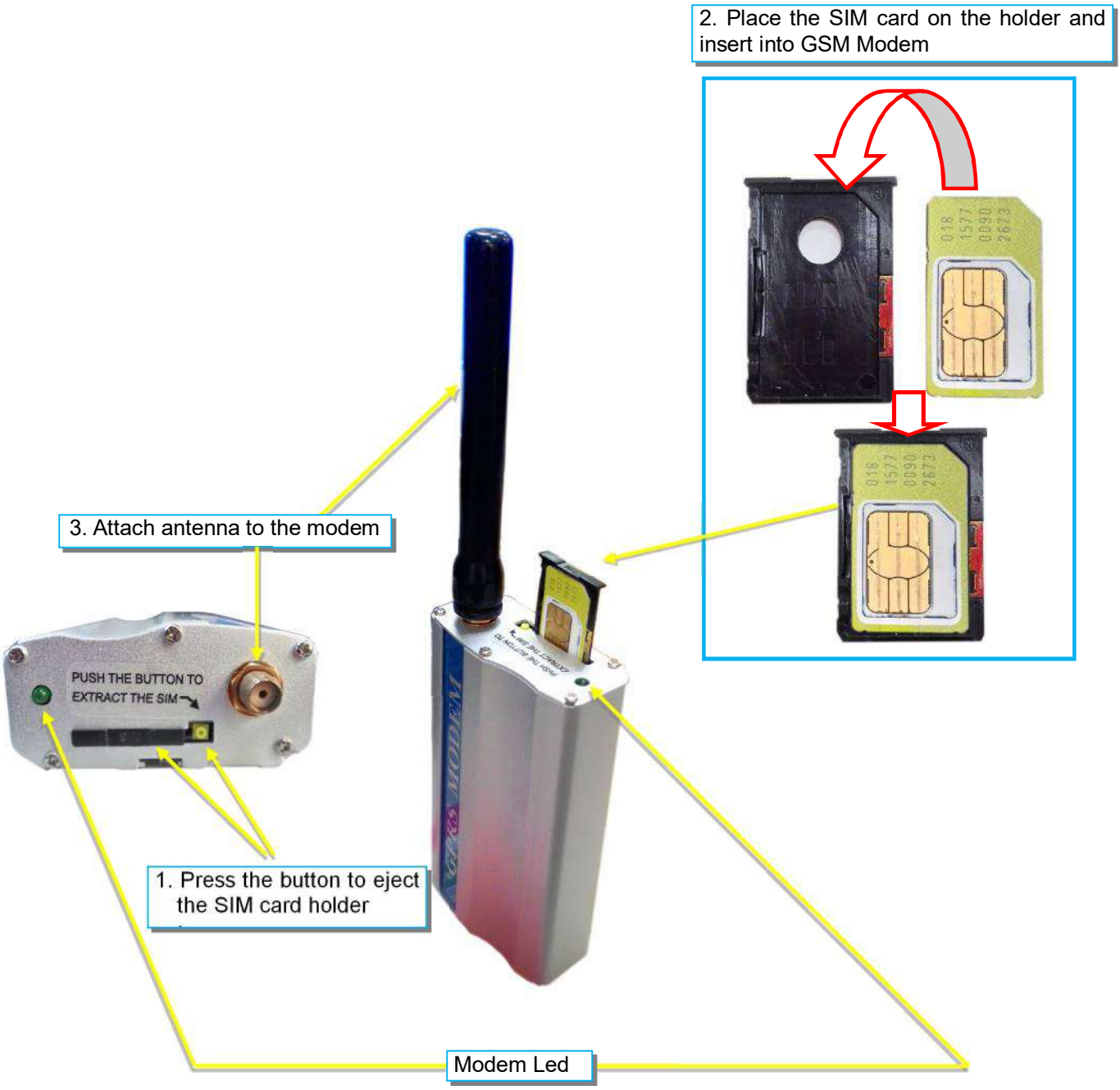
Enter the IP address of the PC that to be notify by BACnet software when event occurs



■ 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：

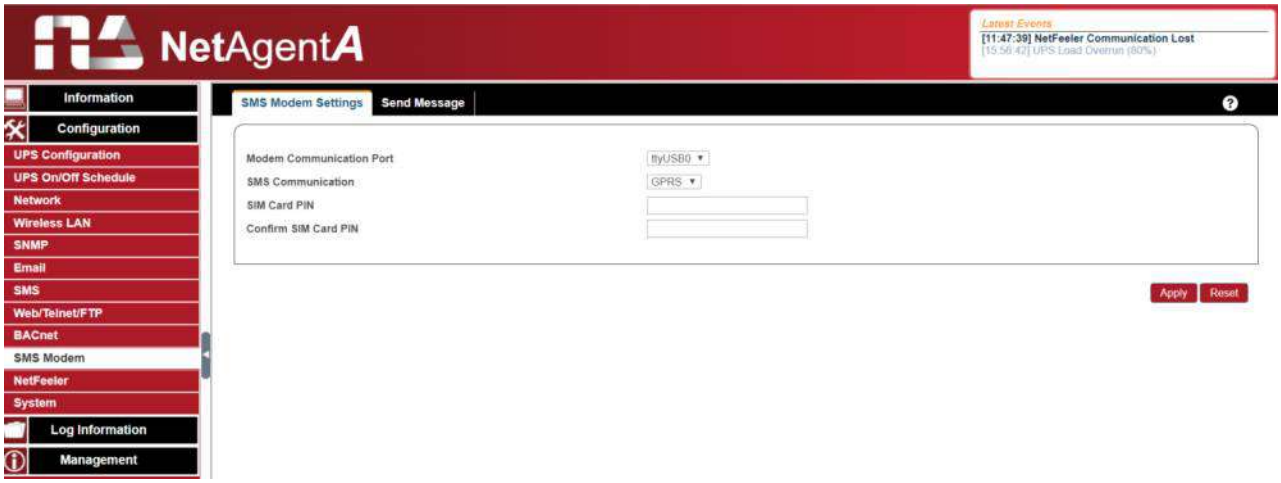
If PIN is required for the SIM card, please enter

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



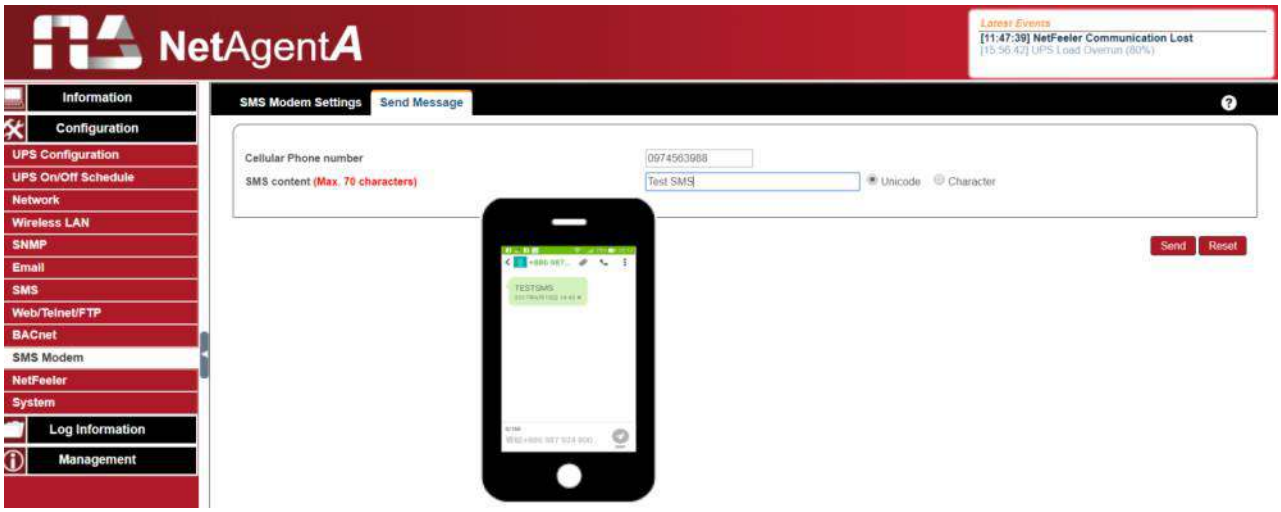
- **Send Message**

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**

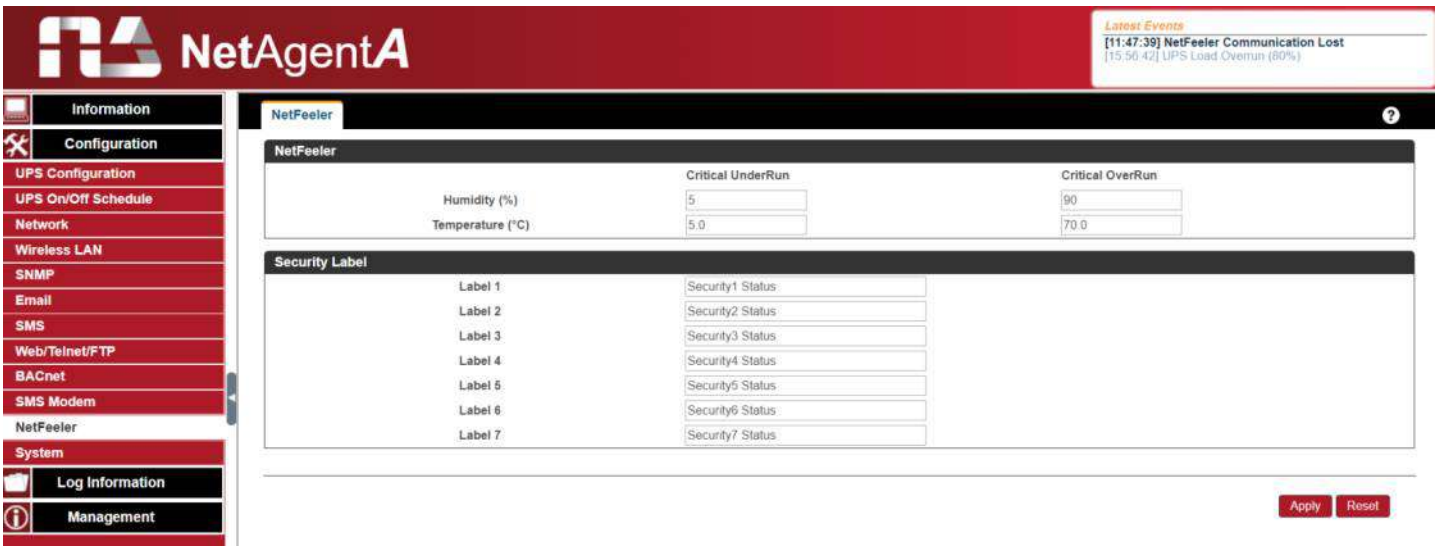
NetFeeler

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

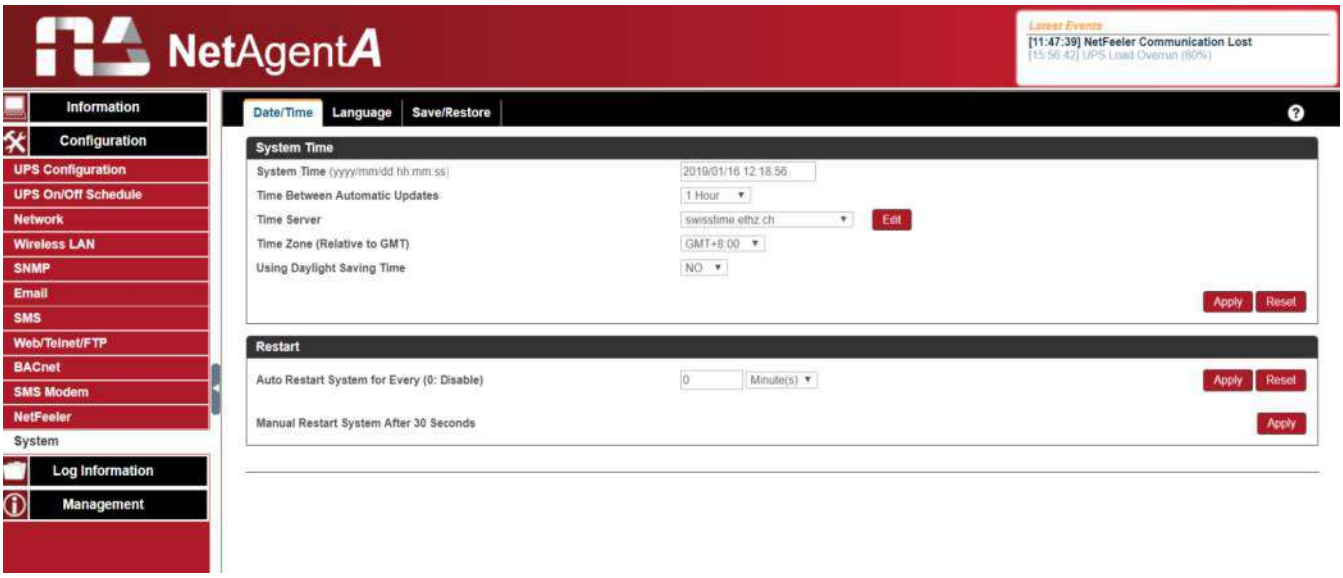
Restart

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

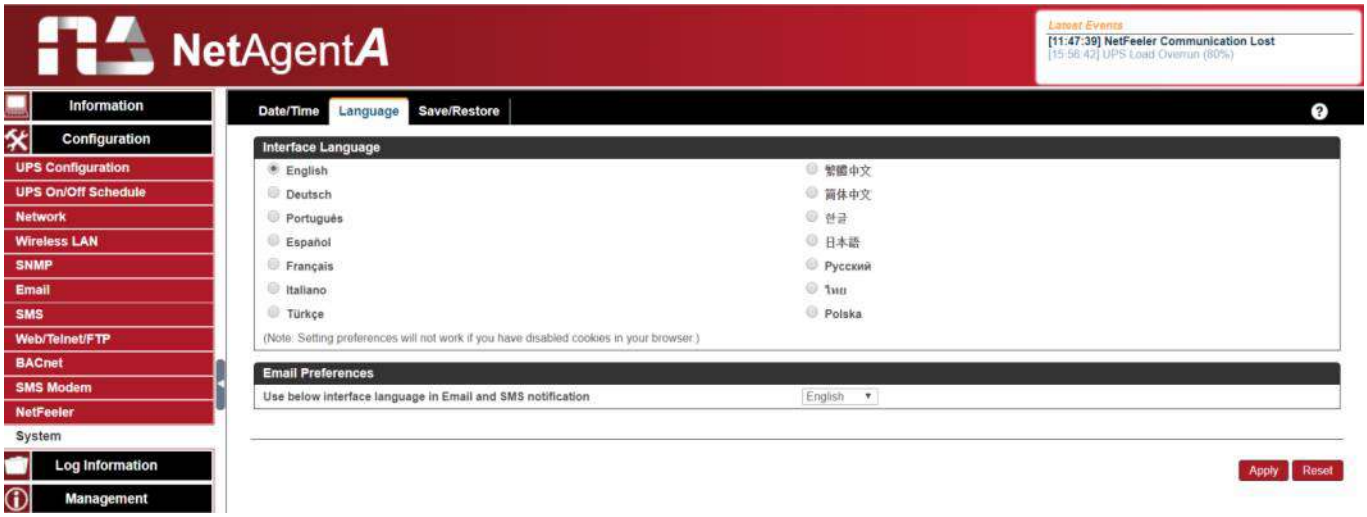
Note: Users will have to enable cookies before they use this function.

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

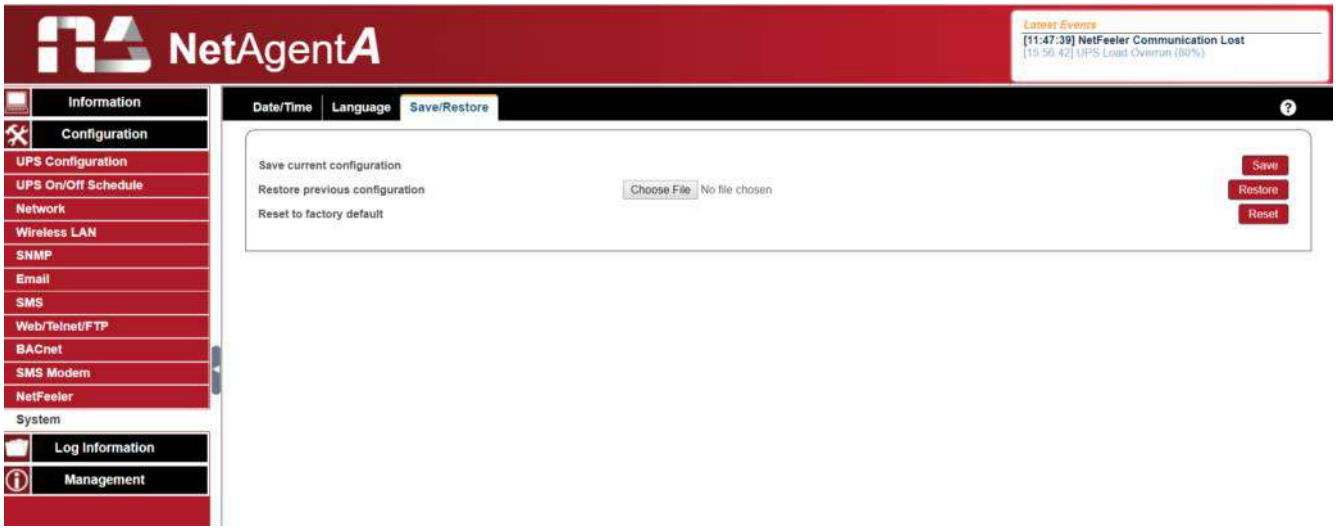
Click on Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####.cfg. Administrator permission required.

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.

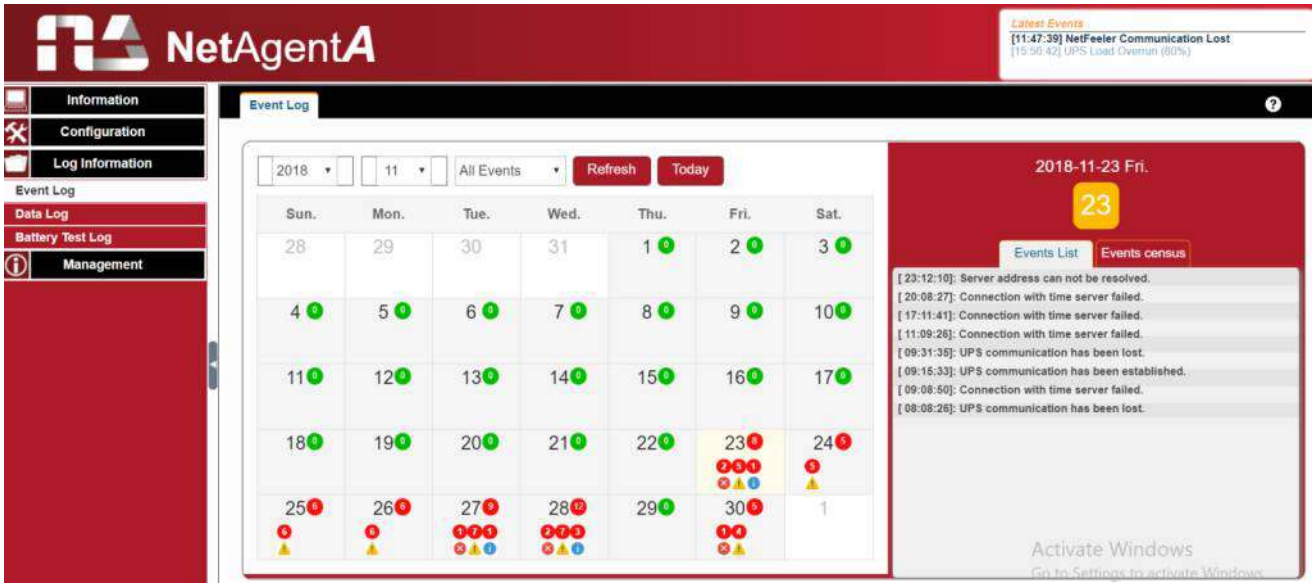


■ Log Information > Event Log

- **Event Log**

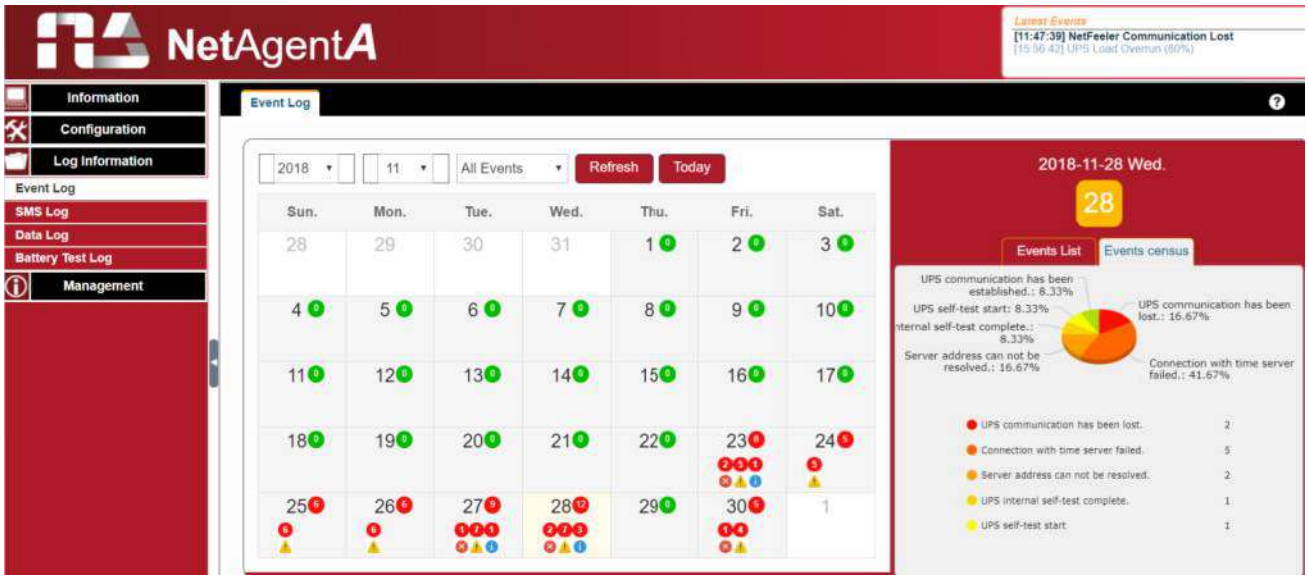
Event List

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

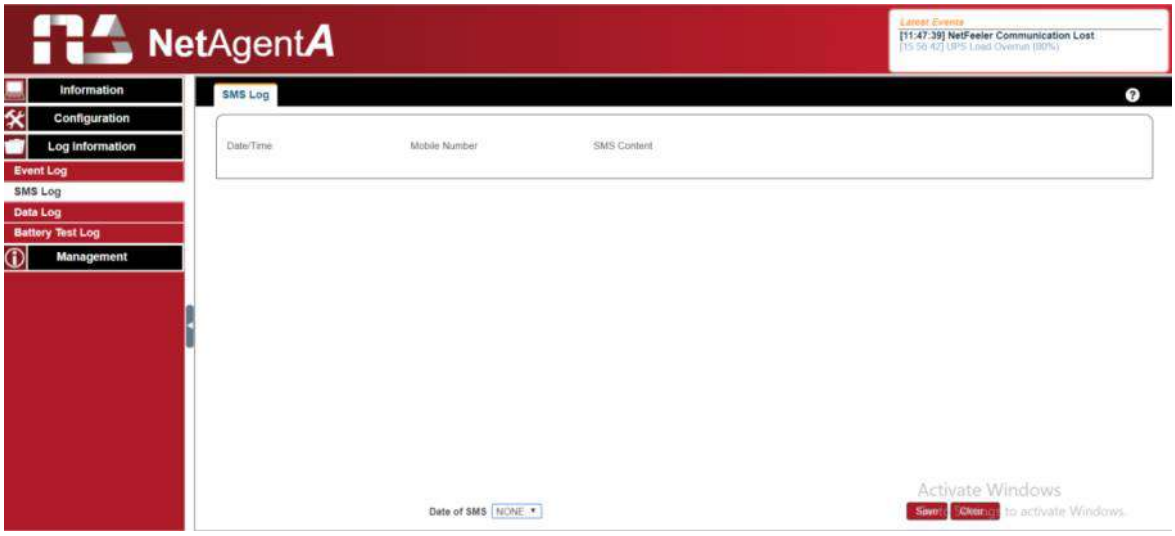


- **Log Information > SMS Log**

- **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 .



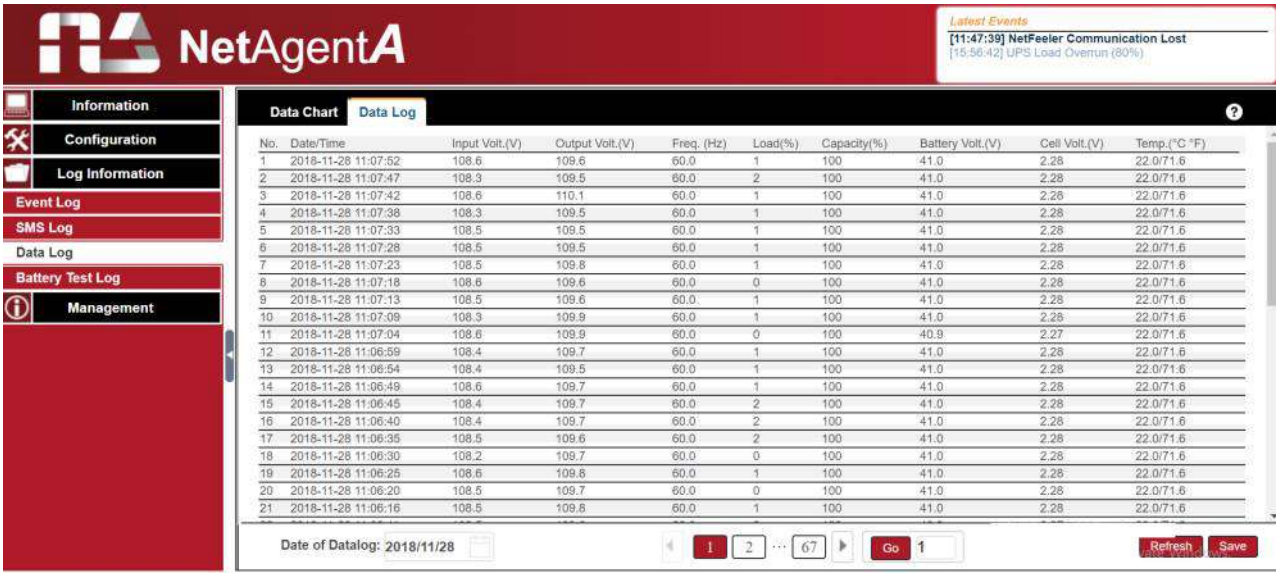
■ Log Information > Data Log

- **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.

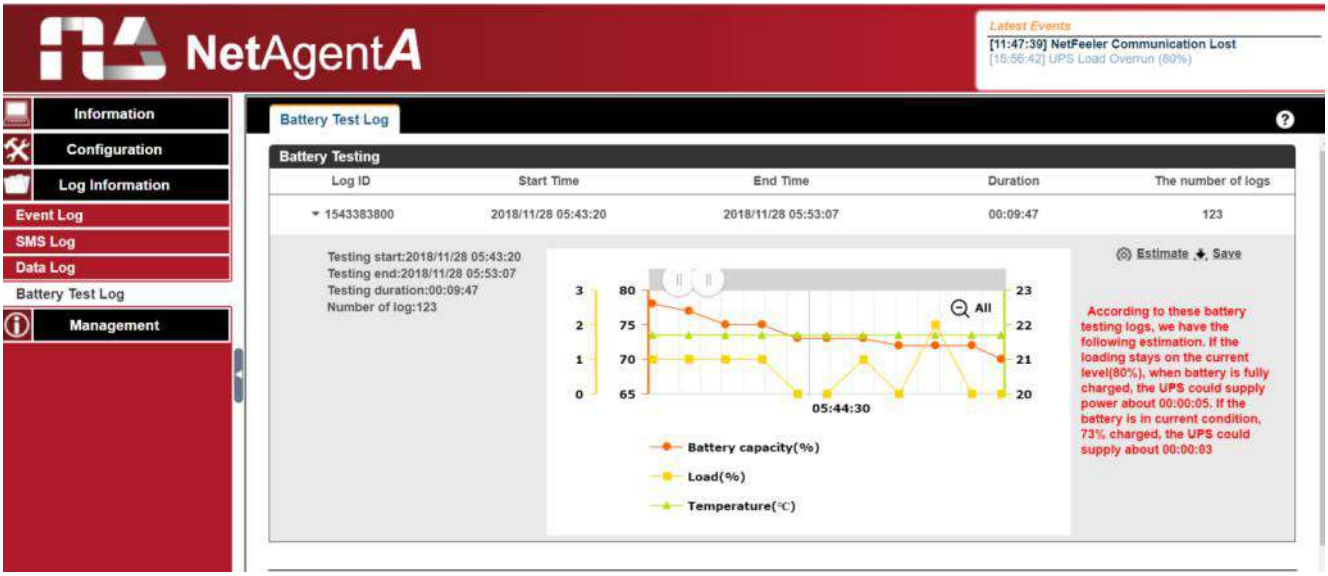


No.	Date/Time	Input Volt.(V)	Output Volt.(V)	Freq. (Hz)	Load(%)	Capacity(%)	Battery Volt.(V)	Cell Volt.(V)	Temp.(°C °F)
1	2018-11-28 11:07:52	108.6	109.6	60.0	1	100	41.0	2.28	22.0/71.6
2	2018-11-28 11:07:47	108.3	109.5	60.0	2	100	41.0	2.28	22.0/71.6
3	2018-11-28 11:07:42	108.6	110.1	60.0	1	100	41.0	2.28	22.0/71.6
4	2018-11-28 11:07:38	108.3	109.5	60.0	1	100	41.0	2.28	22.0/71.6
5	2018-11-28 11:07:33	108.5	109.5	60.0	1	100	41.0	2.28	22.0/71.6
6	2018-11-28 11:07:28	108.5	109.5	60.0	1	100	41.0	2.28	22.0/71.6
7	2018-11-28 11:07:23	108.5	109.8	60.0	1	100	41.0	2.28	22.0/71.6
8	2018-11-28 11:07:18	108.6	109.6	60.0	0	100	41.0	2.28	22.0/71.6
9	2018-11-28 11:07:13	108.5	109.6	60.0	1	100	41.0	2.28	22.0/71.6
10	2018-11-28 11:07:09	108.3	109.9	60.0	1	100	41.0	2.28	22.0/71.6
11	2018-11-28 11:07:04	108.6	109.9	60.0	0	100	40.9	2.27	22.0/71.6
12	2018-11-28 11:06:59	108.4	109.7	60.0	1	100	41.0	2.28	22.0/71.6
13	2018-11-28 11:06:54	108.4	109.5	60.0	1	100	41.0	2.28	22.0/71.6
14	2018-11-28 11:06:49	108.6	109.7	60.0	1	100	41.0	2.28	22.0/71.6
15	2018-11-28 11:06:45	108.4	109.7	60.0	2	100	41.0	2.28	22.0/71.6
16	2018-11-28 11:06:40	108.4	109.7	60.0	2	100	41.0	2.28	22.0/71.6
17	2018-11-28 11:06:35	108.5	109.6	60.0	2	100	41.0	2.28	22.0/71.6
18	2018-11-28 11:06:30	108.2	109.7	60.0	0	100	41.0	2.28	22.0/71.6
19	2018-11-28 11:06:25	108.6	109.8	60.0	1	100	41.0	2.28	22.0/71.6
20	2018-11-28 11:06:20	108.5	109.7	60.0	0	100	41.0	2.28	22.0/71.6
21	2018-11-28 11:06:16	108.5	109.8	60.0	1	100	41.0	2.28	22.0/71.6

■ 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.

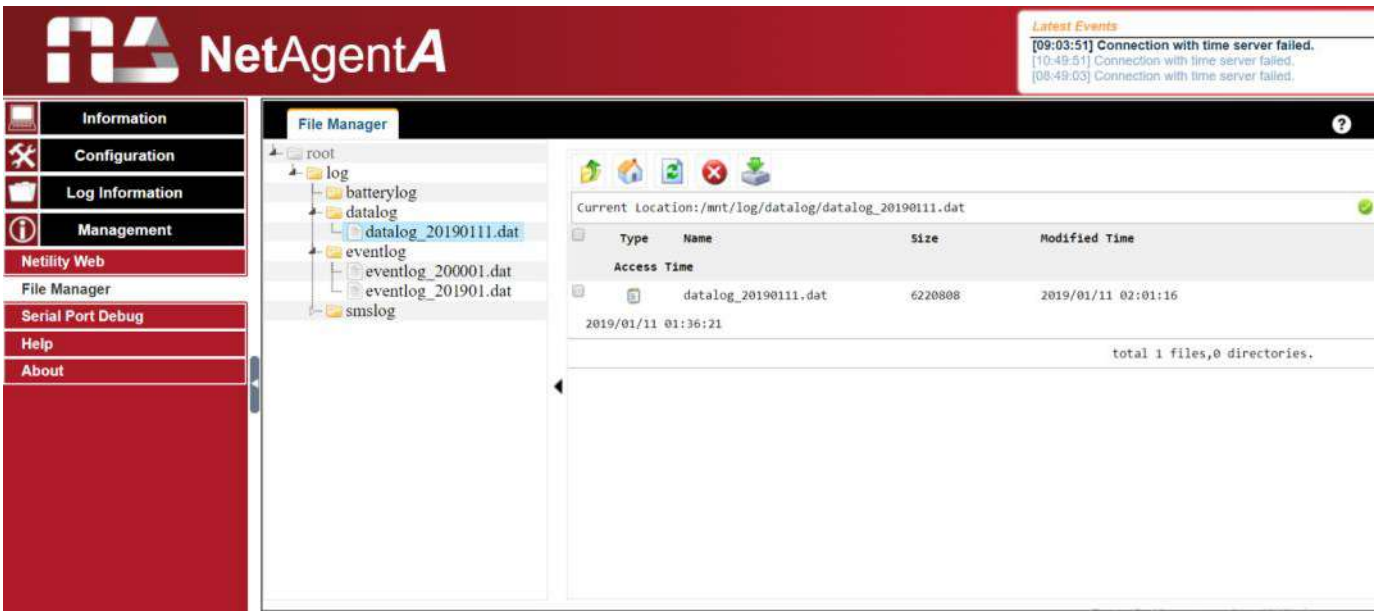


■ Management > Netility Web

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**

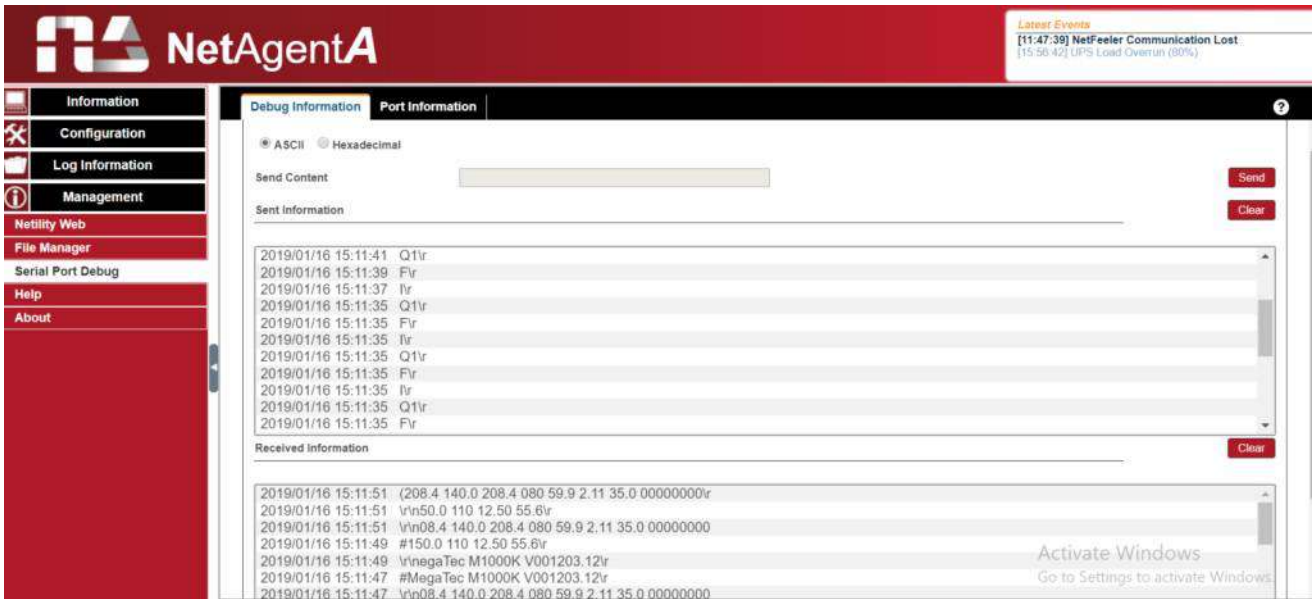
Command can send automatically by NetAgent*A*, or manually enter the command to UPS.

Sent Information

This column shows the real time sent command

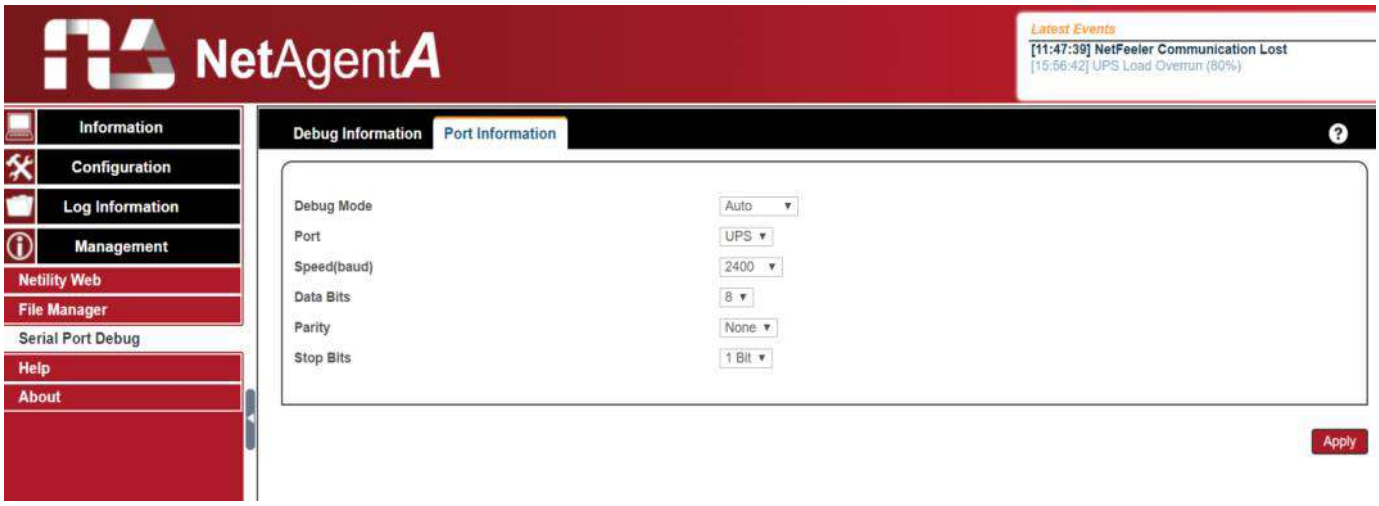
Received Information

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



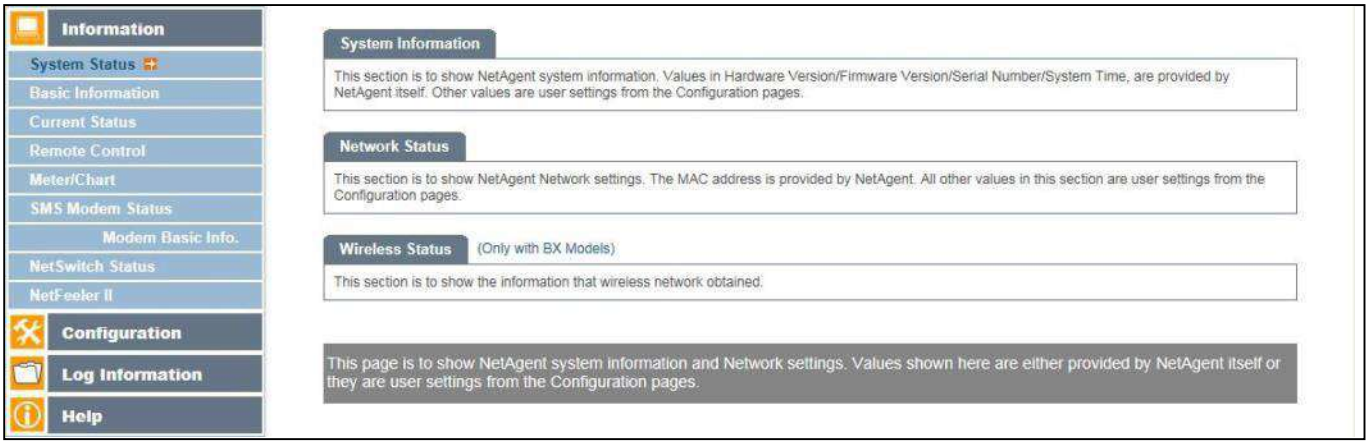
- **Port Information**

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**

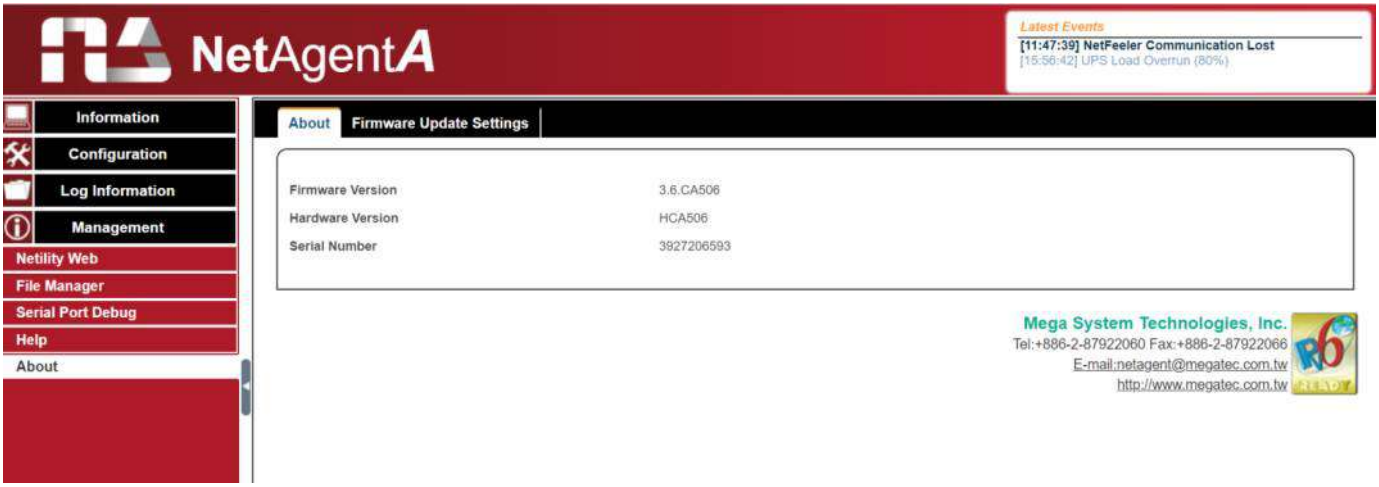
This is to help to illustrate each feature/option that NetAgent*A* offers



■ **Management > About**

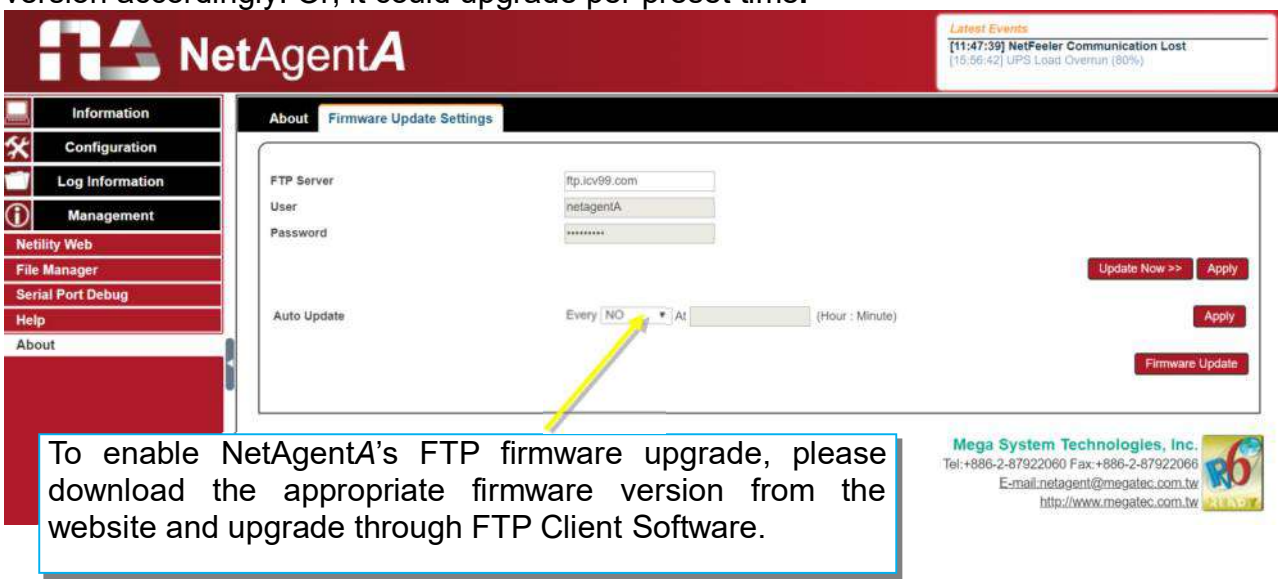
- **About**

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.



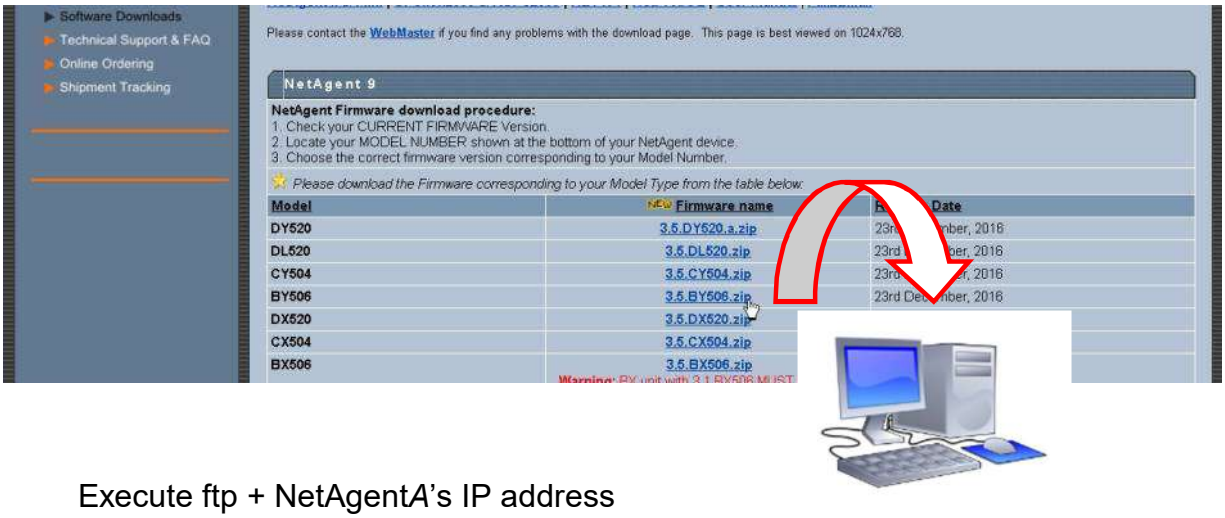
To enable NetAgent*A*'s FTP firmware upgrade, please download the appropriate firmware version from the website and upgrade through FTP Client Software.

Update Firmware from FTP Client

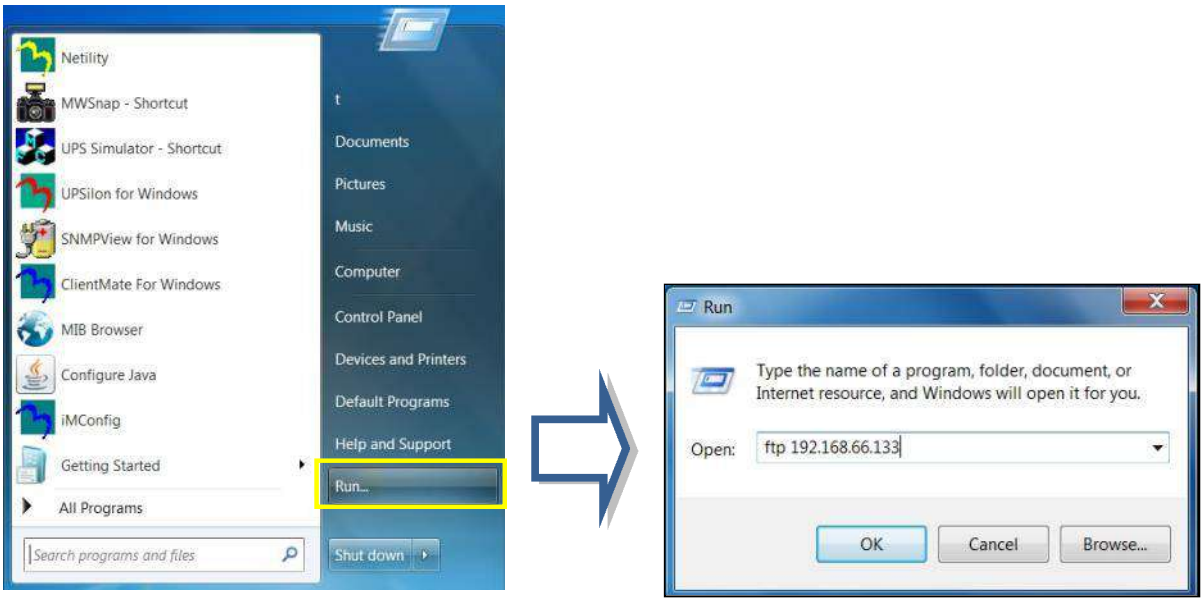
-Select on Enable

-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