

NetAgentA

UPS SNMP Agent

User's Manual

User Guide for NetAgentA Mini

Version 1.0

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Technical Support and Contact Information

Mega System Technologies, Inc.

Tel: +886-2-87922060

Fax: +886-2-87922066

Web: www.megatec.com.tw

E-mail: service@megatec.com.tw

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Chapter 1. Introduction

1.1 Features

NetAgentA 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. NetAgentA provides a simple and easy installation procedure. CD provides along with NetAgentA 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

■ NetAgentA allows UPS to be monitor on network

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

■ NetAgentA 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.

■ NetAgentA for Surrounding Monitoring

NetAgentA 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 NetAgentA 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

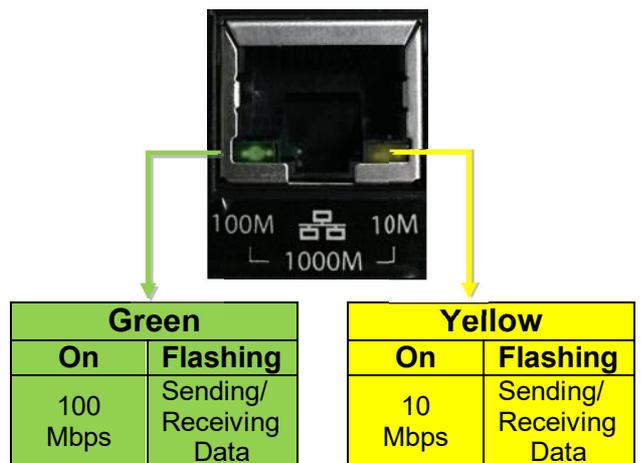
2.1 NetAgentA Mini Models

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

2.2 NetAgentA Mini LED Indication



Amber  Communication Flashing Transferring data with UPS		Red  Connection Status with UPS <table border="1"> <tr> <td>Flashing</td> <td>Off</td> </tr> <tr> <td>Lost connection</td> <td>Connecting with UPS</td> </tr> </table>		Flashing	Off	Lost connection	Connecting with UPS				
Flashing	Off										
Lost connection	Connecting with UPS										
Green  Power Status <table border="1"> <tr> <td>On</td> <td>Off</td> </tr> <tr> <td>Normal</td> <td>No Power</td> </tr> </table>		On	Off	Normal	No Power	Yellow  NetAgentA Mini Status <table border="1"> <tr> <td>On</td> <td>Off</td> </tr> <tr> <td>Operating</td> <td>Stop working</td> </tr> </table>		On	Off	Operating	Stop working
On	Off										
Normal	No Power										
On	Off										
Operating	Stop working										



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 	On	On	Off
NetAgentA Mini 9 Status			
Red 	Off	Flashing	Flashing
UPS Communication			
Green 	On	On	On
Power			

Chapter 3 Software Installation

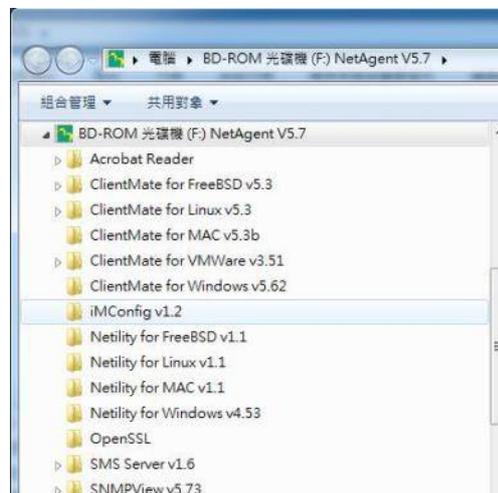
3.1 Software Installation

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

The screenshot shows the 'NetAgent Utility Installation Wizard' with the 'Program Installation' section selected. A 'Main Menu' is visible on the left with options: Introduction, Operating System Supported, System Requirements, Program Installation (highlighted), View Manuals, Contact Information, and Exit. The 'Program Installation' section lists several software options with arrows pointing to callout boxes:

- Netility:** Configure and Search NetAgentA. Refer to 4.3
- ClientMate:** Shutdown OS Software. Refer to Chapter 6
- SMS Server:** SMS notification Software. Refer to Chapter 9
- SNMPView:** Multi monitoring Software. Refer to Chapter 7
- Time Server:** Time server software
- iMConfig:** Multi-configuration Software. Refer to Chapter 8

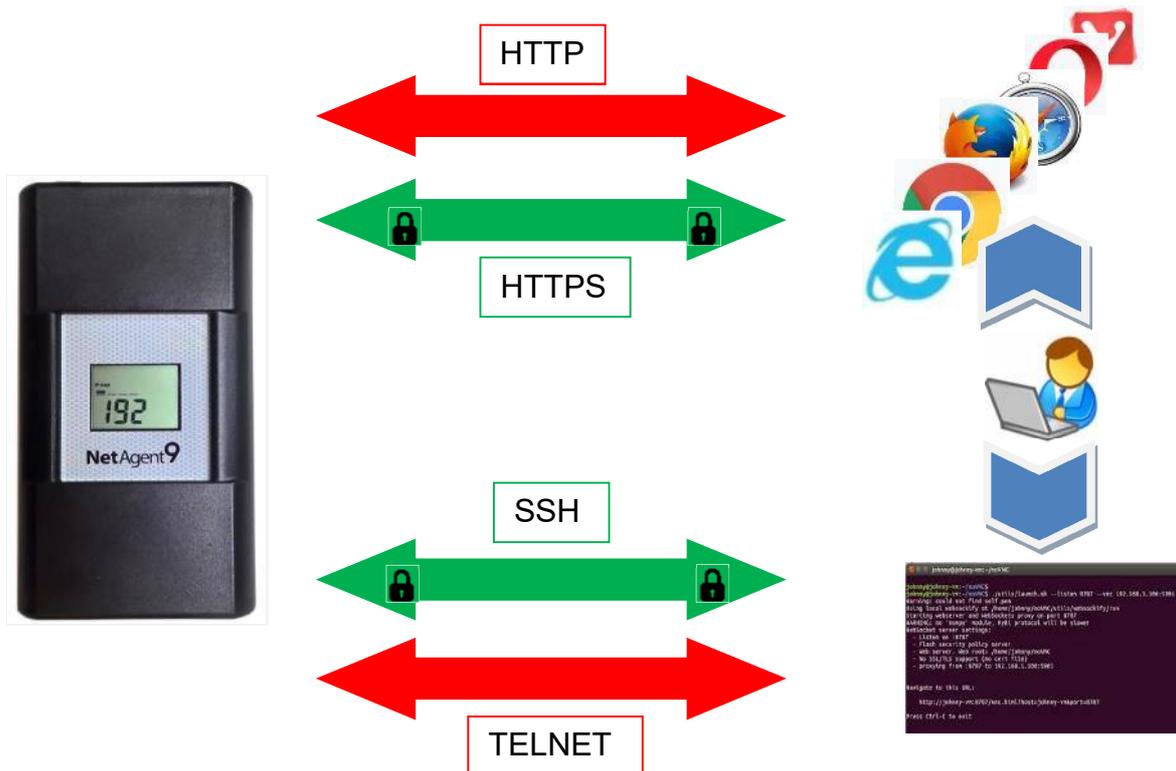
If the PC does not executes CD program automatically, please select from File Management



Chapter 4. NetAgentA Setting

4.1 Introduction

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



4.2 NetAgentA Login Procedure

1. Connect NetAgentA to modem/router

2. Install Netility under same network

3. NetAgentA searches all available NetAgentA within same network

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

5. Enter IP address of the NetAgentA on browser

5. Double click NetAgentA from Netility

5. Login via HyperTerminal

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

7. Enter other parameter on NetAgentA webpage

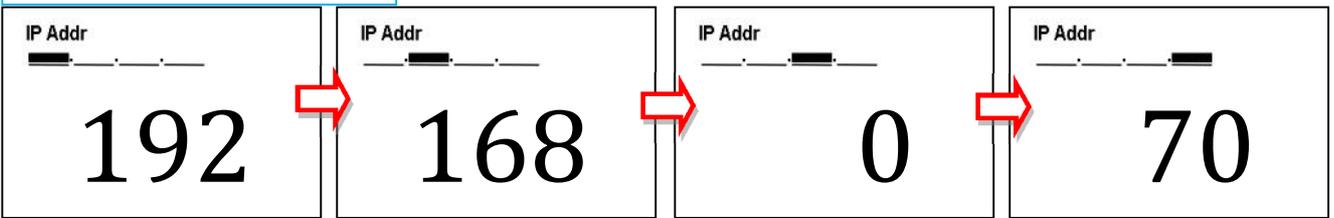
NOTE 1 : Each NetAgentA has its unique serial number / MAC address and Password. This is available on the label of each unit. This helps to identify the card information on Netility



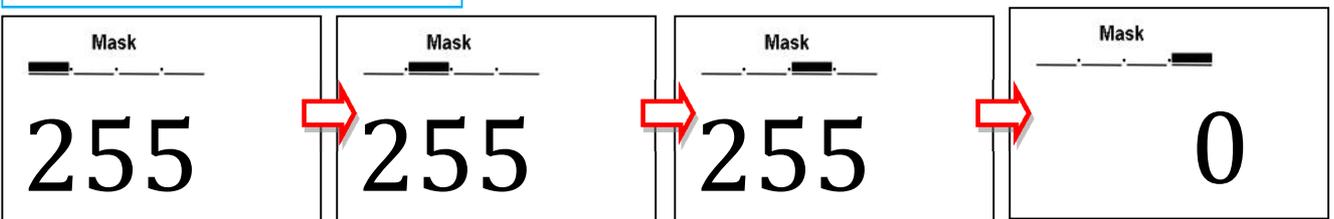
NOTE 2 : NetAgentA with LCD display may obtain the IP info from it.

Example of LCD display format as below

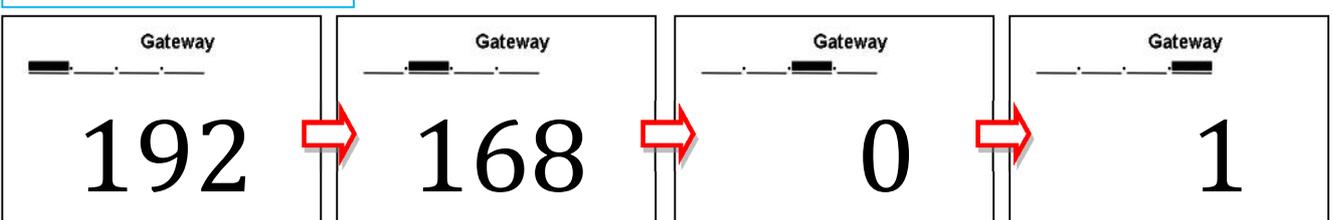
IP address 192.168.0.70



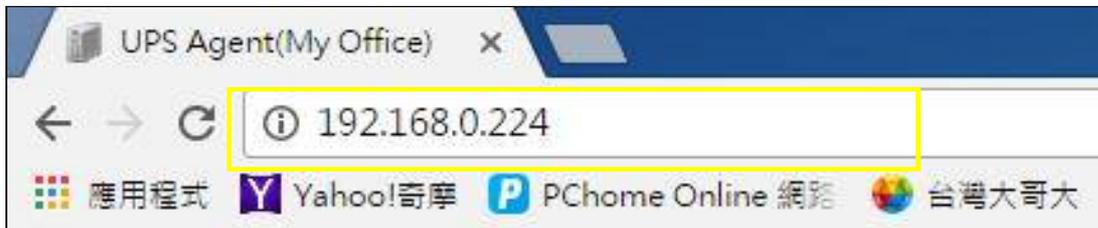
Subnet Mask: 255.255.255.0



Gateway: 192.168.0.1



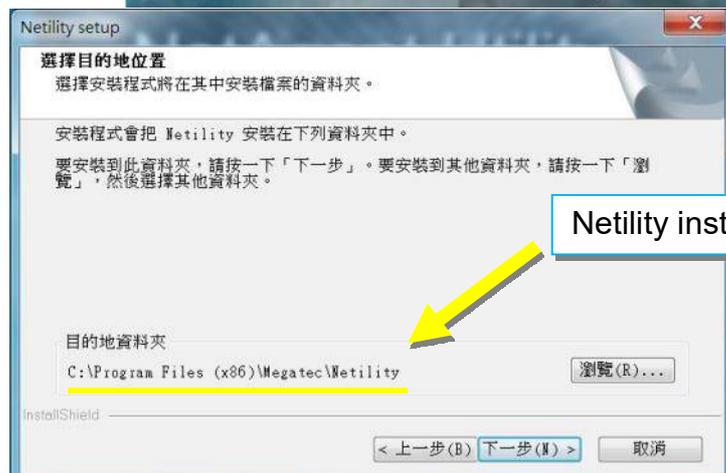
When NetAgentA IP is known, enter such IP address on the browser to login. If non-LCD NetAgentA model, install Netility software to find and configure its IP address.



4.3 Netility Installation and Setting

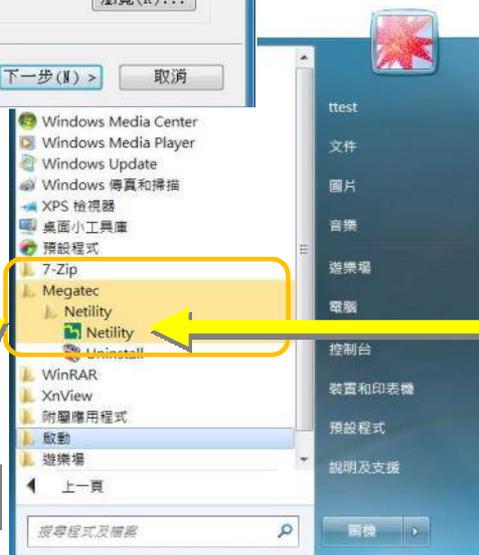
■ Netility Installation

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



Netility installation directory

Under All Programs/ Megatec File Directory

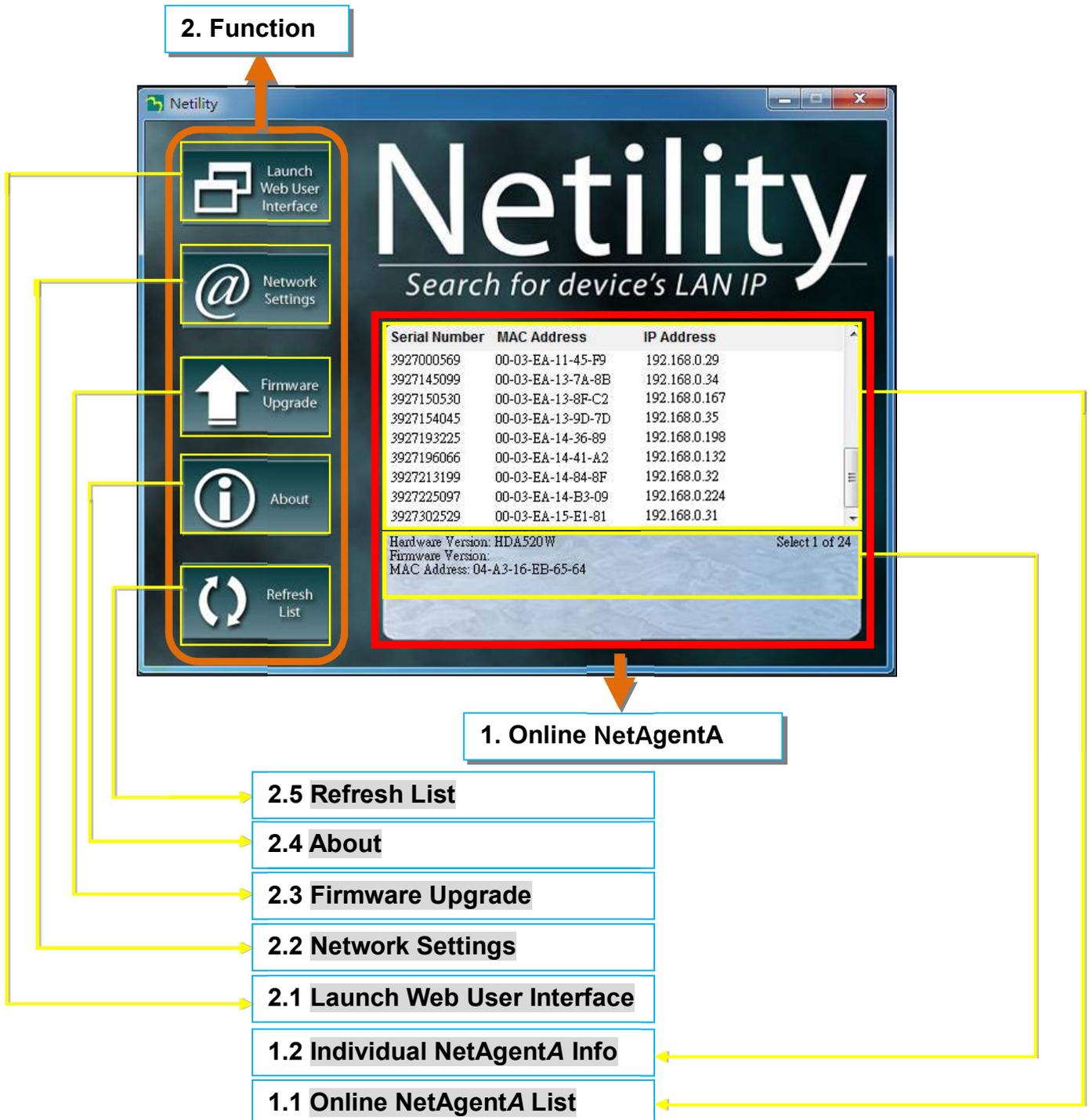


Netility Software

■ Netility Operation and Setting

Netility main pages divided into 2 sections:

1. Online NetAgentA List 2. Function Selection



1.1 Online NetAgentA List

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

The Netility application interface displays a list of devices with the following columns: Serial Number, MAC Address, and IP Address. The table is highlighted with a yellow border in the top screenshot. A blue arrow points from the table in the top screenshot to the bottom screenshot, where a yellow arrow points to a specific row in the table. A callout box with the text "Double click to login to the webpage" is positioned over the yellow arrow.

Serial Number	MAC Address	IP Address
3927000569	00-03-EA-11-45-F9	192.168.0.29
3927145099	00-03-EA-13-7A-8B	192.168.0.34
3927150530	00-03-EA-13-8F-C2	192.168.0.167
3927154045	00-03-EA-13-9D-7D	192.168.0.35
3927193225	00-03-EA-14-36-89	192.168.0.198
3927196066	00-03-EA-14-41-A2	192.168.0.132
3927213199	00-03-EA-14-84-8F	192.168.0.32
3927225097	00-03-EA-14-B3-09	192.168.0.224
3927302529	00-03-EA-15-E1-81	192.168.0.31

Hardware Version: HDA520W Select 1 of 24

Hardware Version: HBY506
Firmware Version: 3.5.BY506
MAC Address: 00-03-EA-14-B3-09 Select 1 of 23

Double click to login to the webpage

1.2 Individual NetAgentA Info

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

The screenshot displays the Netility application window. On the left sidebar, there are buttons for 'Launch Web User Interface', 'Network Settings', 'Firmware Upgrade', 'About', and 'Refresh List'. The main area features the 'Netility' logo and the instruction 'Search for device's LAN IP'. Below this is a table with columns for 'Serial Number', 'MAC Address', and 'IP Addr'. A yellow arrow points to a row in the table, with a callout box saying 'Click on NetAgentA'. Below the table, a detailed view of a selected device is shown, with callouts for 'Hardware Version' (pointing to 'HBY506'), 'Firmware Version' (pointing to '3.5.BY506'), and 'Total Number of NetAgentA found and selected' (pointing to 'Select 1 of 23').

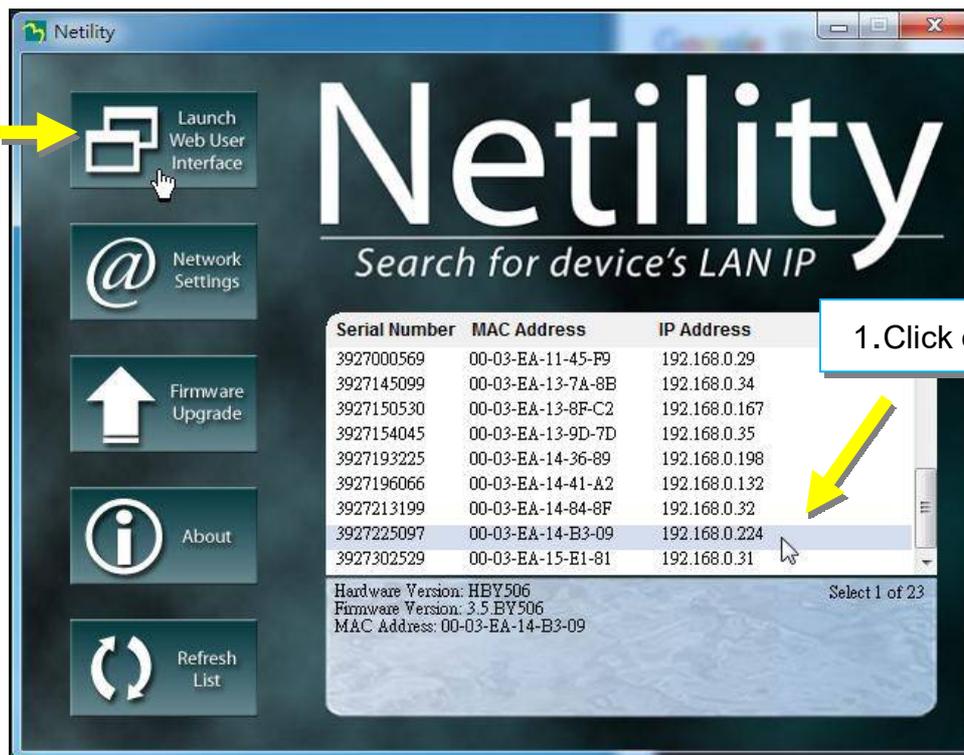
Serial Number	MAC Address	IP Addr
3927000569	00-03-EA-11-45-F9	192.168.0.25
3927145099	00-03-EA-13-7A-8B	192.168.0.34
3927150530	00-03-EA-13-8F-C2	192.168.0.167
3927154045	00-03-EA-13-9D-7D	192.168.0.35
3927193225	00-03-EA-14-36-89	192.168.0.198
3927196066	00-03-EA-14-41-A2	192.168.0.132
3927213199	00-03-EA-14-84-8F	192.168.0.32
3927225097	00-03-EA-14-B3-09	192.168.0.224
3927302529	00-03-EA-15-E1-81	192.168.0.31

Hardware Version: HBY506
Firmware Version: 3.5.BY506
MAC Address: 00-03-EA-14-B3-09

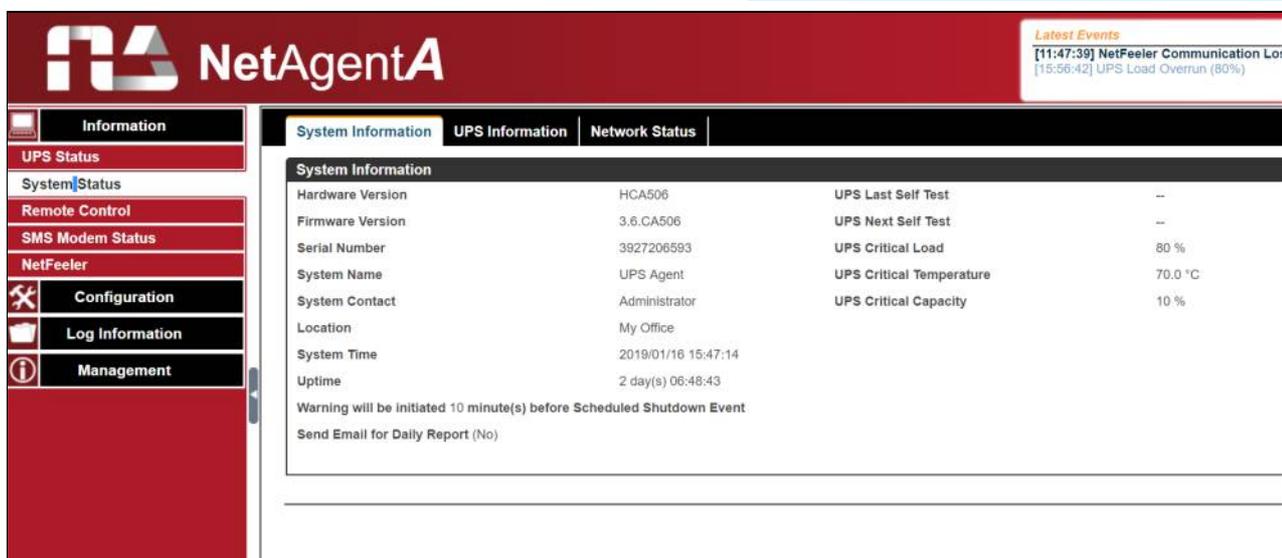
Select 1 of 23

2.1 Launch Web User Interface

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



Login to the webpage of such NetAgentA



2.2 Network Settings

- When connecting the NetAgentA for the first time, ensure IP address and other network setting are correctly entered in order to login to the NetAgentA'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
- NetAgentA 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 HyperTerminal should be "http://X.X.X.X 24" (X.X.X.X is the IP address of the NetAgentA)
- When password of the NetAgentA is enabled, it is necessary to enter the correct password before making any configuration change and firmware upgrade

The image shows a screenshot of the Netility web interface with several callouts and arrows indicating the steps to configure a NetAgentA. The interface includes a sidebar with buttons for 'Launch Web User Interface', 'Network Settings', 'Firmware Upgrade', and 'About'. A table lists device information, and a 'Configure' dialog box is open for IP address configuration.

1. Click on specific NetAgentA

2. Click on Network Settings

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	169.254.70.73

Select to assign IP by DHCP

Columns requires to be entered for Static IP address

Configure

IP Address | Advanced | Password

Address Configuration

Obtain IP address by DHCP

Obtain IP address by BOOTP

Use following Static IP address

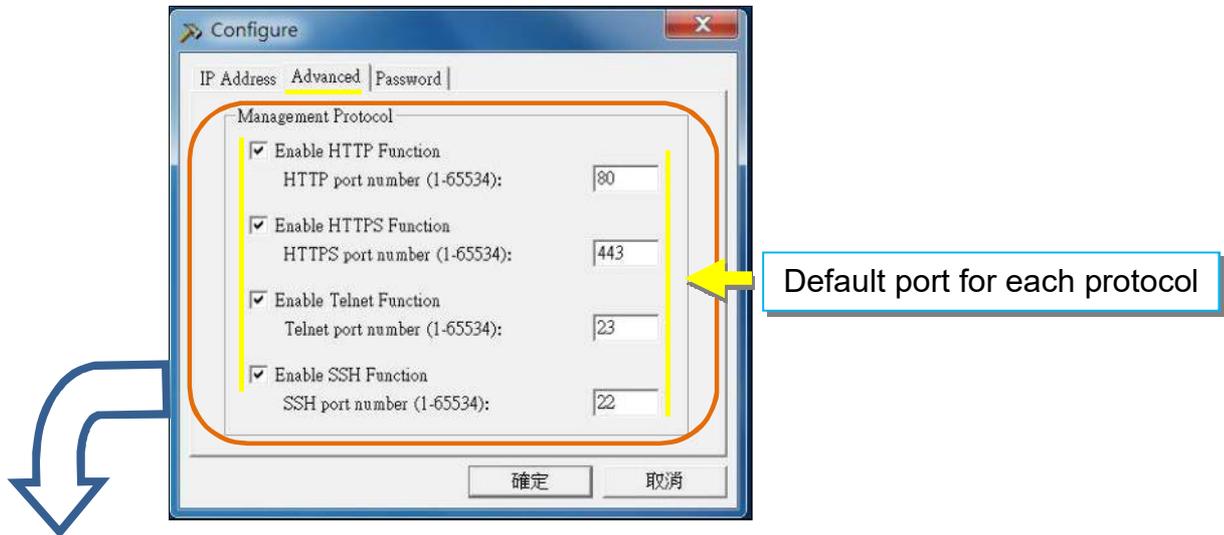
IP Address

IP Address: 192 . 168 . 1 . 110

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

確定 取消

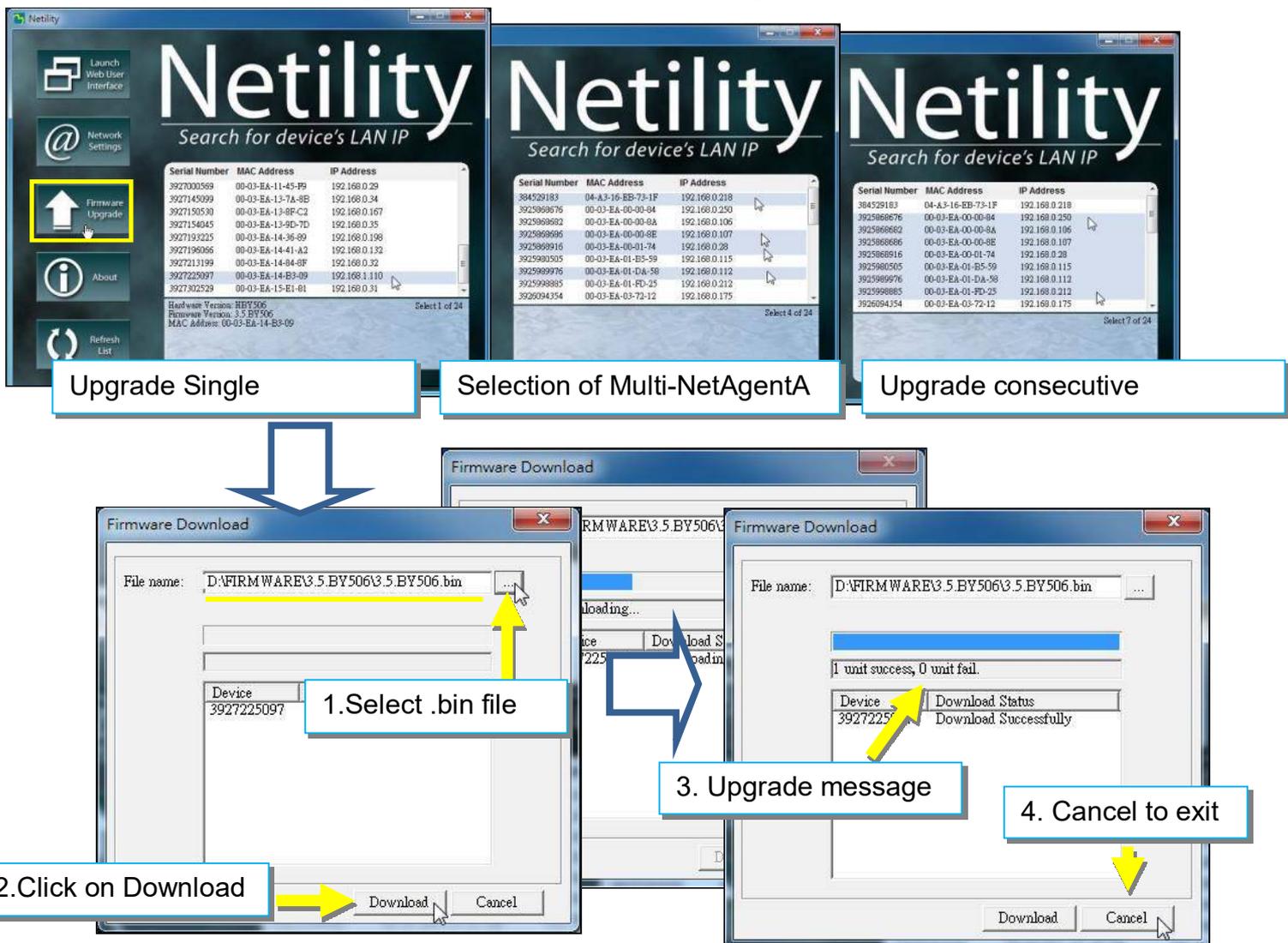


Once password is enabled and configured, it is required to enter the correct password when change any setting or firmware upgrade



2.3 Firmware Upgrade

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



2.4 About

Here shows the current Netility version



2.5 Refresh List

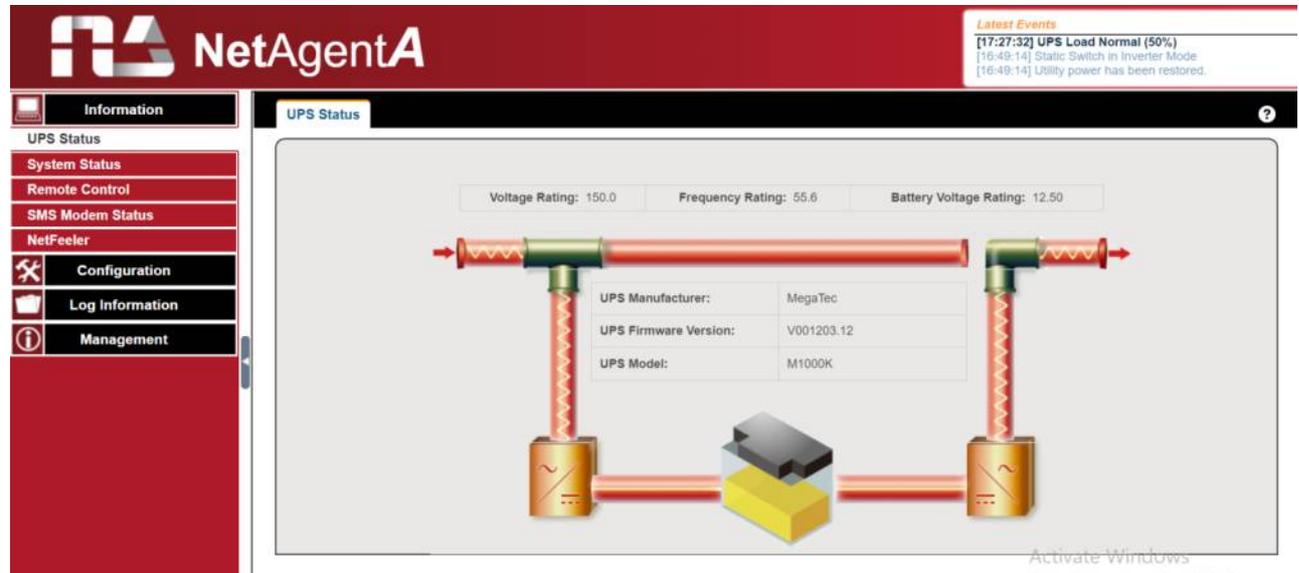
The list on Netility would refresh every 2 minutes automatically, however, manual refresh is also possible by clicking Refresh List



4.4 NetAgentA Web Interface & Setting

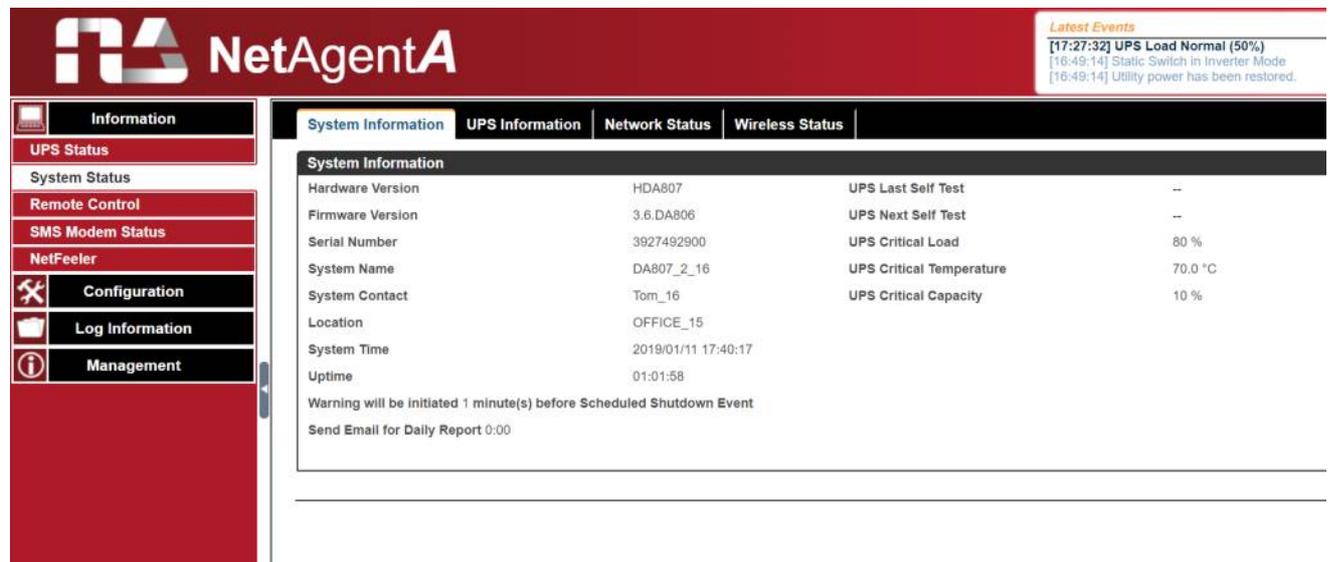
- Information > UPS Status
- **UPS Status**

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



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

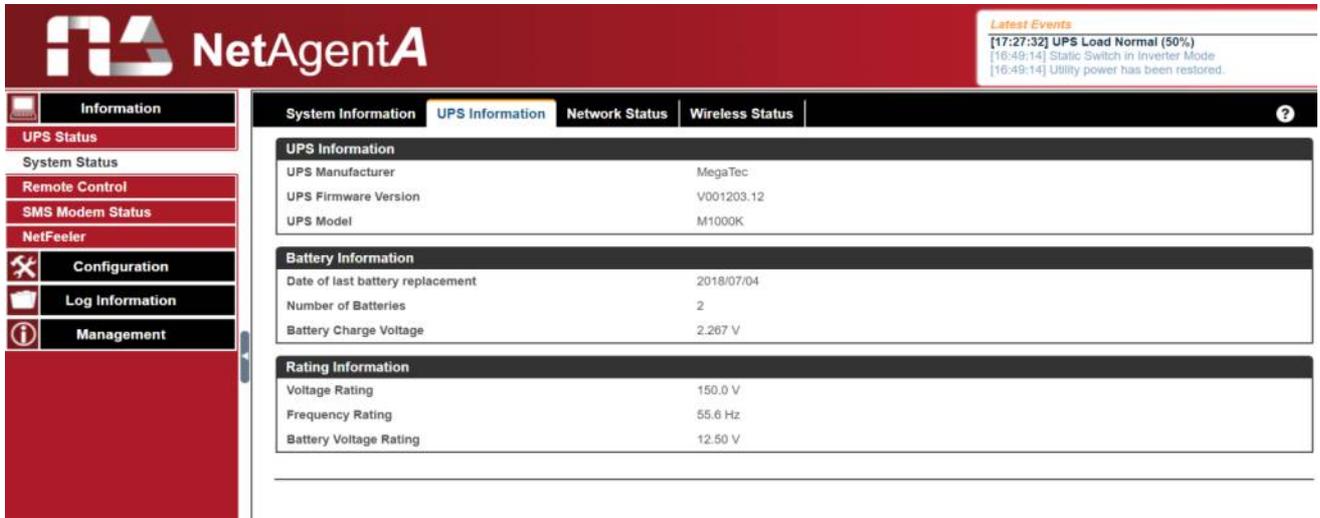
Here shows all the basic information of the NetAgentA such as hardware / firmware version; Serial Number; Uptime...etc.



- 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



The screenshot shows the NetAgentA web interface. The top navigation bar includes 'Information', 'UPS Information', 'Network Status', and 'Wireless Status'. The left sidebar contains 'UPS Status', 'System Status', 'Remote Control', 'SMS Modem Status', 'NetFeeler', 'Configuration', 'Log Information', and 'Management'. The main content area is divided into three sections: 'UPS Information', 'Battery Information', and 'Rating Information'. A 'Latest Events' box in the top right corner shows a log of events.

UPS Information	
UPS Manufacturer	MegaTec
UPS Firmware Version	V001203.12
UPS Model	M1000K

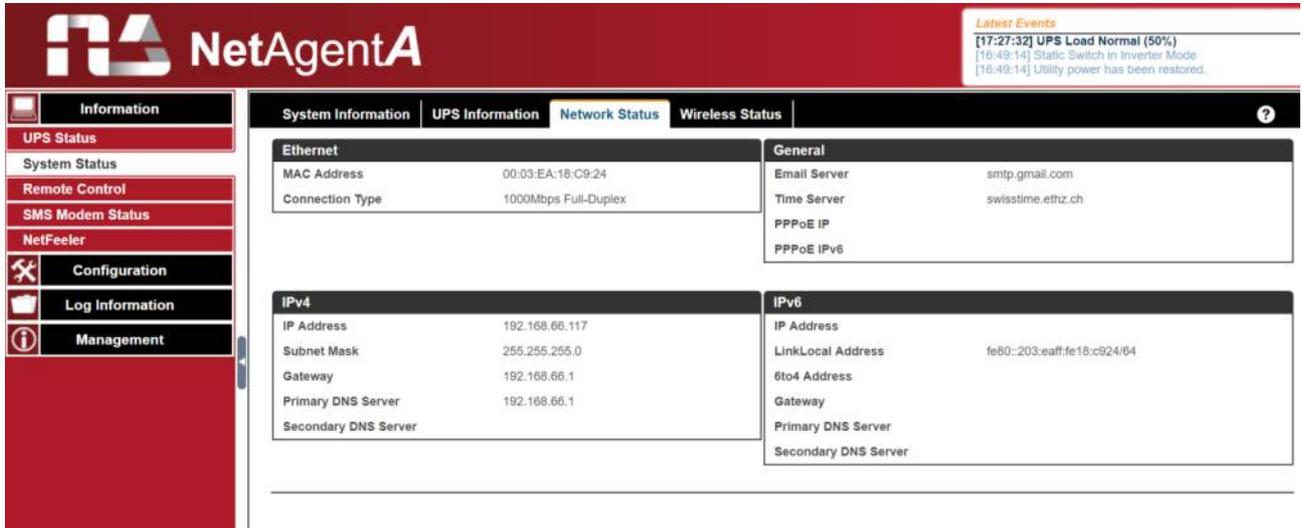
Battery Information	
Date of last battery replacement	2018/07/04
Number of Batteries	2
Battery Charge Voltage	2.267 V

Rating Information	
Voltage Rating	150.0 V
Frequency Rating	55.6 Hz
Battery Voltage Rating	12.50 V

- Information > System Status

- Network Status

This page shows the network information of NetAgentA.



The screenshot shows the NetAgentA web interface with the 'Network Status' tab selected. The left sidebar is identical to the previous screenshot. The main content area displays network configuration details for Ethernet, IPv4, and IPv6. A 'Latest Events' box is also present in the top right corner.

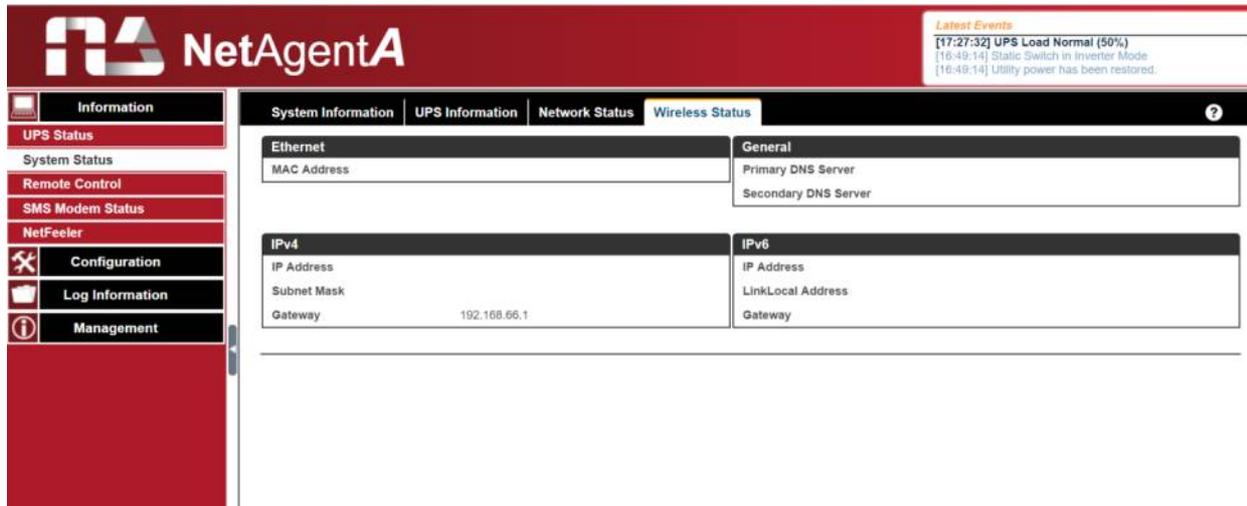
Ethernet		General	
MAC Address	00:03:EA:18:C9:24	Email Server	smtp.gmail.com
Connection Type	1000Mbps Full-Duplex	Time Server	swisstime.ethz.ch
		PPPoE IP	
		PPPoE IPv6	

IPv4		IPv6	
IP Address	192.168.66.117	IP Address	
Subnet Mask	255.255.255.0	LinkLocal Address	fe80::203:eaff:fe18:c924/64
Gateway	192.168.66.1	6to4 Address	
Primary DNS Server	192.168.66.1	Gateway	
Secondary DNS Server		Primary DNS Server	
		Secondary DNS Server	

■ Information > System Status

• **Wireless Status**

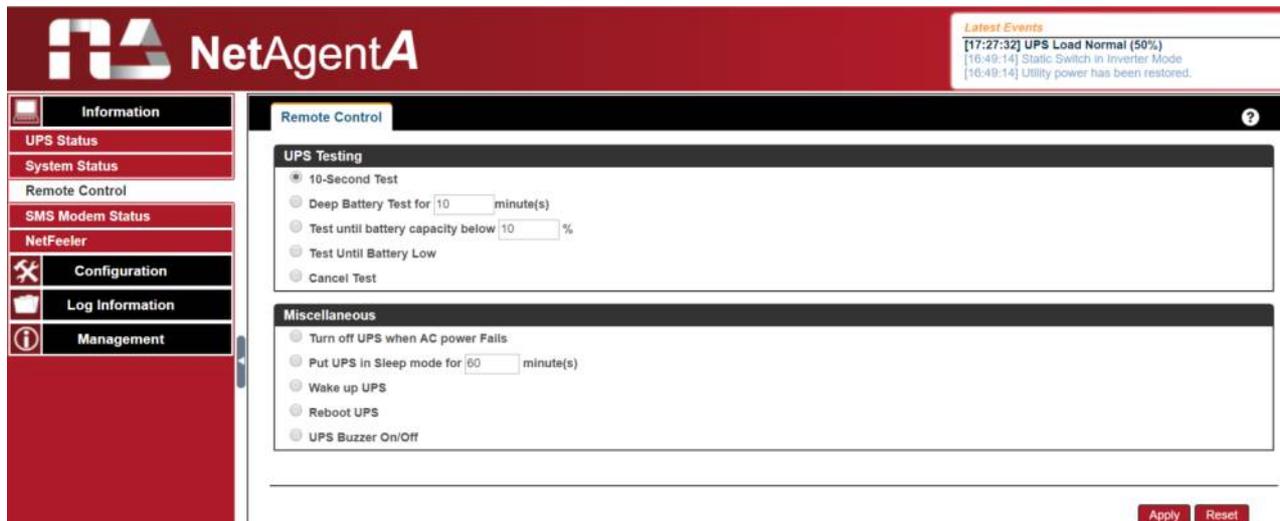
This page is to show Wireless connection status and information when NetAgentA communicates via the compatible WiFi dongle



The screenshot shows the NetAgentA web interface. The top navigation bar includes 'Information', 'UPS Information', 'Network Status', and 'Wireless Status'. The 'Wireless Status' tab is active. The main content area is divided into four sections: Ethernet, General, IPv4, and IPv6. The Ethernet section shows MAC Address. The General section shows Primary DNS Server and Secondary DNS Server. The IPv4 section shows IP Address, Subnet Mask, and Gateway (192.168.66.1). The IPv6 section shows IP Address, LinkLocal Address, and Gateway. A 'Latest Events' box in the top right corner displays three events: [17:27:32] UPS Load Normal (50%), [16:49:14] Static Switch in Inverter Mode, and [16:49:14] Utility power has been restored. A left sidebar contains navigation options: Information, UPS Status, System Status, Remote Control, SMS Modem Status, NetFeeler, Configuration, Log Information, and Management.

■ 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.



The screenshot shows the NetAgentA web interface with the 'Remote Control' tab selected. The main content area is divided into two sections: 'UPS Testing' and 'Miscellaneous'. The 'UPS Testing' section includes radio buttons for '10-Second Test', 'Deep Battery Test for 10 minute(s)', 'Test until battery capacity below 10 %', 'Test Until Battery Low', and 'Cancel Test'. The 'Miscellaneous' section includes radio buttons for 'Turn off UPS when AC power Falls', 'Put UPS in Sleep mode for 60 minute(s)', 'Wake up UPS', 'Reboot UPS', and 'UPS Buzzer On/Off'. At the bottom right, there are 'Apply' and 'Reset' buttons. The 'Latest Events' box in the top right corner displays the same three events as the previous screenshot. The left sidebar contains navigation options: Information, UPS Status, System Status, Remote Control, SMS Modem Status, NetFeeler, Configuration, Log Information, and Management.

■ **Information > SMS Modem Status**

This page shows the Modem status when GPRS modem is connecting with NetAgentA

■ **Information > NetFeeler**

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

NetFeeler Status			
Environmental Temperature	29.1 C (84.3 F)	Security1 Status	Normal
Environmental Humidity	96 %	Security2 Status	Normal
Water Status	Normal	Security3 Status	Normal
Gas Status	Normal	Security4 Status	Normal
Smoke Status	Normal	Security5 Status	Normal
		Security6 Status	Normal
		Security7 Status	Normal

■ **Configuration > UPS Configuration**

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

UPS Communication Type:

In order to establish the connection between NetAgentA 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

NetAgentA

Latest Events
 [18:00:01] UPS enter Sleep Mode.Power will be cut off
 [17:59:00] UPS Schedule Shutdown
 [17:27:32] UPS Load Normal (50%)

UPS Properties | **Test Log** | **Warning Threshold Value**

UPS Configuration Type: MegaTec
 Number of Batteries: 2
 Battery Full Charge Voltage (V): 2.267
 Battery Exhausted Charge Voltage (V): 1.667
 Date of Last Battery Replacement (mm/dd/yyyy): 2018/07/04

Apply | Reset

Activate Windows

- **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

NetAgentA

Latest Events
 [18:00:01] UPS enter Sleep Mode.Power will be cut off
 [17:59:00] UPS Schedule Shutdown
 [17:27:32] UPS Load Normal (50%)

UPS Properties | **Test Log** | **Warning Threshold Value**

Test UPS

Test UPS every: None
 Start Time of UPS Test (hh:mm):
 UPS Test Type: 10-Second Test

UPS Recorder

UPS Data Log: 0 Minute(s) (-1 = Stop Recording)

Apply | Reset

Activate Windows

- **Warning Threshold Values**

Time out after loss of connection :

Send warning alarm when NetAgentA and UPS lost connection at this configured time

Critical Load(%) :

When loading reaches at this % configured, NetAgentA will send warning alarm

UPS Temperature (°C) :

When UPS temperature reaches at this degree configured, NetAgentA will send warning alarm

Critical Capacity (%) :

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

The screenshot shows the NetAgentA interface with the 'Warning Threshold Value' configuration page. The left sidebar contains navigation options: Information, Configuration, UPS Configuration, UPS On/Off Schedule, Network, Wireless LAN, SNMP, Email, SMS, Web/Telnet/FTP, BACnet, SMS Modem, NetFeeler, System, Log Information, and Management. The main content area has tabs for 'UPS Properties', 'Test Log', and 'Warning Threshold Value'. The configuration fields are: 'Time out after loss of connection' (30 seconds), 'Critical Load (%)' (80), 'Critical Temperature (°C)' (70.0), and 'Critical Capacity (%)' (10). There are 'Apply' and 'Reset' buttons at the bottom right. A 'Latest Events' box in the top right corner shows: [18:00:01] UPS enter Sleep Mode.Power will be cut off, [17:59:00] UPS Schedule Shutdown, and [17:27:32] UPS Load Normal (50%).

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

- **UPS Action**

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

The screenshot shows the NetAgentA interface with the 'UPS Action' configuration page. The left sidebar is the same as in the previous screenshot. The main content area has tabs for 'UPS Action', 'Remote Shutdown', 'Weekly Schedule', 'Date Schedule', and 'Wake On Lan'. The configuration shows: 'During 00:00 - 23:59, if UPS Load Overrun occur, then turn off UPS after 1 minutes.' There is an 'Add' button. Below is a table of configured actions:

No.	During Time Interval(HH:MM)	Event	Device	Delay Time	
1	00:00 - 23:59	UPS Load Overrun	UPS	3	[Delete]
2	00:00 - 23:59	AC Power Failed	UPS	3	[Delete]
3	00:00 - 23:59	UPS Battery Low	UPS	3	[Delete]
4	00:00 - 23:59	UPS Temperature Overrun	UPS	3	[Delete]
6	00:00 - 23:59	Environmental Temperature Underrun	UPS	3	[Delete]
9	00:00 - 23:59	Environmental Water	UPS	3	[Delete]
10	00:00 - 23:59	Environmental Smoke	UPS	3	[Delete]
12	00:00 - 23:59	Environmental Security 1	UPS	3	[Delete]
13	00:00 - 23:59	Environmental Security 2	UPS	3	[Delete]

The 'Latest Events' box in the top right corner shows: [18:28:13] UPS communication has been lost., [18:00:01] UPS enter Sleep Mode.Power will be cut off, and [17:59:00] UPS Schedule Shutdown.

- **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. (Telnet 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.

No.	During Time Interval(HH:MM)	Event	Device	Delay Time	
1	00:00 - 23:59	AC Power Failed	host1(192.168.66.222)	1	[Delete]
2	00:00 - 23:59	AC Power Failed	host2(192.168.66.223)	1	[Delete]
3	00:00 - 23:59	UPS Load Overrun	UPS	3	[Delete]

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**

	Domain Name / IP	Login Mode	Port	User Name	Password	Shutdown Commands	
Host1	192.168.66.222	Telnet	23	Administrator	*****	shutdown /a	Test
Host2	192.168.66.223	SSH	22	root	*****	halt	Test
Host3		SSH	22			halt	Test
Host4		SSH	22			halt	Test
Host5		SSH	22			halt	Test
Host6		SSH	22			halt	Test
Host7		SSH	22			halt	Test
Host8		SSH	22			halt	Test

- Weekly Schedule**

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

	Turn On (hh:mm)	Turn Off (hh:mm)
Sunday	09:00	18:00
Monday	09:00	18:00
Tuesday	09:00	18:00
Wednesday	09:00	18:00
Thursday	09:00	18:00
Friday	09:00	18:00
Saturday	09:00	18:00

Warning will be initiated before Scheduled Shutdown Event

- 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

NetAgentA 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.

Date (yyyy/mm/dd)	Turn On (hh:mm)	Turn Off (hh:mm)
2018/07/13	10:00	10:05
2018/07/13	10:10	10:15
2018/07/13	10:20	10:25
2018/07/13	10:30	10:35
2018/07/13	10:40	10:45
2018/07/13	10:50	10:55
2018/07/13	11:00	11:05

Warning will be initiated before Scheduled Shutdown Event

- **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.

NetAgentA Latest Events
 [18:28:13] UPS communication has been lost.
 [18:00:01] UPS enter Sleep Mode.Power will be cut off
 [17:59:00] UPS Schedule Shutdown

UPS Action Remote Shutdown Weekly Schedule Date Schedule **Wake On Lan**

General Settings

Host1	IP:		MAC:		Test
Host2	IP:		MAC:		Test
Host3	IP:		MAC:		Test
Host4	IP:		MAC:		Test
Host5	IP:		MAC:		Test
Host6	IP:		MAC:		Test
Host7	IP:		MAC:		Test
Host8	IP:		MAC:		Test

Miscellaneous

Wake up remote host after power restore

Wait until battery capacity reaches to 10 %.

- **Configuration > Network**

This page is to set NetAgentA's Network settings.

- **IPv4**

NetAgentA 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

NetAgentA Latest Events
 [18:28:13] UPS communication has been lost.
 [18:00:01] UPS enter Sleep Mode.Power will be cut off
 [17:59:00] UPS Schedule Shutdown

IPv4 IPv6 Ethernet Dynamic DNS PPPoE

IP Address

IP Address: 192.168.66.117
 Subnet Mask: 255.255.255.0
 Gateway: 192.168.66.1
 Obtain an IP address: Using DHCP

DNS Server IP

Primary DNS Server IP: 192.168.66.1
 Secondary DNS Server IP:
 Obtain DNS Server IP: Automatically

Apply Reset

- **IPv6**

All NetAgentA 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, NetAgentA will reboot

The screenshot shows the NetAgentA web interface with the IPv6 configuration page selected. The 'Obtain an address' dropdown menu is open, showing options: Automatic, Stateless DHCPV6, DHCPV6, and Manual. The Multicast Address field is set to FF1E::1. A red warning message at the bottom states: '* : System will reboot when these items have been Applied.'

- **Ethernet**

Connection Type

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

☛ Once click on Apply, NetAgentA will reboot

Stop UPS communication when Ethernet disconnected

This section is to set if to stop UPS communication when NetAgentA 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

The screenshot shows the NetAgentA web interface with the Ethernet configuration page selected. The 'Connection Type' dropdown is set to 'Auto Sense'. The 'Stop UPS communication when Ethernet disconnected' dropdown is set to 'No'. The 'Modbus on TCP Device ID' field contains the value '1'. A red warning message at the bottom states: '* : System will reboot when these items have been Applied.'

- **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

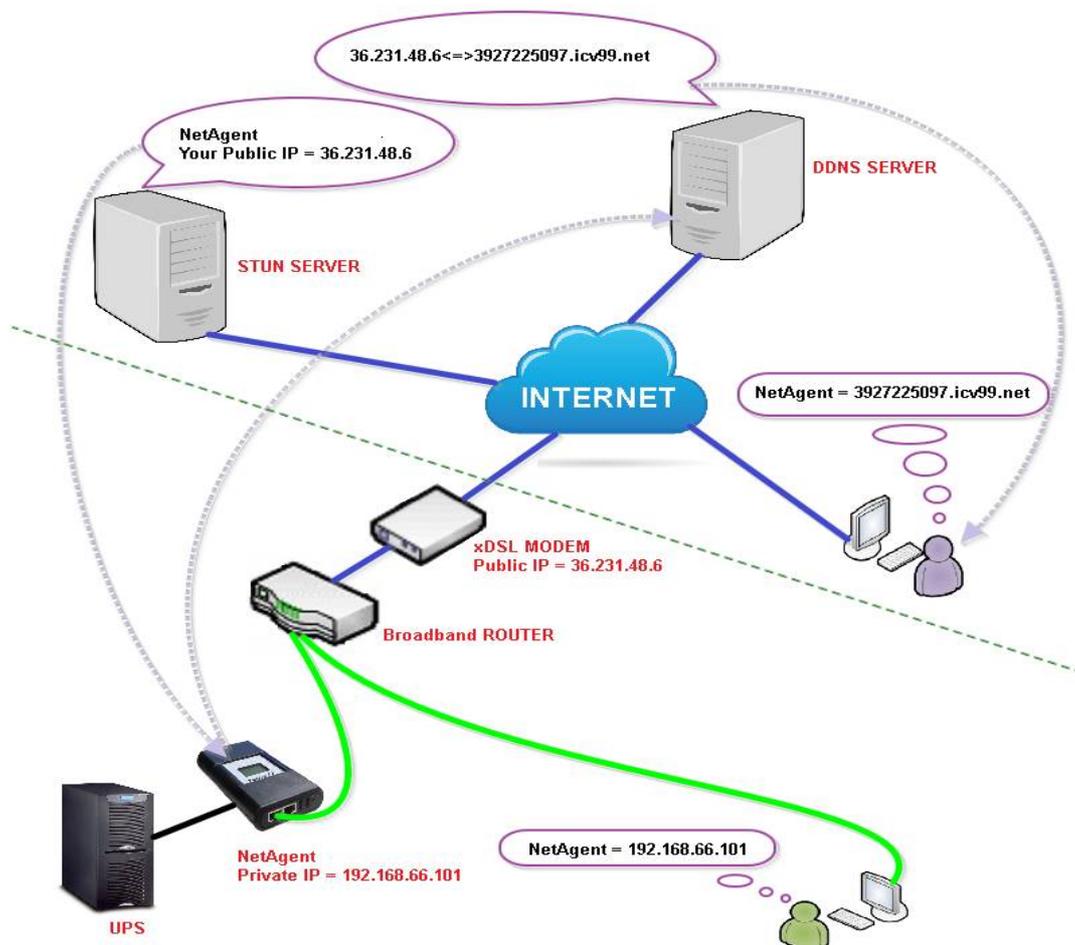
This is the Login / Account name that you have created with the selected DDNS provider.

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 NetAgentA 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 NetAgentA 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 NetAgentA which is printed on the NetAgentA label, then click Apply.

The screenshot shows the NetAgentA configuration page for Dynamic DNS. The 'Service Provider' dropdown is set to 'None', and a dropdown menu is open showing 'icv99.net' selected. The 'Domain Name' and 'Login Name' fields are filled with the device's serial number. The 'Login Password' field is empty. The 'Primary STUN Server IP' is set to 211.21.67.53. The 'Apply' button is highlighted with a yellow arrow.

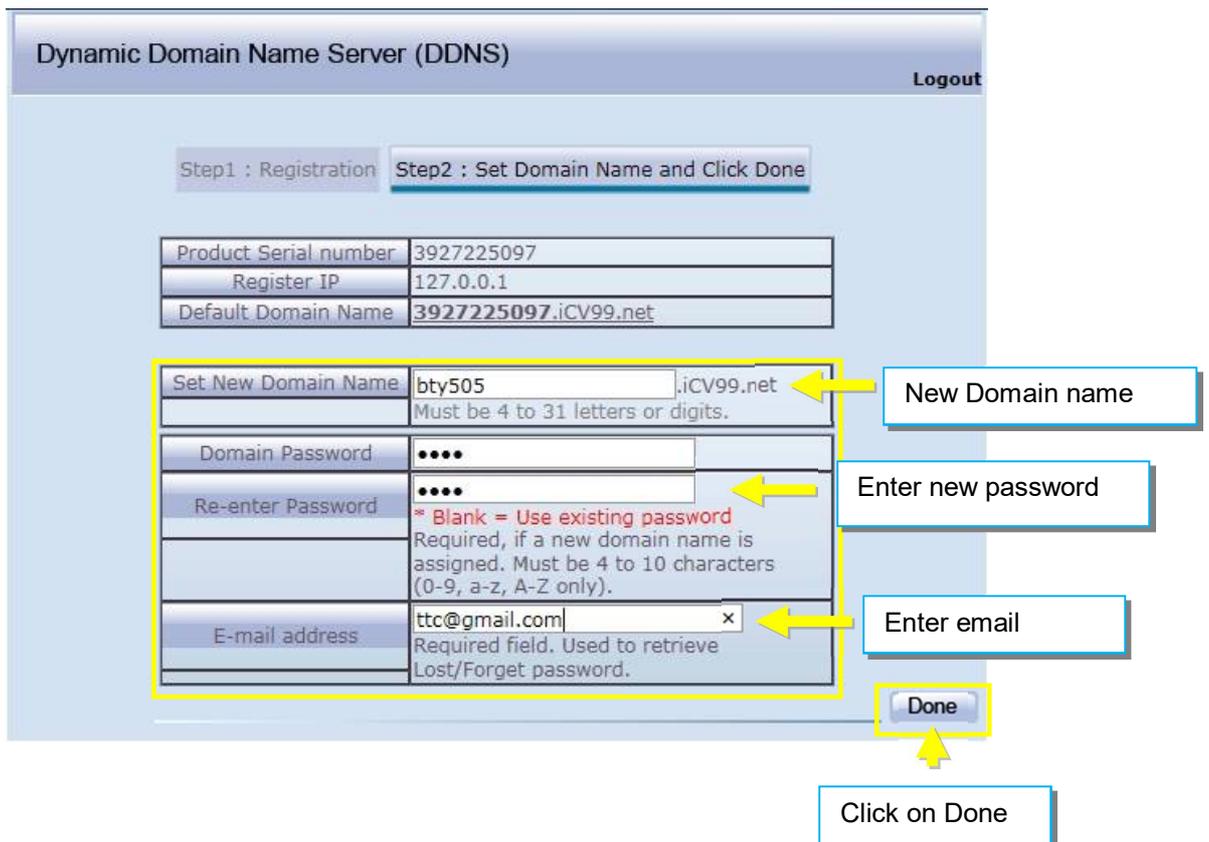
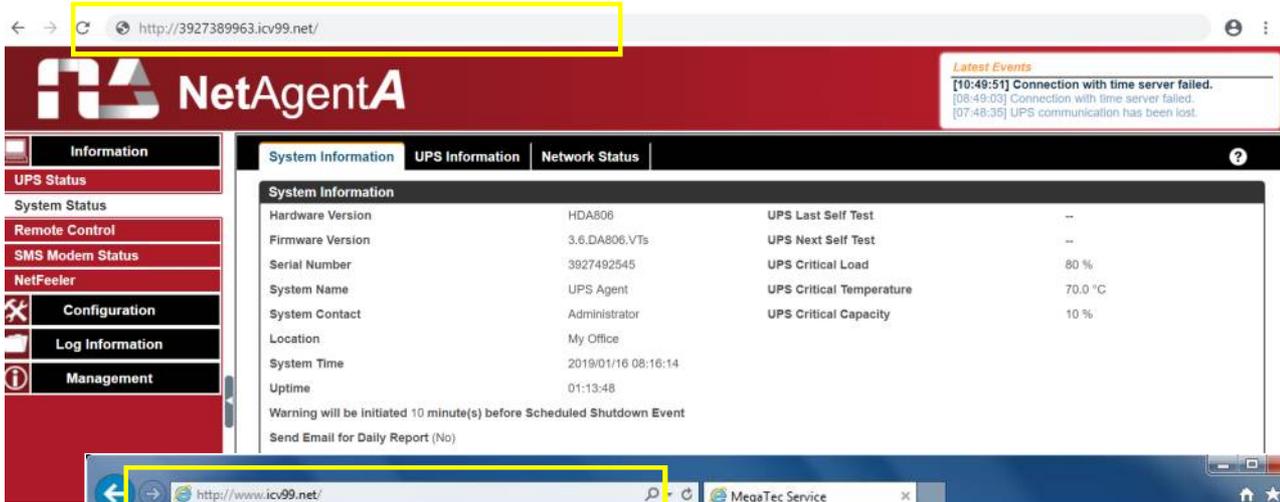
2. If using router, please login to router and direct IP and port number under virtual server for port forwarding. Kindly refer to router's manual

Router Configuration

The screenshot shows the 'VIRTUAL SERVER' configuration page. The 'VIRTUAL SERVER' section is highlighted. Below the description, there are 'Save Settings' and 'Don't Save Settings' buttons. The 'VIRTUAL SERVERS LIST' table is shown below:

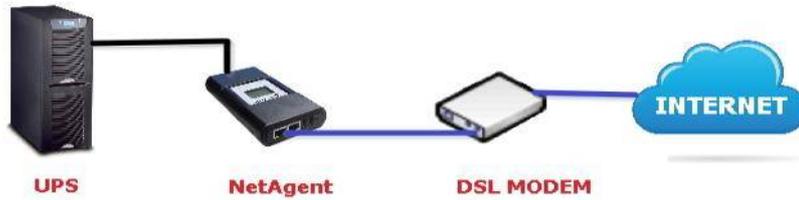
24 -- VIRTUAL SERVERS LIST					
	Name	Application Name	Port	Traffic Type	Schedule
<input checked="" type="checkbox"/>	BY506	<< Application Name	Public Port: 80	Protocol: TCP	Schedule: Always
	IP Address: 192.168.66.101	<< Computer Name	Private Port: 80	6	Inbound Filter: Allow All

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



- **PPPoE**

Use this option to allow NetAgentA 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, NetAgentA will connect directly to the Internet , any abnormal connection failure would also cause to re-dial



The screenshot shows the NetAgentA web interface. The top navigation bar includes 'Information', 'Configuration', 'Log Information', and 'Management'. The 'Configuration' menu is expanded to show 'UPS Configuration', 'UPS On/Off Schedule', 'Network', 'Wireless LAN', 'SNMP', 'Email', 'SMS', 'Web/Telnet/FTP', 'BACnet', 'SMS Modem', 'NetFeeler', and 'System'. The 'Network' section is selected, and the 'PPPoE' tab is active. The configuration form includes a dropdown menu for 'When Connection should be made' set to 'Connect always', a 'Login Name' field, and a 'Login Password' field. The 'Apply' and 'Reset' buttons are highlighted with a yellow box. Annotations with yellow arrows point to the 'Connect always' dropdown, the 'Login Name' field, and the 'Login Password' field. A 'Latest Events' box at the top right shows 'There is no latest Event.' and an 'Activate Windows' watermark is visible at the bottom right.

■ Configuration > Wireless LAN

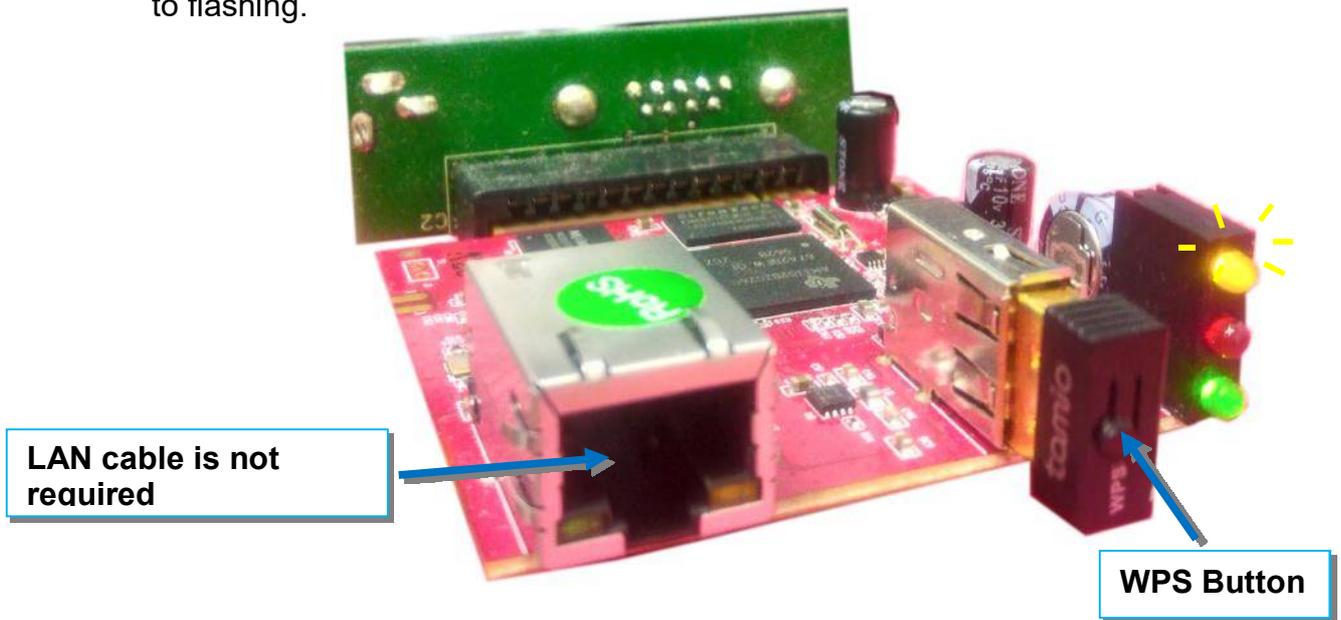
This is to configure NetAgent4 Wireless network with compatible USB wireless dongle.

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 NetAgentA is flashing , open up WPS setting page of the wireless router. With WPS connection mode,

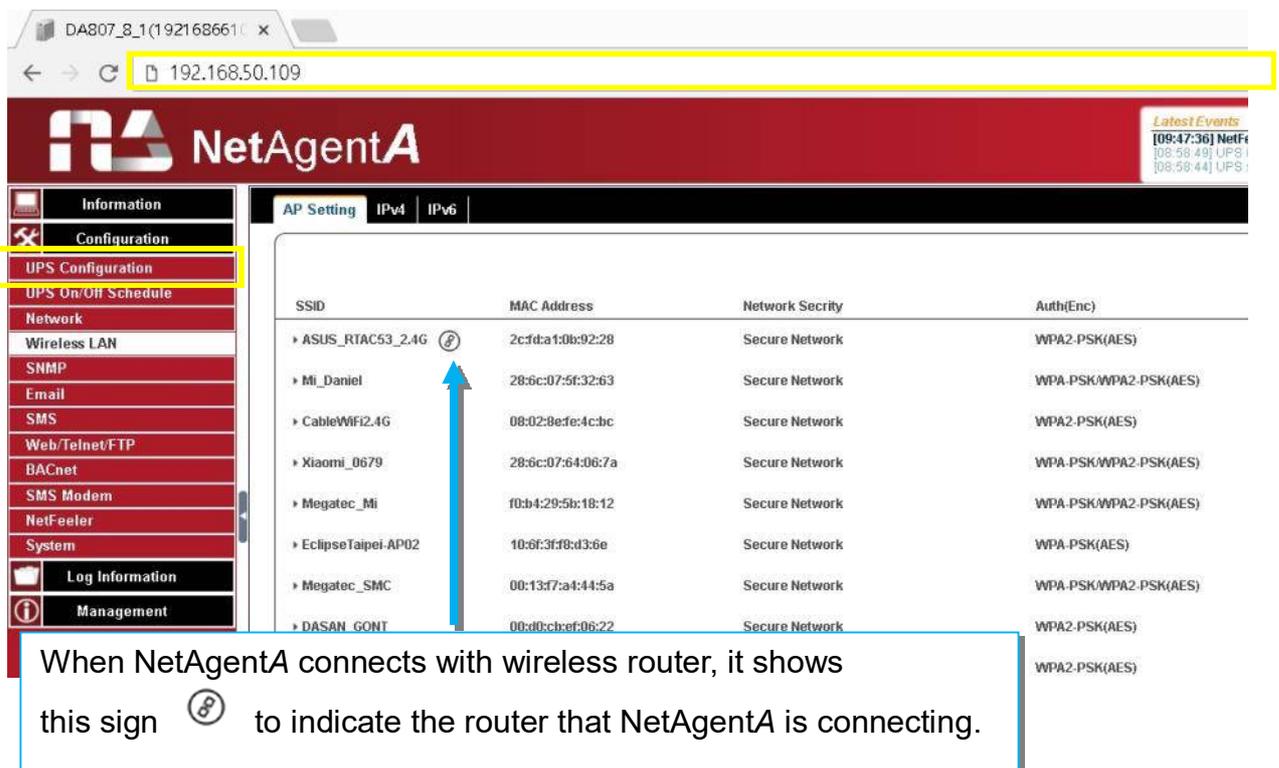
- (1) Select "**WPS button**"
- (2) Click on "**Start**"





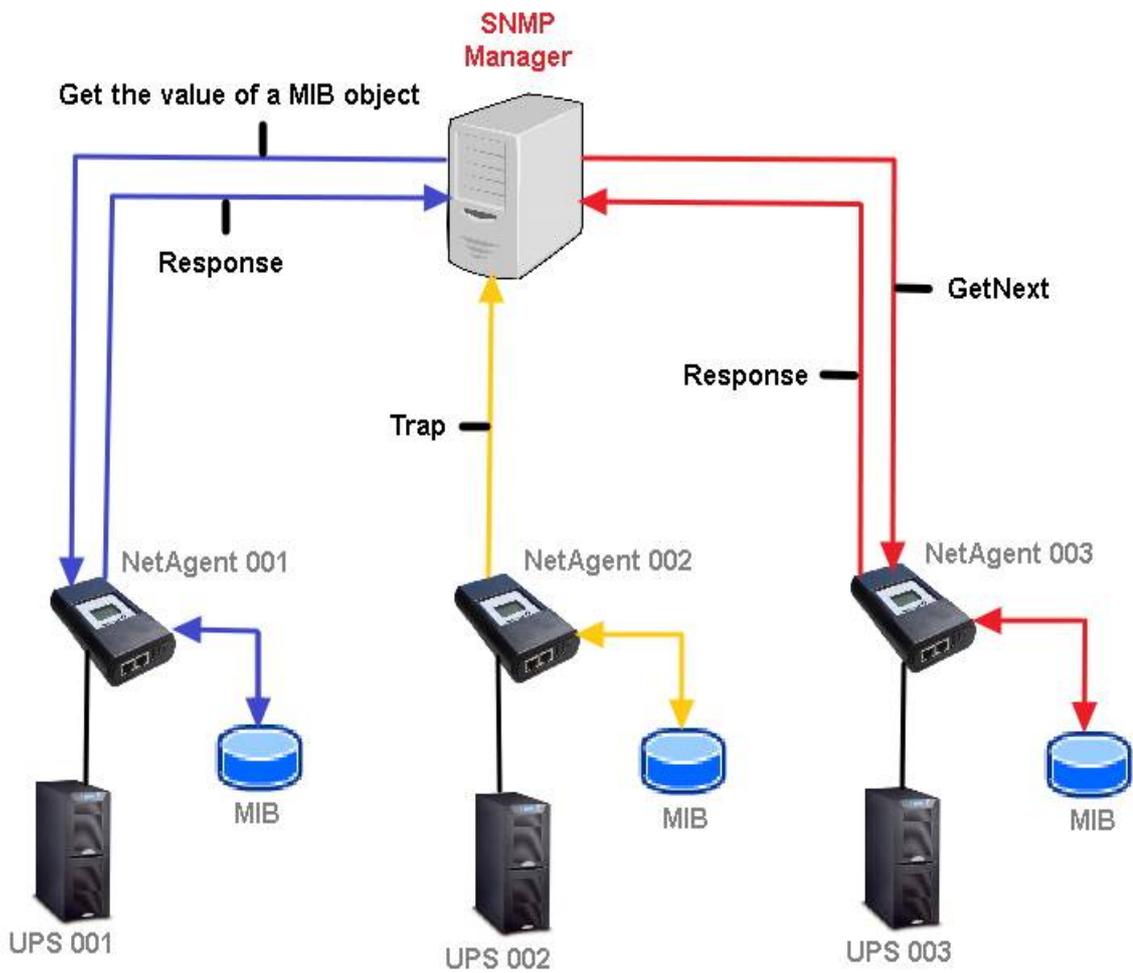
Open up Netility to login to NetAgentA :

- (1)Once NetAgentA is connected with wireless router via WPS, Netility should be able to find this wireless NetAgentA
- (2)Login to NetAgentA'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)



■ Configuration > SNMP

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



- **General**

MIB System

System Name

This section is to give a name to the NetAgentA.

System Contact

This section is to give a name to the administrator.

System Location

This section is to set NetAgentA location.

SNMP UDP Port

NetAgentA SNMP Port :

The port that NetAgentA 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, NetAgentA 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, NetAgentA will reboot

SNMPv3 Engine ID Text :

SNMPv3 Engine ID content

The screenshot displays the NetAgentA web interface. The top header features the NetAgentA logo and a 'Latest Events' section indicating 'There is no latest Event.' The left sidebar contains navigation menus for Information, Configuration, Log Information, and Management. The main content area is titled 'General' and includes the following configuration sections:

- MIB System:** System Name (UPS Agent), System Contact (Administrator), System Location (My Office).
- SNMP UDP Port:** NetAgent SNMP Port (161), Trap Receive Port (162).
- SNMPv3 Engine ID:** SNMPv3 Engine ID Format Type (MAC Address), SNMPv3 Engine ID Text (80003461030003ea146ac1).

A red asterisk warning states: '* : System will reboot when these items have been Applied.' At the bottom right of the configuration area are 'Apply' and 'Reset' buttons. The footer includes 'Activate Windows' and 'Go to Settings to activate Windows' text.

- **Access Control**

Manager IP Address :

This is to set the IP address that the administrator can manage NetAgentA from. It is valid for up to 8 IP addresses. To manage NetAgentA 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 :

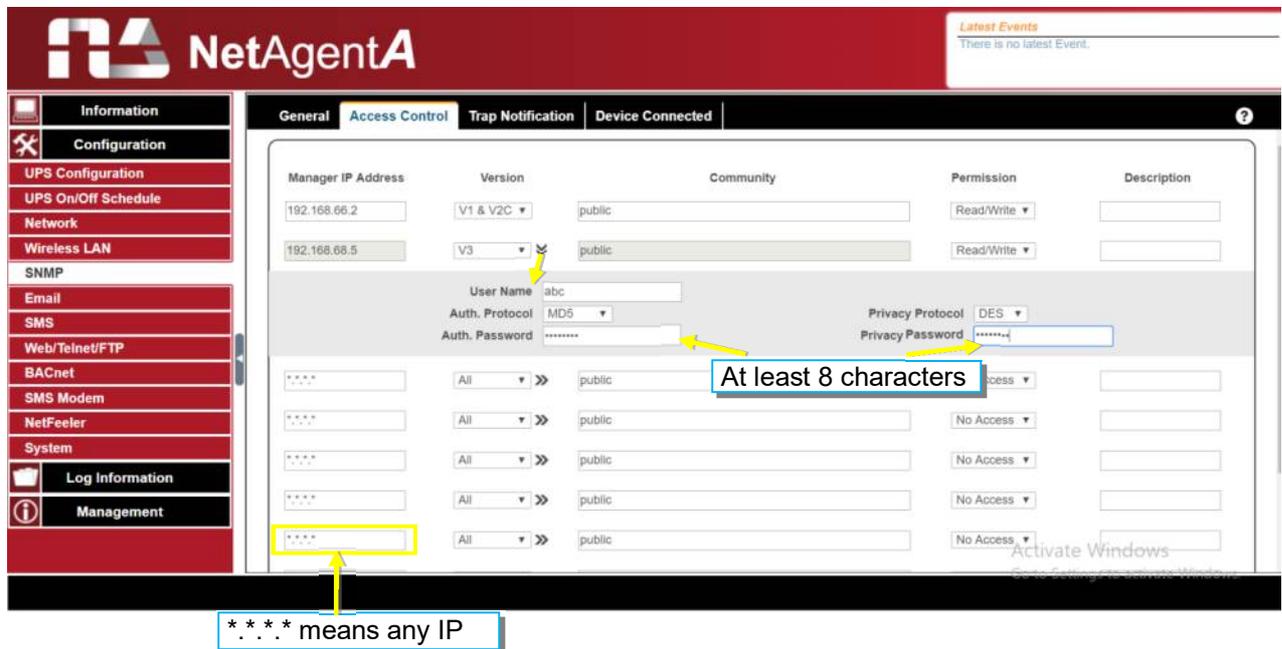
This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS. (Default is public)

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 NetAgentA. 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 NetAgentA

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 NetAgentA 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 NetAgentA. This is to check if the communication between trap receiver and NetAgentA remains well or not after power recovers

SNMP Inform Request

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

The screenshot displays the NetAgentA configuration web interface. The top navigation bar includes 'Information', 'Configuration', 'UPS Configuration', 'UPS On/Off Schedule', 'Network', 'Wireless LAN', 'SNMP', 'Email', 'SMS', 'Web/Telnet/FTP', 'BACnet', 'SMS Modem', 'NetFeeler', 'System', 'Log Information', and 'Management'. The 'Trap Notification' tab is active, showing a table of trap configurations. A yellow arrow points to the 'SNMPv3 Inform' dropdown menu in the table. Below the table, the 'SNMP Inform Request' section is visible, with 'Number of Retries' set to 3 and 'Timeout (sec)' set to 5. The bottom of the interface shows a login form with fields for 'User Name' (abc), 'Auth. Protocol' (MD5), 'Privacy Protocol' (DES), 'Manager Engine ID', 'Auth. Password', and 'Privacy Password'. A watermark 'Activate Windows' is present in the bottom right corner.

IP Address	Protocol	Community	Trap Level	Event	Action
192.168.2.53	SNMPv3 Inform	public	Information		Select Test
	No	public	PPC	Information	Select Test
	No	public	PPC	Information	Select Test
	No	public	PPC	Information	Select Test
	No	public	PPC	Information	Select Test
	No	public	PPC	Information	Select Test
192.168.2.43	SNMPv3 Inform	public	Information		Select Test

Send Power Restore and Adapter Restore Traps for 0 time(s) in 0 second(s) interval.

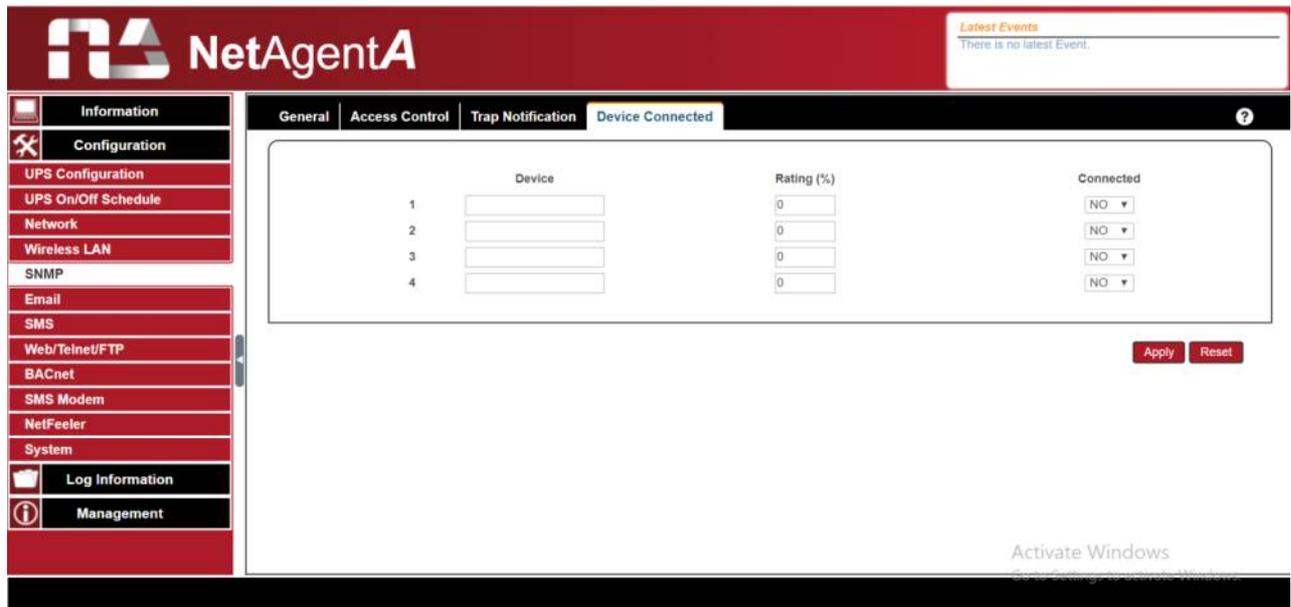
SNMP Inform Request

Number of Retries	3
Timeout (sec)	5

User Name: abc
Auth. Protocol: MD5
Privacy Protocol: DES
Manager Engine ID:
Auth. Password:
Privacy Password:

- **Device Connected**

This section is to set the usage power and connection status of other devices which connects to the same UPS as NetAgentA 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 :

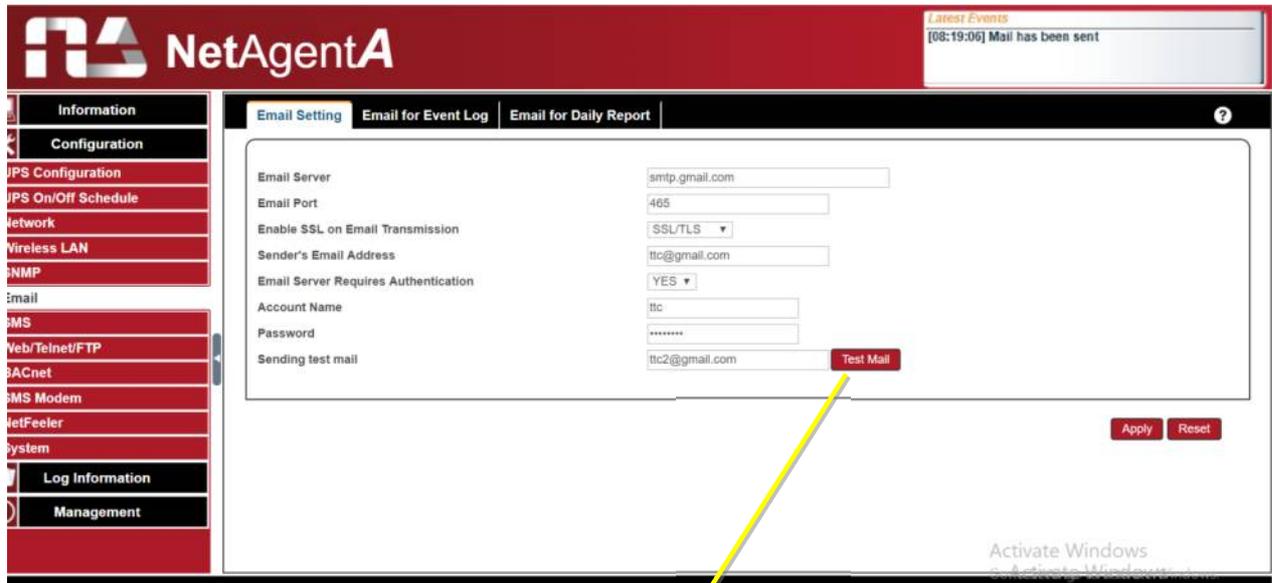
If authentication is required, enter its account name

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

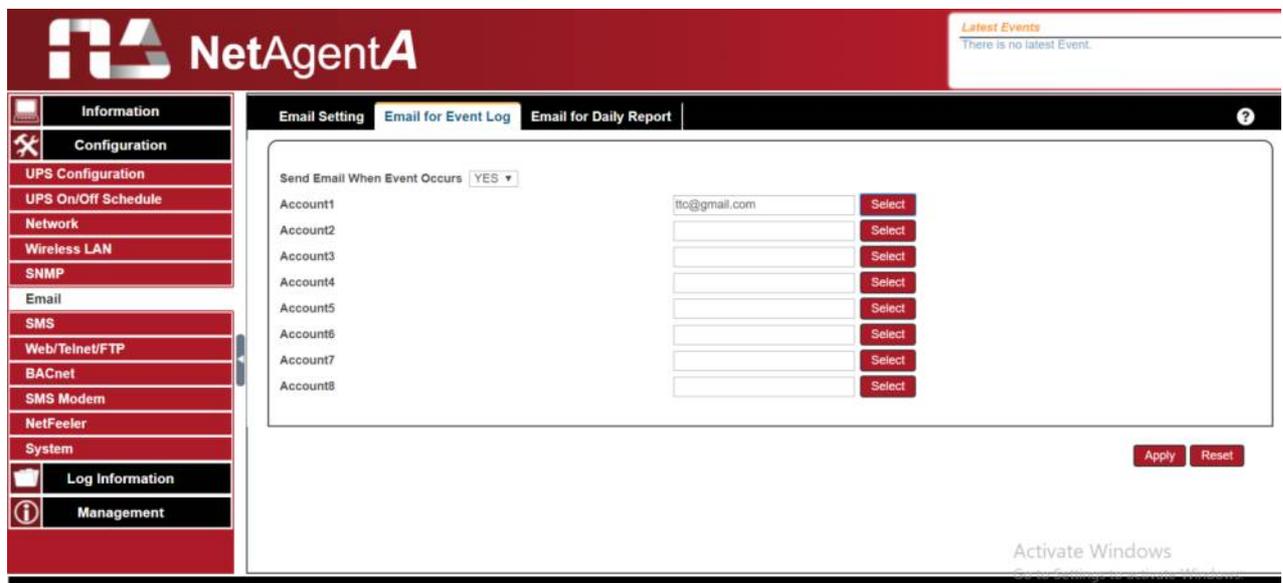


Test Email Received



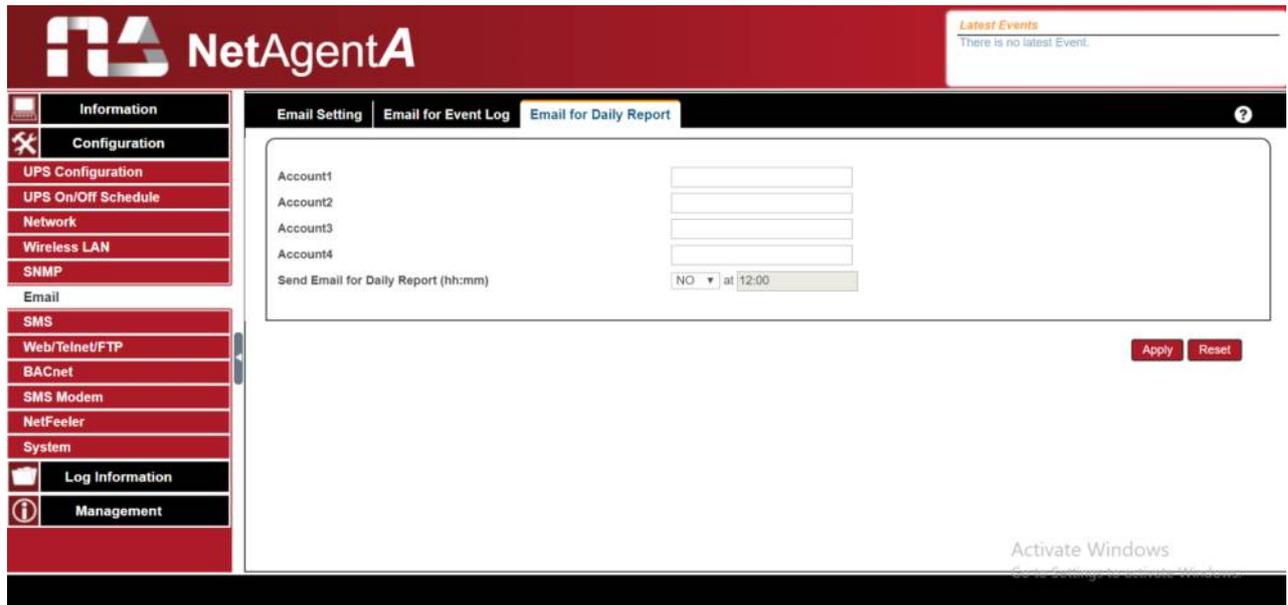
- Email for Event Log (To received email notification)**

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



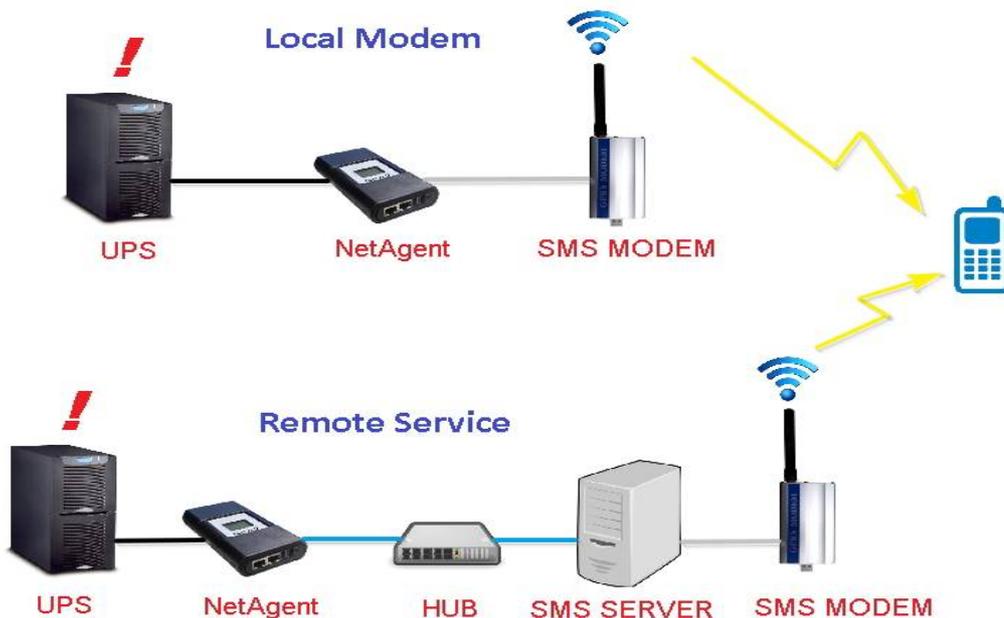
- **Email for Daily Report (To receive daily report)**

This section is to set email addresses to receive NetAgentA'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 NetAgentA.



- **SMS Setting**

Send SMS When Event Occurs:

- Disable : No SMS Service
- Use Local Modem : When GSM modem is connected to NetAgentA 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 :

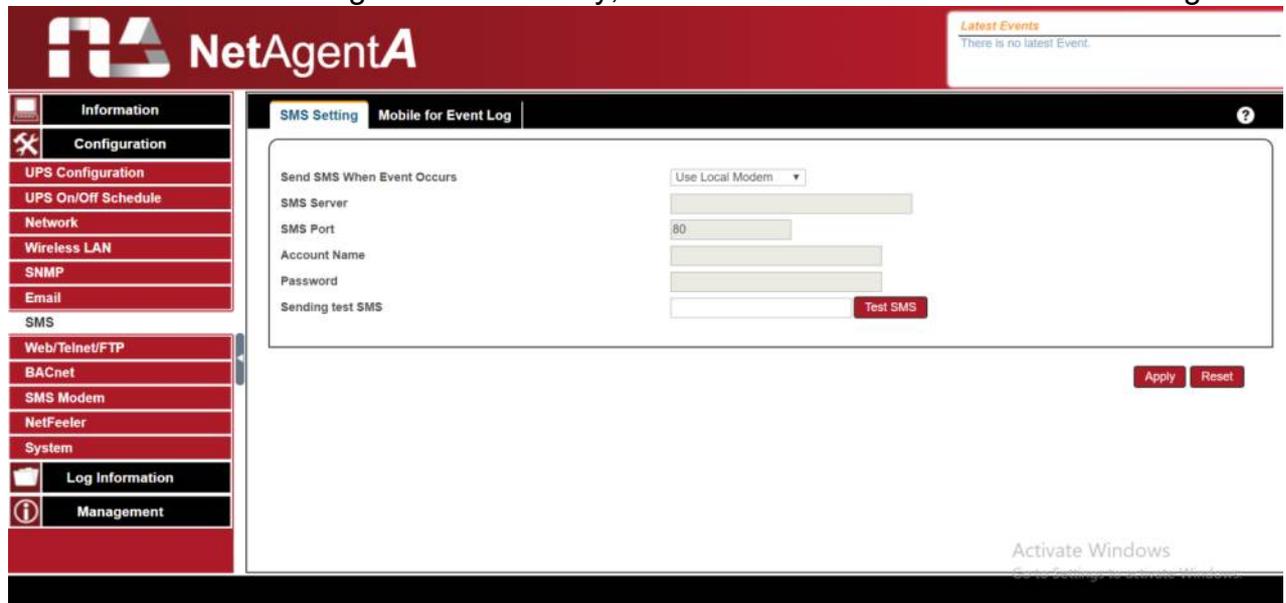
If select to use Remote Service to send SMS, enter SMS Server's account name if required

Password :

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

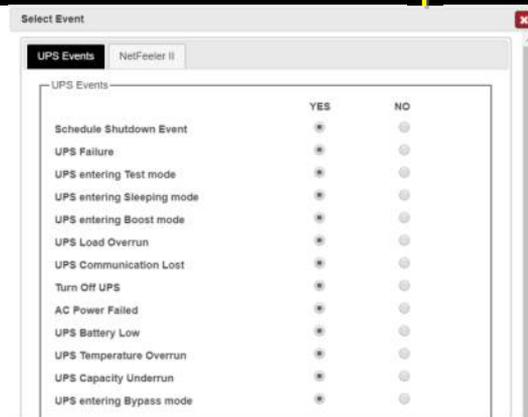
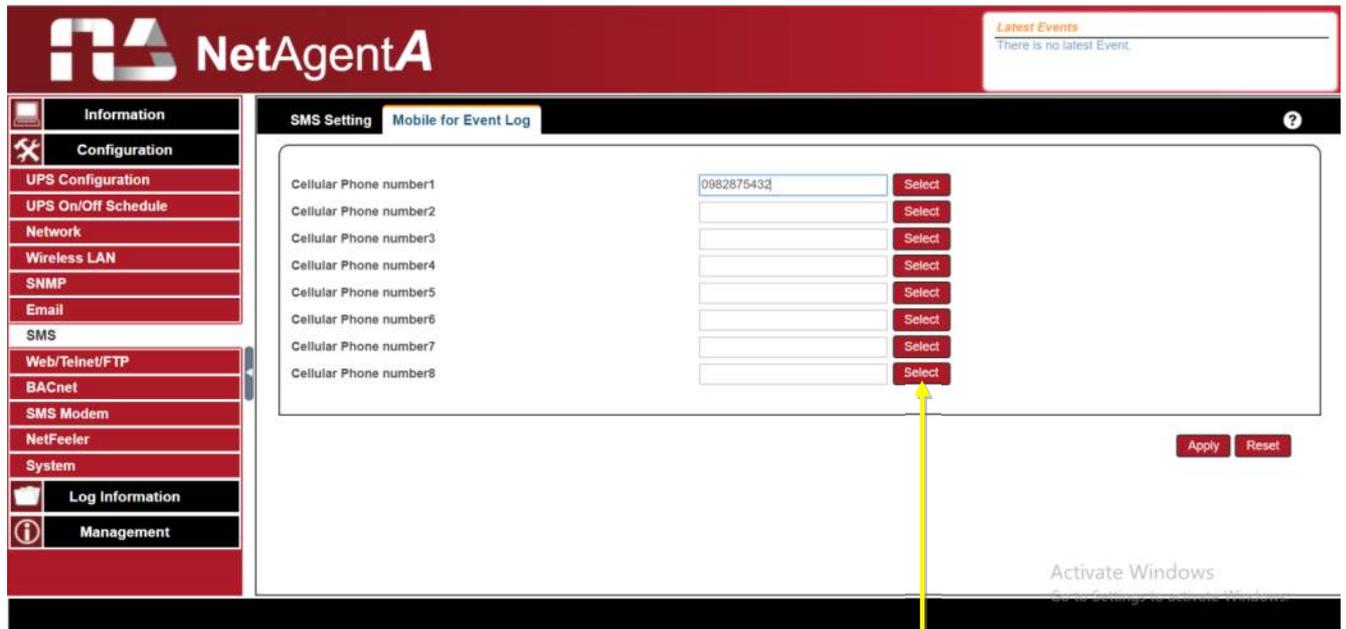
Sending test SMS :

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

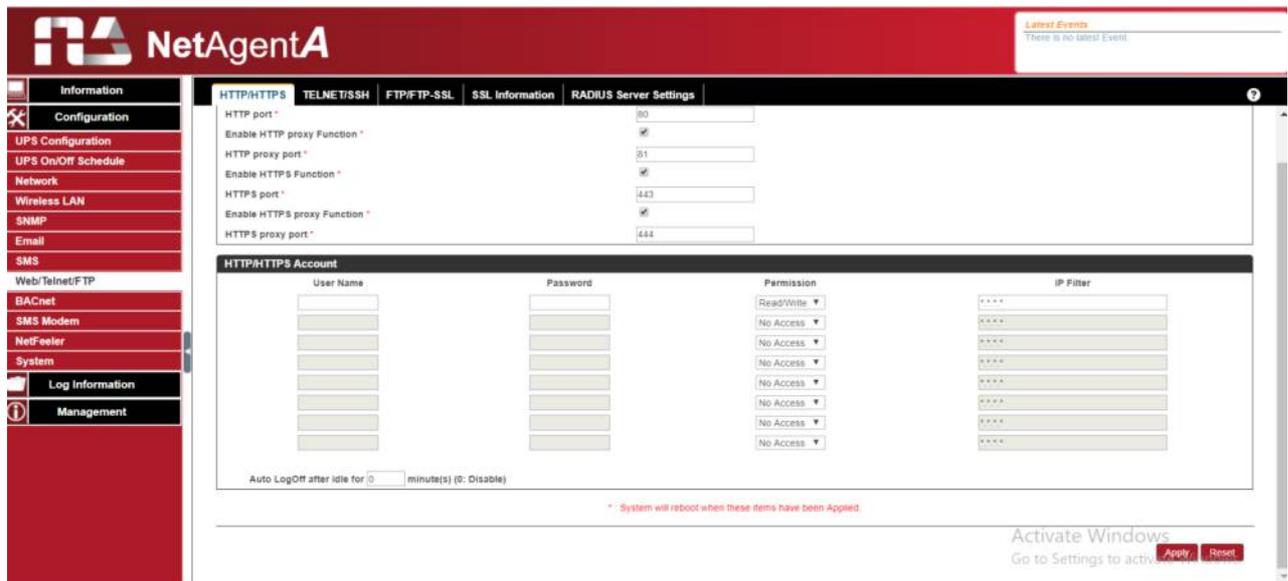
IP Filter :

Only specific IP address could login to NetAgentA

☀ *.*.*.* 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 NetAgentA Telnet access.

Password :

To set password for NetAgentA Telnet access.

Permission :

To set No Access / Read/ Read&Write)

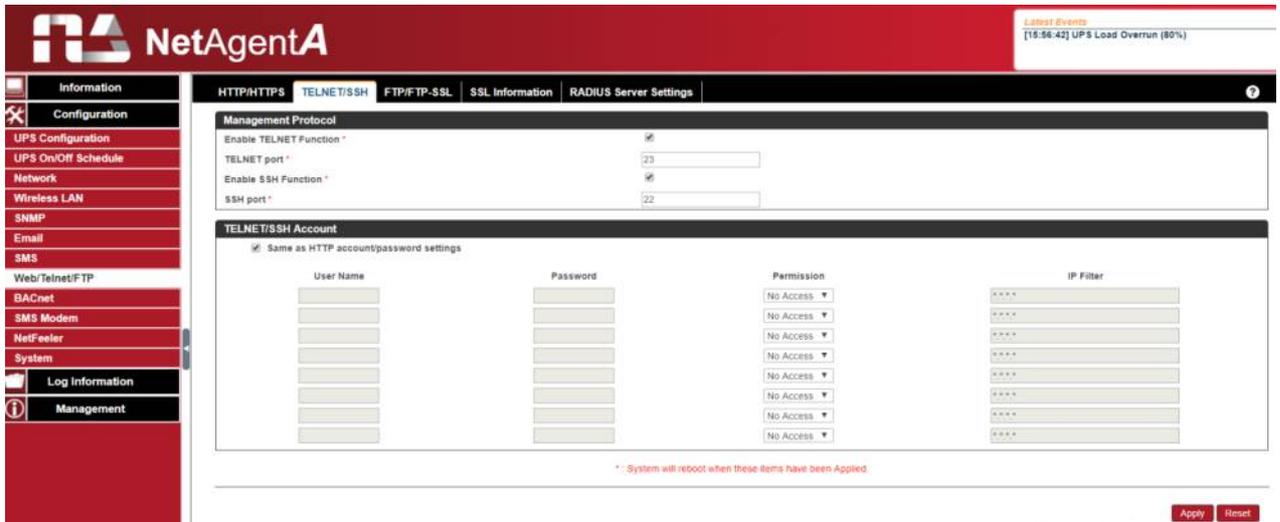
☀ Permission Rule : At least one user account must be Read/Write

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

IP Filter :

Only specific IP address could login to NetAgentA

☀ *.*.*.* 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 NetAgentA FTP access.

Password :

To set password for NetAgentA FTP access.

Permission :

To set No Access / Read/ Read&Write)

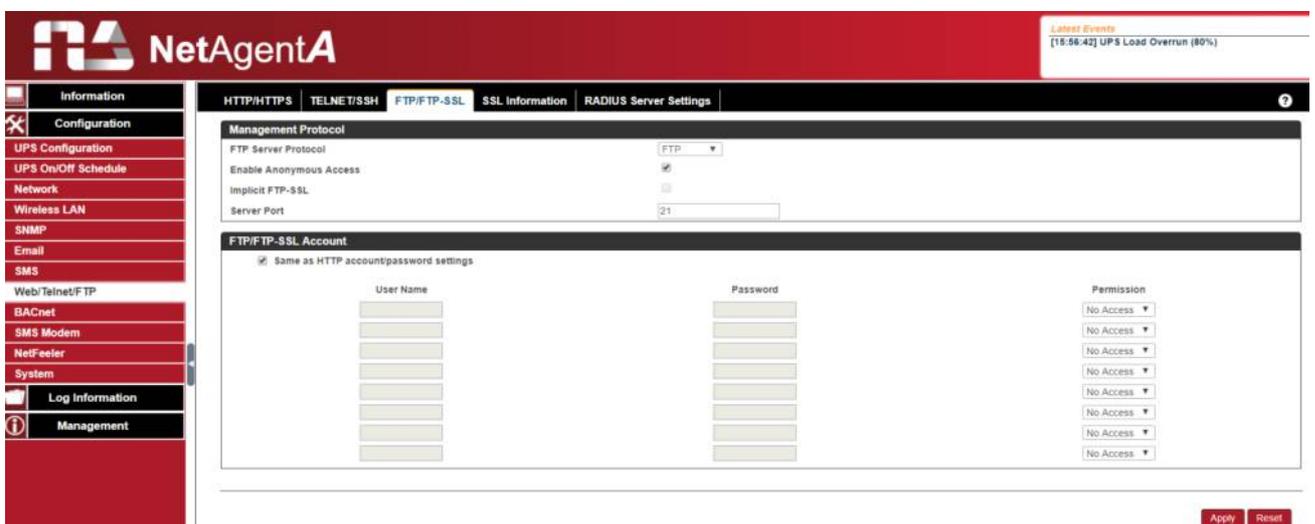
☀ Permission Rule : At least one user account must be Read/Write

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

IP Filter :

Only specific IP address could login to NetAgentA

☀ *.*.*.* means any IP address



- **SSL Information**

NetAgentA 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

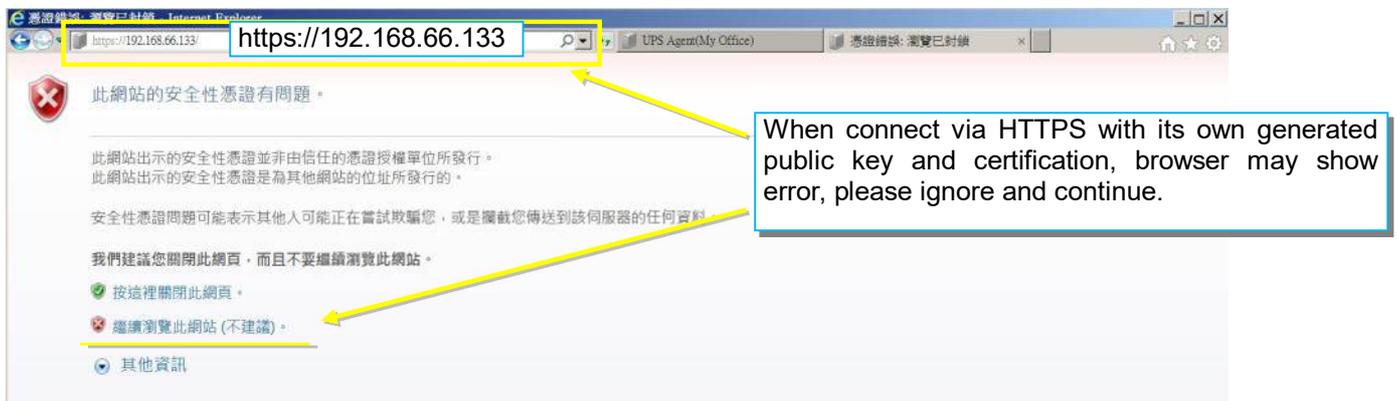
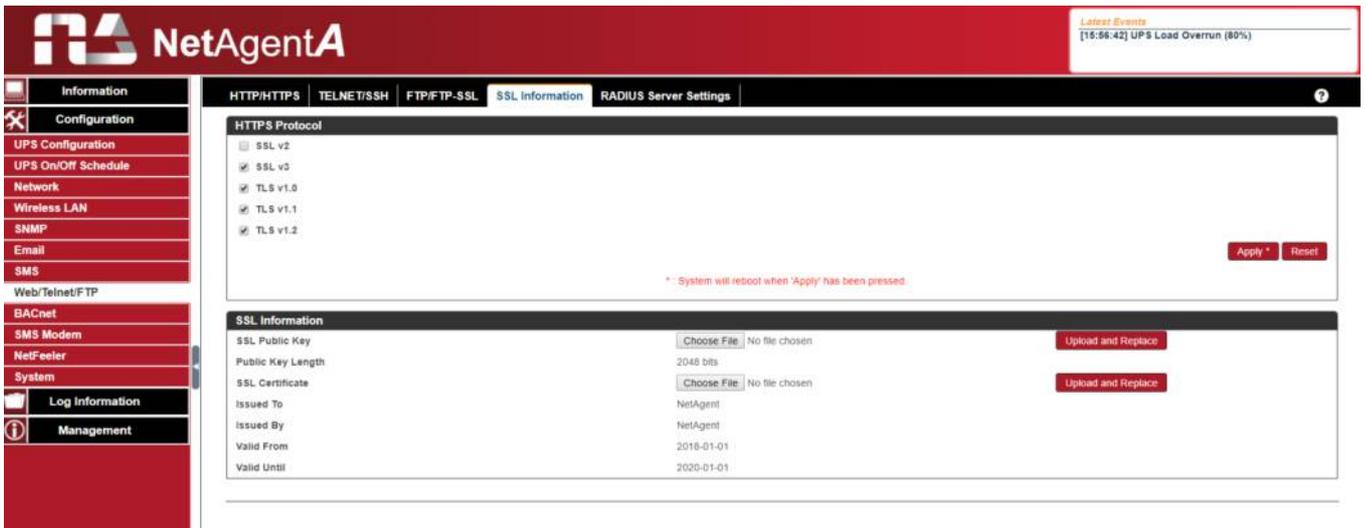
- SSL v2
- SSL v3
- SSL v1.0
- SSL v1.1
- SSL v1.2

☀ Once click on Apply, NetAgentA will reboot

SSL Information

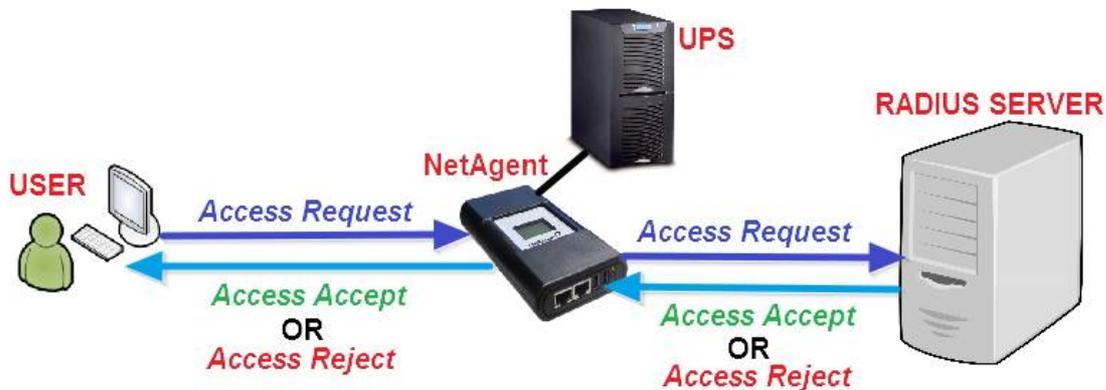
This is to upload the SSL certificate. When both public key and certificate are uploaded to NetAgentA web server, the communication will be encrypted by SSL

(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, NetAgentA 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 :

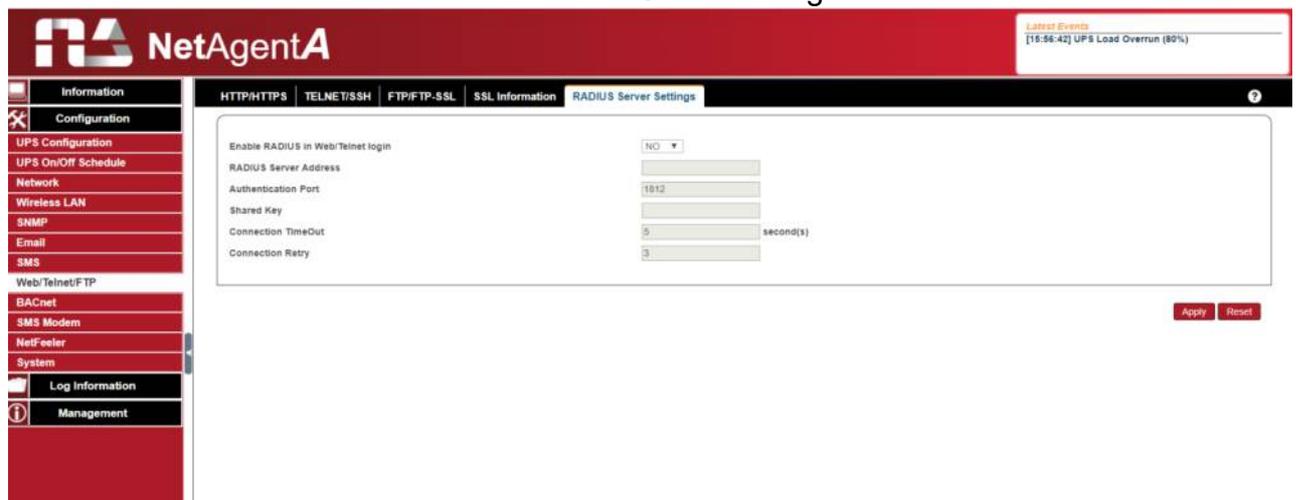
Enter the Shared Key between RADIUS Server and client

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

NetAgentA supports BACnet/IP (Building Automation and Control/Internet Protocol)

- **BACnet**

BACNet Device

Configure the device ID and access port number for the NetAgentA when using BACnet for communication

Notification

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

NetAgentA Latest Events
[15:56:42] UPS Load Overrun (80%)

BACnet

BACNet Device

BACNet Device ID: 1015
BACNet Port (0-65535): 47008

Notification

Destination IP	Accept	Port (0-65535)	Severity	Description
<input type="text"/>	No ▾	<input type="text"/>	Alarm ▾	<input type="text"/>
<input type="text"/>	No ▾	<input type="text"/>	Alarm ▾	<input type="text"/>
<input type="text"/>	No ▾	<input type="text"/>	Alarm ▾	<input type="text"/>
<input type="text"/>	No ▾	<input type="text"/>	Alarm ▾	<input type="text"/>

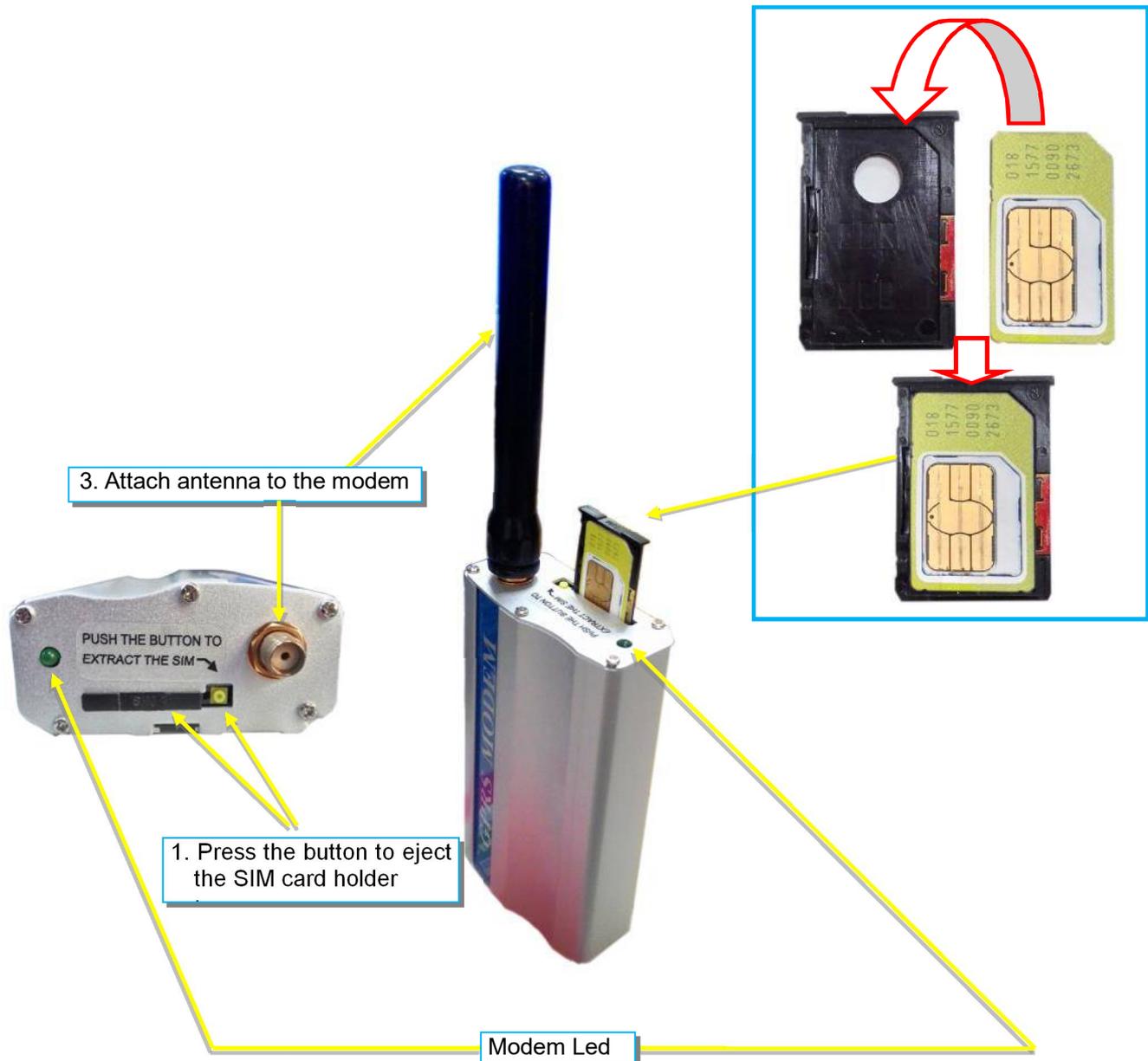
Apply Reset

■ Configuration > SMS Modem

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

□ Modem Setup Procedure

2. Place the SIM card on the holder and insert into GSM Modem



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 NetAgentA directly ;

SMS Communication :

Select between GPRS or CDMA

SIM Card PIN :

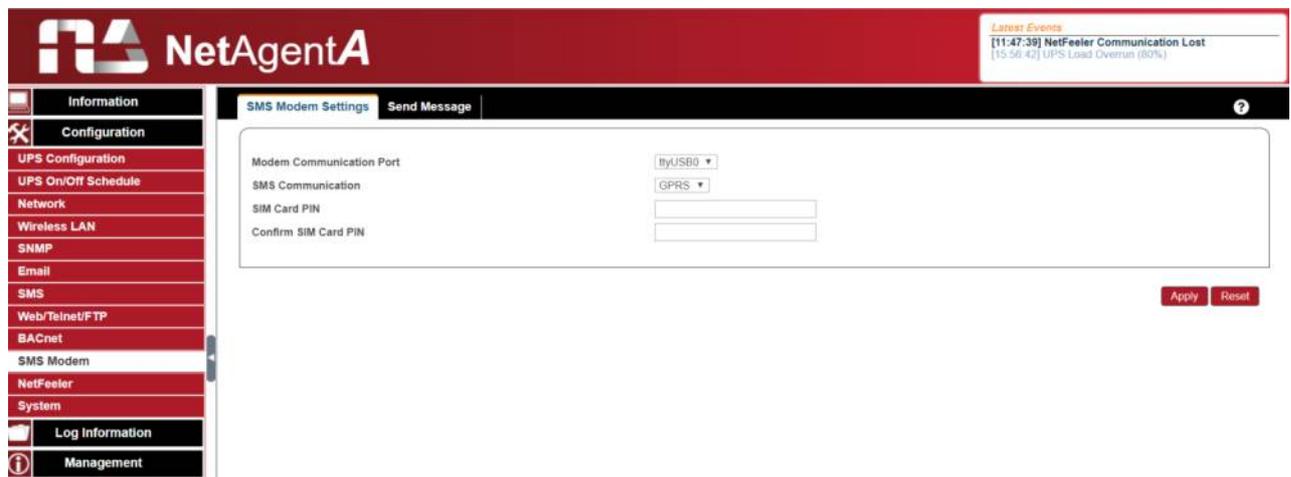
If PIN is required for the SIM card, please enter

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 ,NetAgentA will reboot



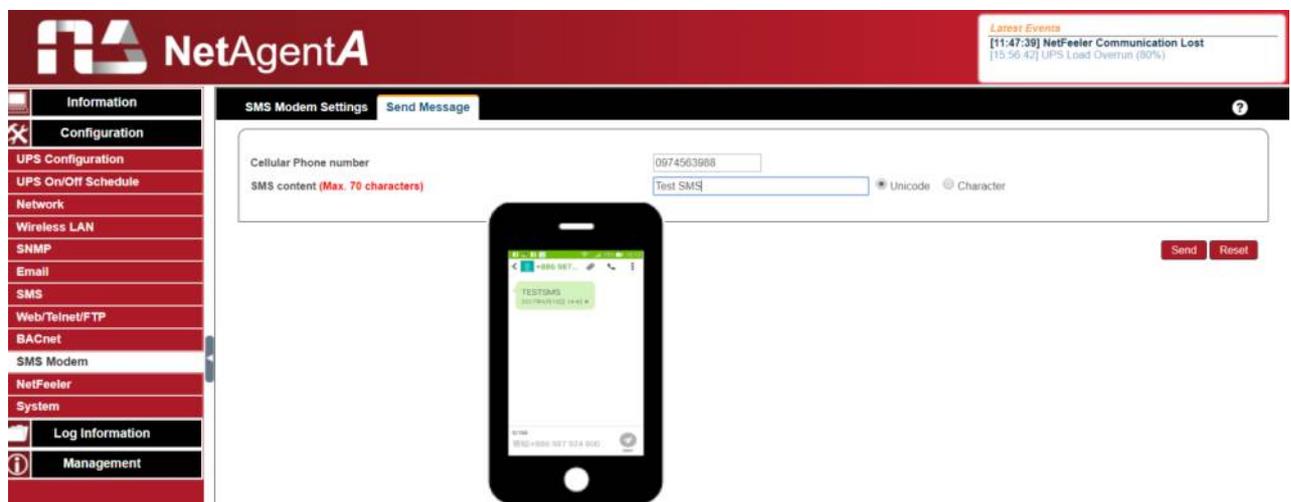
- **Send Message**

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 detect 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.

The screenshot shows the NetAgentA web interface. The top header features the NetAgentA logo and a 'Latest Events' section with a notification: '[11:47:39] NetFeeler Communication Lost [15:56:42] UPS Load Overrun (80%)'. The left sidebar contains a 'Configuration' menu with options: UPS Configuration, UPS On/Off Schedule, Network, Wireless LAN, SNMP, Email, SMS, Web/Telnet/FTP, BACnet, SMS Modem, NetFeeler, and System. The main content area is titled 'NetFeeler' and includes a 'NetFeeler' configuration table and a 'Security Label' table. The 'NetFeeler' table has columns for Humidity (%), Temperature (°C), Critical UnderRun, and Critical OverRun. The 'Security Label' table lists labels 1 through 7, each with a corresponding 'SecurityX Status' field. At the bottom right, there are 'Apply' and 'Reset' buttons.

■ Configuration > System

This page is to set NetAgentA's system time, language and configuration.

• Date/Time

NetAgentA to synchronize with external or internal Time Server for correct date and time.

System Time

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

To display the current system time/date of NetAgentA. 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):

NetAgentA to restart automatically at preset hour or minute

Manual Restart System After 30 seconds :

Once click on Apply, NetAgentA would restart after 30 seconds

The screenshot displays the NetAgentA web interface. The top header features the NetAgentA logo and a 'Latest Events' section with two entries: '[11:47:39] NetFeeler Communication Lost' and '[15:56:42] UPS Load Overrun (80%)'. The left sidebar contains a navigation menu with categories: Information, Configuration, Log Information, and Management. Under Configuration, there are sub-menus for UPS Configuration, UPS On/Off Schedule, Network, Wireless LAN, SNMP, Email, SMS, Web/Telnet/FTP, BACnet, SMS Modem, and NetFeeler. The main content area is divided into three tabs: Date/Time, Language, and Save/Restore. The 'Date/Time' tab is active, showing the 'System Time' section with fields for System Time (2019/01/16 12:18:56), Time Between Automatic Updates (1 Hour), Time Server (swisstime.ethz.ch), Time Zone (Relative to GMT) (GMT+8:00), and Using Daylight Saving Time (NO). Below this is the 'Restart' section with two options: 'Auto Restart System for Every (0: Disable)' set to 0 minutes, and 'Manual Restart System After 30 Seconds'. Both sections have 'Apply' and 'Reset' buttons.

- **Language**

This page is to set the language interface for NetAgentA.

Interface Language

To set the language of NetAgentA web pages. When first start login to the webpage of NetAgentA, NetAgentA 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

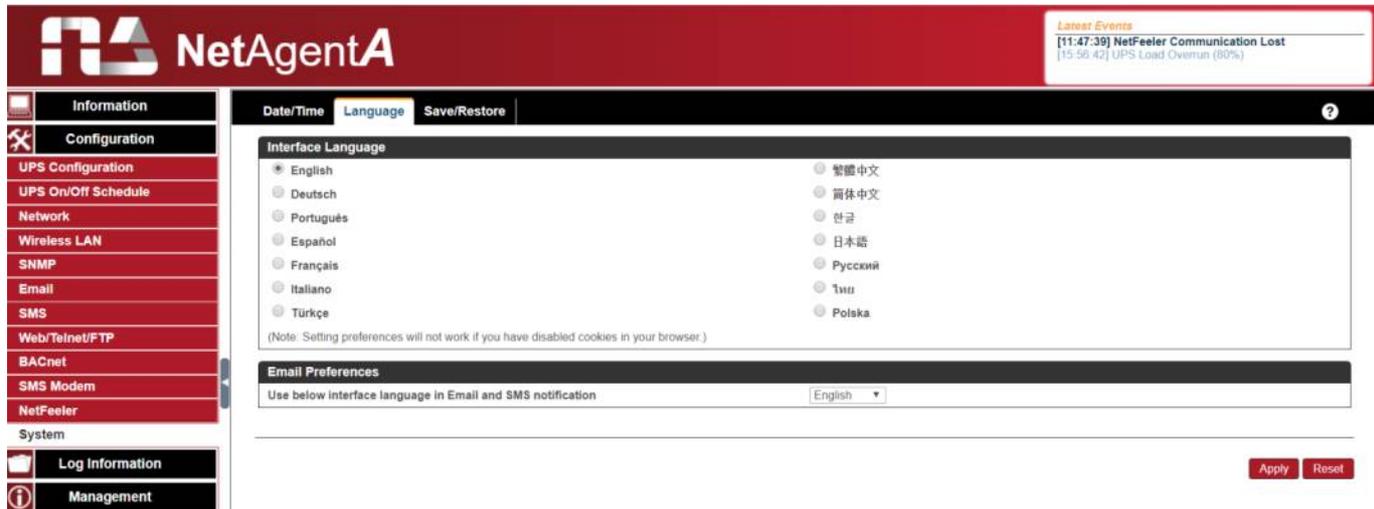
Note: Users will have to enable cookies before they use this function.

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

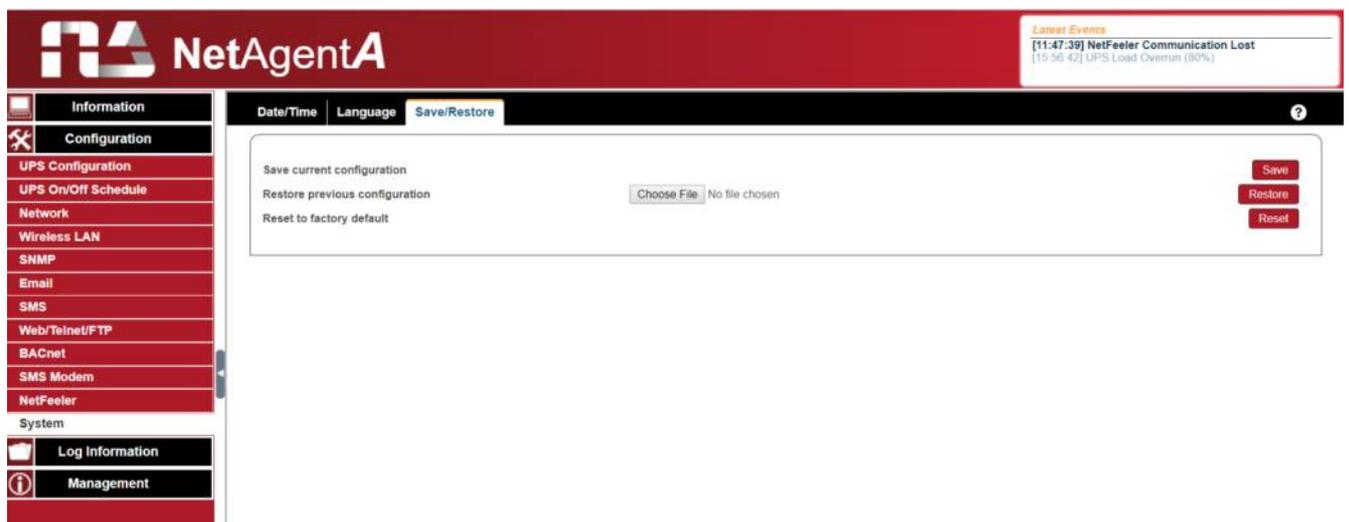
Click on Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####.cfg. Administrator permission required.

- 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

NetAgentA Latest Events
[11:47:39] NetFeeler Communication Lost
[15:56:42] UPS Load Overrun (80%)

Information
Configuration
Log Information

Event Log
Data Log
Battery Test Log
Management

Event Log
2018 11 All Events Refresh Today

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

2018-11-23 Fri.
23

Events List Events census

- [23:12:10]: Server address can not be resolved.
- [20:08:27]: Connection with time server failed.
- [17:11:41]: Connection with time server failed.
- [11:09:26]: Connection with time server failed.
- [09:31:35]: UPS communication has been lost.
- [09:15:33]: UPS communication has been established.
- [09:08:50]: Connection with time server failed.
- [08:08:26]: UPS communication has been lost.

Activate Windows
Go to Settings to activate Windows.

Event census

Here is to present the event statistically on the selected date

NetAgentA Latest Events
[11:47:39] NetFeeler Communication Lost
[15:56:42] UPS Load Overrun (80%)

Information
Configuration
Log Information

Event Log
SMS Log
Data Log
Battery Test Log
Management

Event Log
2018 11 All Events Refresh Today

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

2018-11-28 Wed.
28

Events List Events census

UPS communication has been established.: 8.33%
UPS self-test start: 8.33%
internal self-test complete.: 8.33%
Server address can not be resolved.: 16.67%
UPS communication has been lost.: 16.67%
Connection with time server failed.: 41.67%

- UPS communication has been lost. 2
- Connection with time server failed. 5
- Server address can not be resolved. 2
- UPS internal self-test complete. 1
- UPS self-test start 1

■ 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 .

NetAgentA Latest Events
[11:47:39] NetFeeler Communication Lost
[15:56:42] UPS Load Overrun (80%)

Information
Configuration
Log Information

Event Log
SMS Log
Data Log
Battery Test Log
Management

SMS Log

Date/Time	Mobile Number	SMS Content

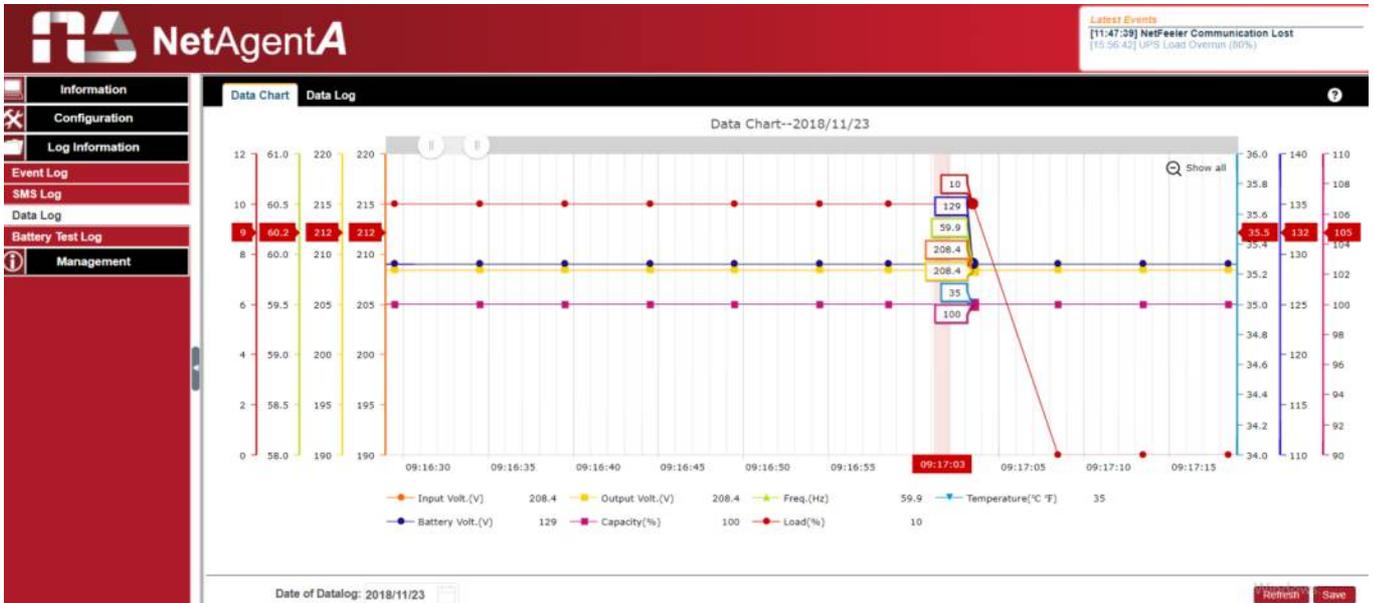
Date of SMS NONE

Activate Windows
Go to Settings to activate Windows.

- 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.

The screenshot shows the NetAgentA interface with the 'Data Log' tab selected. The table displays a detailed list of UPS metrics over time. The table has columns for No., Date/Time, Input Volt.(V), Output Volt.(V), Freq. (Hz), Load(%), Capacity(%), Battery Volt.(V), Cell Volt.(V), and Temp.(°C °F). The data shows a consistent pattern of metrics over a period of time, with a slight increase in Load(%) at the end of the log.

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	2.26	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.

NetAgentA Latest Events
 [11:47:39] NetFeeler Communication Lost
 [15:56:42] UPS Load Overrun (80%)

Battery Test Log

Log ID	Start Time	End Time	Duration	The number of logs
1543383800	2018/11/28 05:43:20	2018/11/28 05:53:07	00:09:47	123

Testing start:2018/11/28 05:43:20
 Testing end:2018/11/28 05:53:07
 Testing duration:00:09:47
 Number of log:123

Estimate Save

According to these battery testing logs, we have the following estimation. If the loading stays on the current level(80%), when battery is fully charged, the UPS could supply power about 00:00:05. If the battery is in current condition, 73% charged, the UPS could supply about 00:00:03

Legend:
 - Battery capacity(%)
 - Load(%)
 - Temperature(°C)

■ Management > Netility Web

This to display all the NetAgentA 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 NetAgentA is access by WAN IP , Netility Web would also be able to list out all the other available NetAgentA under same LAN as the NetAgentA that has WAN IP. (HTTP port 81 must be enabled on the NetAgentA with WAN IP and domain to be as http://xxx.xxx.xx:81 (xxx.xx is the WAN IP or domain name)

NetAgentA Latest Events
 [00:00:50] UPS communication has been lost.
 [00:00:24] Server address can not be resolved.

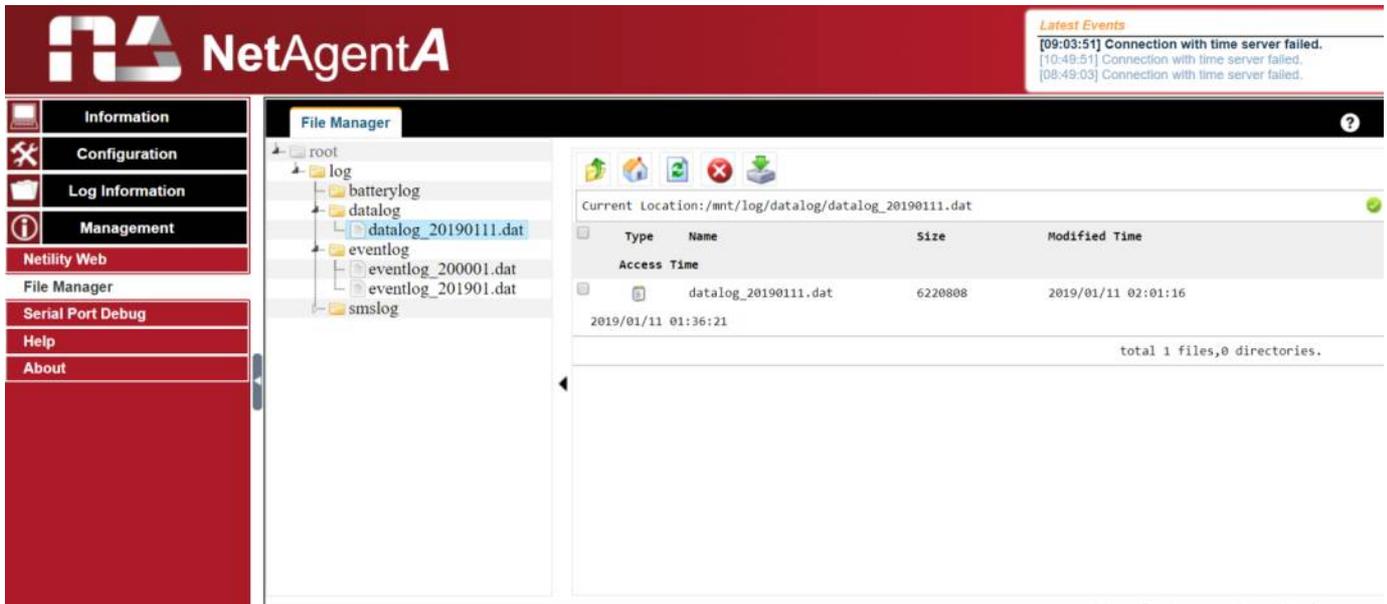
NetAgent Web

Device	MAC Address	Hardware	Firmware	IP Address
▶ 2432786082	D4:6A:91:01:5E:A2	WB-700-IPV-12	WB10.6c14	192.168.0.187
▶ 3925868545	00:03:EA:00:00:01	EZOL	EZS.8410	192.168.0.244
▶ 3925868546	00:03:EA:00:00:02	EZOL	EZS.8c20	192.168.0.237
▶ 3925868547	00:03:EA:00:00:03	EZOL	EZS.8410	192.168.0.121
▶ 3925868675	00:03:EA:00:00:83	EZOM	EZT.8824	192.168.0.212
▶ 3925868676	00:03:EA:00:00:84	EZOM	EZT.8b06	192.168.0.220
▶ 3925868682	00:03:EA:00:00:8A	EZPW	EPS.7b17	192.168.0.106
▶ 3925868716	00:03:EA:00:00:AC	EZPW	EPS.8b06	192.168.0.253
▶ 3925980505	00:03:EA:01:B5:59	HDT520	2.48.DT520.EAST	192.168.0.132
▶ 3925998885	00:03:EA:01:FD:25	HDP520	2.48.DP520.EAST	192.168.0.199
▶ 3926094354	00:03:EA:03:72:12	HBT506	2.48.BT506.EAST	192.168.0.117

Activate Windows
 Go to Settings to activate Windows.

■ Management > File Manager

This is manage log file generates by NetAgentA. 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 NetAgentA and UPS by Sent and Received columns.

• Debug Information

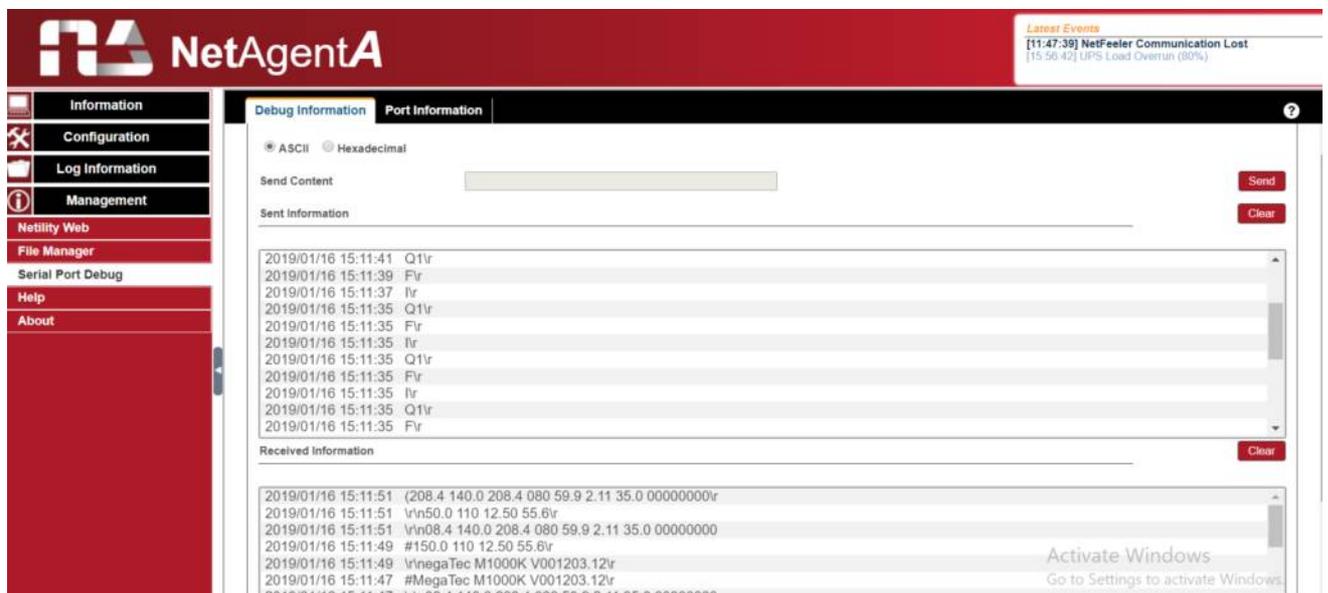
Command can send automatically by NetAgentA, or manually enter the command to UPS.

Sent Information

This column shows the real time sent command

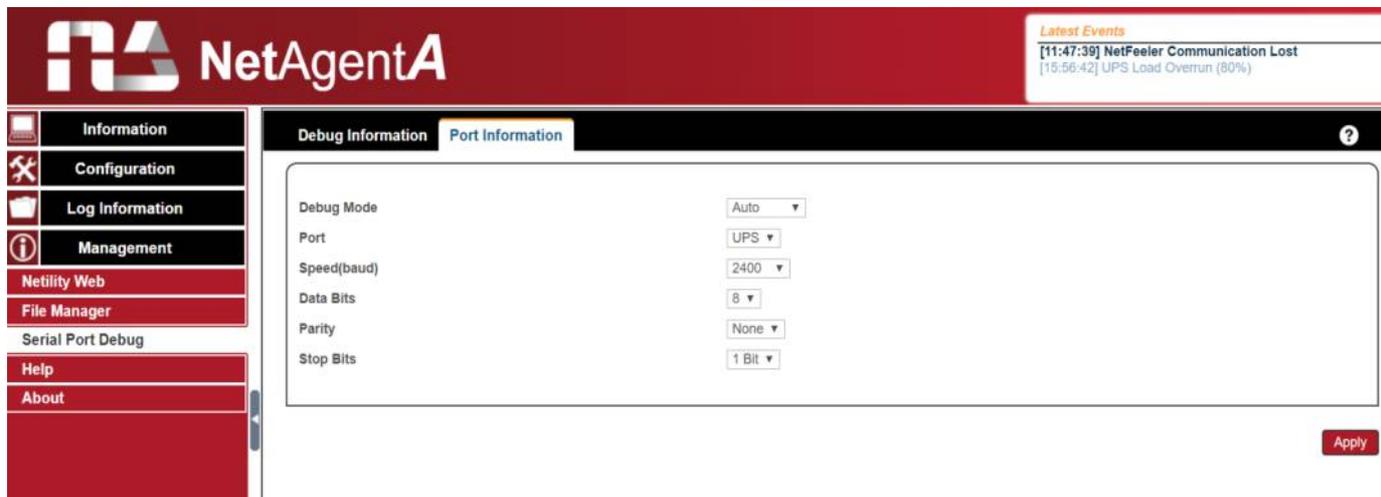
Received Information

This display the response that NetAgentA receives from UPS



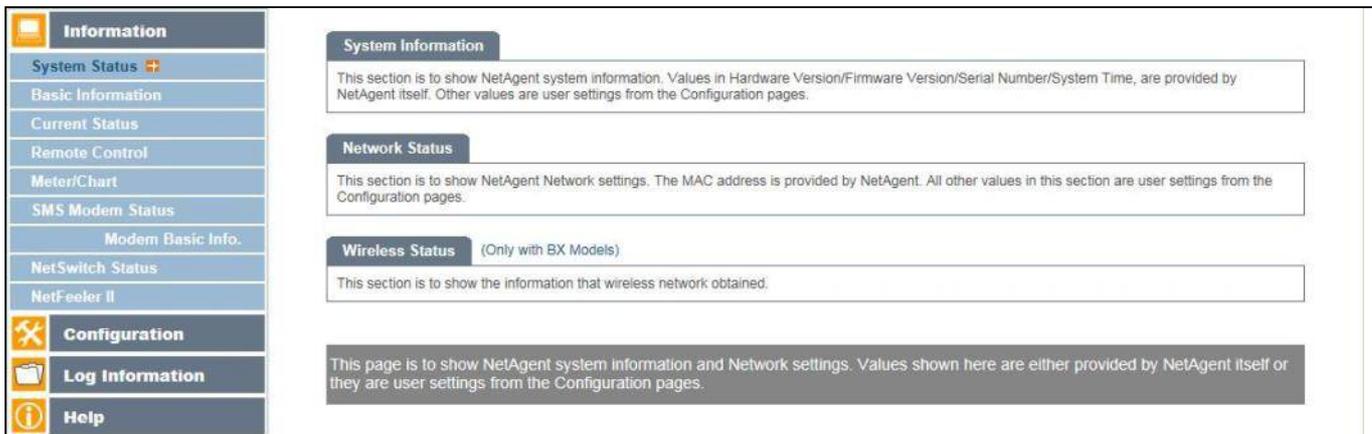
- **Port Information**

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



- **Management > Help**

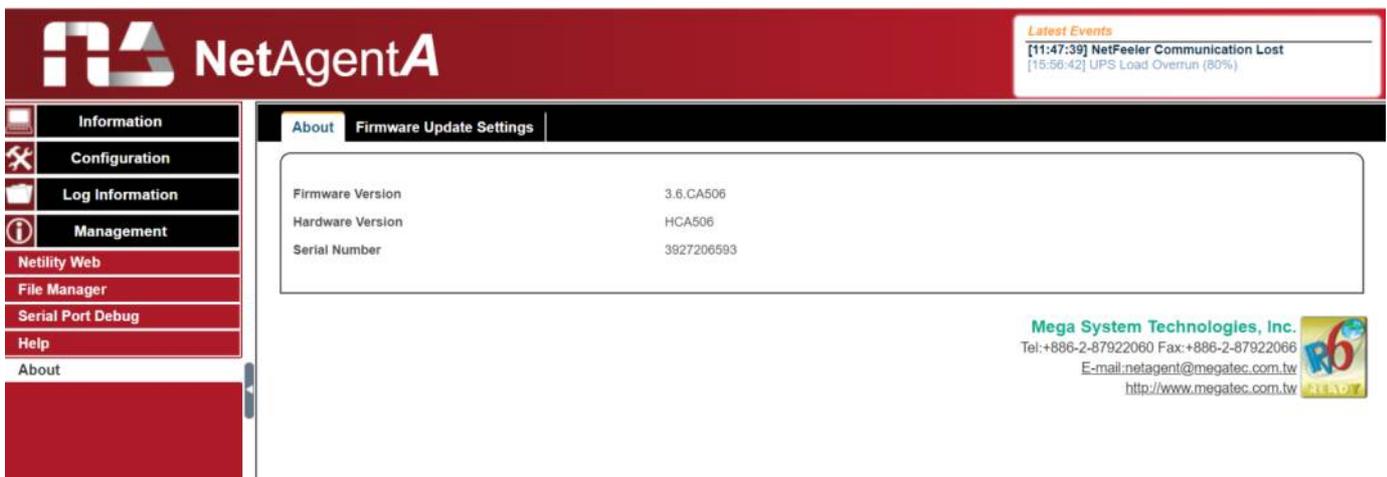
This is to help to illustrate each feature/option that NetAgentA offers



- **Management > About**

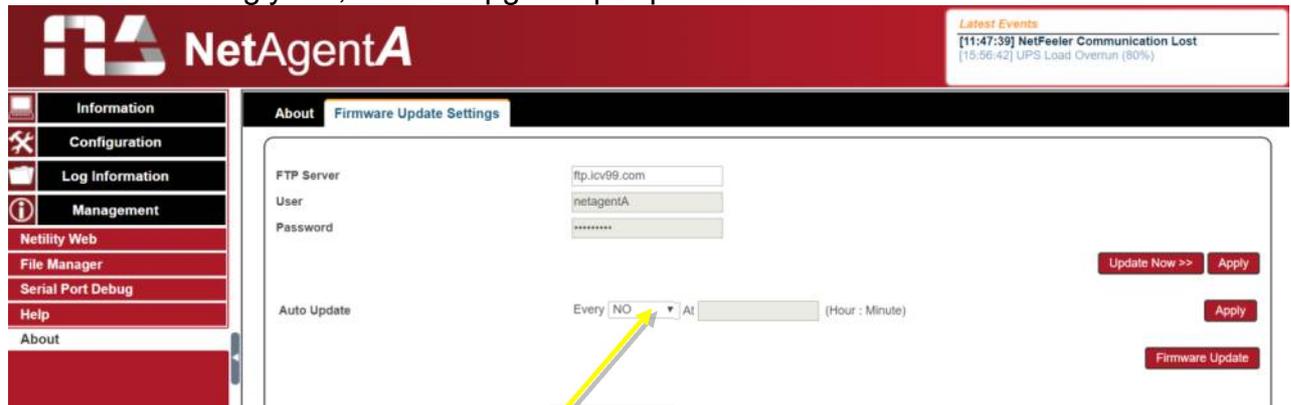
- **About**

It shows NetAgentA'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, NetAgentA will connect to the FTP server and upgrade to the latest firmware version accordingly. Or, it could upgrade per preset time.

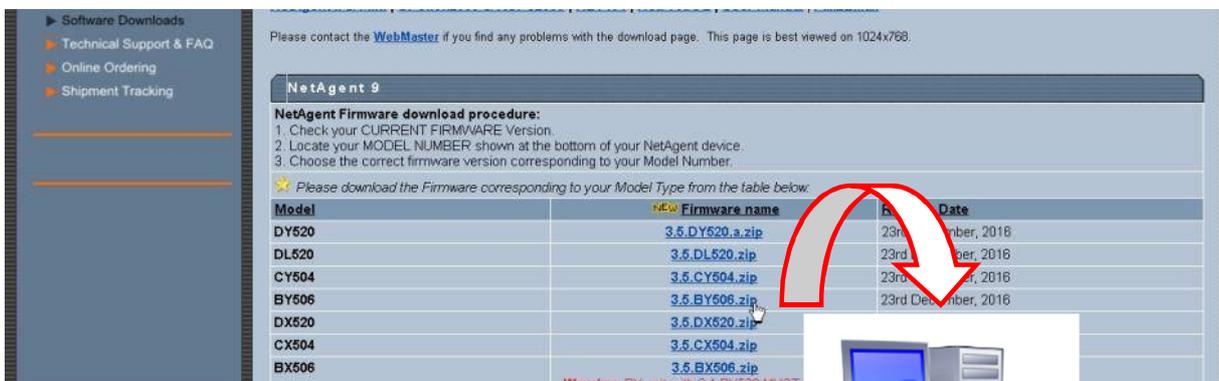


To enable NetAgentA's FTP firmware upgrade, please download the appropriate firmware version from the website and upgrade through FTP Client Software.

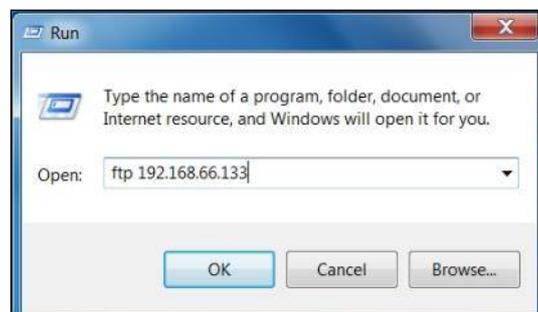
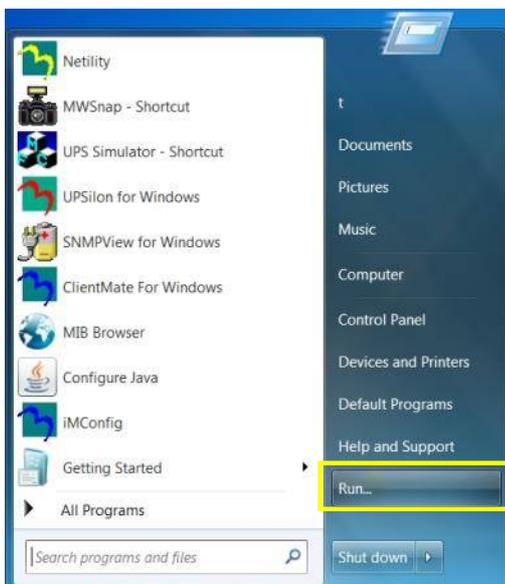
Mega System Technologies, Inc.
Tel: +886-2-87922060 Fax: +886-2-87922066
E-mail: netagent@megatec.com.tw
<http://www.megatec.com.tw>

Update Firmware from FTP Client

- Select on Enable
- Download the appropriate firmware version from website (<http://www.megatec.com.tw>)
- Unzip the file and know the directory path



Execute ftp + NetAgentA'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