



OPS-SNMP4-WEBCARD

NetAgentA

UPS SNMP Agent
User's Manual

User Guide for NetAgentA Mini
Version 1.0

Orion Power Systems Service and Technical Support

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Please have the following information ready when you call:

- Model number and Serial number
- Description of failure or problem
 - Date of failure or problem
- Customer contact information

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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

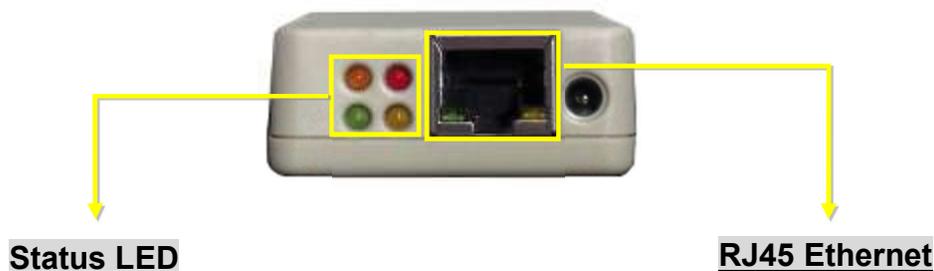
NetAgentA with USB ports could connect to optional sensor- USB NetFeeler to get the surrounding temperature/humidity/smoke/fire signals. These information could also be revealed on the NetAgentA Web page. When there is an abnormal condition happened, it could also be sent as a trap to the system manager.

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> <th>Flashing</th> <th>Off</th> </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> <th>On</th> <th>Off</th> </tr> <tr> <td>Normal</td> <td>No Power</td> </tr> </table>		On	Off	Normal	No Power	Yellow NetAgentA Mini Status <table border="1"> <tr> <th>On</th> <th>Off</th> </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										

The close-up shows the RJ45 port with two LEDs: a green one on the left and a yellow one on the right. A green arrow points from the green LED to a table, and a yellow arrow points from the yellow LED to another table.

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

Chapter 3 Software Installation

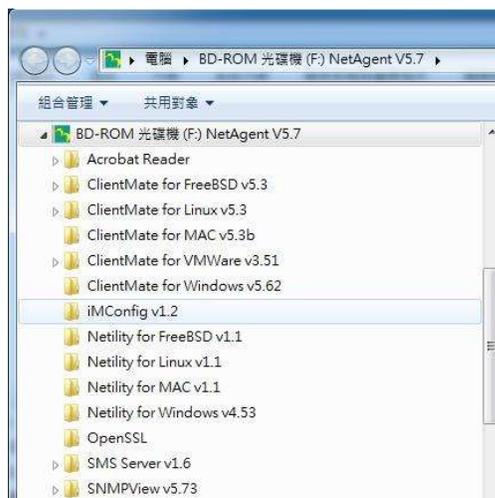
3.1 Software Installation

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' in the 'Program Installation' section. A 'Main Menu' is on the left with options: Introduction, Operating System Supported, System Requirements, Program Installation (highlighted), View Manuals, Contact Information, and Exit. The main area lists software options for various operating systems:

- Netility** (Windows v4.53, Linux v1.1, MAC v1.1, FreeBSD v1.1) - Callout: **Netility:** Configure and Search NetAgentA. Refer to 4.3
- ClientMate** (Windows v5.62, Linux v5.3, MAC v5.3b, FreeBSD v5.3, VMWare v3.51) - Callout: **ClientMate:** Shutdown OS Software. Refer to Chapter 6
- SMS Server** (SMS Server v1.6) - Callout: **SMS Server:** SMS notification Softwar. Refer to Chapter 9
- SNMPView** (v5.73) - Callout: **SNMPView :** Multi monitoring Software. Refer to Chapter 7
- iMConfig** (v1.2) - Callout: **iMConfig:** Muti-configuration Software. Refer to Chapter 8
- Time Server** - Callout: **Time Server:** Time server software

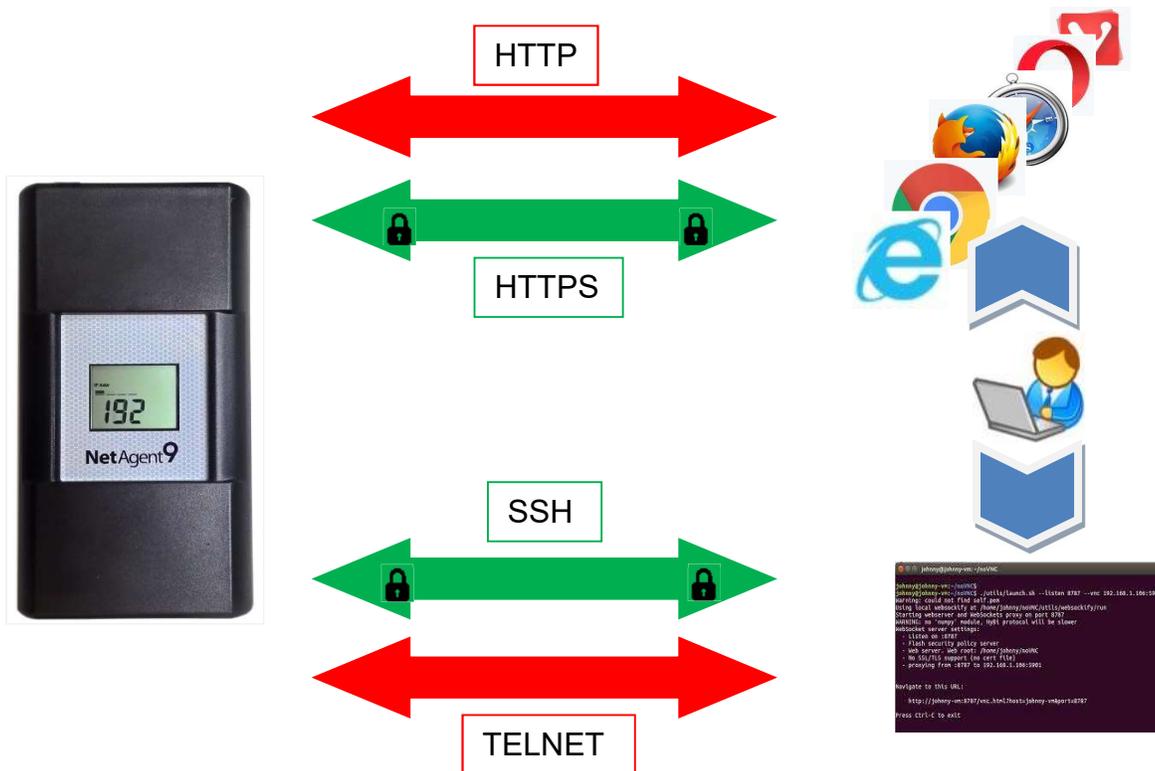
If the PC does not executes CD program automatically, please select from File Managment



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

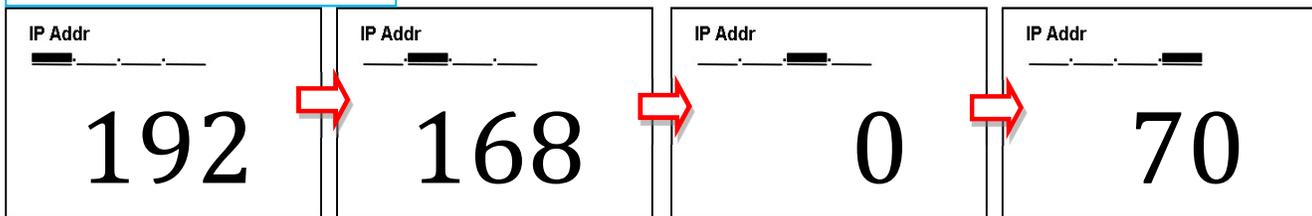
NOTE 1 : Each NetAgentA has its unique serial number / MAC address and Password. This is available on the label of each unit. This helps to identify the card information on Netility



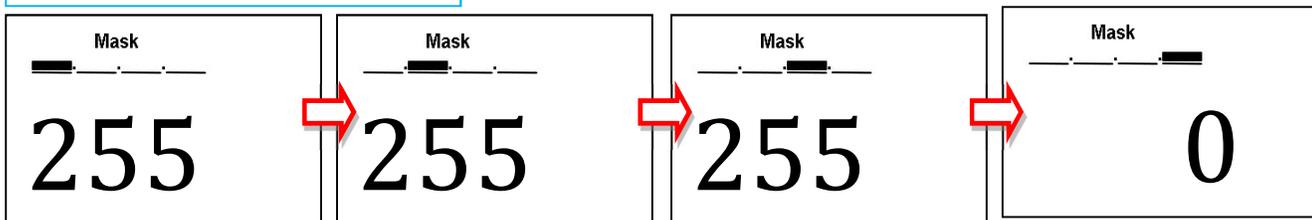
NOTE 2 : NetAgentA with LCD display may obtain the IP info from it.

Example of LCD display format as below

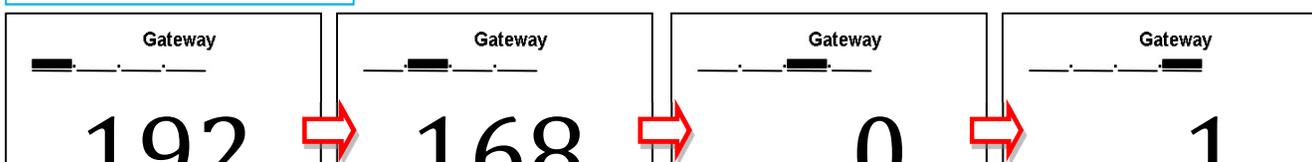
IP address 192.168.0.70



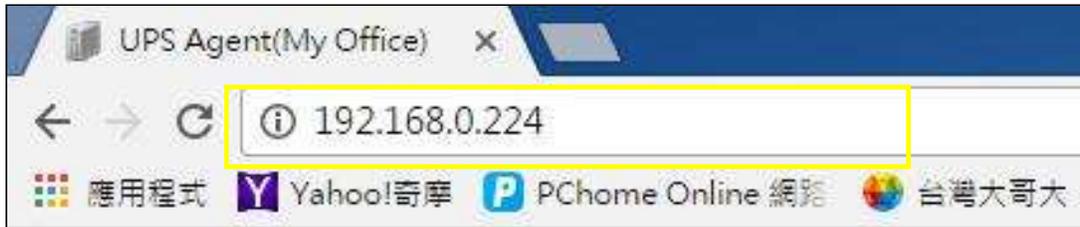
Subnet Mask: 255.255.255.0



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.



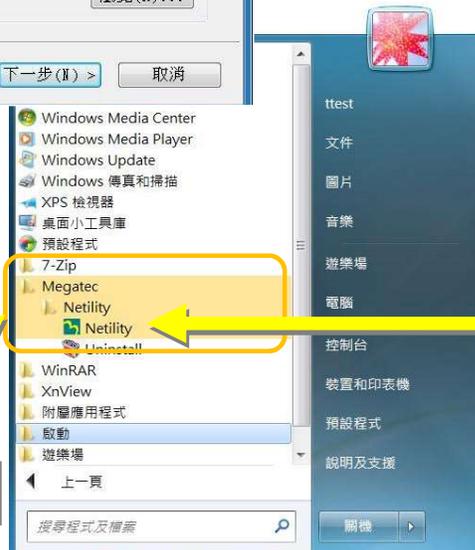
4.3 Netility Installation and Setting

■ 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



Netility Software

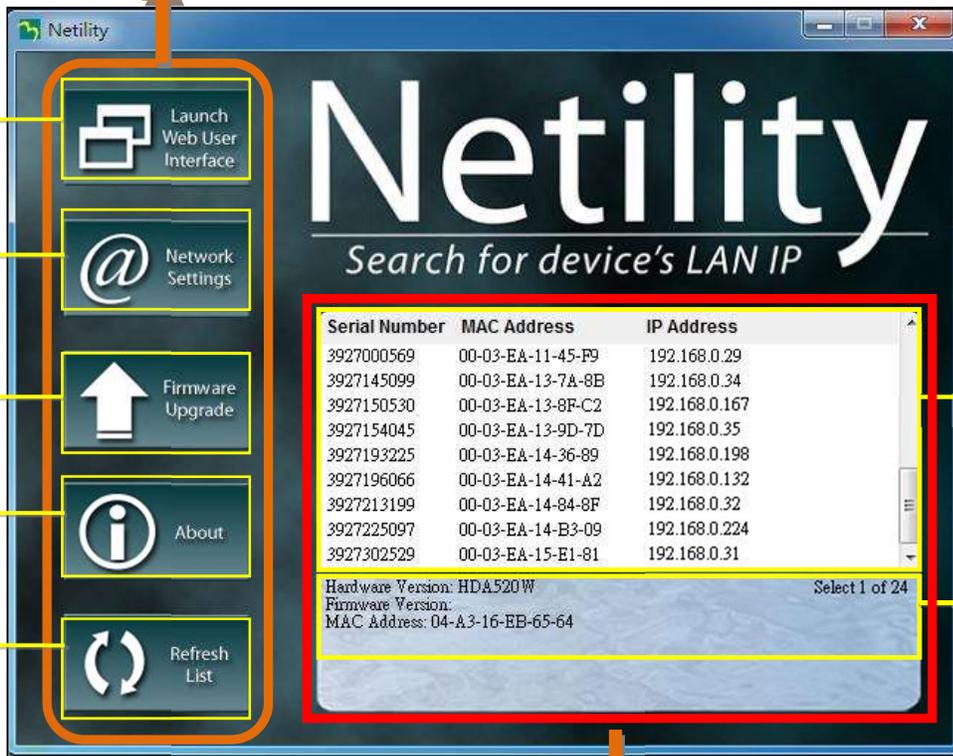
Under All Programs/ Megatec File Directory

■ Netlity Operation and Setting

Netlity main pages divided into 2 sections:

1. Online NetAgentA List 2. Function Selection

2. Function



1. Online NetAgentA

2.5 Refresh List

2.4 About

2.3 Firmware Upgrade

2.2 Network Settings

2.1 Launch Web User Interface

1.2 Individual NetAgentA Info

1.1 Online NetAgentA List

1.1 Online NetAgentA List

When open up Netility , it automatically searches all the available online NetAgentA 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 image displays two screenshots of the Netility application interface. The top screenshot shows a list of devices with the entry for IP 192.168.0.224 highlighted in red. A blue arrow points from this entry to the bottom screenshot. The bottom screenshot shows the same list, but with a yellow arrow pointing to the highlighted entry and a text box that says "Double click to login to the webpage".

Netility
Search for device's LAN IP

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

Netility
Search for

Double click to login to the webpage

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

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 shows the Netility software interface. On the left, there are several menu items: 'Launch Web User Interface', 'Network Settings', 'Firmware Upgrade', 'About', and 'Refresh List'. The main area displays a table of devices with columns for 'Serial Number', 'MAC Address', and 'IP Address'. A yellow box highlights a row in the table, and a yellow arrow points to it with the text 'Click on NetAgentA'. Below the table, a detailed view of a selected device is shown, including 'Hardware Version: HBY506', 'Firmware Version: 3.5.BY506', and 'MAC Address: 00-03-EA-14-B3-09'. A yellow arrow points to this detailed view with the text 'Hardware Version' and 'Firmware Version'. Another yellow arrow points to the 'Select 1 of 23' text with the text 'Total Number of NetAgentA found and selected'.

Serial Number	MAC Address	IP Address
3927000569	00-03-EA-11-45-P9	192.168.0.225
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

Click on Launch Web User Interface

1. Click on NetAgentA

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: HBY506
Firmware Version: 3.5_BY506
MAC Address: 00-03-EA-14-B3-09

Select 1 of 23



Login to the webpage of such NetAgentA

NetAgentA

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

Information

- UPS Status
- System Status
- Remote Control
- SMS Modem Status
- NetFeeler
- Configuration
- Log Information
- Management

System Information | UPS Information | Network Status

System Information	
Hardware Version	HCA506
Firmware Version	3.6.CA506
Serial Number	3927206593
System Name	UPS Agent
System Contact	Administrator
Location	My Office
System Time	2019/01/16 15:47:14
Uptime	2 day(s) 06:48:43

Warning will be initiated 10 minute(s) before Scheduled Shutdown Event
Send Email for Daily Report (No)

UPS Information	
UPS Last Self Test	--
UPS Next Self Test	--
UPS Critical Load	80 %
UPS Critical Temperature	70.0 °C
UPS Critical Capacity	10 %

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 annotations. The main interface has a sidebar with icons for 'Launch Web User Interface', 'Network Settings', 'Firmware Upgrade', and 'About'. The main content area displays a table of device information and a 'Configure' dialog box.

Table of Device Information:

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

Configure Dialog Box (IP Address tab):

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

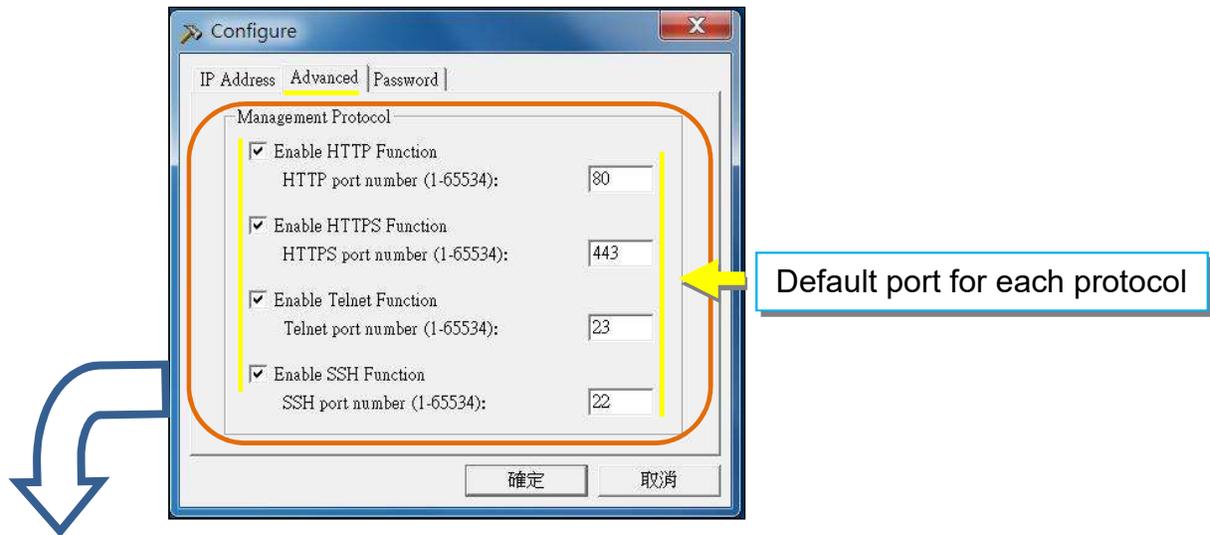
Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

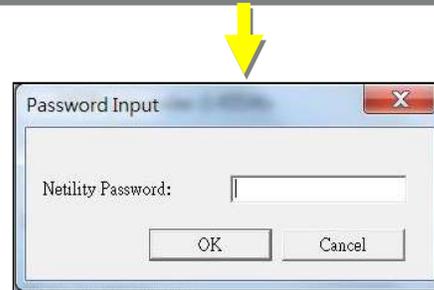
Buttons: 確定 (OK), 取消 (Cancel)

Callouts and Annotations:

- 1. Click on specific NetAgentA (points to the selected row in the table)
- 2. Click on Network Settings (points to the @ icon in the sidebar)
- Select to assign IP by DHCP (points to the DHCP radio button)
- Columns requires to be entered for Static IP address (points to the IP Address, Subnet Mask, and Gateway fields)



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.

The image illustrates the firmware upgrade process in the Netility software. It is divided into two rows of screenshots.

Row 1: Selection and Upgrade Options

- Upgrade Single:** Shows the Netility main window with a table of devices. The 'Firmware Upgrade' button is highlighted.
- Selection of Multi-NetAgentA:** Shows the same table with multiple rows selected.
- Upgrade consecutive:** Shows the same table with the first and last rows selected.

Row 2: Firmware Download Process

- 1. Select .bin file:** The 'Firmware Download' dialog box is open, showing the file path 'D:\FIRMWARE\3.5.BY506\3.5.BY506.bin'.
- Click on Download:** The 'Download' button is highlighted.
- 3. Upgrade message:** A progress bar is shown, followed by the message '1 unit success, 0 unit fail.' and a table with columns 'Device' and 'Download Status'. The device '3927225097' is listed with 'Download Successfully'.
- 4. Cancel to exit:** The 'Cancel' button is highlighted.

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

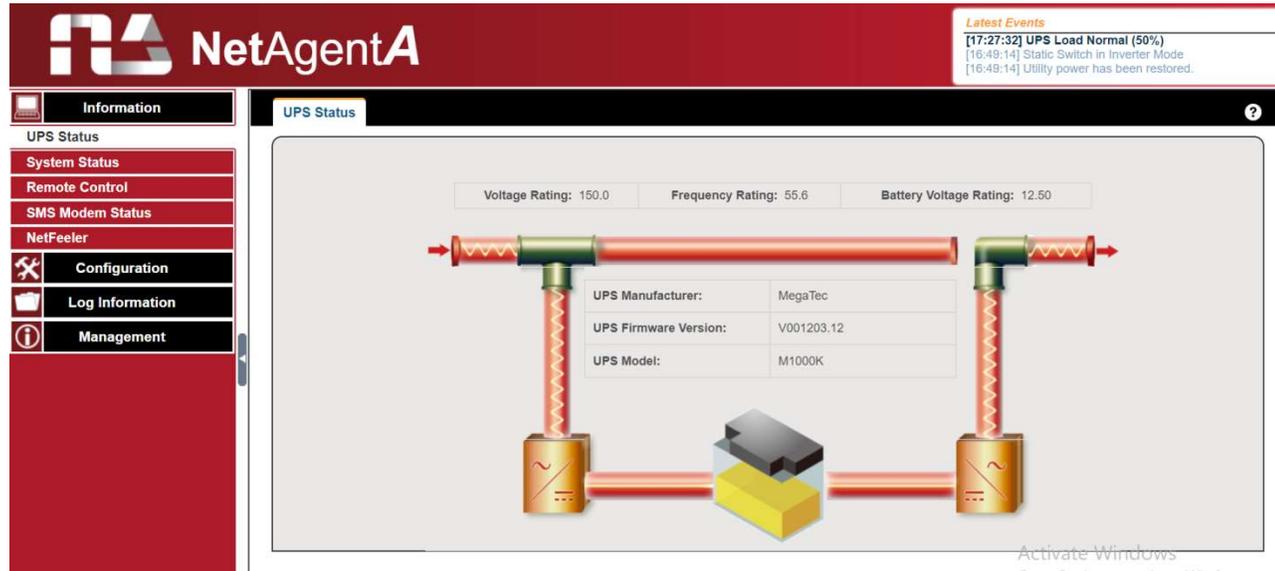


4.4 NetAgentA Web Interface & Setting

Information > UPS Status

UPS Status

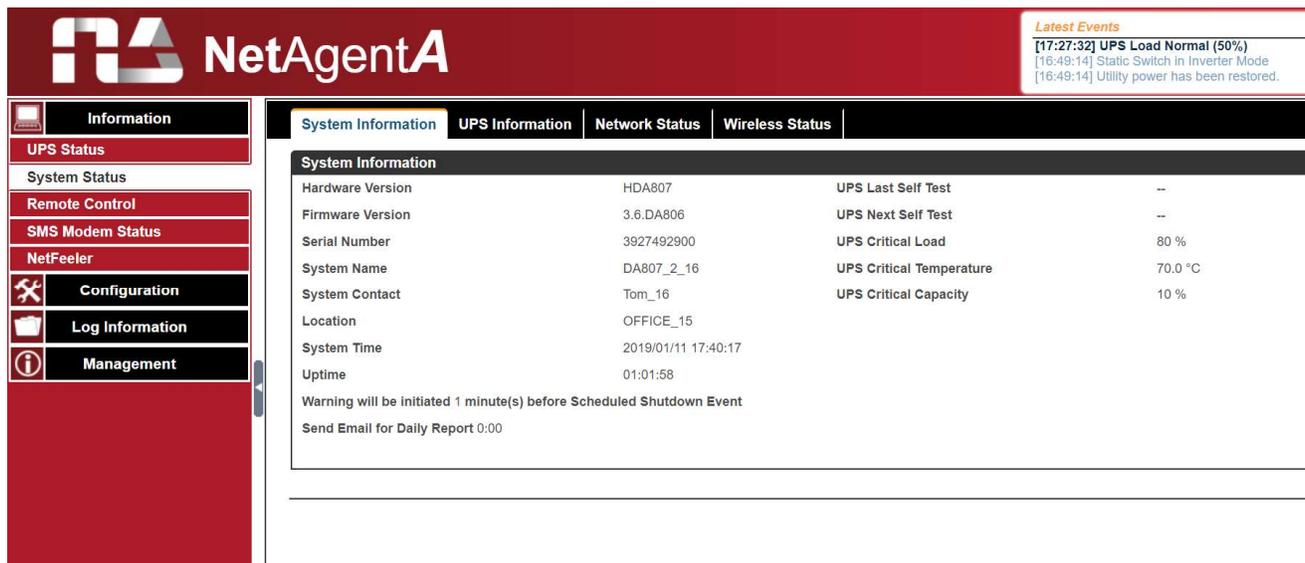
This page is to show the current UPS connection status in graphic mode with Voltage, Frequency and other information.



Information > System Status

System Information

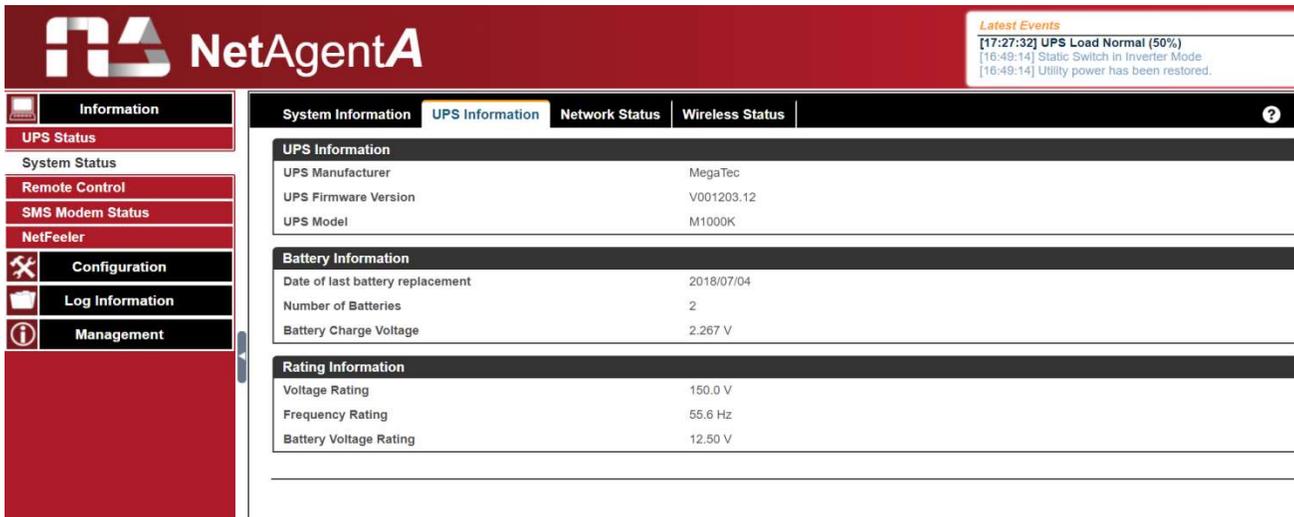
Here shows all the basic information of the NetAgentA such as hardware / firmware version; Serial Number; Uptime...etc.



- 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



NetAgentA Latest Events
 [17:27:32] UPS Load Normal (50%)
 [16:49:14] Static Switch in Inverter Mode
 [16:49:14] Utility power has been restored.

Information
 UPS Status
 System Status
 Remote Control
 SMS Modem Status
 NetFeeler
 Configuration
 Log Information
 Management

System Information | **UPS Information** | Network Status | Wireless Status

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

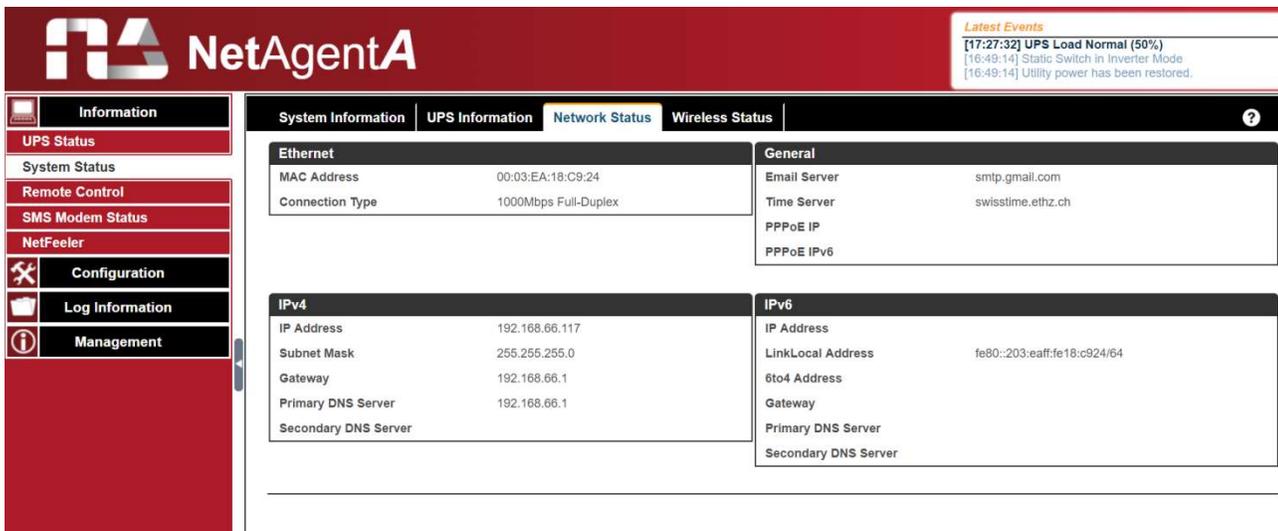
Rating Information

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.



NetAgentA Latest Events
 [17:27:32] UPS Load Normal (50%)
 [16:49:14] Static Switch in Inverter Mode
 [16:49:14] Utility power has been restored.

Information
 UPS Status
 System Status
 Remote Control
 SMS Modem Status
 NetFeeler
 Configuration
 Log Information
 Management

System Information | **UPS Information** | **Network Status** | Wireless Status

Ethernet

MAC Address	00:03:EA:18:C9:24
Connection Type	1000Mbps Full-Duplex

General

Email Server	smtp.gmail.com
Time Server	swisstime.ethz.ch
PPPoE IP	
PPPoE IPv6	

IPv4

IP Address	192.168.66.117
Subnet Mask	255.255.255.0
Gateway	192.168.66.1
Primary DNS Server	192.168.66.1
Secondary DNS Server	

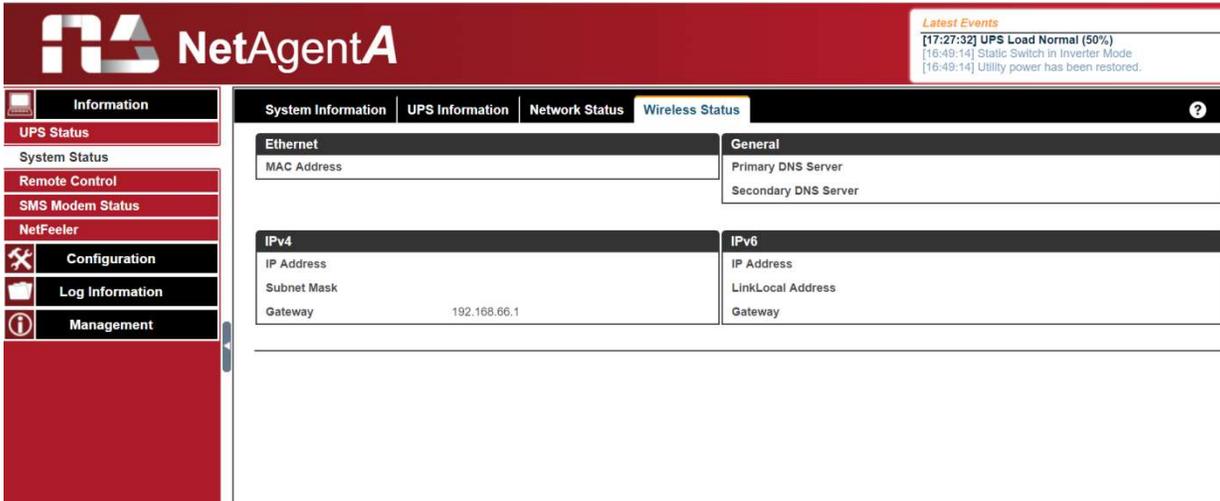
IPv6

IP Address	
LinkLocal Address	fe80::203:eaff:fe18:c924/64
6to4 Address	
Gateway	
Primary DNS Server	
Secondary DNS Server	

■ Information > System Status

• Wirelss Status

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



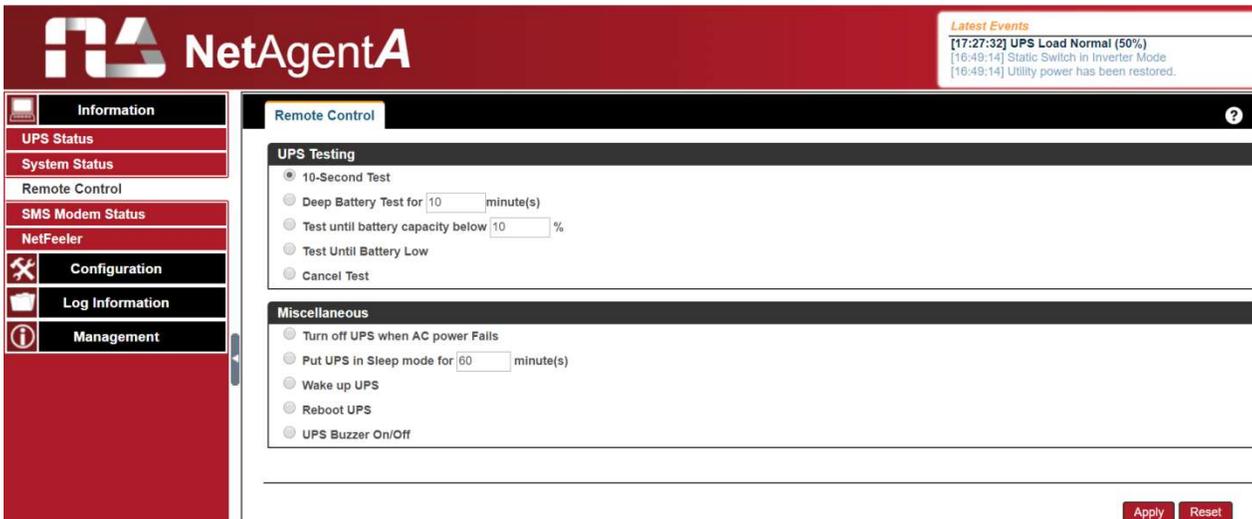
The screenshot shows the NetAgentA web interface. The top header is red with the NetAgentA logo and a 'Latest Events' box containing three entries: '[17:27:32] UPS Load Normal (50%)', '[16:49:14] Static Switch in Inverter Mode', and '[16:49:14] Utility power has been restored.' The left sidebar has a menu with 'Information' selected, and sub-items: 'UPS Status', 'System Status', 'Remote Control', 'SMS Modem Status', 'NetFeeler', 'Configuration', 'Log Information', and 'Management'. The main content area has tabs for 'System Information', 'UPS Information', 'Network Status', and 'Wireless Status'. The 'Wireless Status' tab is active, showing a table with Ethernet and IPv4 information on the left, and General and IPv6 information on the right.

Ethernet		General	
MAC Address		Primary DNS Server	
		Secondary DNS Server	

IPv4		IPv6	
IP Address		IP Address	
Subnet Mask		LinkLocal Address	
Gateway	192.168.66.1	Gateway	

■ 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 top header is red with the NetAgentA logo and a 'Latest Events' box containing three entries: '[17:27:32] UPS Load Normal (50%)', '[16:49:14] Static Switch in Inverter Mode', and '[16:49:14] Utility power has been restored.' The left sidebar has a menu with 'Information' selected, and sub-items: 'UPS Status', 'System Status', 'Remote Control', 'SMS Modem Status', 'NetFeeler', 'Configuration', 'Log Information', and 'Management'. The main content area has a 'Remote Control' tab and two sections: 'UPS Testing' and 'Miscellaneous'. The 'UPS Testing' section has four radio buttons: '10-Second Test' (selected), 'Deep Battery Test for 10 minute(s)', 'Test until battery capacity below 10 %', and 'Test Until Battery Low'. The 'Miscellaneous' section has five radio buttons: '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.

■ **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.

■ **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

The screenshot shows the NetAgentA web interface. The top navigation bar includes 'Information', 'Configuration', 'Log Information', and 'Management'. The 'Configuration' section is expanded to show 'UPS Configuration'. The 'UPS Properties' tab is active, displaying the following fields:

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

Buttons for 'Apply' and 'Reset' are located at the bottom right of the configuration area. A 'Latest Events' box in the top right corner shows a log of events: [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%).

- **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

The screenshot shows the NetAgentA web interface with the 'Test Log' tab active. The configuration area includes the following fields:

- Test UPS every: None (dropdown)
- Start Time of UPS Test (hh:mm): (empty text input)
- UPS Test Type: 10-Second Test (dropdown)
- UPS Recorder section:
 - UPS Data Log: 0 (text input) Minute(s) (-1 = Stop Recording)

'Apply' and 'Reset' buttons are at the bottom right. The 'Latest Events' box in the top right corner is identical to the previous screenshot.

- **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 displays the NetAgentA web interface. The top header features the NetAgentA logo and a 'Latest Events' box with the following entries: [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%). The left sidebar contains navigation menus for Information, Configuration, Log Information, and Management. Under Configuration, there is a sub-menu for UPS Configuration with options: 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 'Warning Threshold Value' and includes a 'UPS Properties' tab and a 'Test Log' tab. The configuration fields are: 'Time out after loss of connection' (30 seconds), 'Critical Load (%)' (80), 'Critical Temperature (°C)' (70.0), and 'Critical Capacity (%)' (10). 'Apply' and 'Reset' buttons are located at the bottom right of the configuration area. An 'Activate Windows' watermark is visible at the bottom right of the page.

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

- **UPS Action**

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

- Information
- Configuration
 - UPS Configuration
 - UPS On/Off Schedule
- Network
 - Wireless LAN
 - SNMP
 - Email
 - SMS
 - Web/Telnet/FTP
 - BACnet
 - SMS Modem
 - NetFeeler
 - System
- Log Information
- Management

UPS Action Remote Shutdown Weekly Schedule Date Schedule Wake On Lan

During 00:00 - 23:59 , if UPS Load Overrun occur, then turn off UPS after 1 minutes.

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]

Remote Shutdown

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

For example: To shutdown Host 1 (Windows server) and Host 2 (Linux server) after 1 minute when AC power failed.

First, go to UPS Action tab, select event of "AC Power Failed" then select "shutdown Host 1", press on Add. The action will be add in the list. Then the same for Host 2, select event of "AC Power Failed" and select "shutdown Host 2" from the list and press on Add to be in the list.

Latest Events

[17:24:07] UPS enter Sleep Mode.Power will be cut off
 [17:21:06] UPS Load Overrun (80%)
 [17:20:52] Server address can not be resolved.

UPS Action Remote Shutdown Weekly Schedule Date Schedule Wake On Lan

During 00:00 - 23:59 , if AC Power Failed occur, then shutdown Host1 after 1 minutes.

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 /a " is the shutdown command. For Linux, "halt" is the command to shut down. For MAC, it is "sudo shutdown" as the command.

Below to check command menu for different system

- Windows : shutdown/?

- Linux : shutdown –help
- MAC : sudo shutdown

NetAgentA Latest Events
 [18:13:07] UPS Load Normal (79%)
 [17:24:07] UPS enter Sleep Mode.Power will be cut off
 [17:21:06] UPS Load Overrun (80%)

UPS Action Remote Shutdown Weekly Schedule Date Schedule Wake On Lan

Host	Domain Name / IP	Login Mode	Port	User Name	Password	Shutdown Commands	Test
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

Apply Reset

- **Weekly Schedule**

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

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

Day	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 1 minute before Scheduled Shutdown Event

Apply Reset

- **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.

- Information
- Configuration**
 - UPS Configuration
 - UPS On/Off Schedule
 - Network
 - Wireless LAN
 - SNMP
 - Email
 - SMS
 - Web/Telnet/FTP
 - BACnet
 - SMS Modem
 - NetFeeler
 - System
- Log Information
- Management

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

Date (yyyy/mm/dd)	Turn On (hh:mm)	Turn Off (hh:mm)
<input type="text" value="2018/07/13"/>	<input type="text" value="10:00"/>	<input type="text" value="10:05"/>
<input type="text" value="2018/07/13"/>	<input type="text" value="10:10"/>	<input type="text" value="10:15"/>
<input type="text" value="2018/07/13"/>	<input type="text" value="10:20"/>	<input type="text" value="10:25"/>
<input type="text" value="2018/07/13"/>	<input type="text" value="10:30"/>	<input type="text" value="10:35"/>
<input type="text" value="2018/07/13"/>	<input type="text" value="10:40"/>	<input type="text" value="10:45"/>
<input type="text" value="2018/07/13"/>	<input type="text" value="10:50"/>	<input type="text" value="10:55"/>
<input type="text" value="2018/07/13"/>	<input type="text" value="11:00"/>	<input type="text" value="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.

- Information
- Configuration**
 - UPS Configuration
 - UPS On/Off Schedule
 - Network
 - Wireless LAN
 - SNMP
 - Email
 - SMS
 - Web/Telnet/FTP
 - BACnet
 - SMS Modem
 - NetFeeler
 - System
- Log Information
- Management

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

General Settings

Host1	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host2	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host3	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host4	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host5	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host6	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host7	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>
Host8	IP: <input type="text"/>	MAC: <input type="text"/>	<input type="button" value="Test"/>

Miscellaneous

Wake up remote host after power restore

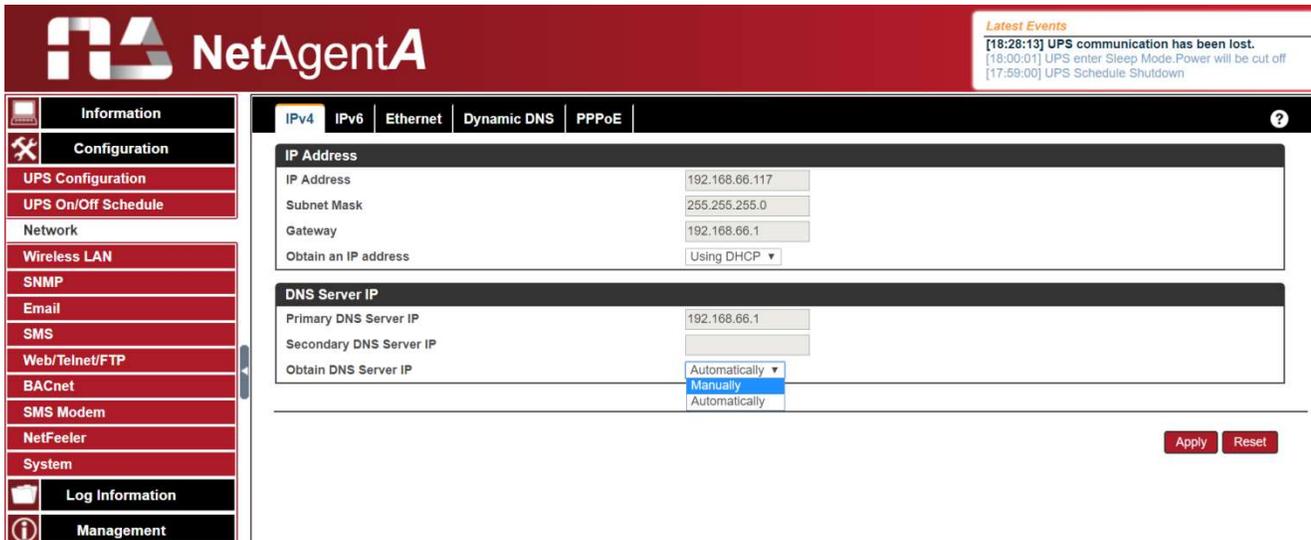
Wait until battery capacity reaches to %.

■ **Configuration > Network**

This page is to set NetAgentA's Network settings.

- **IPv4**

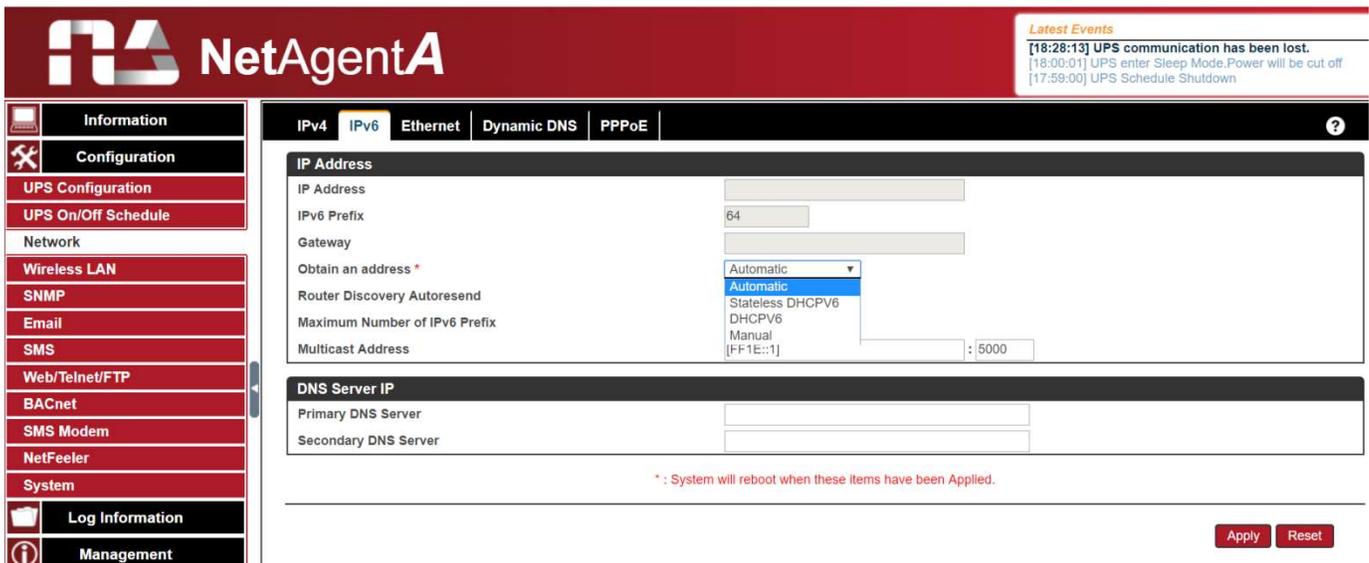
NetAgentA and DNS IP address can be obtain by drop down list with option of Manually, Using DHCP, or Bootp. If the IP address and DNS has been configured on Netility, then info will automatically show here



- **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



- **Ethernet**

Connection Type

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

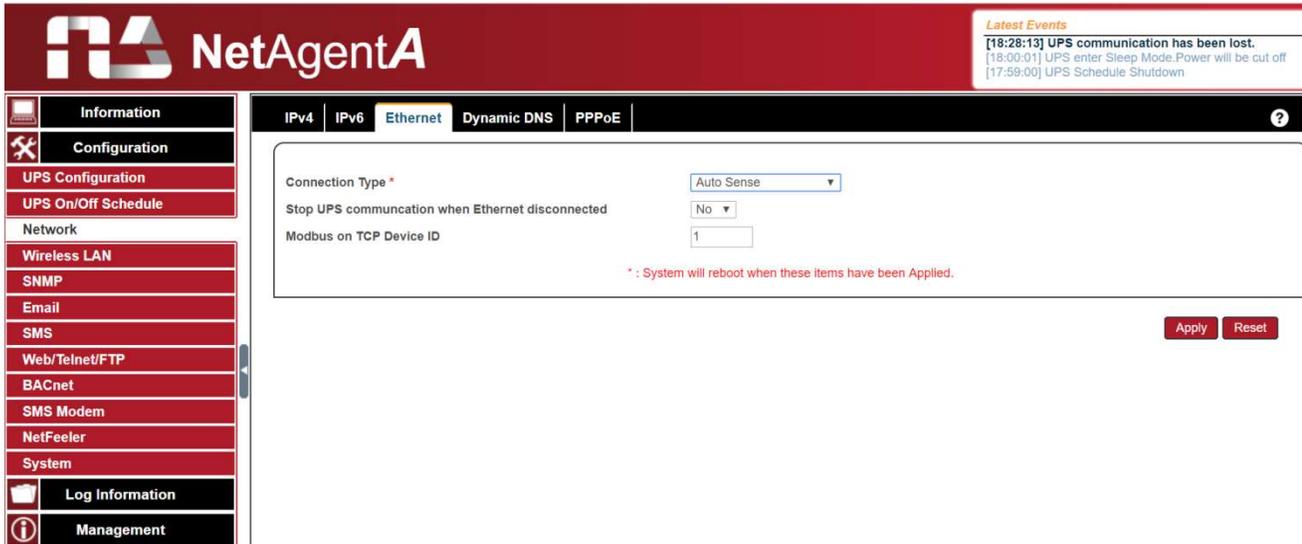
✳️ Once click on Apply, NetAgentA will reboot

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



• **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

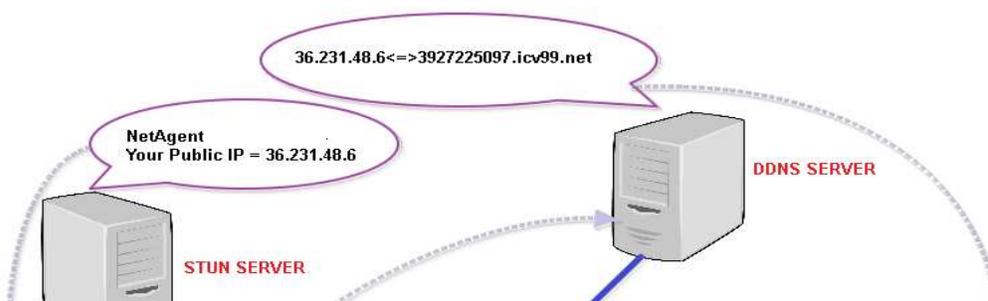
This is the Login / Account name that you have created with the selected DDNS provider.

Login Password:

Enter the Password you have assigned to your DDNS Account.

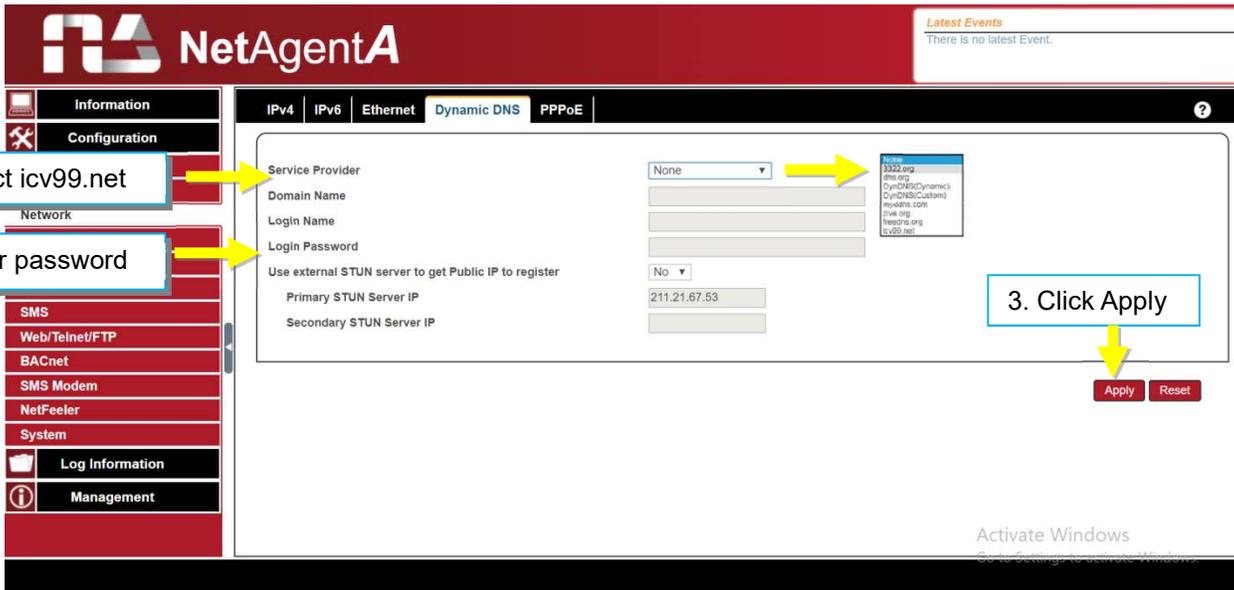
Use external STUN server to get Public IP to register

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.



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 a router configuration page with a sidebar on the left containing: VIRTUAL SERVER, PORT FORWARDING, APPLICATION RULES, QOS ENGINE, NETWORK FILTER, ACCESS CONTROL, WEBSITE FILTER, INBOUND FILTER, FIREWALL SETTINGS, ROUTING, and ADVANCED WIRELESS. The main area is titled 'VIRTUAL SERVER' and contains a description: 'The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.' Below the description are 'Save Settings' and 'Don't Save Settings' buttons. A table titled '24 -- VIRTUAL SERVERS LIST' is shown below, with one entry highlighted:

	Name	Port	Traffic Type	Schedule
<input checked="" type="checkbox"/>	BY506 Application Name	Public Port: 80 Private Port: 80	Protocol: TCP 6	Always

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

The screenshot shows the NetAgentA web interface. The address bar contains `http://3927389963.icv99.net/`. The interface includes a navigation menu on the left with options like Information, UPS Status, Remote Control, and Configuration. The main content area is divided into System Information, UPS Information, and Network Status. The System Information section displays details such as Hardware Version (HDA806), Firmware Version (3.6.DA806.VTs), and System Name (UPS Agent). A 'Latest Events' box in the top right corner shows connection failures with a time server and UPS communication loss.

Below the main interface, a diagram illustrates the network setup for iImage Server and Dynamic Domain Name Server (DDNS). The iImage Server section shows a WAN/LAN connection via a Router and xDSL, with a Remote Viewer accessing the iImage Server. The DDNS section compares a static IP address (`http://59.124.238.70`) without DDNS to a dynamic IP address (`http://abc.icv99.net`) with DDNS. A registration form for DDNS is visible, with fields for Domain Name (`2927225097.icv99.net`) and Domain Password. A yellow box highlights the registration form, and a yellow arrow points from a label box to the 'Domain Password' field.

NetAgent9
Mega System Technologies, Inc.
Tested to Comply with FCC Standards For Home or Office Use
S/N: Y-3927225097 M
MAC: 00-03-EA-14-B2-E0
Password: 24931D03



The screenshot shows the 'Dynamic Domain Name Server (DDNS)' registration form. The form is divided into two steps: 'Step1: Registration' and 'Step2: Set Domain Name and Click Done'. The registration information is as follows:

Product Serial number	3927225097
Register IP	127.0.0.1
Default Domain Name	3927225097.icv99.net

The 'Set New Domain Name' section contains the following fields:

- Set New Domain Name:** `bty505` .icv99.net. A yellow arrow points to this field from a label box that says 'New Domain name'.
- Domain Password:** Masked with dots. A yellow arrow points to this field from a label box that says 'Enter new password'.
- Re-enter Password:** Masked with dots. A yellow arrow points to this field from a label box that says 'Enter new password'.
- E-mail address:** `ttc@gmail.com`. A yellow arrow points to this field from a label box that says 'Enter email'.

Additional text in the form includes: 'Must be 4 to 31 letters or digits.', '* Blank = Use existing password', and 'Required, if a new domain name is assigned. Must be 4 to 10 characters (0-9, a-z, A-Z only).'. A 'Done' button is located at the bottom right.

Click on Done

• **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', '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 'Configuration' section is expanded to show 'PPPoE' settings. A dropdown menu is set to 'Connect always'. There are input fields for 'Login Name' and 'Login Password'. A 'Done' button is highlighted with a yellow box. The interface also shows 'Apply' and 'Reset' buttons. A watermark for 'Activate Windows' is visible at the bottom right.

■ Configuration > Wireless LAN

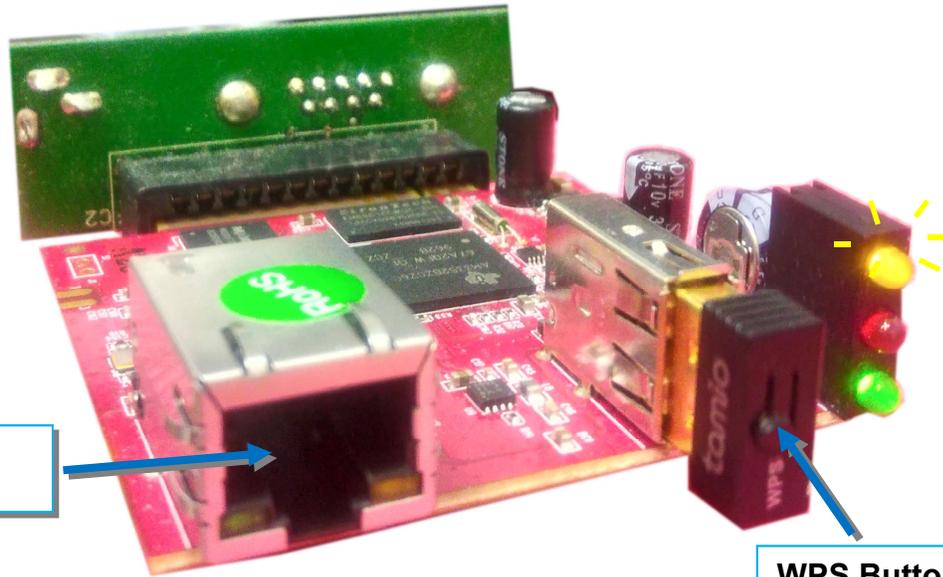
This is to configure NetAgentA Wireless network with compatible USB wireless dongle.

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.



LAN cable is not required

WPS Button

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**"



ASUS RT-AC53 登出 重新開機 繁體中文

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

無線網路 - WPS

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	<input checked="" type="checkbox"/>
目前頻率	2.4GHz
連線狀態	Start WPS Process
配置	是 <input type="button" value="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

Start WPS Connection Process



ASUS RT-AC53 登出 重新開機 繁體中文

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

無線網路 - WPS

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	<input checked="" type="checkbox"/>
目前頻率	2.4GHz
連線狀態	Success
配置	是 <input type="button" value="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：

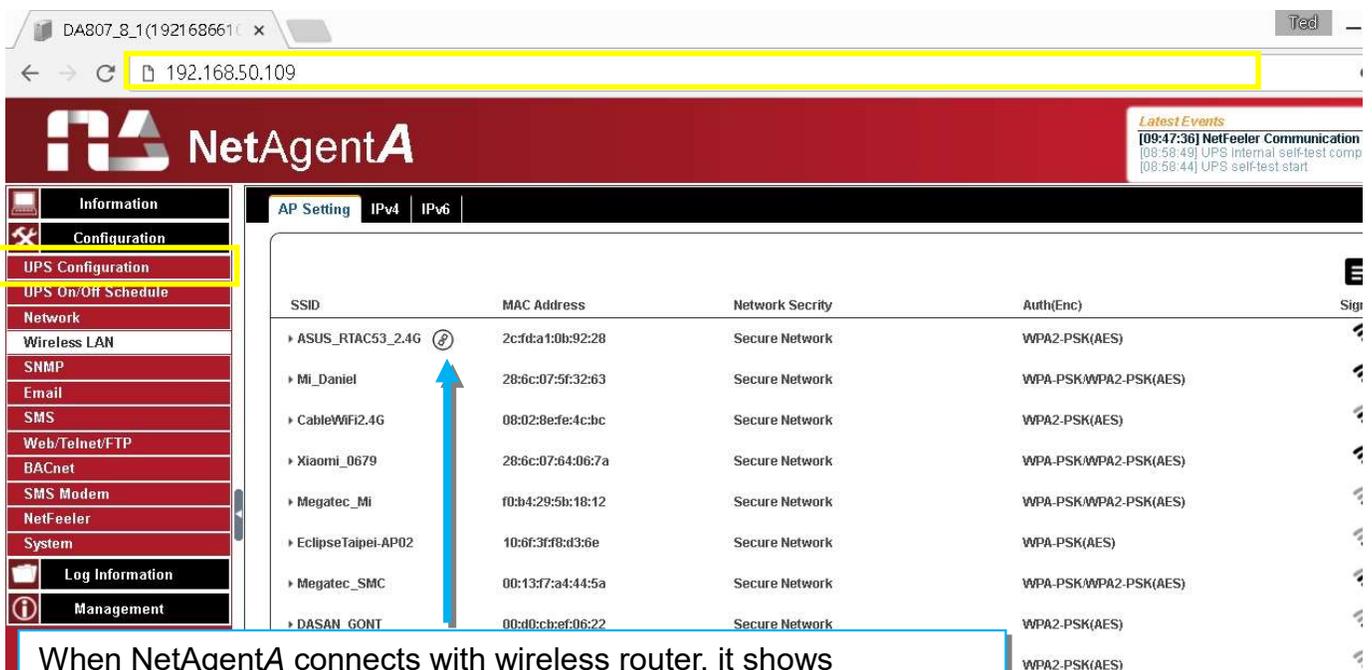
- 方法1：點擊介面上的 WPS 按鈕。（或按下路由器後面板的 WPS 按鈕），然後按下用戶端無線網路卡上的 WPS 按鈕並等待約 3 分鐘。
- 方法2：開啟用戶端 WPS 程式並取得用戶端PIN碼。在用戶端PIN碼欄中輸入用戶端PIN碼並點選「開始」。請查看您的無線用戶端的使用手冊以確認其是否支援WPS功能。若您的無線用戶端不支援 WPS 功能，您需要進行手動設定並設定與路由器相同的網路名稱（SSID）以及加密設定。

WPS 連線模式：
 WPS 按鈕 用戶端 PIN 碼

When WPS connection successfully, the yellow LED on NetAgentAA stop flashing

Open up Netility to login to NetAgentA :

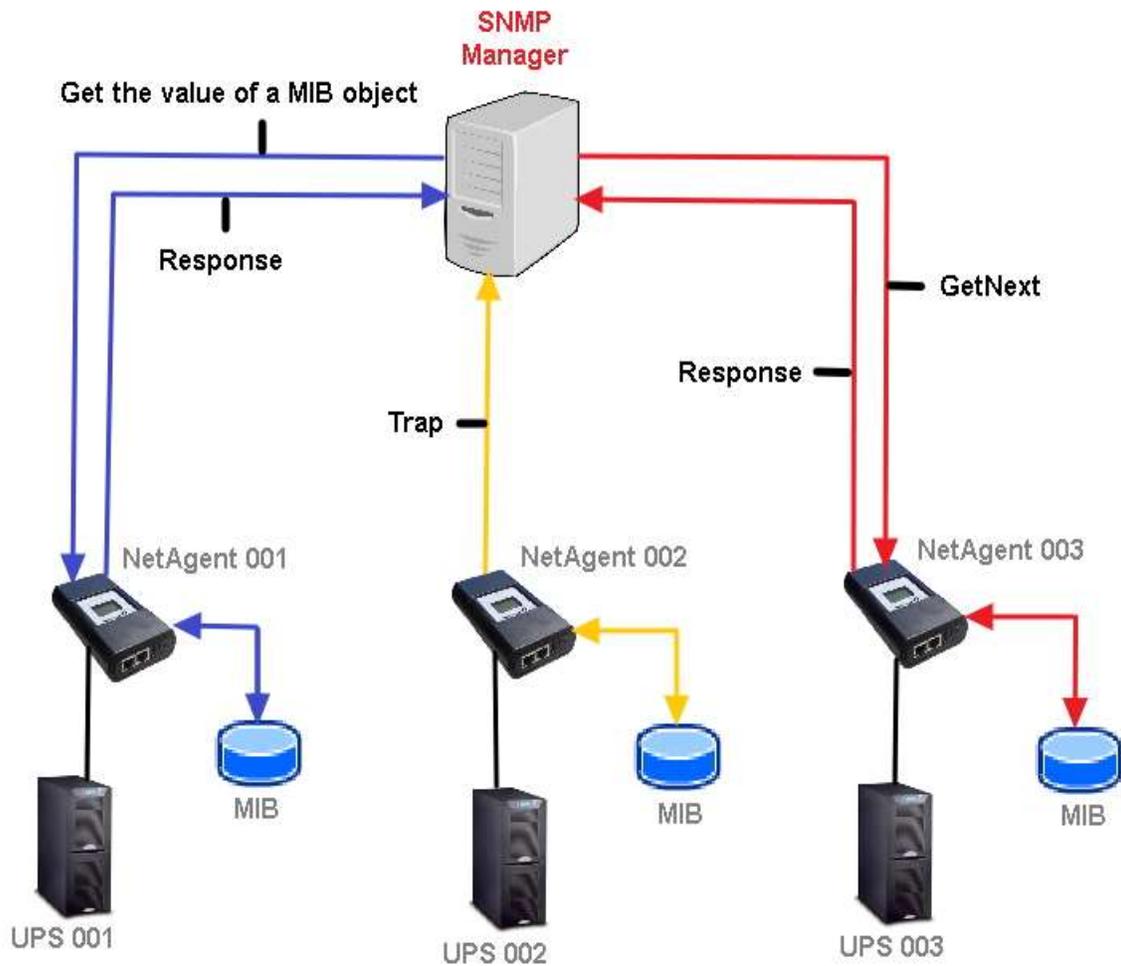
- (1) Once NetAgentA is connected with wireless router via WPS, Netility should be able to find this wireless NetAgentA
- (2) Login to NetAgentA's webpage , under **Configuration > Wireless Lan** webpage, it shows the wireless signal
(With distance of 6-10 meters. Router RT-AC53 still shows with full signal)



When NetAgentA connects with wireless router, it shows

■ 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 management interface. The top header features the NetAgentA logo and a 'Latest Events' section indicating 'There is no latest Event.' The left sidebar contains a navigation menu with categories: Information, Configuration (including UPS, Network, Wireless LAN, SNMP, Email, SMS, Web/Telnet/FTP, BACnet, SMS Modem, NetFeeler, System), Log Information, and Management. The main content area is divided into tabs: General, Access Control, Trap Notification, and Device Connected. The 'General' tab is active, showing three configuration sections: 1. 'MIB System' with fields for System Name (UPS Agent), System Contact (Administrator), and System Location (My Office). 2. 'SNMP UDP Port' with fields for NetAgent SNMP Port (161) and Trap Receive Port (162). 3. 'SNMPv3 Engine ID' with a dropdown for 'SNMPv3 Engine ID Format Type' (set to MAC Address) and a text field for 'SNMPv3 Engine ID Text' (80003461030003ea146ac1). A red warning message 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 of the interface includes 'Activate Windows' and 'Go to Settings to activate Windows'.

- **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 :

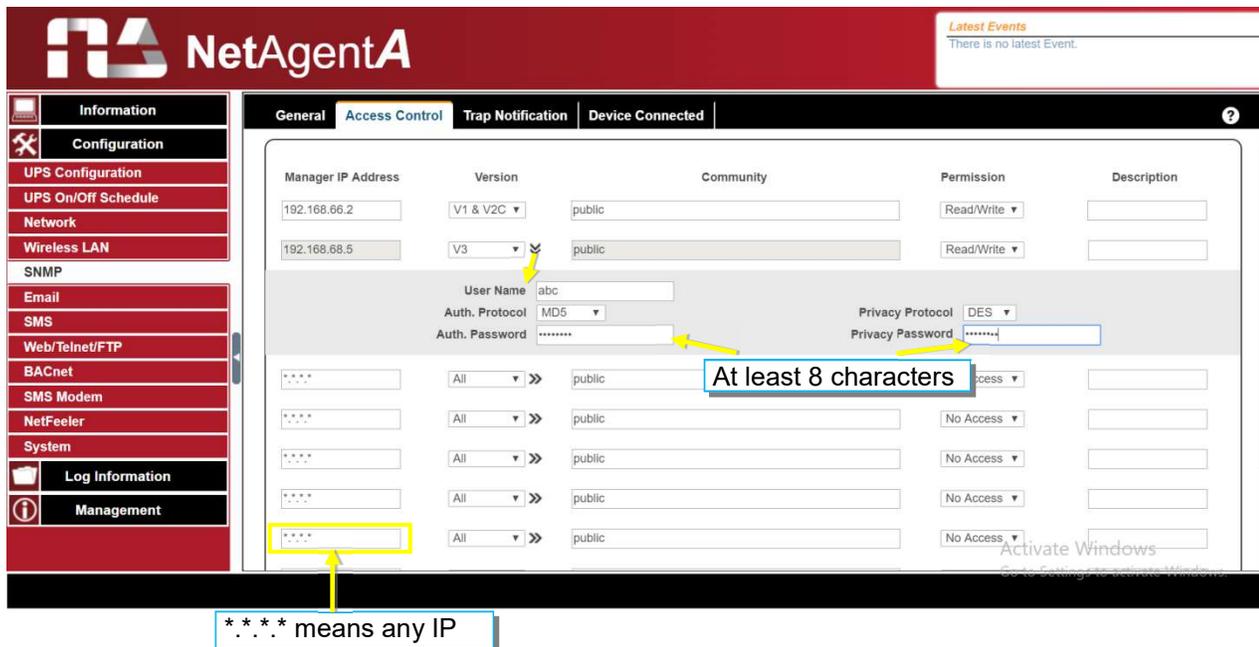
This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS. (Default is public)

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)

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

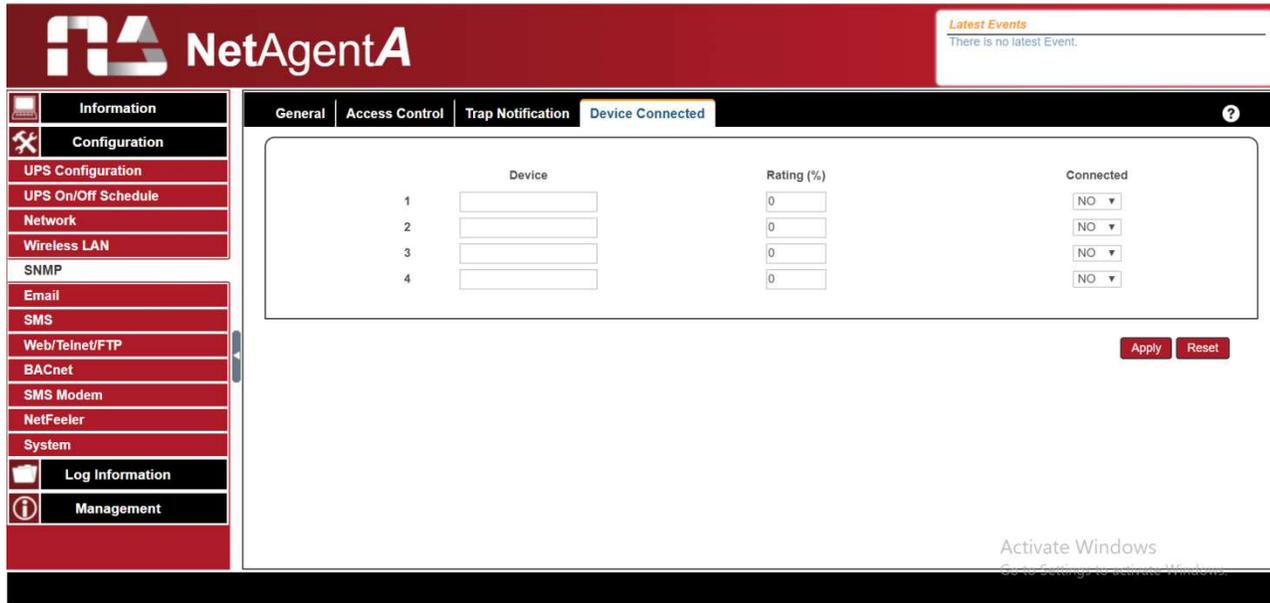
SNMP Inform Request

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 interface. At the top, the NetAgentA logo is visible on the left, and a 'Latest Events' box on the right shows 'There is no latest Event.' Below the header, there are tabs for 'General', 'Access Control', 'Trap Notification', and 'Device Connected'. The 'Trap Notification' tab is active, showing a table of trap configurations. A yellow arrow points to the 'SNMPv3 Inform' dropdown menu in the first row of the table. Below the table, there is a section for 'Send Power Restore and Adapter Restore Traps for 0 time(s) in 0 second(s) interval.' At the bottom of the interface, there is a 'SNMP Inform Request' section with fields for 'Number of Retries' (set to 3) and 'Timeout (sec)' (set to 5). The bottom of the page shows a login area with fields for 'User Name' (abc), 'Auth. Protocol' (MD5), 'Privacy Protocol' (DES), 'Manager Engine ID', 'Auth. Password', and '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 :

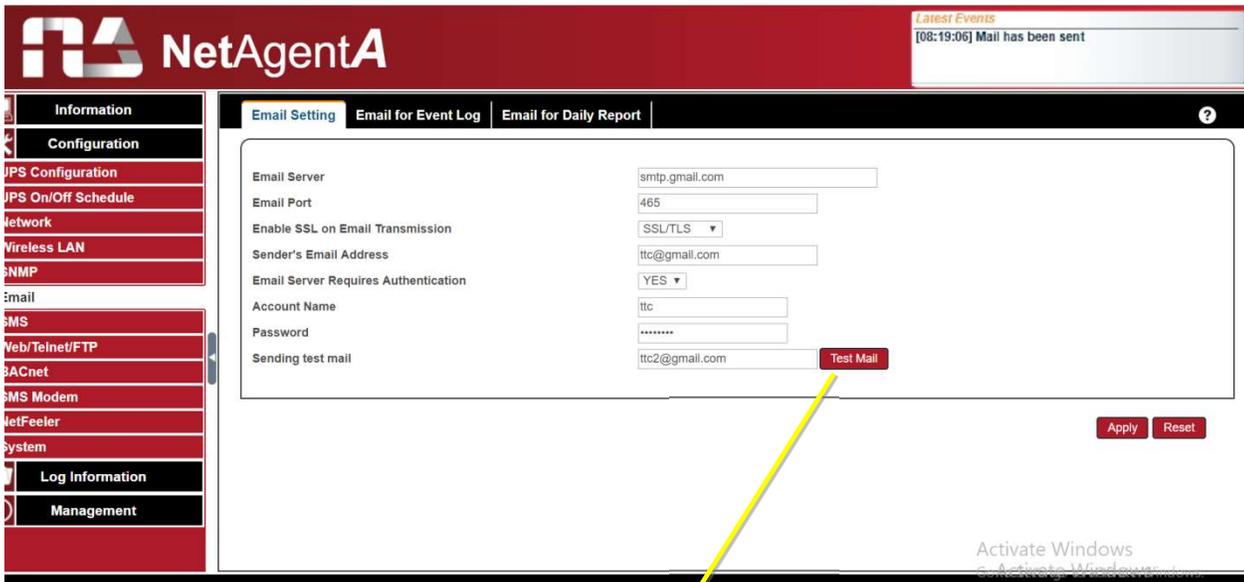
If authentication is required, enter its account name

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

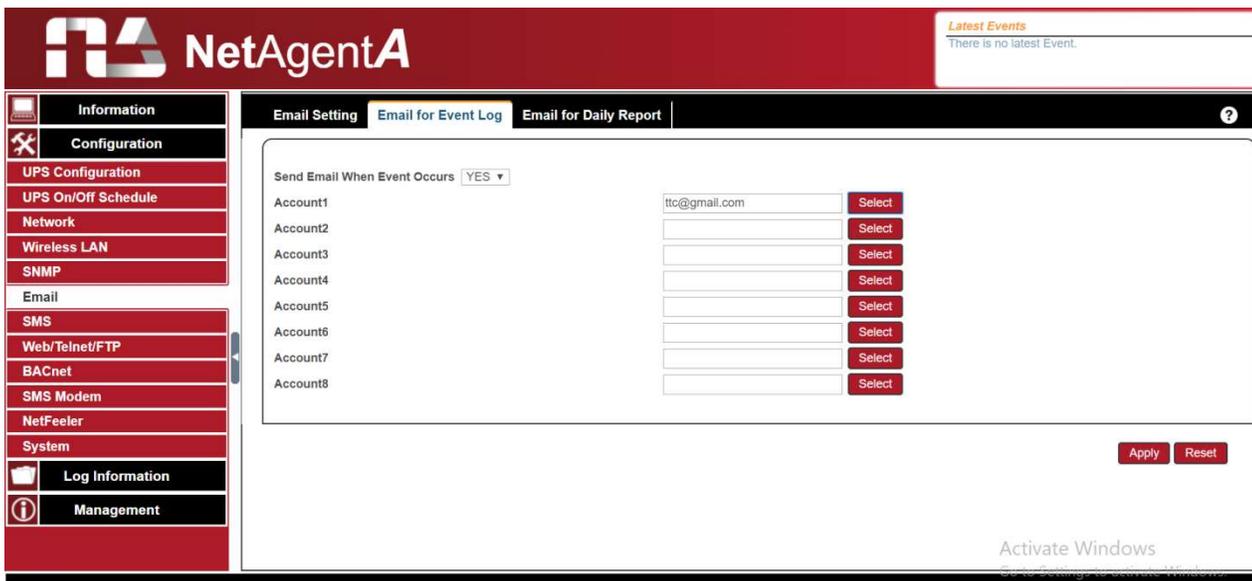


Test Email Received



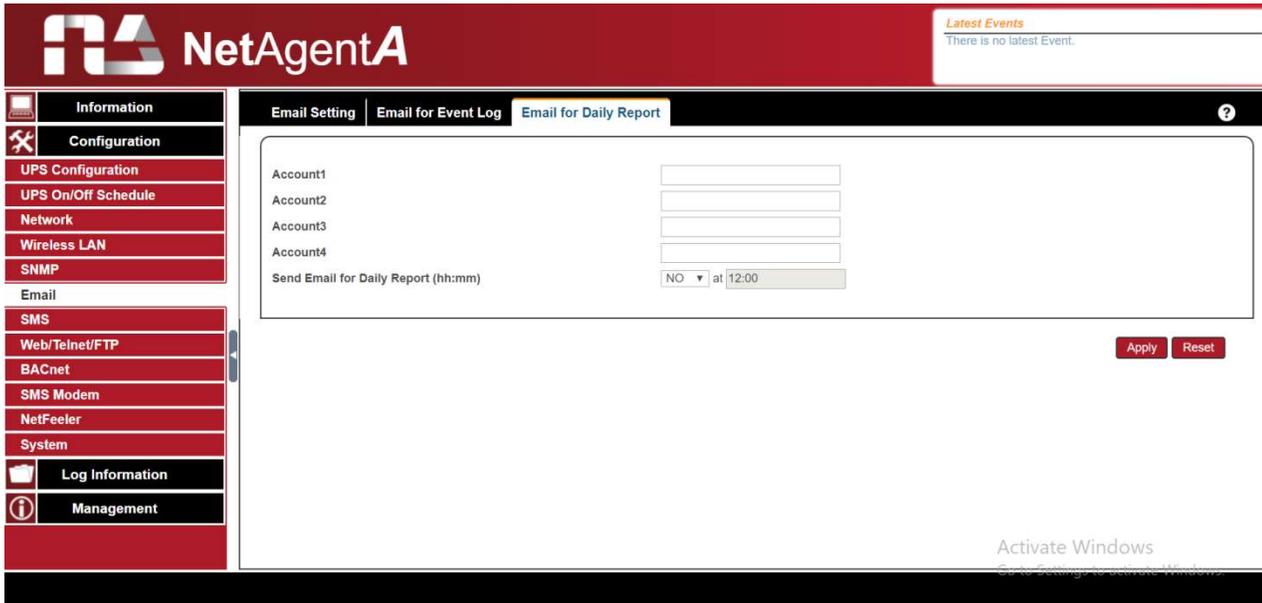
- **Email for Event Log (To received email notification)**

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



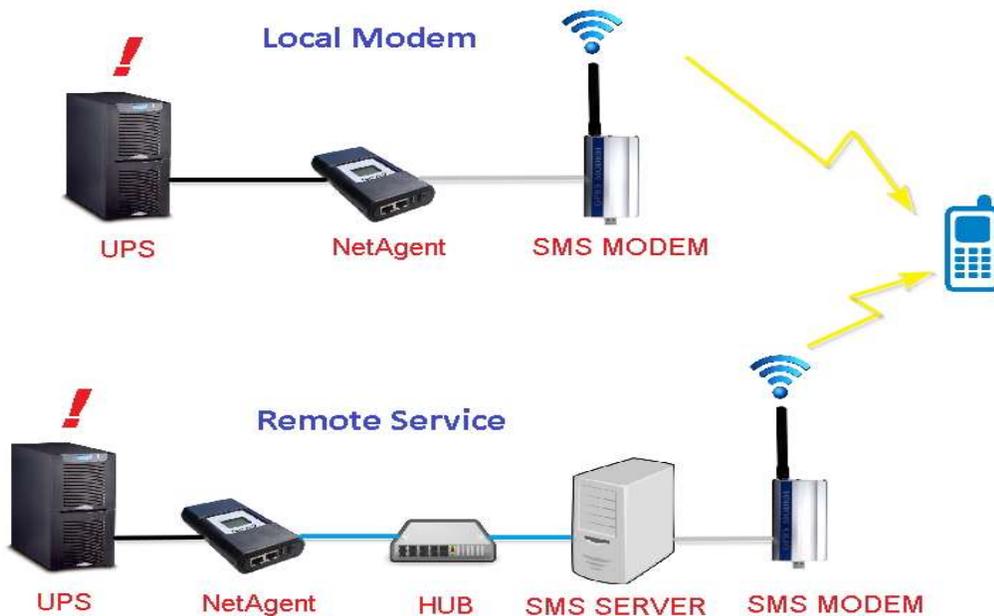
- **Email for Daily Report (To receive daily report)**

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

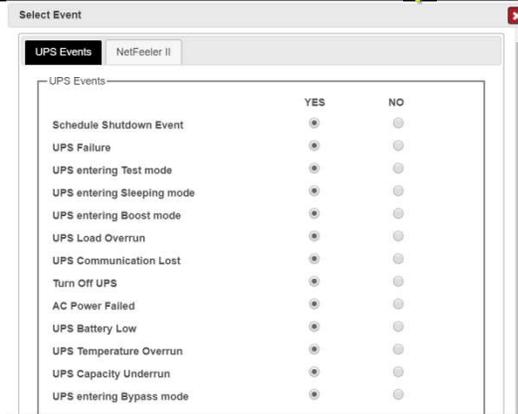
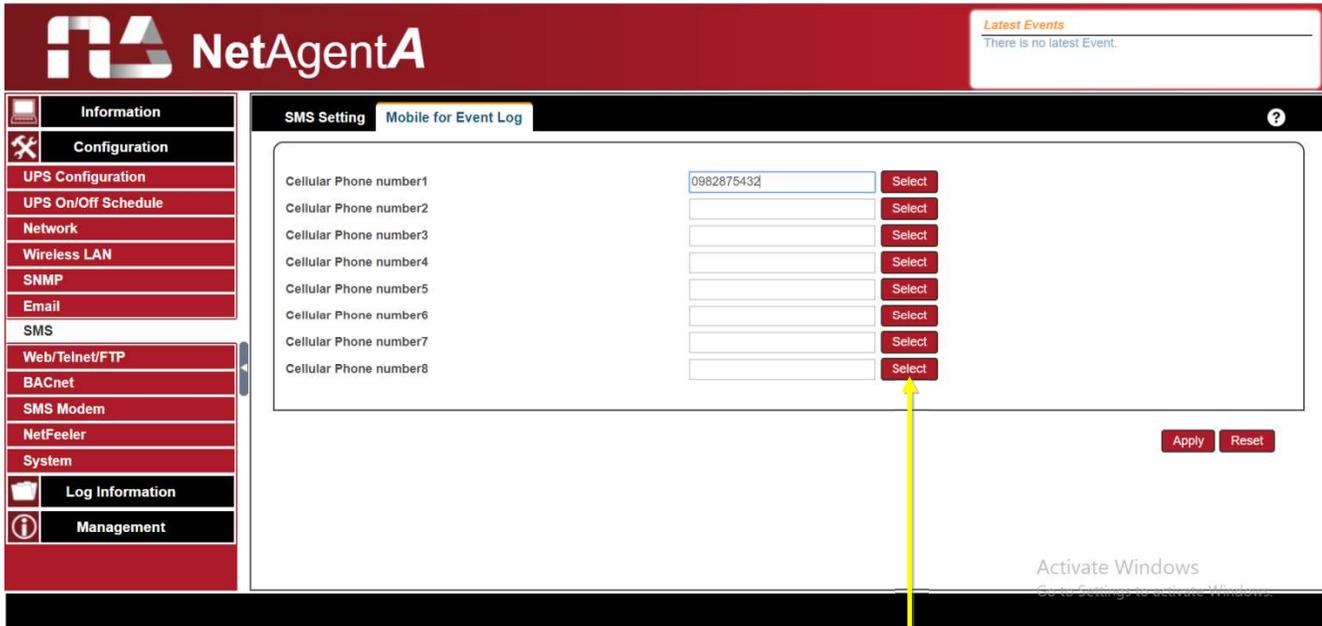
Sending test SMS :

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

The screenshot displays the NetAgentA web interface. At the top, there is a red header with the NetAgentA logo and a 'Latest Events' section indicating 'There is no latest Event.' Below the header is a navigation menu with categories: Information, Configuration, Log Information, and Management. The Configuration section is expanded, showing sub-items like UPS Configuration, Network, Wireless LAN, SNMP, Email, SMS, Web/Telnet/FTP, BACnet, SMS Modem, NetFeeler, and System. The 'SMS Modem' sub-item is selected, leading to the 'SMS Setting' page. This page has two tabs: 'SMS Setting' and 'Mobile for Event Log'. The 'SMS Setting' tab is active, showing a form with the following fields: 'Send SMS When Event Occurs' (set to 'Use Local Modem'), 'SMS Server' (text input), 'SMS Port' (set to '80'), 'Account Name' (text input), 'Password' (text input), and 'Sending test SMS' (text input). There are 'Apply' and 'Reset' buttons at the bottom right of the form. A 'Test SMS' button is located next to the 'Sending test SMS' input field. At the bottom of the page, there is a watermark for 'Activate Windows'.

- **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

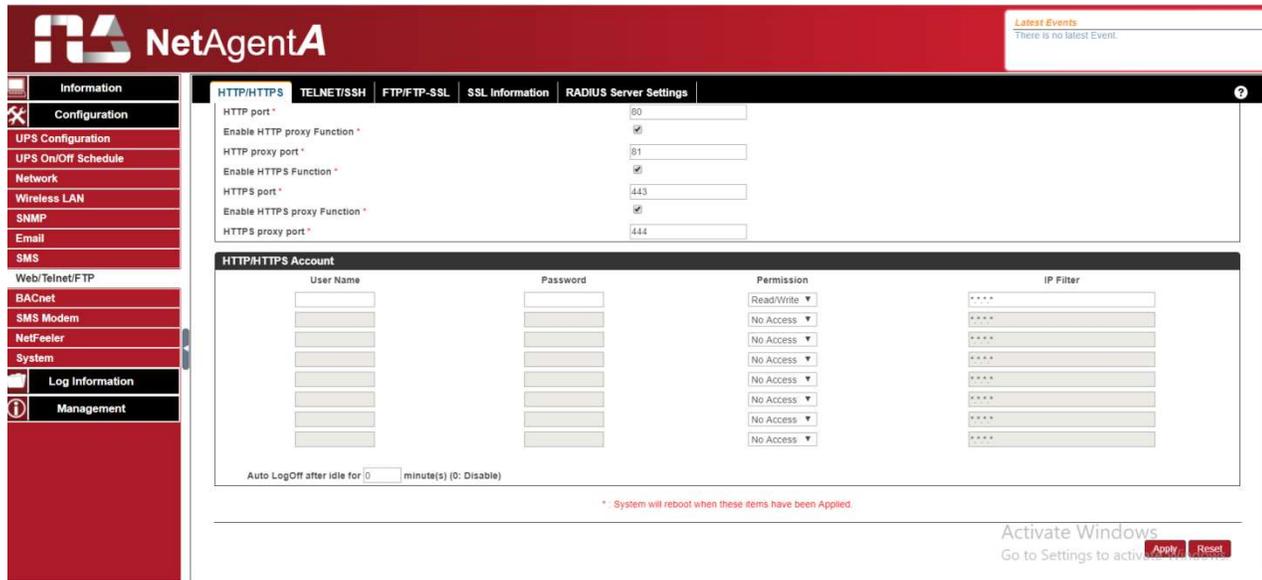
IP Filter :

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

The screenshot shows the NetAgentA configuration interface. The left sidebar contains a navigation menu with categories like Information, Configuration, and Management. The main content area is titled 'TELNET/SSH' and includes sections for 'Management Protocol' and 'TELNET/SSH Account'. Under 'Management Protocol', there are checkboxes for 'Enable TELNET Function' and 'Enable SSH Function', along with input fields for their respective ports (23 and 22). The 'TELNET/SSH Account' section has a checkbox for 'Same as HTTP account/password settings' and a table with columns for 'User Name', 'Password', 'Permission', and 'IP Filter'. Each row in the table has input fields for these values. At the bottom right, there are 'Apply' and 'Reset' buttons.

- 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

The screenshot shows the NetAgentA configuration interface for 'FTP/FTP-SSL'. The left sidebar is the same as in the previous screenshot. The main content area is titled 'FTP/FTP-SSL' and includes sections for 'Management Protocol' and 'FTP/FTP-SSL Account'. Under 'Management Protocol', there is a dropdown for 'FTP Server Protocol' (set to 'FTP'), checkboxes for 'Enable Anonymous Access' and 'Implicit FTP-SSL', and an input field for 'Server Port' (set to '21'). The 'FTP/FTP-SSL Account' section has a checkbox for 'Same as HTTP account/password settings' and a table with columns for 'User Name', 'Password', and 'Permission'. Each row in the table has input fields for these values. At the bottom right, there are 'Apply' and 'Reset' buttons.

- **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

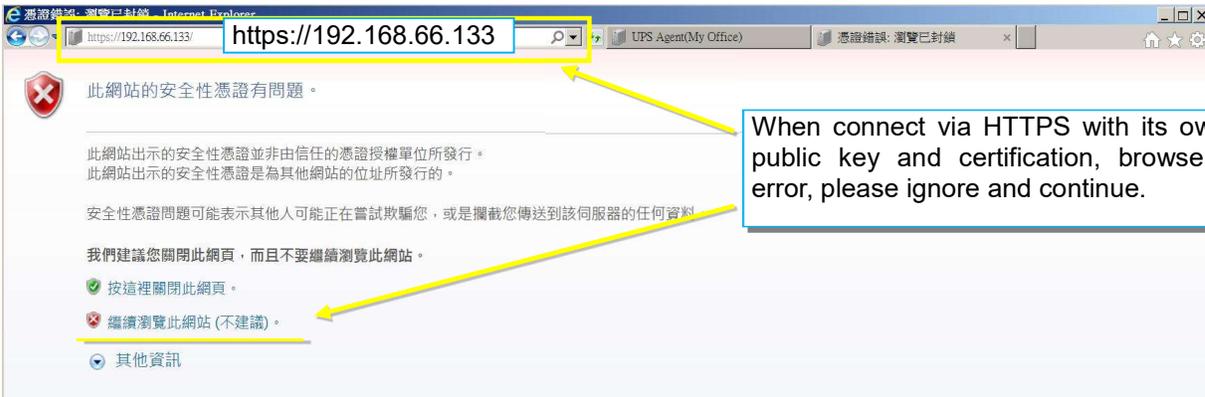
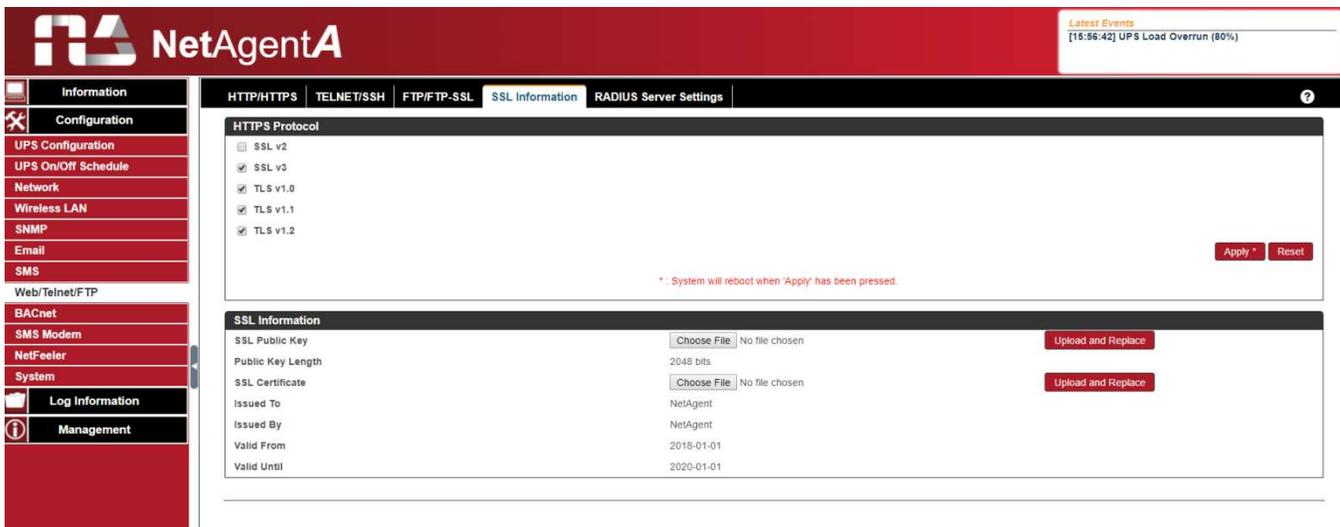
- SSL v2
- SSL v3
- SSL v1.0
- SSL v1.1
- SSL v1.2

☀ 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 :

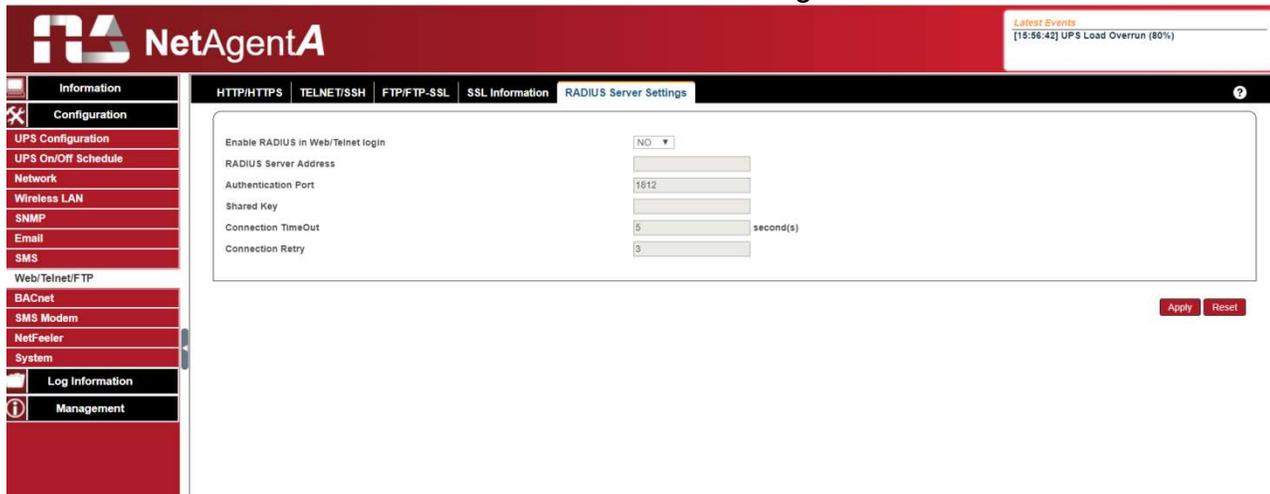
Enter the Shared Key between RADIUS Server and client

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)

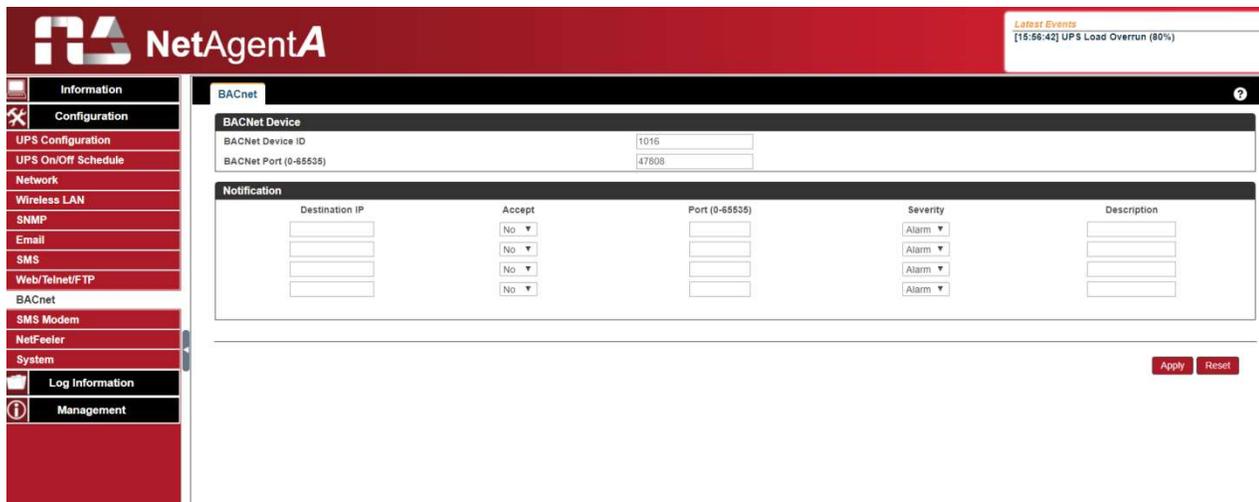
- **BACnet**

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



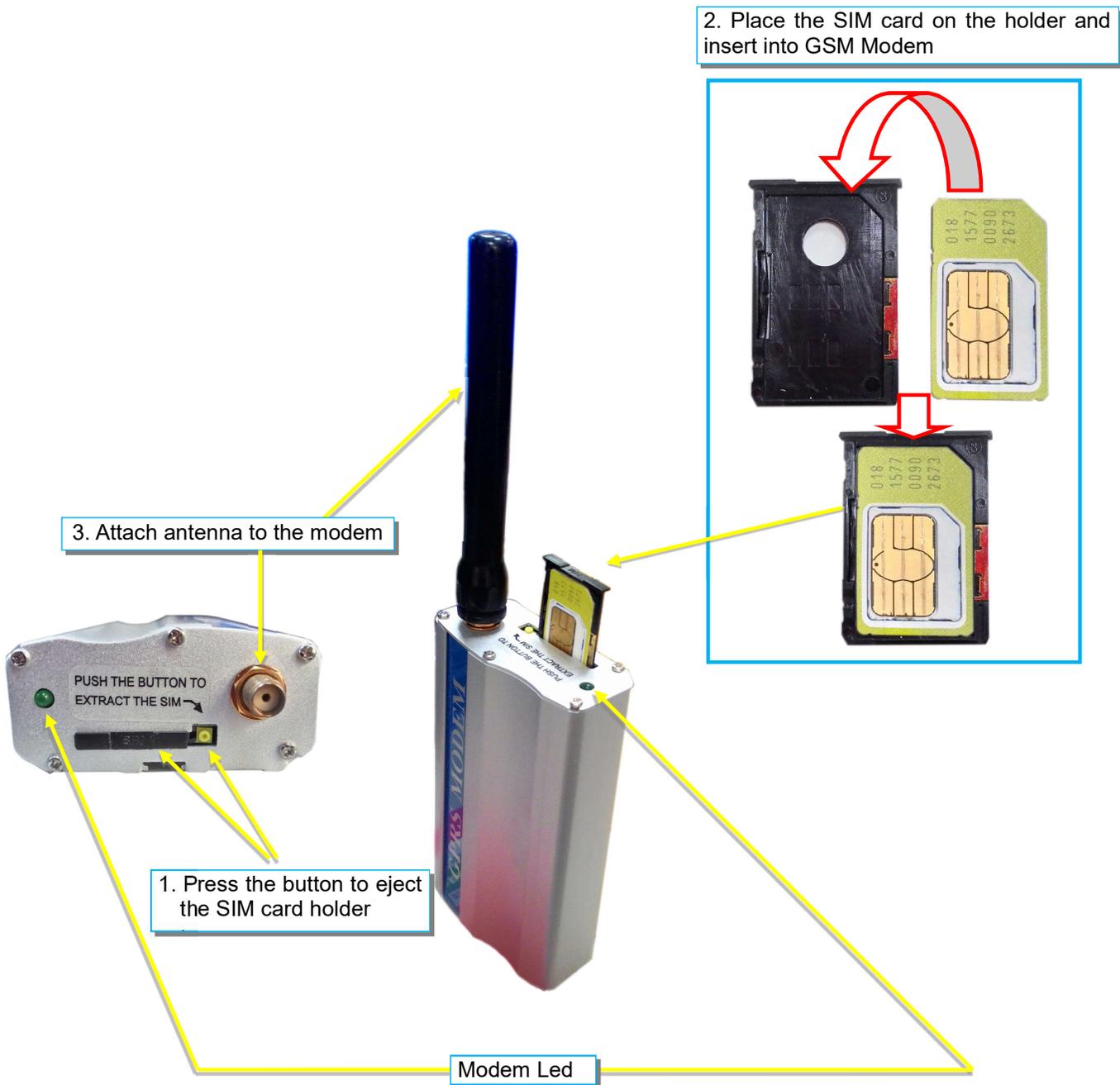
The screenshot shows the NetAgentA web interface. The top header is red with the NetAgentA logo on the left and a 'Latest Events' section on the right showing '[15:56:42] UPS Load Overrun (80%)'. A sidebar menu on the left lists various configuration categories: Information, Configuration (with sub-items like UPS Configuration, Network, BACnet, etc.), Log Information, and Management. The main content area is titled 'BACnet' and contains two sections: 'BACNet Device' and 'Notification'. The 'BACNet Device' section has two input fields: 'BACNet Device ID' (containing '1016') and 'BACNet Port (0-65535)' (containing '47808'). The 'Notification' section is a table with five columns: Destination IP, Accept, Port (0-65535), Severity, and Description. Each row in the table has input fields for these values. The 'Accept' and 'Severity' columns have dropdown menus set to 'No' and 'Alarm' respectively. At the bottom right of the main content area, there are 'Apply' and 'Reset' buttons.

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"/>

■ Configuration > SMS Modem

When compatible GPRS modem connects with NetAgentA , 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

- **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 :

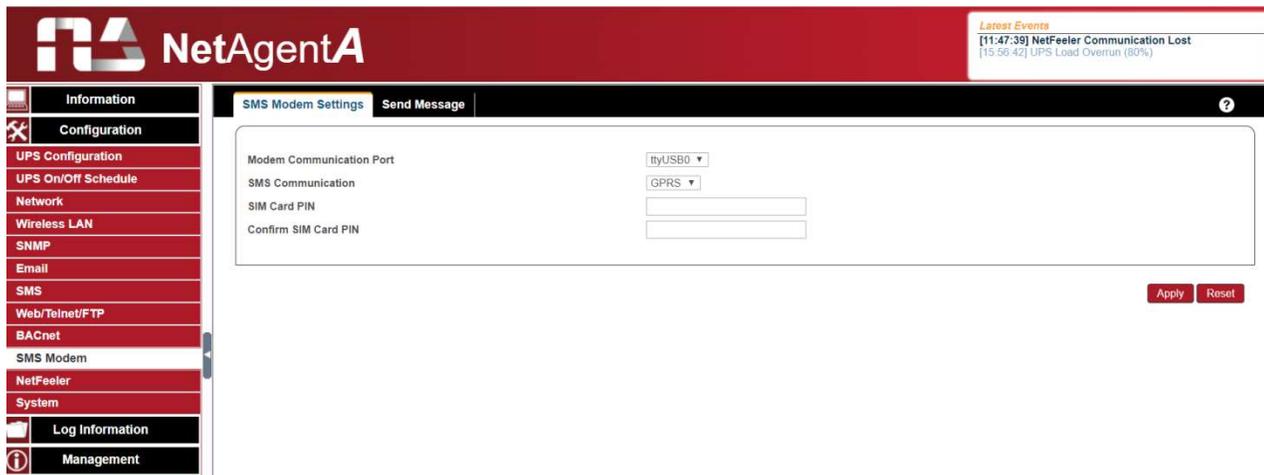
If PIN is required for the SIM card, please enter

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 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.

NetFeeler		Critical UnderRun	Critical OverRun
Humidity (%)		5	90
Temperature (°C)		5.0	70.0

Security Label	
Label 1	Security1 Status
Label 2	Security2 Status
Label 3	Security3 Status
Label 4	Security4 Status
Label 5	Security5 Status
Label 6	Security6 Status
Label 7	Security7 Status

■ 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

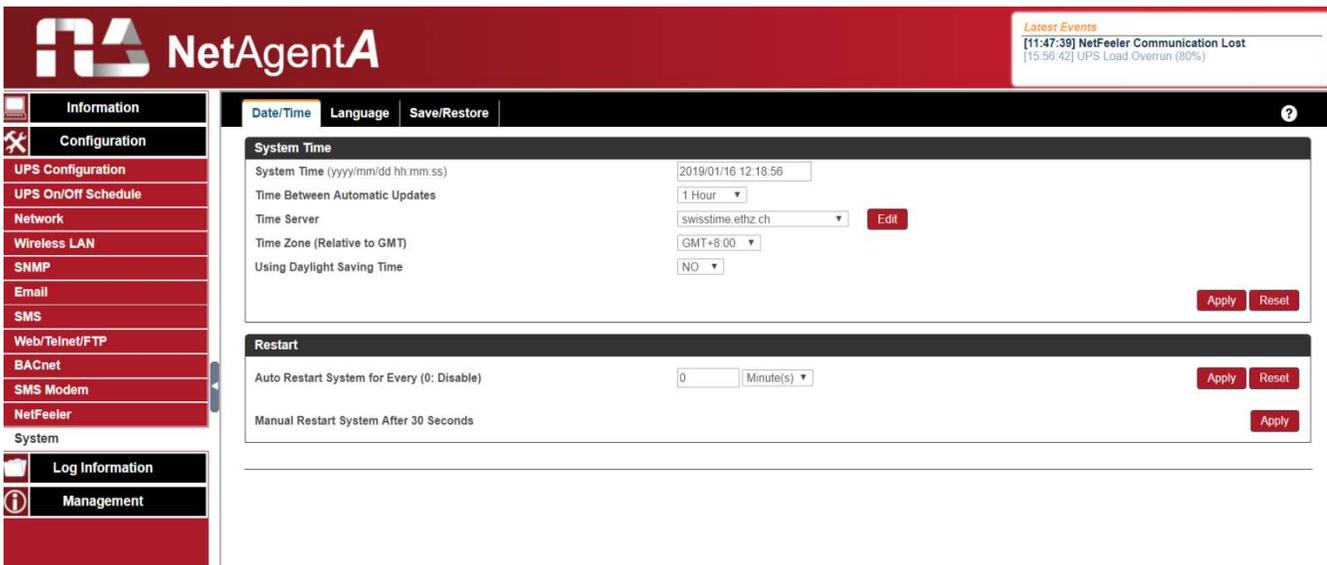
Restart

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



- **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.

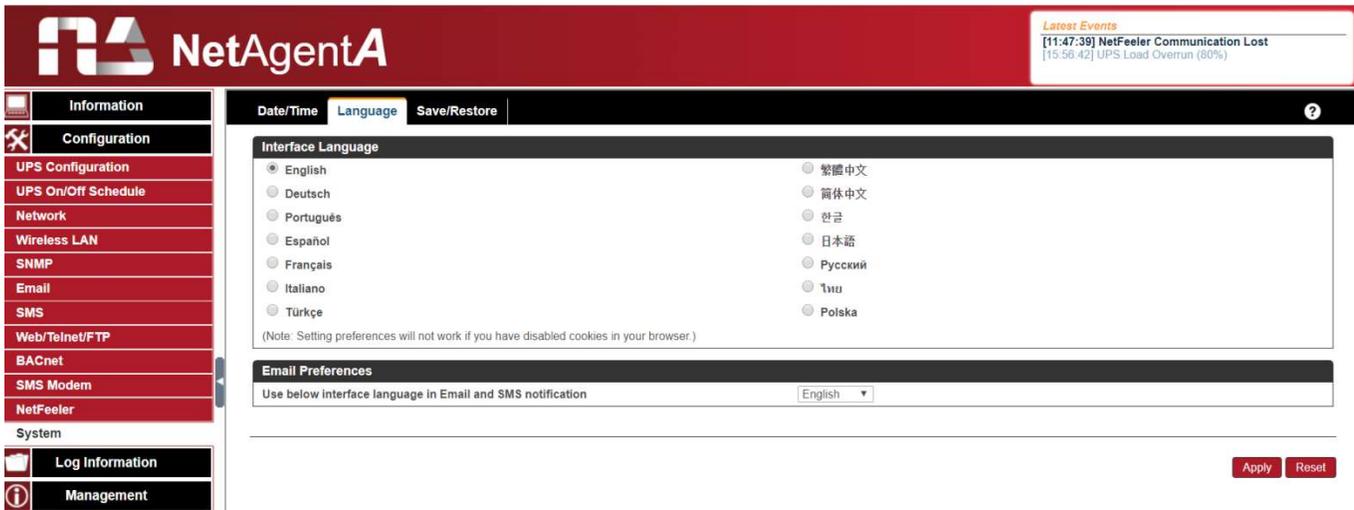
Email Preference

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

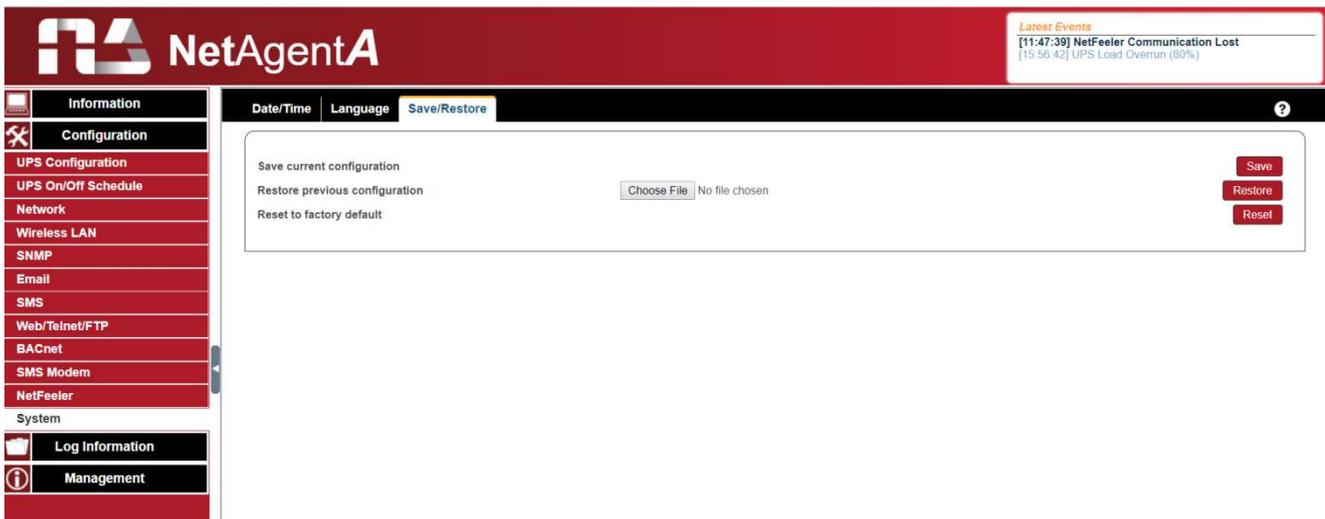
Click on Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####.cfg. Administrator permission required.

- 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

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.
- [09:16:33]: 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

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 .

- Information
- Configuration
- Log Information
- Event Log
- SMS Log
- Data Log
- Battery Test Log
- Management

SMS Log

Date/Time	Mobile Number	SMS Content

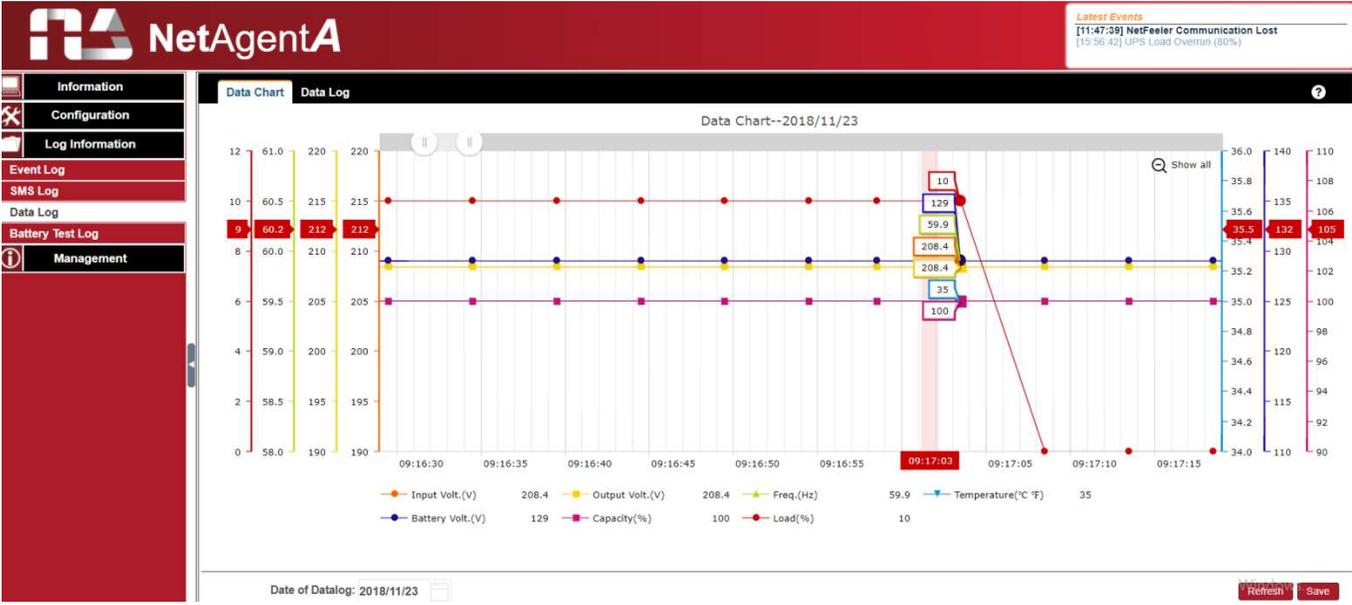
Date of SMS: NONE

Activate Windows
 Save | Clear | 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.

- Information
- Configuration
- Log Information
- Event Log
- SMS Log
- Data Log
- Battery Test Log
- Management

Data Chart Data 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	2.28	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

Date of Datalog: 2018/11/28 Refresh Save

■ 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.

- Information
- Configuration
- Log Information
- Event Log
- SMS Log
- Data Log
- Battery Test Log
- Management

Battery Test Log

Battery Testing

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

■ 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)

The screenshot shows the NetAgentA web interface. The top header features the NetAgentA logo and a 'Latest Events' section with the following text: [00:00:50] UPS communication has been lost. [00:00:24] Server address can not be resolved.

The main content area is titled 'NetAgent Web' and displays a table of devices. The table has five columns: Device, MAC Address, Hardware, Firmware, and IP Address. The data is as follows:

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

■ 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

The screenshot shows the NetAgentA web interface with the 'File Manager' section active. The top header features the NetAgentA logo and a 'Latest Events' section with the following text: [08:03:51] Connection with time server failed. [10:49:51] Connection with time server failed. [08:49:03] Connection with time server failed.

The main content area displays a file tree structure under 'root'. The tree shows a 'log' directory containing 'batterylog', 'datalog', 'eventlog', and 'smslog'. The 'datalog' directory is expanded, showing 'datalog_20190111.dat', 'eventlog_200001.dat', and 'eventlog_201901.dat'. The 'datalog_20190111.dat' file is selected, and its details are shown in a table below:

Type	Name	Size	Modified Time
	datalog_20190111.dat	6220808	2019/01/11 02:01:16

Below the table, the text 'total 1 files,0 directories.' is displayed.

■ Management > Serial Port Debug

It shows the communication status between NetAgentA and UPS by Sent and Received columns.

- Debug Information**

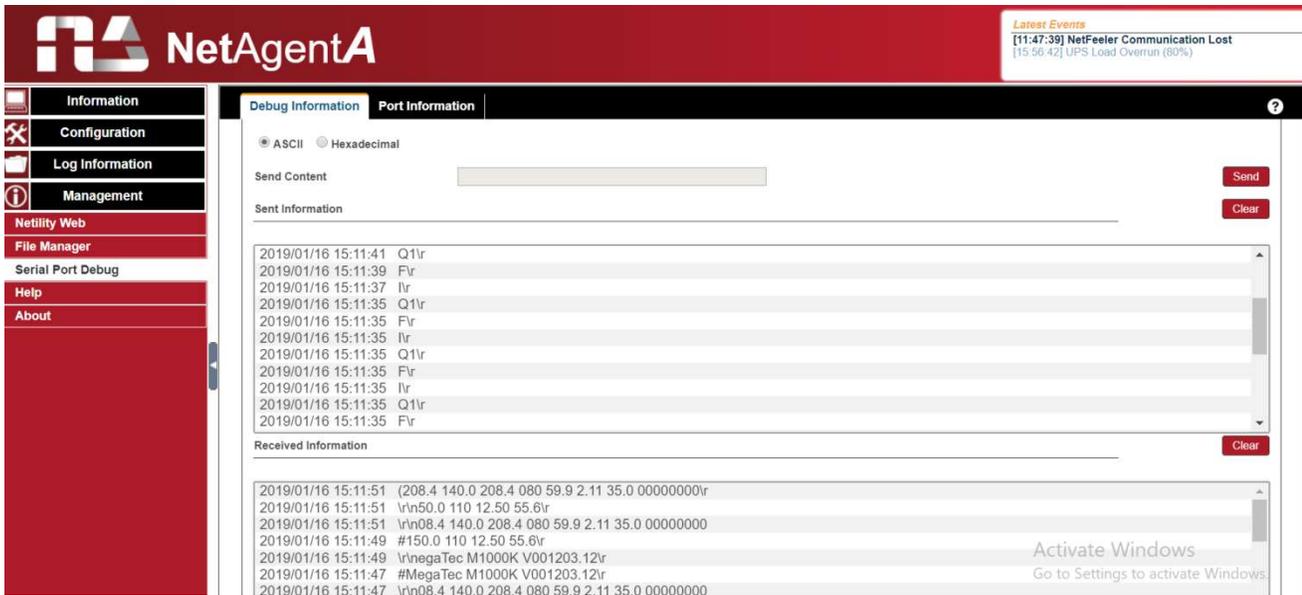
Command can send automatically by NetAgentA, or manually enter the command to UPS.

Sent Information

This column shows the real time sent command

Received Information

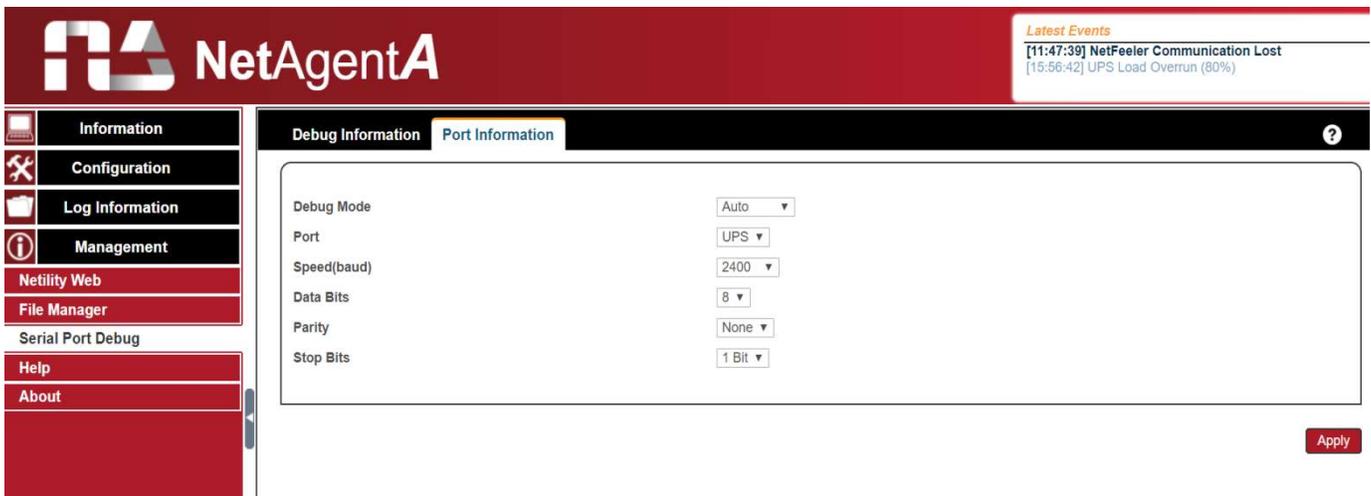
This display the response that NetAgentA receives from UPS



- Port Information**

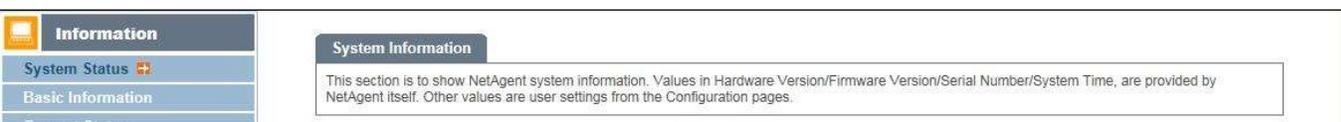
This is to configure the communication parameter between NetAgentA and UPS. Parameters are Debug Mode; Port; Speed (Baud), Data Bits;Parity and Stop Bits.

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.

The screenshot shows the NetAgentA web interface. The top header features the NetAgentA logo and a 'Latest Events' box with the following text: [11:47:39] NetFeeler Communication Lost [15:56:42] UPS Load Overrun (80%). The left sidebar contains a navigation menu with 'Management' selected. The main content area is titled 'About' and displays the following information:

Firmware Version	3.6.CA506
Hardware Version	HCA506
Serial Number	3927206593

At the bottom right of the main content area, there is contact information for Mega System Technologies, Inc. and a logo with the text 'R6 READY'.

• 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.

The screenshot shows the 'Firmware Update Settings' page in the NetAgentA web interface. The top header and sidebar are identical to the previous screenshot. The main content area contains the following settings:

- FTP Server:
- User:
- Password:
- Auto Update: Every At (Hour : Minute)

Buttons for 'Update Now >>' and 'Apply' are visible next to the FTP settings. A 'Firmware Update' button is located at the bottom right. A yellow arrow points to the 'NO' dropdown menu in the 'Auto Update' section.

To enable NetAgentA'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 know the directory path

Software Downloads

- Technical Support & FAQ
- Online Ordering
- Shipment Tracking

Please contact the [WebMaster](#) if you find any problems with the download page. This page is best viewed on 1024x768.

NetAgent 9

NetAgent Firmware download procedure:

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

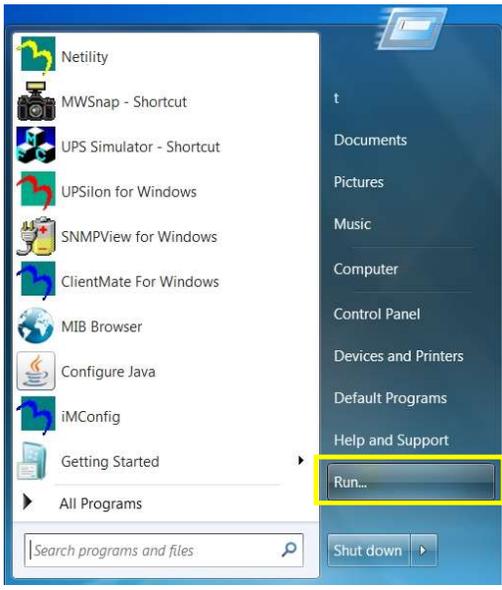
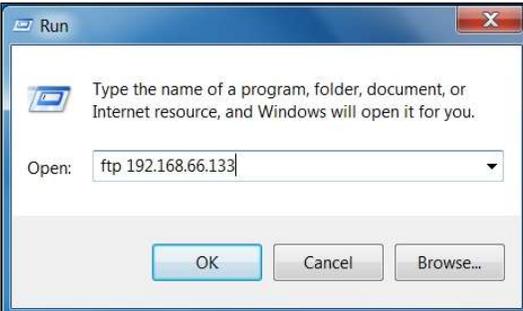
★ Please download the Firmware corresponding to your Model Type from the table below.

Model	NEW Firmware name	File	Date
DY520	3.5.DY520.a.zip	23rd	December, 2016
DL520	3.5.DL520.zip	23rd	December, 2016
CY504	3.5.CY504.zip	23rd	December, 2016
BY506	3.5.BY506.zip	23rd	December, 2016
DX520	3.5.DX520.zip		
CX504	3.5.CX504.zip		
BX506	3.5.BX506.zip		

Warning: BX unit with 3.1 BX506 MUST




Execute ftp + NetAgent's IP address

- FTP login

```

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

1. Enter username/password that configured on Netility
2. Enter command ls to show available firmware bin file
3. Enter put command with bin file directory
4. Once complete, enter command quit

