SNMP-CY54-04 SNMP Card

User's Manual

This manual mirrors the structure and layout of the SNMP card's web interface.

The '*' symbol highlights sections that are essential or likely to be of interest.

Table of Contents

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Introduction

A Simple Network Management Protocol (SNMP) card is an important addition to your battery backup system (BBS). It provides essential monitoring of the incoming power and status of the BBS by simply accessing the card's interface through a web browser or by its notifications.

Features

Real-time incoming power status
Real-time BBS status
Notifications about power and BBS events
Automatic Event and Data logging
Automatically emailing of Daily Reports
Management and Configuration using any web browser
Save and Restore card configurations
Built-In firmware updater
Supports the SNMP MIB Protocol for monitoring and control

Supported Protocols

TCP/IP, IPv4, IPv6, Ethernet, SMTP, HTTP, HTTPS, Telnet/SSH, FTP, FTP-SSL, Modbus TCP/IP, Dynamic DNS, PPPoE, SSL v2/v3, TLSv1.0/v1.1/v1.2/v1.3, and RADIUS Server

Supported Simple Network Management Protocols:

PPC MIB, RFC1628, SNMPv1, SNMPv2, and SNMPv3

Free Downloadable software from our website

All communication software from Marathon Power is available for free and is downloadable from our website at https://marathon-power.com/ups-communication-and-control and by contacting Marathon Power at support@marathon-power.com

Netility is MegaTec's configuration software. It searches for all the available MegaTec SNMP cards on your local area network. It also allows you to configure some of the card's settings and upgrade its firmware.

UPSMON Manager is NMS software used to monitor and control multiple cards. With UPSMON Manager, you can view each BBS's location ID, output status, battery capacity, AC status, battery status, and other parameters available from your BBS in one window, perform self-tests, send history files, and more.

ClientMate is software for shutting down PCs and servers. When ClientMate is installed on a computer or server, it can receive AC Failure, battery low, or shutdown signals from the card. Configurable to trigger the saving of files and shutting down of the system, avoiding system crashes and data loss.

SMS Server software allows a MegaTec card to communicate with an SMS Server. Please get in touch with Marathon Power at support@marathon-power.com for the latest version of this software.

NOTE: Some of our posted software is compressed using the rar format. 7-zip is a free program for opening rar files. It is available at https://www.7-zip.org/download.html

After installing 7-zip, you are given options for using the program; choose File Manager. Then, click on Extract on the upper left-hand side of the Toolbar. Finally, save the extracted exe file to your preferred location.

SNMP Card Installation*

To learn how to install the SNMP card, please watch our one-minute YouTube video posted on our website at [SNMP Web Card Installation — Marathon Power Inc. (marathon-power.com)]

Card LED Lights*

RJ45 Port

Green	
On	Flashing
100 Mbps	Sending / Receiving Data

Yellow	
On	Flashing
10 Mbps	Sending / Receiving Data

LED Status

Status	Power On	Lost Communication	Writing Firmware
Yellow The card 9 Status	On	On	Off
Red UPS Communication	Off	Flashing	Flashing
Green Power	On	On	On

NOTE: When loading firmware, the red LED alternating flashes, DO NOT remove the card from the UPS.

Figure 1

Eight Steps to Quickly Configure the SNMP Card*

1. Connecting to the SNMP card*

The **SNMP-CY54-04** has a static IP address of **192.168.1.51** Subnet Mask: **255.255.255.0** Default Gateway: **192.168.1.1**

The best way to connect to the card is by using an ethernet cable between your computer and the card. You may need to change your computer's IP address to 192.168.1.2 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.1.1

After making the connections above, open any web browser and enter 192.168.1.51 into the address bar. When asked, enter the username, **admin** and password, **user**

If your computer does not have an ethernet port, you can use a simple Wi-Fi router between your computer and the card. First, wirelessly connect your computer to the router using Wi-Fi, and then make a wired connection between the router and the card with an ethernet cable.

You will use five submenus: Configuration/Network/IPv4, Configuration/SNMP/General, Configuration/Email/Email Settings, Configuration/System Time, and Help/About.

Note: This manual follows the same structure and layout as the SNMP card's web interface.

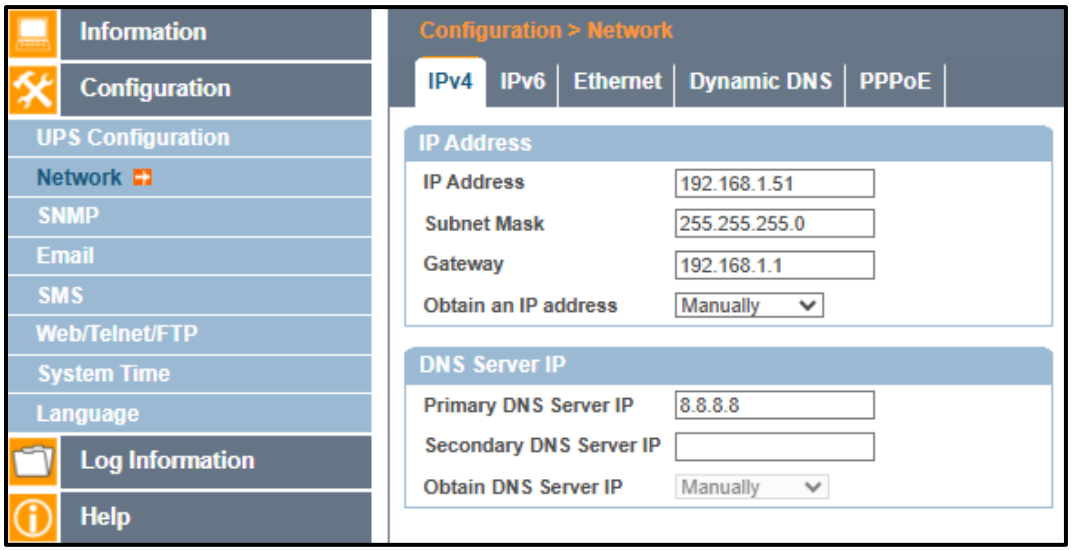


Figure 2

2. Assigning the Card a Unique Name*

Location: Configuration/SNMP/General/MIB System

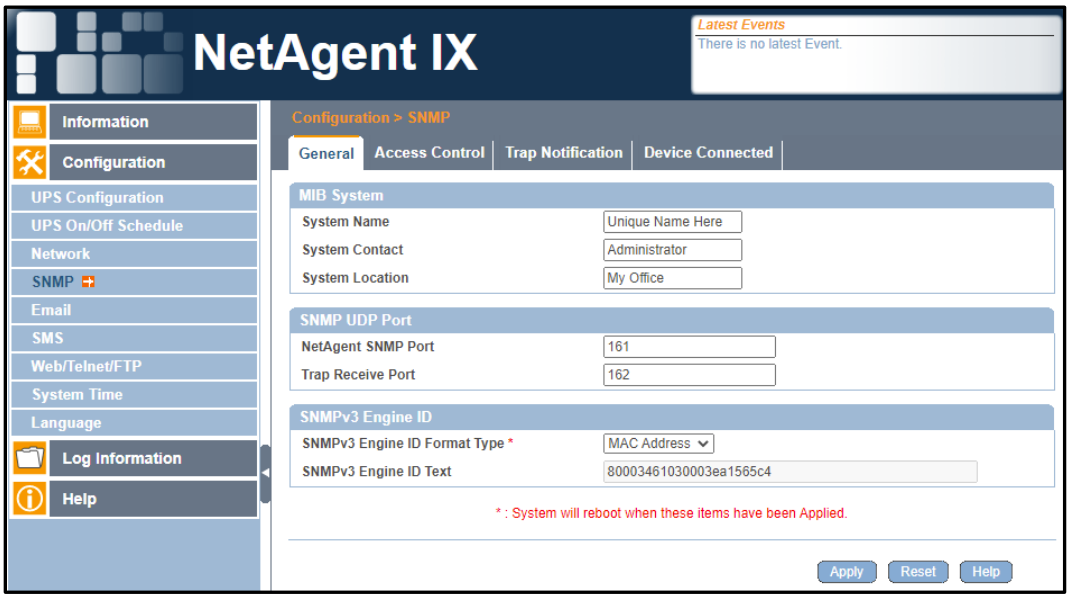


Figure 3

NOTE: Enter a unique ID/Name into the “System Name” field. The “System Name” appears in the subject line of the event notifications emails. The “System Location” only appears in the body of the email.

3. Configuring the Power and BBS Event Notifications*

Location: Configuration/Email/Email Settings

Figure 4

- The SNMP card must have an account to use to send emails.
- Enter the email server and account information of the account.
- You must enter a “Sender’s” email address to send email notifications.

Suggestion:

We recommend using a unique email account/email address only for BBS event emailing instead of a person's email address.

This allows all the card’s notification emails to be managed in an email client (program) like Outlook by writing email forwarding rules, not on each SNMP card. This also avoids the problem of multiple technicians entering their personal email addresses.

4. Entering the email addresses of the people who should receive the notifications*

Location: Configuration/Email/Emailing for Event Log

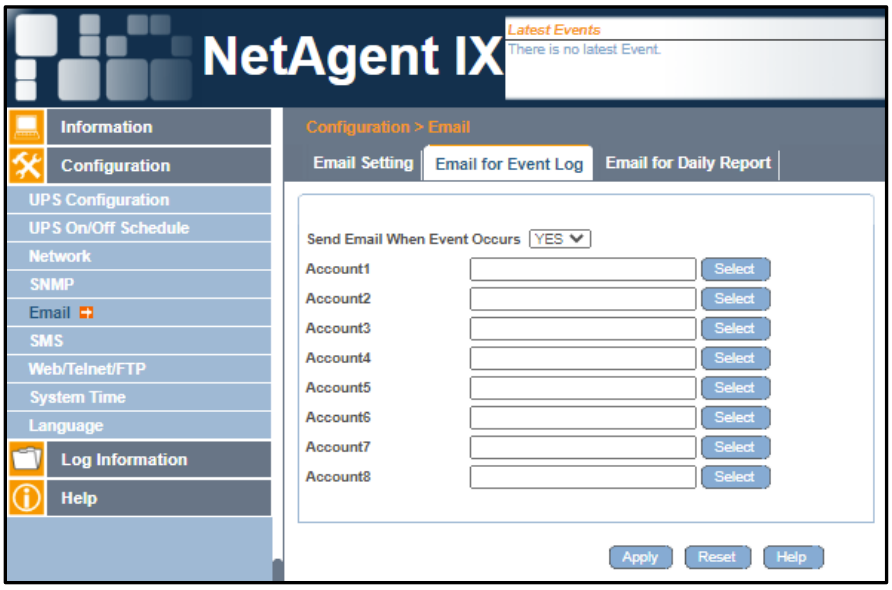


Figure 5

Enter the email addresses of the people you want to receive power and BBS event notifications. The Select button allows you to select which notifications are sent to that person.

Available Event Notifications*

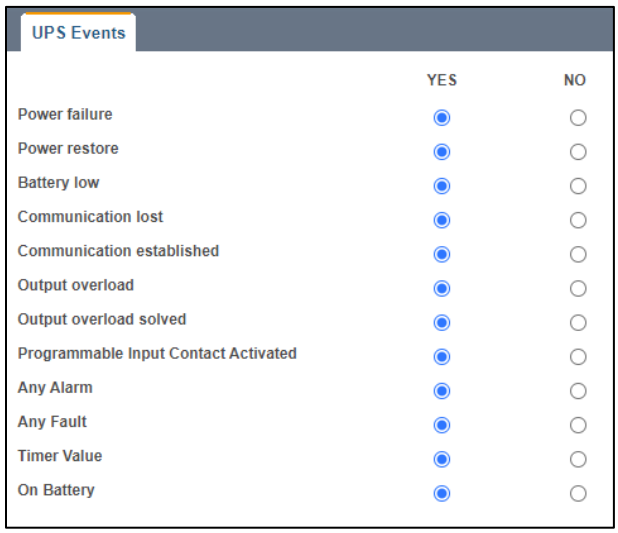


Figure 6

5. Entering the email addresses of the people who should receive the Daily Reports*

Location: Configuration/Email/Email for Event Report

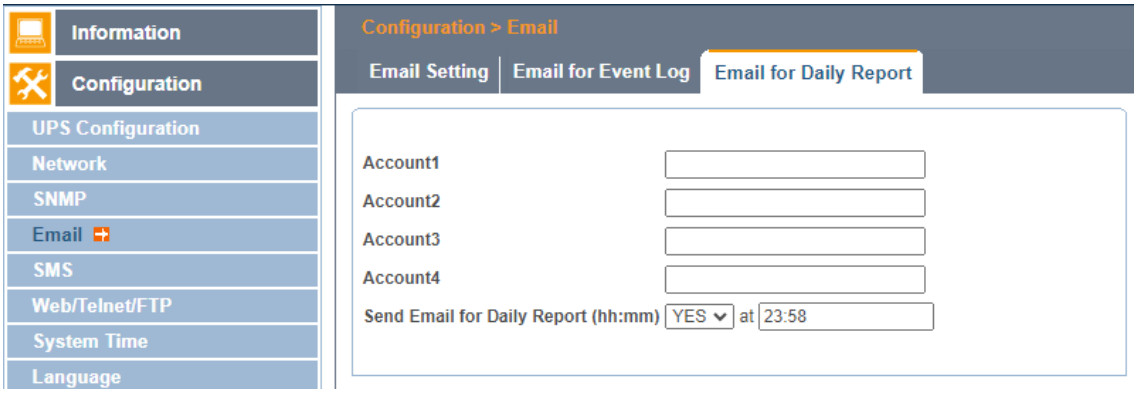


Figure 7

Enter the email addresses of the people needing to receive a daily copy of the event and data logs as a CSV file. The data and event logs are also available for download using the card's UI. We recommend sending the Daily Reports at 23:58.

6. Setting the Card's Time*

Location: Configuration/System Time

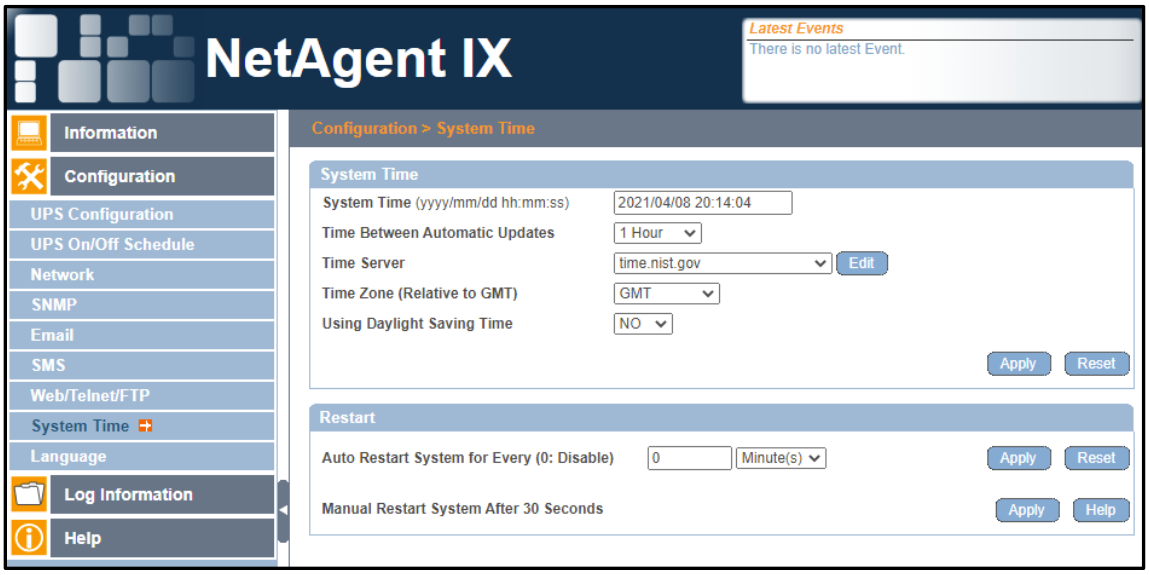


Figure 8

7. Connecting the card to the Local Area Network*

Location: Configuration/Network/IPv4

Figure 9

Enter a unique IP address to connect the SNMP card to the local area network.

Suggestion:

Before changing the card's IP address, consider saving the current configuration as a master configuration 192.168.1.51 file; see step 7 below for more information.

8. Saving and Restoring the Card's Configuration File*

Location: About/Save/Restore Settings

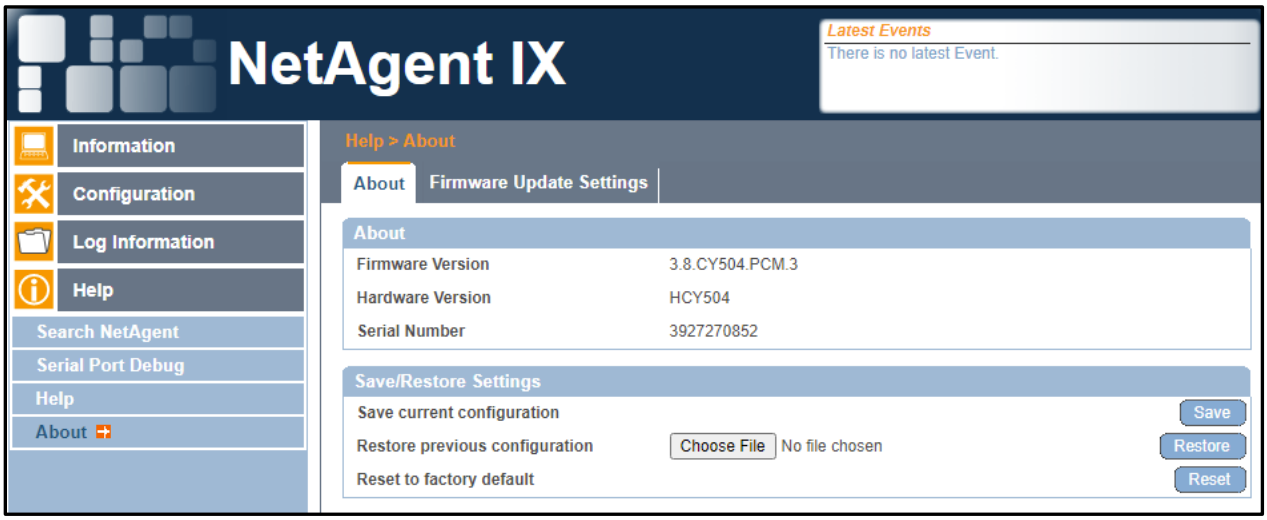


Figure 10

In the section Save Current Configuration, select Save to save the current card's configuration.

But you can also save a master configuration file for "restoring" a configuration on another SNMP card of the same make and model. You must change the "restored" card's IP address and System Name, but the new card is configured faster and easier using a master configuration file. **NOTE:** Two devices on a network cannot have the same IP address. This is why we recommend that you save a master with the card's default IP address 192.168.1.51 255.255.255.0 192.168.1.1

Save/Restore Settings

*Save Current Configuration**

Click on Save to save the configuration to your PC. The text file has a default format of YYYY_MMDD_TIME.cfg.

*Restore the previous configuration**

Click Browse to locate the file you want to restore and click Restore.

Using the Configuration Software Netility*

Netility is MegaTec's configuration software that allows you to configure some of the card's settings and upgrade the card's firmware. It also searches for all the available MegaTec SNMP cards on your local area network.

It is downloadable for free at https://marathon-power.com/ups-communication-and-control.

NOTE:

Each MegaTec card has a label on the underside of each card with its unique serial number / MAC address. These are helpful when using Netility. (The password on the label allows for card recovery if a password is forgotten.)

Figure 11

Netility's User Interface Explained*

The Netility main page is divided into a function section and the Online MegaTec card List.

1. Online MegaTec Card List 2. Function Selection

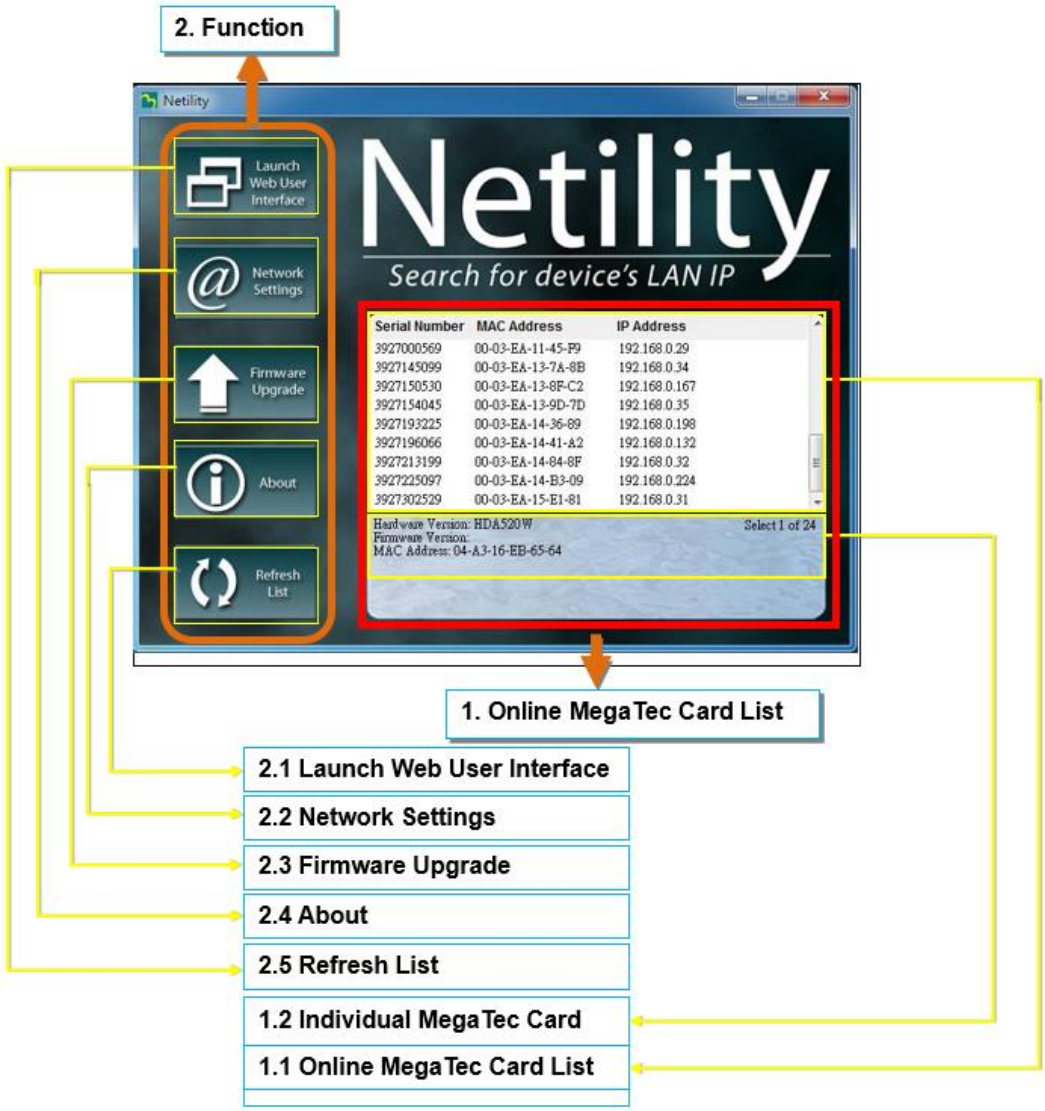


Figure 12

When you open Netility, it automatically searches for all the available MegaTec SNMP cards on its LAN and then displays the card's serial number, IP address, and MAC address. Double-clicking on a single MegaTec card takes you directly to the card's webpage. (The list refreshes automatically every 2 minutes)

Figure 13

Highlighting a specific MegaTec card displays its hardware version, firmware, and MAC address. You can also see the total number of MegaTec cards found by Netility.

Launch Web User Interface

Highlighting a specific MegaTec card in the list and clicking on the Launch Web User Interface button will take you directly to the card's UI in a browser window.

Network Settings Tab*

You can view or configure the card's network settings by highlighting the card and clicking on Network Settings. If a password is enabled, it may be necessary to enter the correct password before making any configuration changes and firmware upgrades.

The **IP Address Tab** allows you to change the card's IP address.

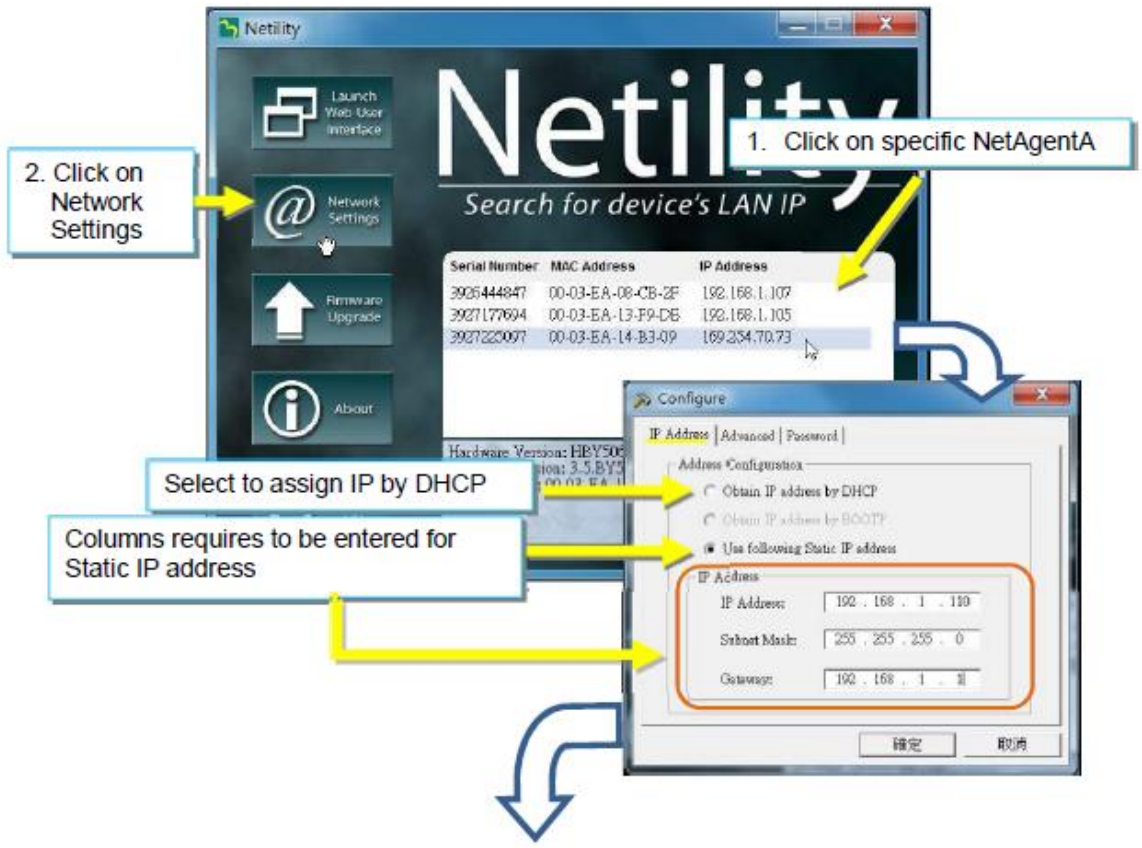


Figure 14

The **Advanced Tab** lets you choose which protocols and ports the card uses.

The **Password Tab** allows you to set a password. If a password is enabled, you must enter the correct password before making password changes.

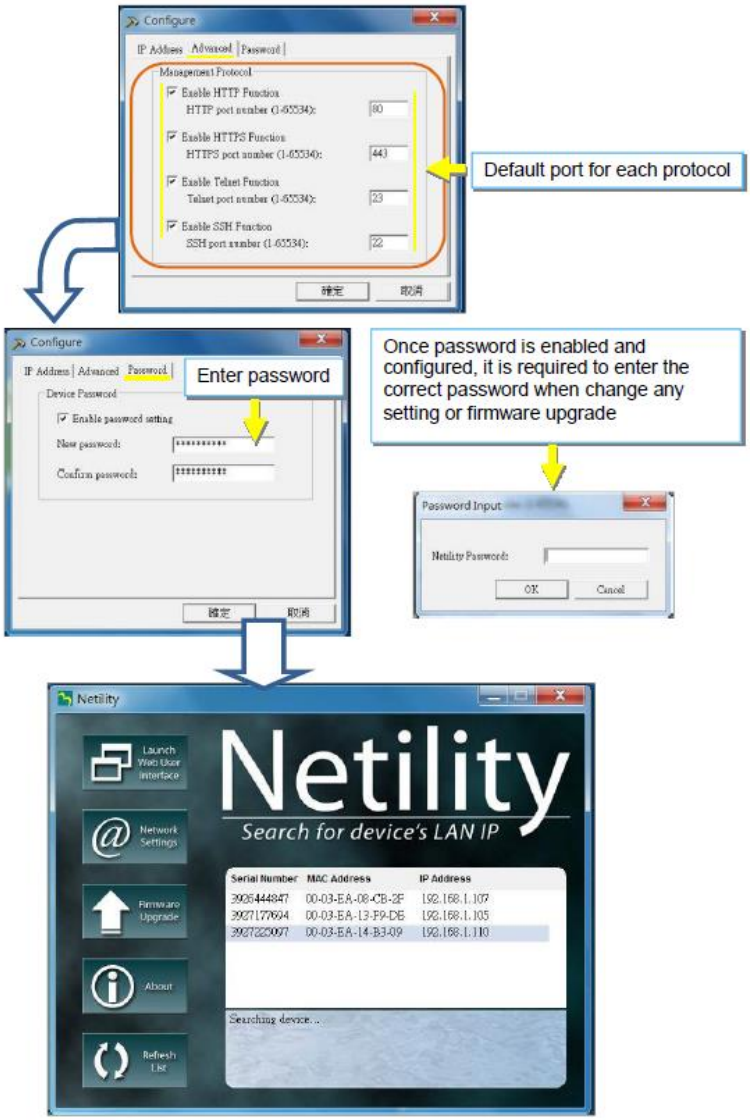


Figure 15

Firmware Upgrade Tab (SNMP Card Firmware Only)*

Warning!

- MegaTec's STANDARD firmware is not fully compatible with our products.
- Using it may result in a loss of functionality of the card and the data that it receives from the BBS.
- Please contact Marathon Power at support@marathon-power.com for firmware compatible with our products or use the card's built-in firmware updater located at Management /About/Firmware Update to update the card's firmware.

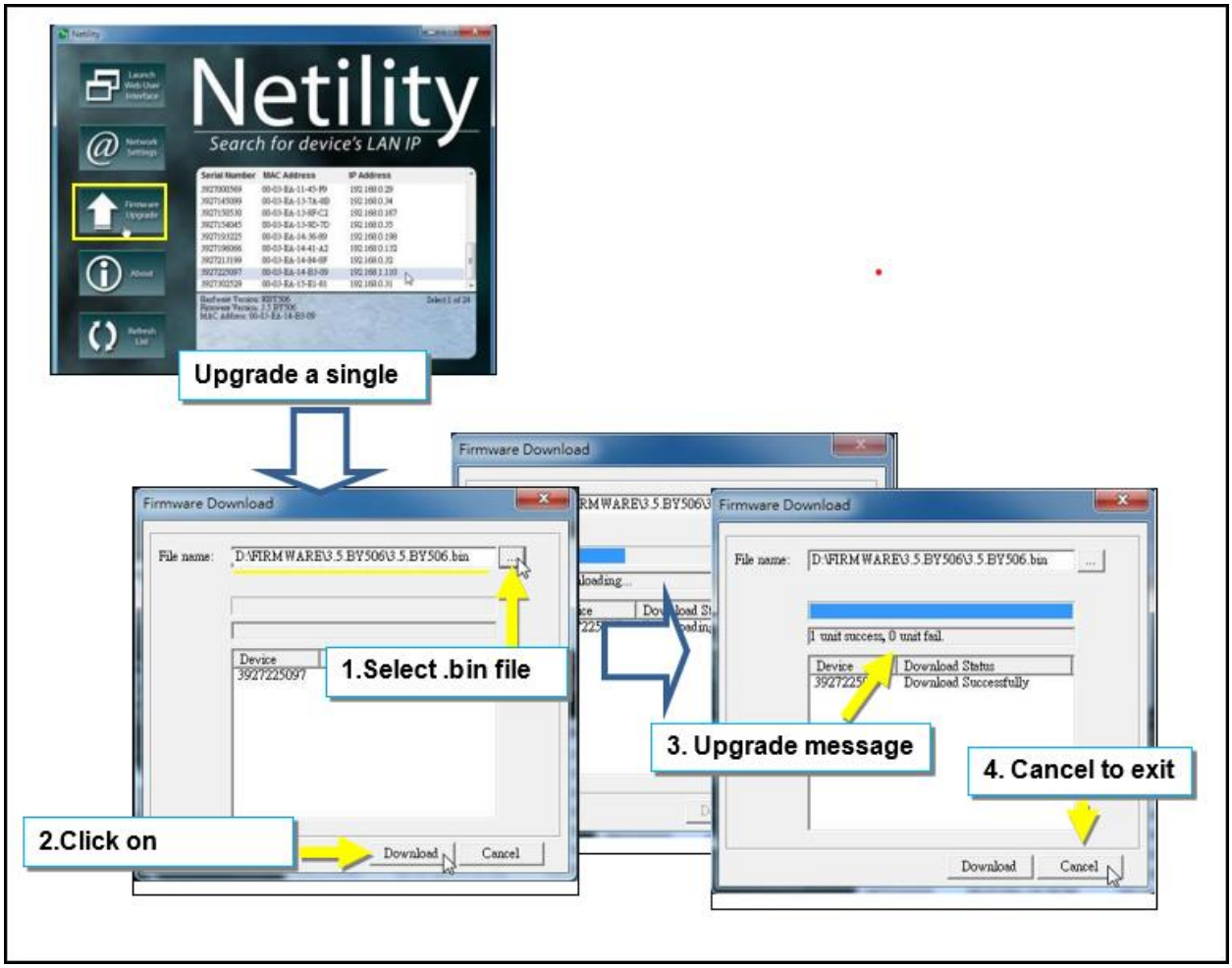


Figure 16

Note: Because of the firmware file size, updating the firmware will take at least five minutes. Once the Netility shows that the update was successful, close the program by clicking the cancel button.

During the firmware upgrade, the red and yellow LED may alternately flash. It's crucial that you DO NOT remove the card from the BBS or disconnect any cables during this time. Your careful attention to this is key to a successful upgrade.

To update the SNMP card's firmware:

- Highlight a specific card from the Netility list, then click Firmware Upgrade on the left-hand side.
- Browse to file the firmware file you will be using. Then click on Download to update the firmware.
- When you see a message that the file downloaded successfully, click the cancel button to exit Netility.

If the firmware updating is unsuccessful, contact Marathon Power at support@marathon-power.com for assistance.

Refresh List Tab

The list on Netility automatically refreshes every 2 minutes. However, you can manually refresh it by clicking "Refresh List."

This manual follows the same structure and layout as the SNMP card’s web interface.

Information Tab

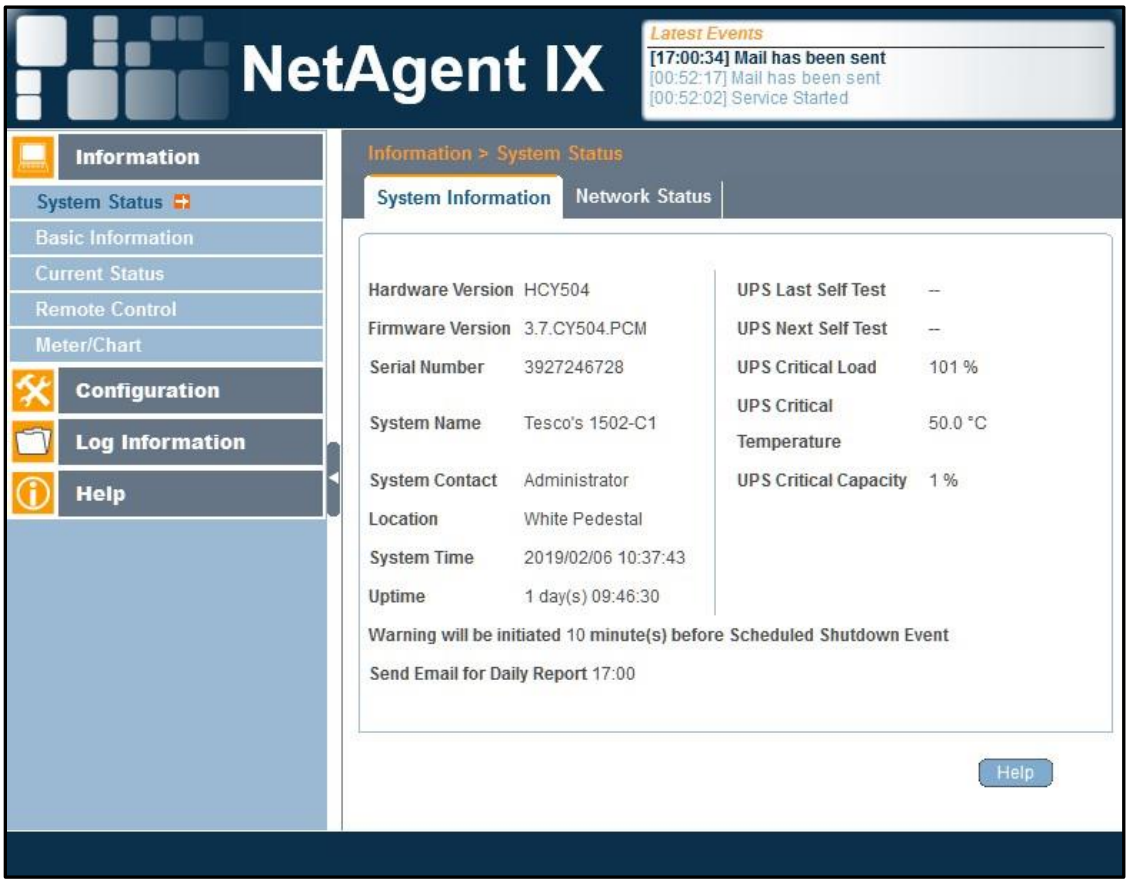


Figure 17

System Status*

System Information*

This tab displays all the necessary information about the card, such as hardware/firmware version, serial number, uptime, etc.

Network Status

This tab summarizes network information and the card's network configuration.

Basic Information*

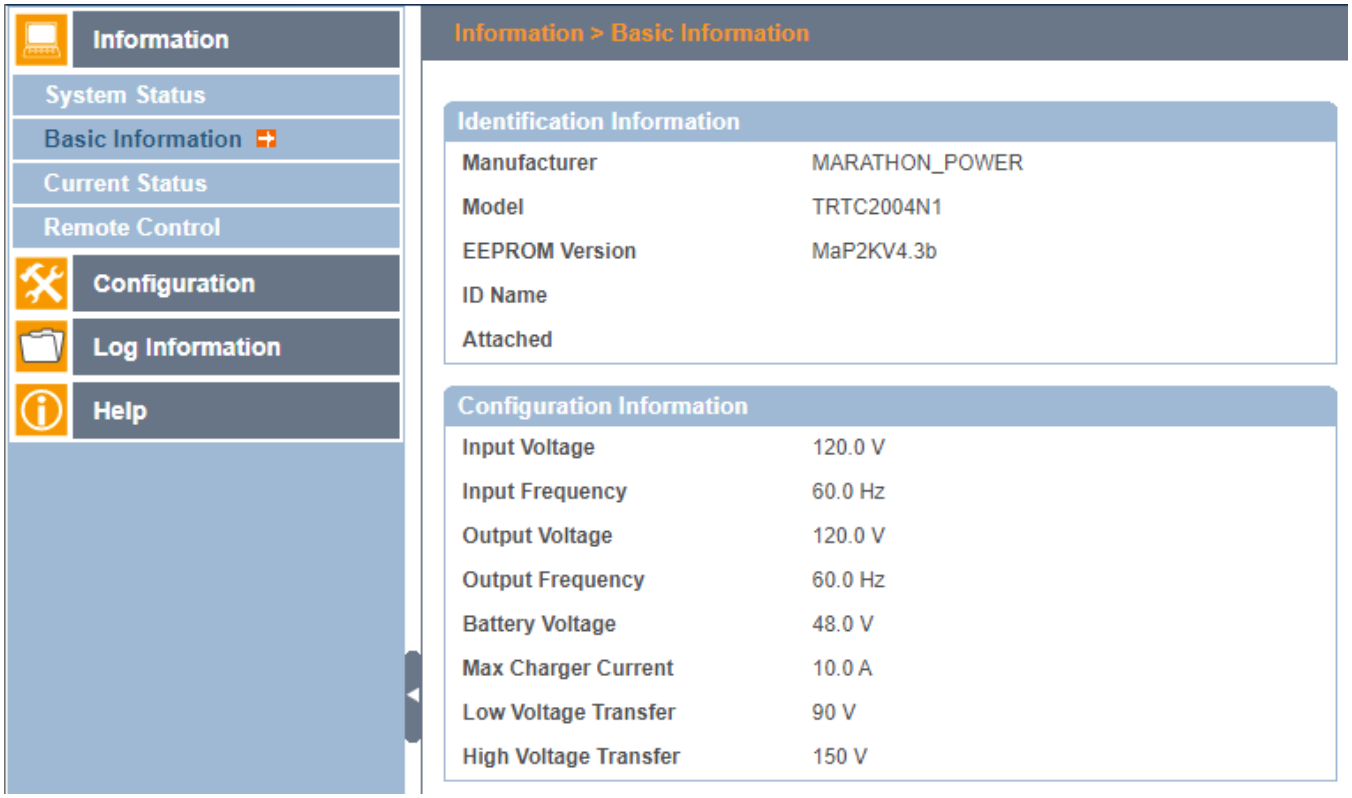


Figure 18

BBS Details*

This section displays the BBS's Model (part number) and firmware version.

Configuration Information

This section displays the BBS's configuration Information.

Current Status*

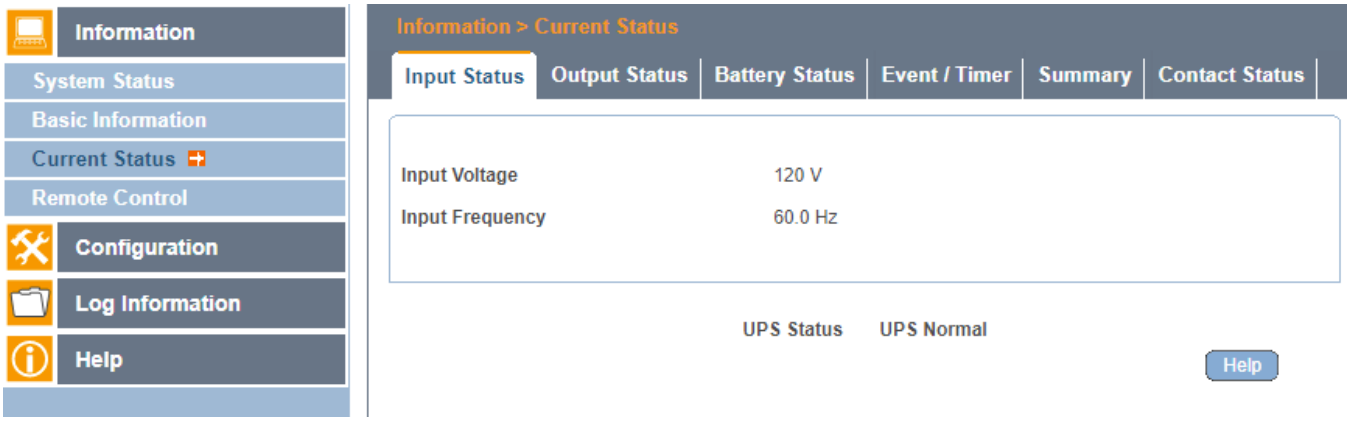


Figure 19

Input Status*

Output Status*

Battery Status*

Event Log and Event Timer*

Summary*

This tab displays a summary of the BBS's status.

Contact Status*

This tab displays the status of the dry contact relays.

Remote Control*

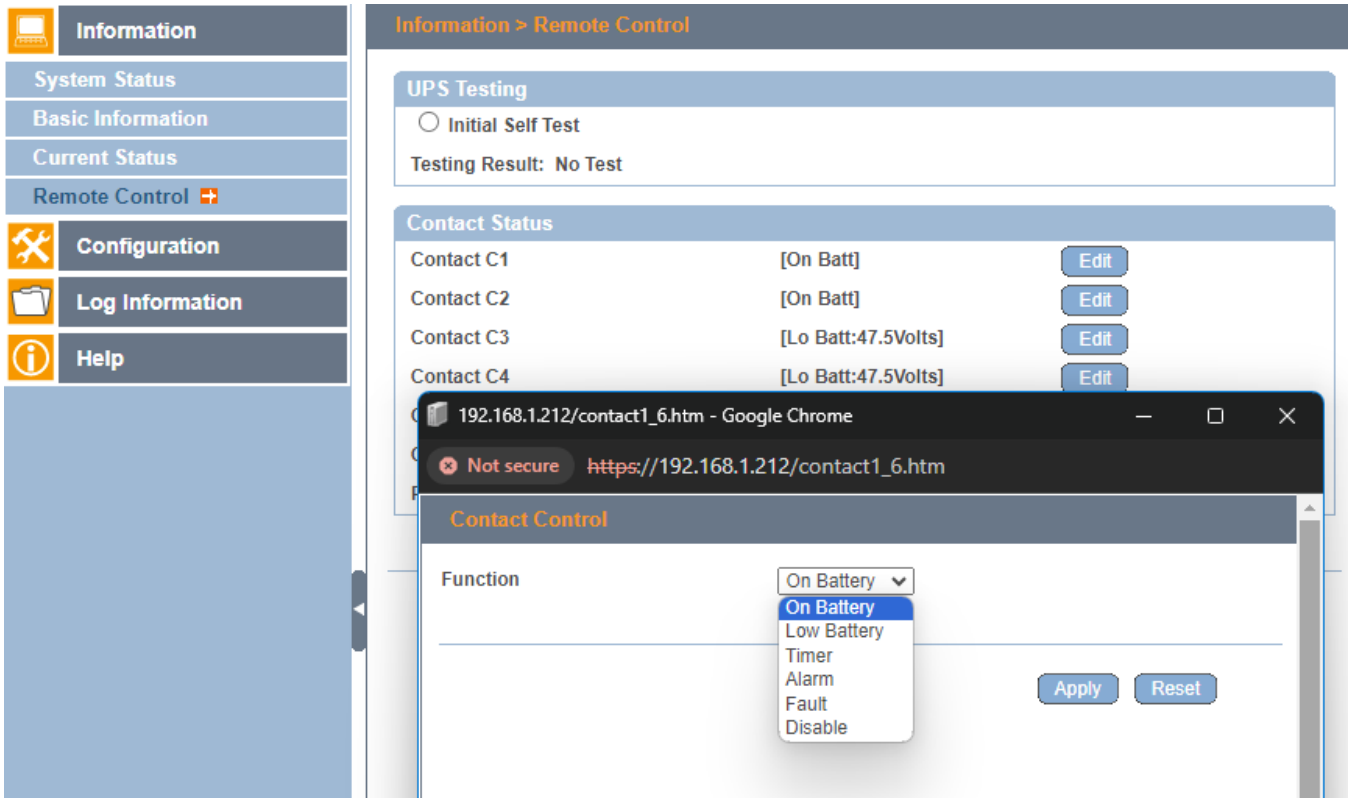


Figure 20

UPS Testing*

This section is where you initiate a self-test of the BBS.

Dry Contact Configuration*

This section is where you configure the dry contact relays. Each dry contact can be configured to change state for an On Battery, a Low Battery, a Timer, an Alarm Condition, a Fault Condition, and can be disabled.

Configuration Tab

UPS Configuration

UPS Properties

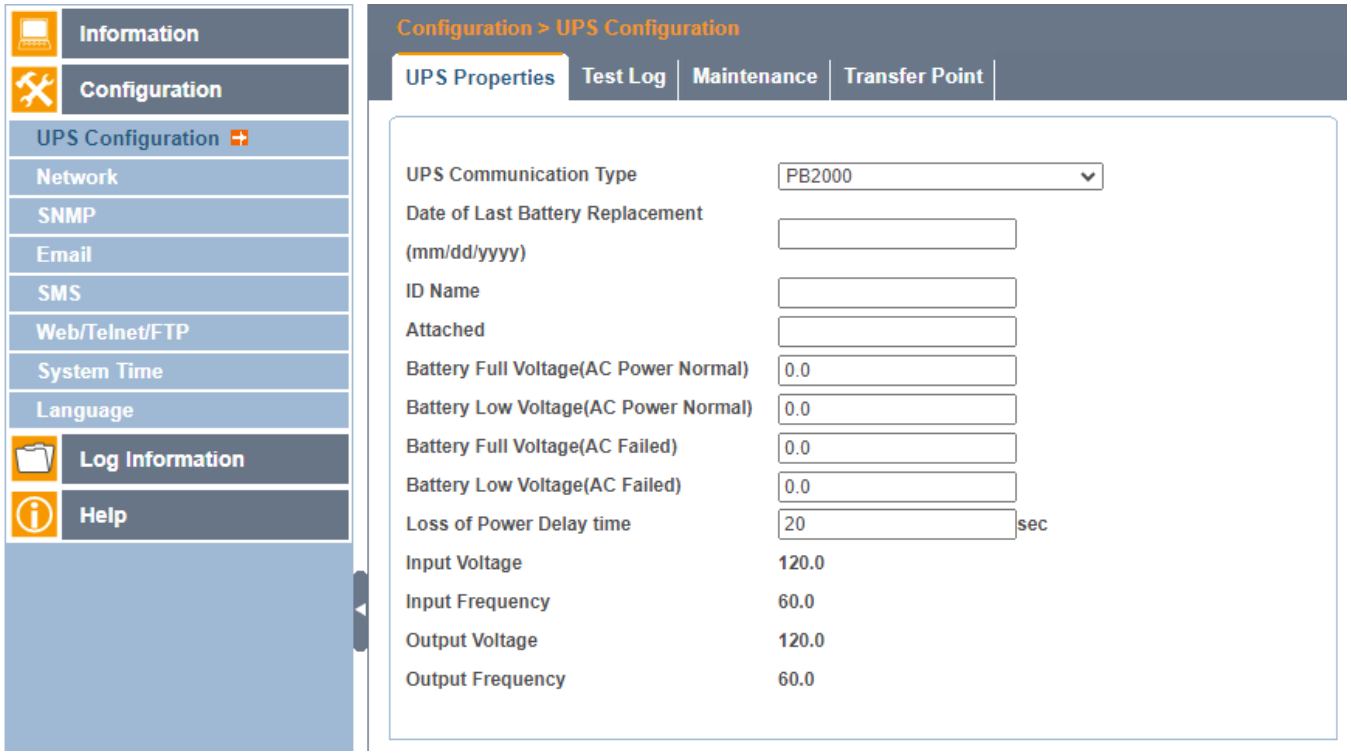


Figure 21

Important! The UPS Communication Type must be set to PB2000.

Converting Battery Voltage into Battery Capacity Shown on the SNMP Card

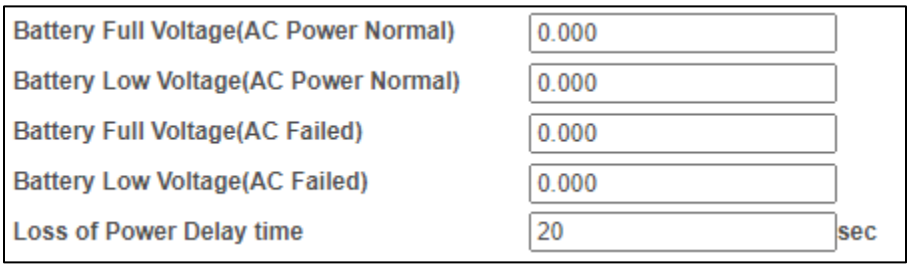


Figure 22

The BBS uses battery voltage to determine when the batteries are low and full. This section allows you to enter site-specific information for the SNMP card to convert the BBS's battery voltage into an approximate capacity shown on the SNMP card.

NOTE: It is important to remember that battery capacity is a chemical reaction and is not linearly proportional to battery voltage.

The following procedure will give you an estimated capacity unique to the site where the measurements were taken based on the site’s batteries, load, and environment at the time.

Battery Full Voltage AC Power Normal) is measured when the BBS has been online long enough to charge the batteries fully and the battery voltage has stabilized. We suggest the BBS be in online mode for at least ten hours. Measure the battery voltage of the entire string of batteries using the two battery voltage test points built into the BBS. The BBS uses this as its battery 100% Point.

Battery Full Voltage (AC Failed) is measured when the BBS has no incoming power and the battery voltage has stabilized in battery mode. We recommend waiting approximately five minutes.

Battery Low Voltage (AC Failed) is the lowest point the battery voltage will reach when the BBS shuts down to prevent damaging the batteries.

Battery Low Voltage (AC Power Normal) occurs after the load shuts down, and the battery's voltage bounces back and stabilizes. The battery voltage bounces back because the batteries are no longer providing the BBS with energy for the load. The BBS uses this as its battery 0% point because this is what the BBS measures when AC power returns to the site and starts charging the batteries.

Please get in touch with Marathon Power at support@marathon-power.com if you need assistance with these settings.

Test Log

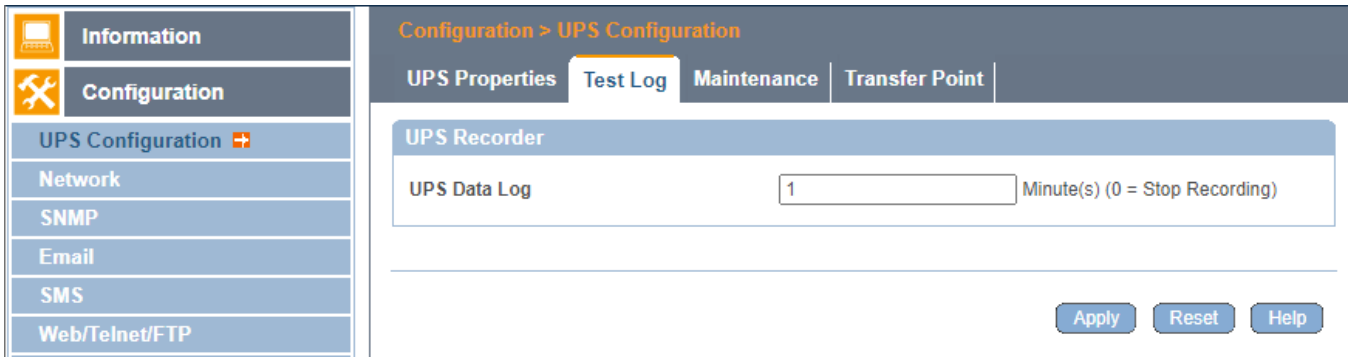


Figure 23

This tab is where you adjust how often the SNMP card retrieves data from the BBS.

Maintenance*

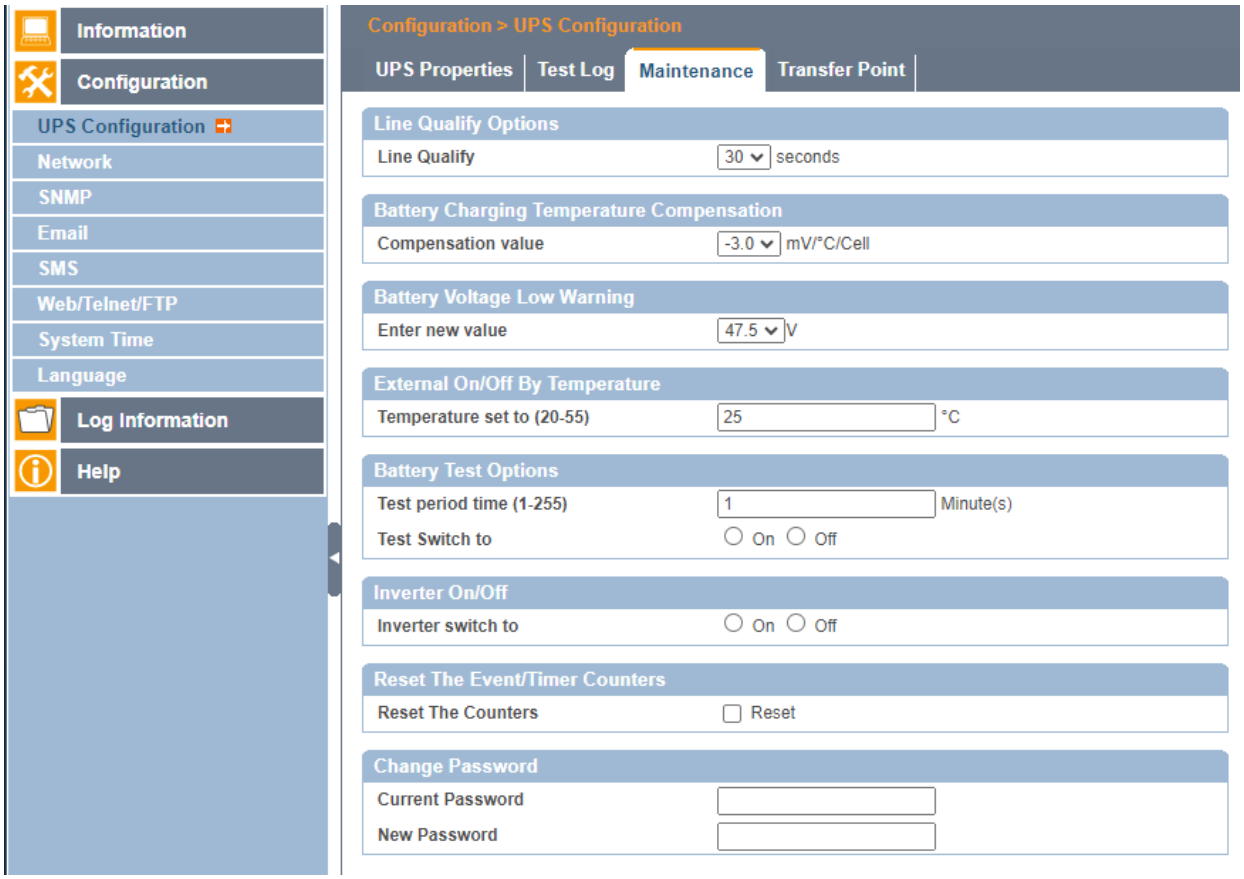


Figure 24

*Line Qualify Options**

*Battery Charging Temperature Compensation**

*Battery Voltage Low Warning**

*External Fan On/Off by Temperature**

*Battery Test Options**

Inverter On/Off (Output On/Off)

When the BBS is in battery mode, the Inverter On/Off command turns off the BBS's output power to the load. It does not turn off the BBS.

*Reset the Event/Timer Counters**

*Resets the BBS log, timers, and counters**

*Changes Password**

Transfer Points

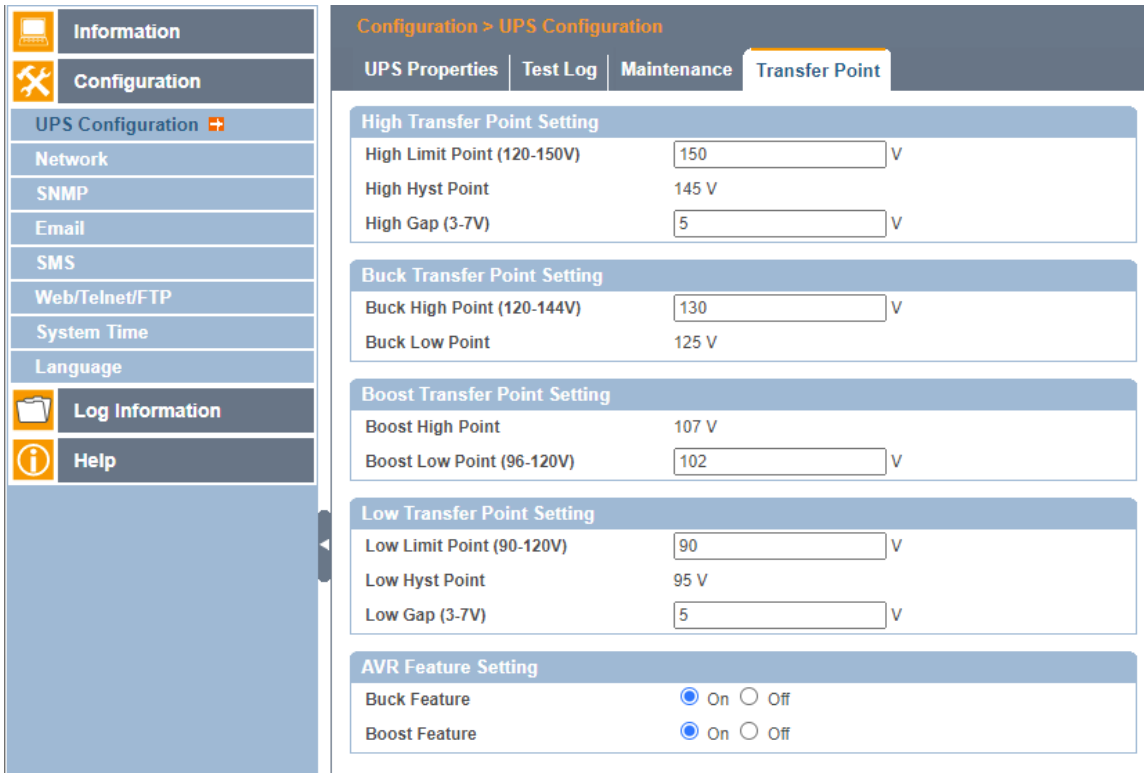


Figure 25

- We do not recommend making transfer point adjustments. Doing so could adversely affect the BBS's operation.
- The default levels are those specified by most Departments of Transportation.
- Do **NOT** adjust the transfer points unless you have clear and consistent data that the BBS will eliminate a problem. After you have this data, please get in touch with Marathon Power at support@marathon-power.com

Transfer Point Descriptions

Some levels are interdependent; changing a value may cause other values to change automatically.

High Transfer Point Setting

Above the High Transfer Point Setting, the BBS transfers into battery mode.

High Gap range 3-7.

Buck Transfer Point Setting

Above the Buck Transfer Point Setting, the BBS lowers the output AC voltage by 15%.

Boost Transfer Point Setting

Below the Buck Transfer Point Setting, the BBS raises the output AC voltage by 15%.

Low Transfer Point Setting

Below the Low Transfer Point Setting, the BBS transfers into battery mode.

Low Gap range 3-7.

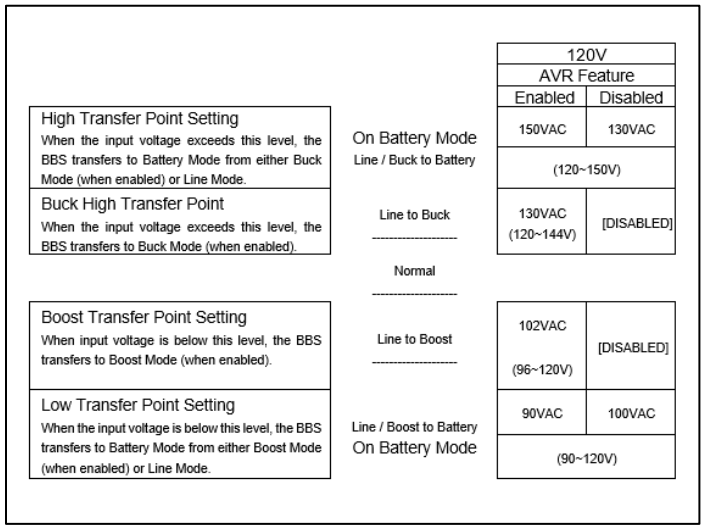


Figure 26

*AVR Feature Settings**

The BBS has a transformer with two secondary taps. Enabling Automatic Voltage Regulation allows the BBS to use its secondary tab to lower (Buck) or raise (Boost) the output voltage by 15%. AVR reduces the number of times the BBS transfers into battery mode.

Connecting the card to the Local Area Network*

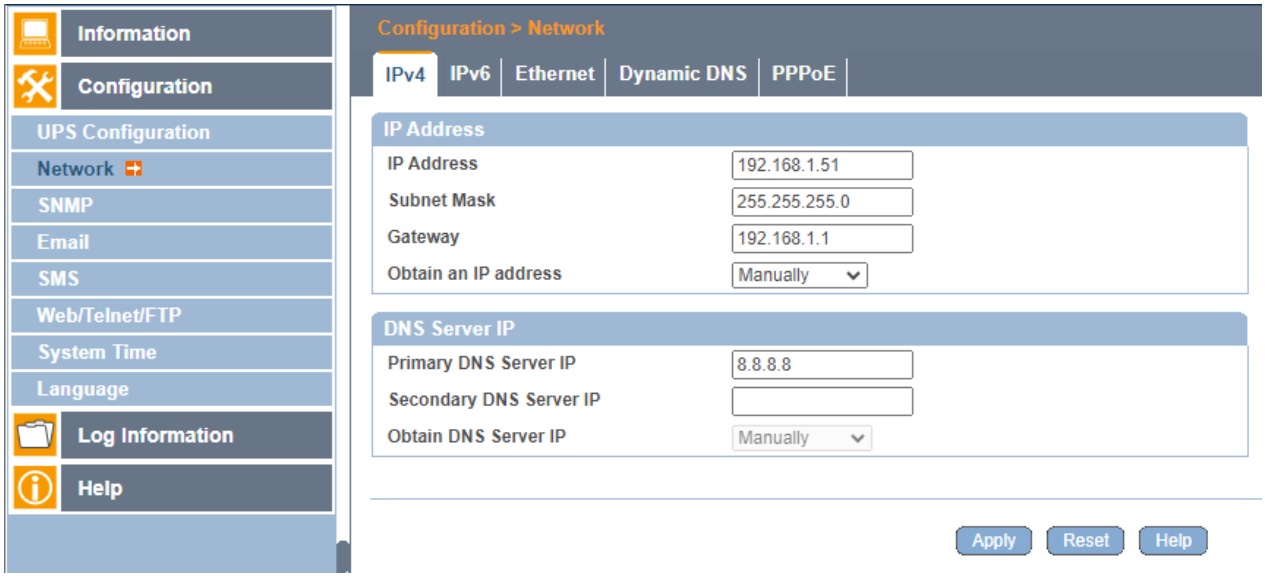


Figure 27

IPv4*

*IP Address**

From the drop-down list, select how the IP address is obtained: manually, using DHCP, or using BOOTP.

*DNS Server IP**

Enter the Primary DNS Server IP address. You can also enter a secondary DNS Server IP address.

IPv6

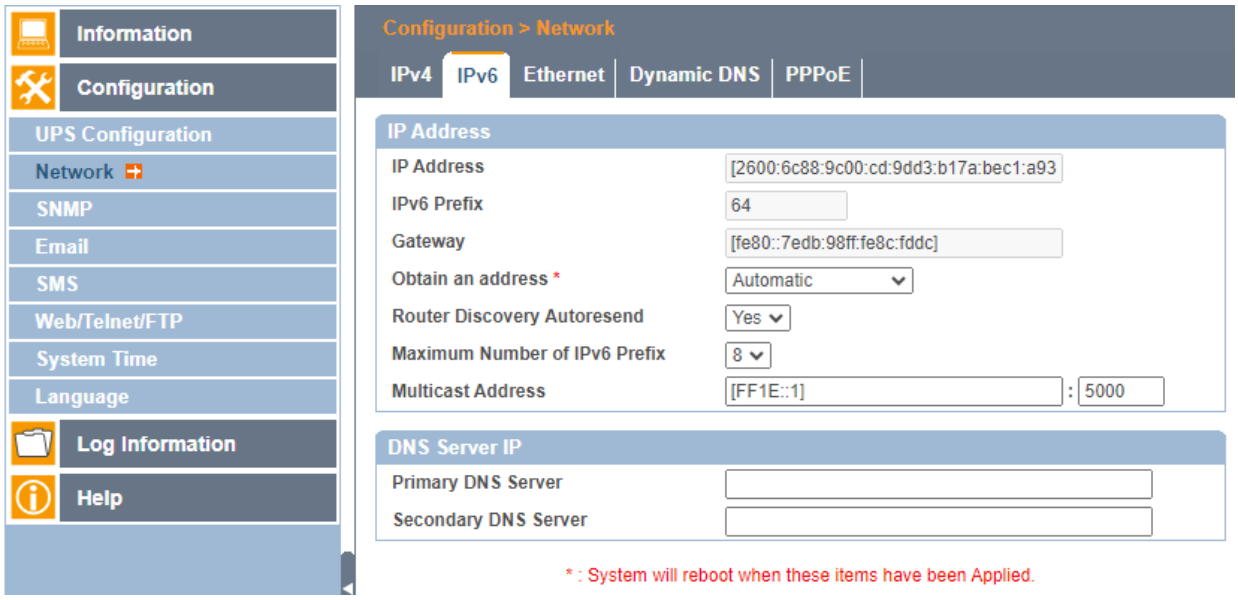


Figure 28

IP Address

Select how the IP address is obtained from the drop-down list: automatic or stateless DHCPV6 or manually entered. You must enter the Router Discovery auto resend, the maximum IPv6 prefixes, and the multicast address.

DNS Server IP

Enter the Primary DNS Server IP address. You can also enter a secondary DNS Server IP address.

Ethernet

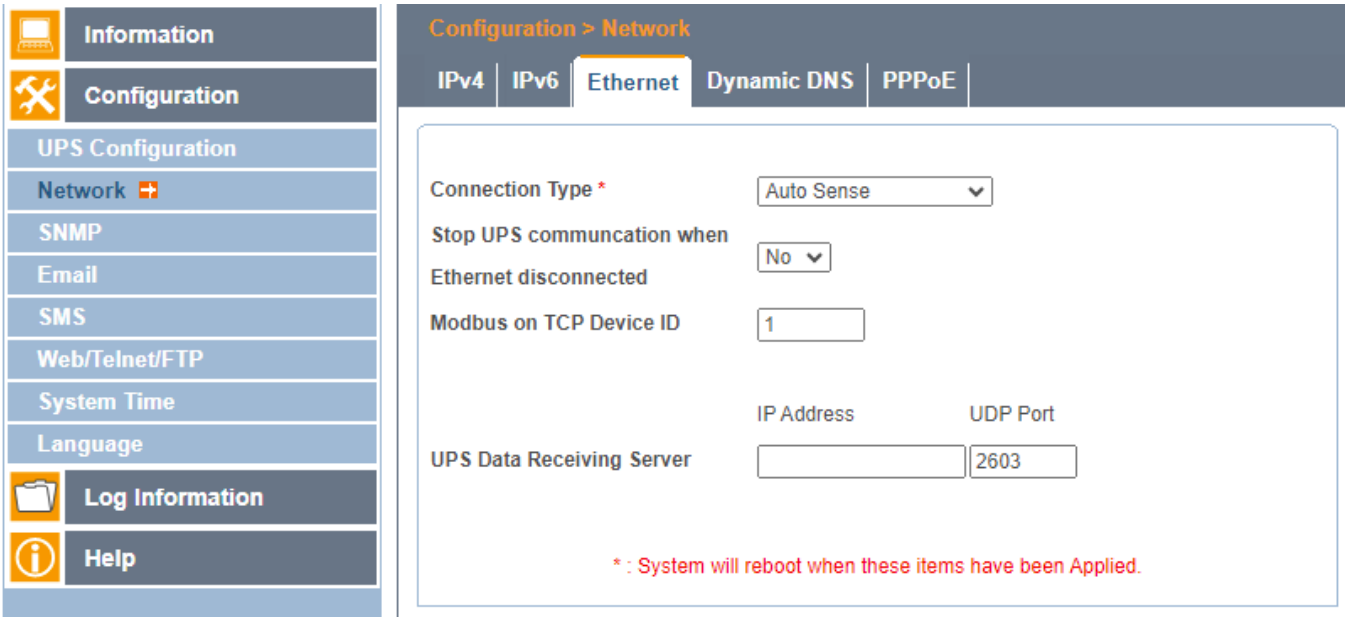


Figure 29

Connection Type

This section sets the card's communication speed on the network. Once you click on Apply, the card reboots.

Stop UPS communication when the ethernet is disconnected.

This section sets if you want to stop BBS communication when the card disconnects from the network.

*Modbus on TCP Device ID**

This section changes the card's Modbus TCP/IP device ID.

For the Modbus Register Table, please get in touch with Marathon Power at support@marathon-power.com

Dynamic DNS

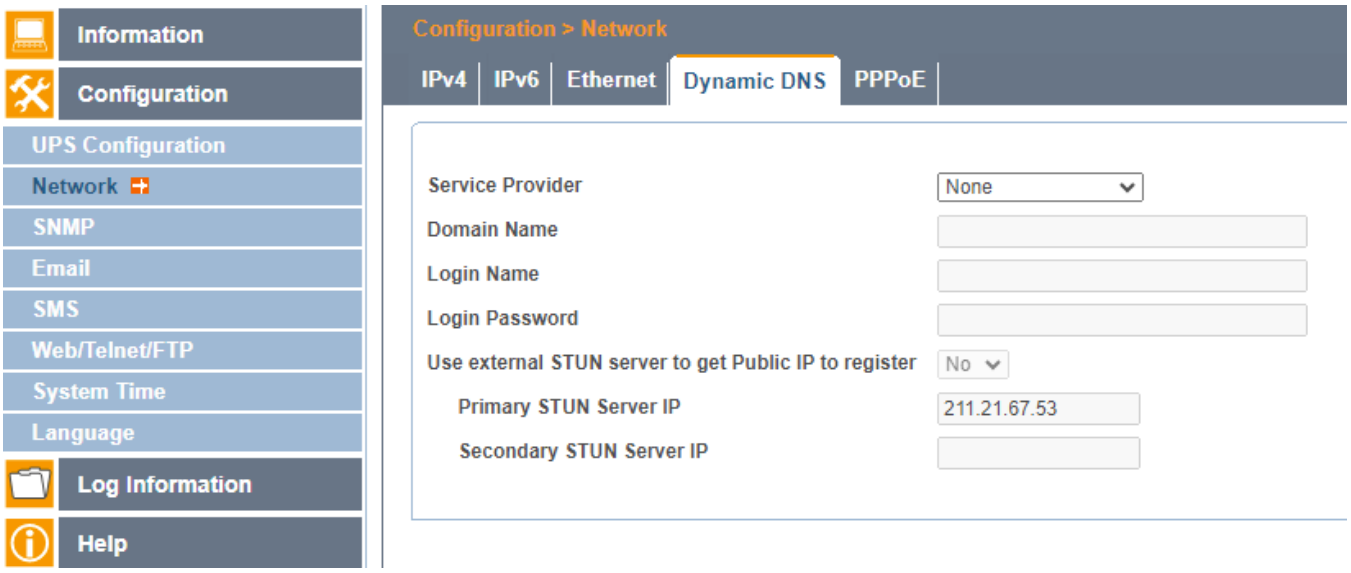


Figure 30

This section allows users to alias a dynamic IP address to a static hostname. Ensure the account and password are registered with a DDNS service provider.

Service Provider

Select Dynamic DNS providers from a list.

Domain Name

Enter the registered domain name.

Login Name

Login / Account name you created with the selected DDNS provider.

Login Password

Enter the password you have assigned to your DDNS account.

Use an external STUN server to get Public IP to register.

Choose Yes to ensure the card uses the WAN / Public IP to update the selected DDNS server.

PPPoE

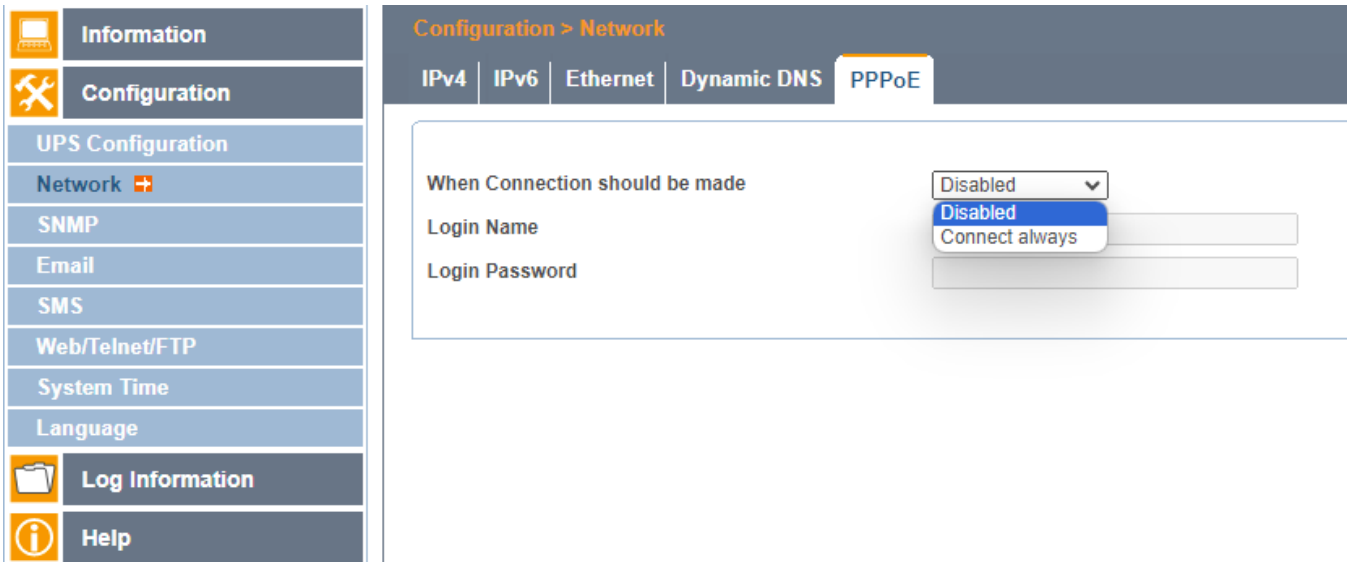


Figure 31

This tab lets the card connect to the Internet directly using your xDSL modem by PPPoE. Enter the Login name and password to enable the connection. Once set up, the card connects directly to your LAN. An abnormal connection failure will cause a re-dial.

Assigning the Card a Unique Name*

General*

*MIB System**

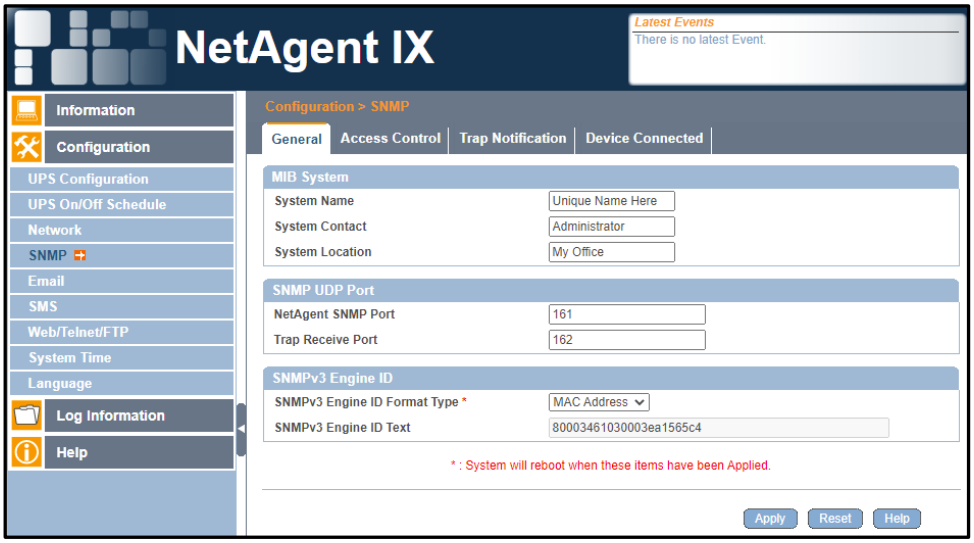


Figure 32

NOTE: Enter a unique ID/Name into the “System Name” field. The “System Name” appears in the subject line of the event notifications emails, while the "System Location” only appears in the body of the email.

SNMP UDP Port

SNMPv3 Engine ID

This section configures the card's SNMPv3 Engine ID to generate authentication and encryption keys.

Access Control*

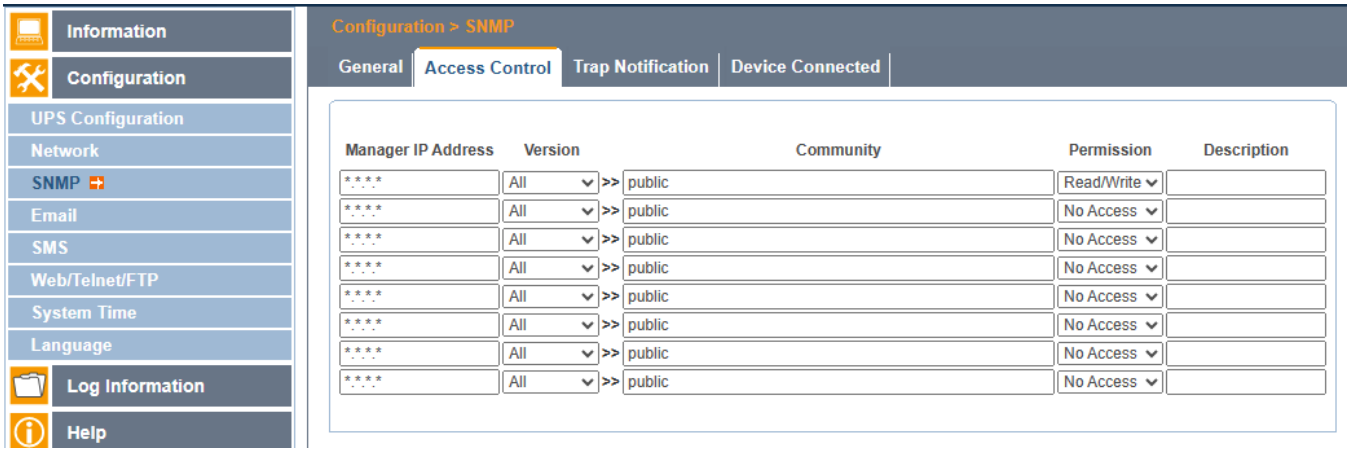


Figure 33

Manager's IP Address

This section sets the IP address that the administrator uses to manage the card. It is valid for up to 8 IP addresses. To manage the card from any IP address, enter *.*.*. *.

Version

This section is for choosing the SNMP version, either SNMPv1, SNMPv2, or SNMPv3. When selecting All or SNMPv3, a username, password, authentication, and privacy are required.

Community

This section sets a community name for a Network Management System (NMS). The community's name must be the same as the Network Management System (NMS) setting. The default is Public.

Permission

This section sets the permissions. The options are Read, Read/Write, and No Access.

TRAP Notifications

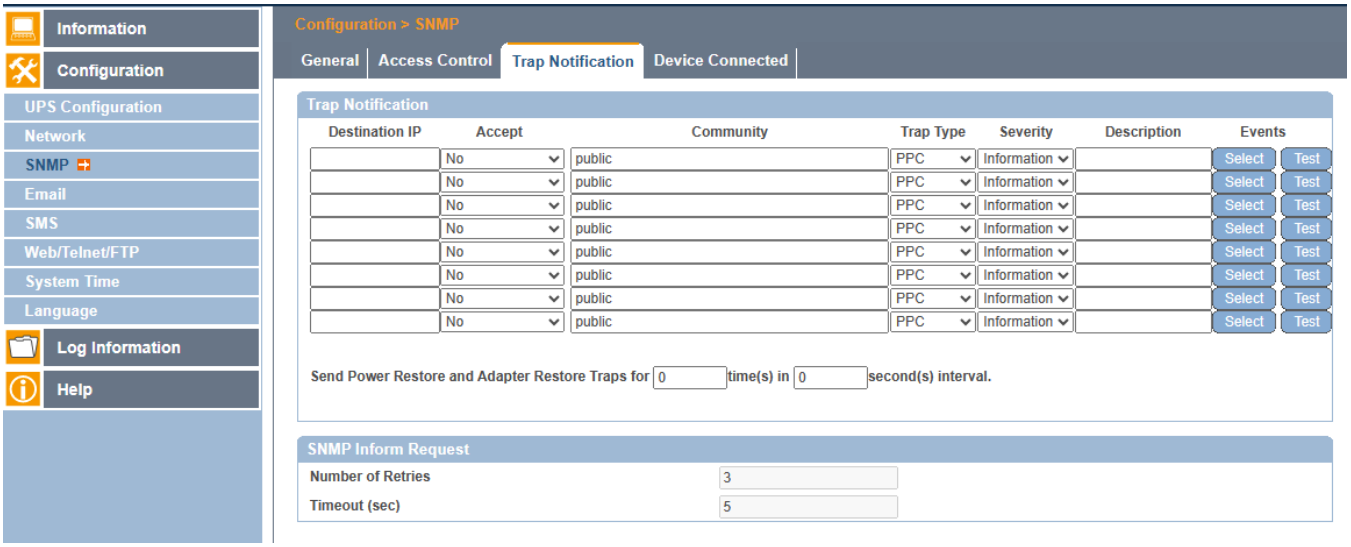


Figure 34

Destination IP

This section sets the receiving device's IP address. Up to eight different IP addresses can be used.

Accept

This section sets the type of traps accepted: none (No) or SNMPv1 Trap, SNMPv2 Trap, SNMPv2 Inform, SNMPv3 Trap, SNMPv3 Inform.

NOTE: When SNMPv3 TRAP or SNMPv3 Inform is selected, username/password and authentication information are required

Community

This section sets a community name for a Network Management System (NMS). The community's name must be the same as the Network Management System (NMS) setting. The default is Public.

Trap Type

This section sets the trap type. PPC MIB is the default. RFC1628 MIB NOT recommended.

Severity

This section sets the receiver's TRAP. There are three levels of Severity,

- Information: To receive all the traps.
- Warning: To receive only the warning traps.
- Severe: To receive only the severe traps.

Description

This section is adding a note about the trap.

Events

This section allows the selection of specific events to be sent.

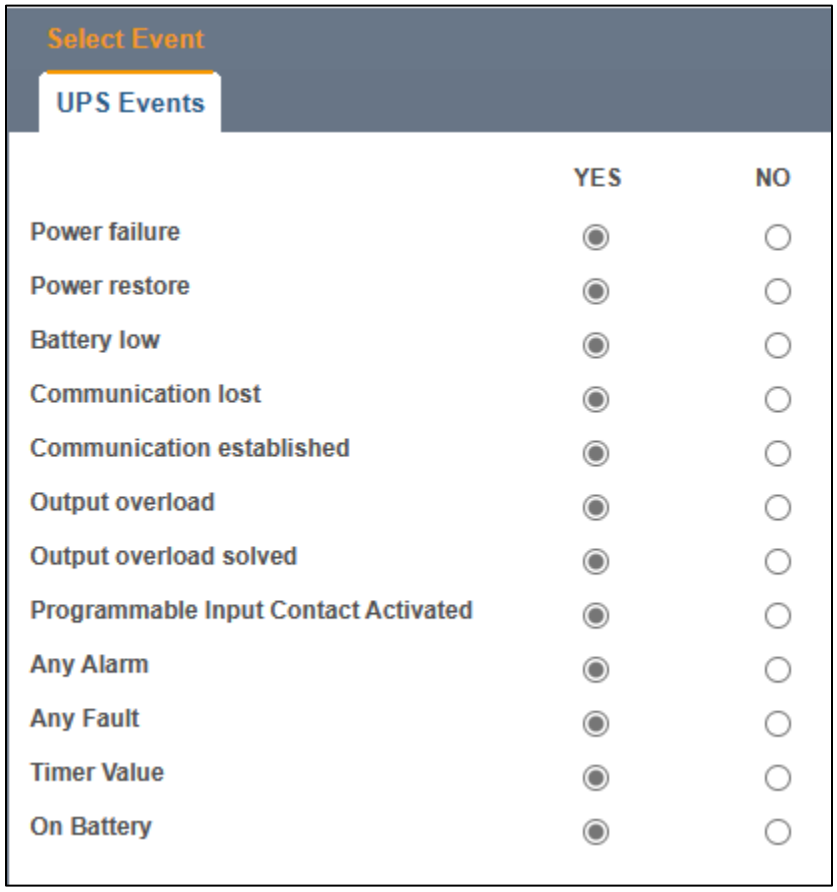


Figure 35

Device Connected

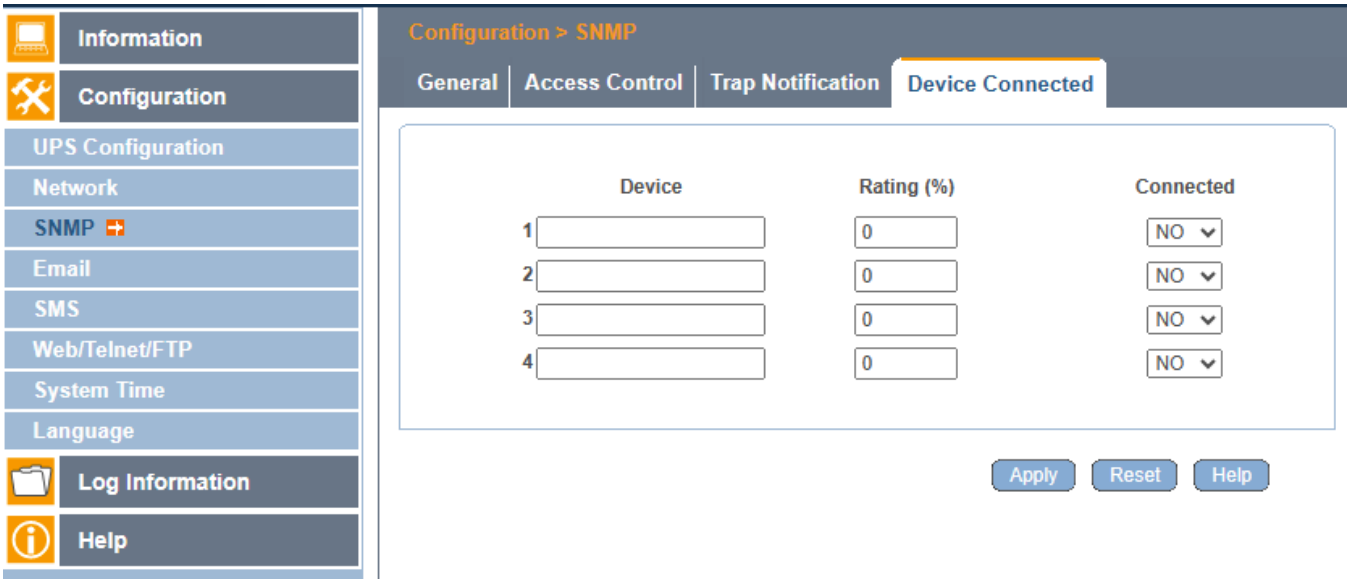


Figure 36

This tab is for you to label the devices attached to your BBS.

Configuring Power and BBS Event Notifications*

Email Settings*

Figure 37

To send email notifications, you must enter a “Sender’s” email address.

Suggestion: We recommend using a unique email account/email address only for BBS event emailing instead of a person's email address. This allows all the card’s notification emails to be managed by writing email forwarding rules in an email client (program) like Outlook, not each SNMP card. It also avoids the problem of multiple technicians entering their email addresses and their responsibilities changing.

Entering the email addresses of the people who should receive the notifications*

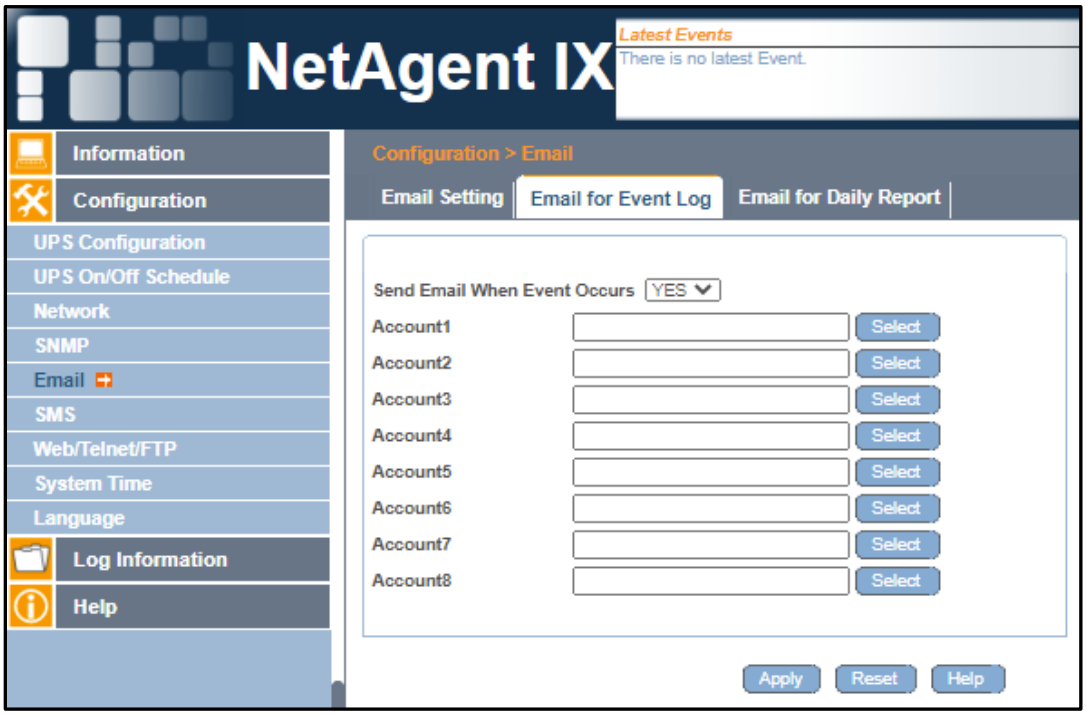


Figure 38

Enter the email addresses of the people needing to receive BBS event notifications. The Select button allows you to select which notifications are sent to that person.

Available Event Notifications*

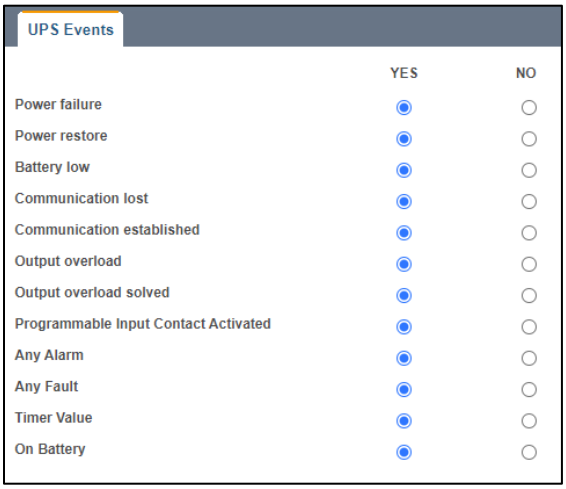


Figure 39

Enter the email addresses of the people who should receive the Daily Reports*

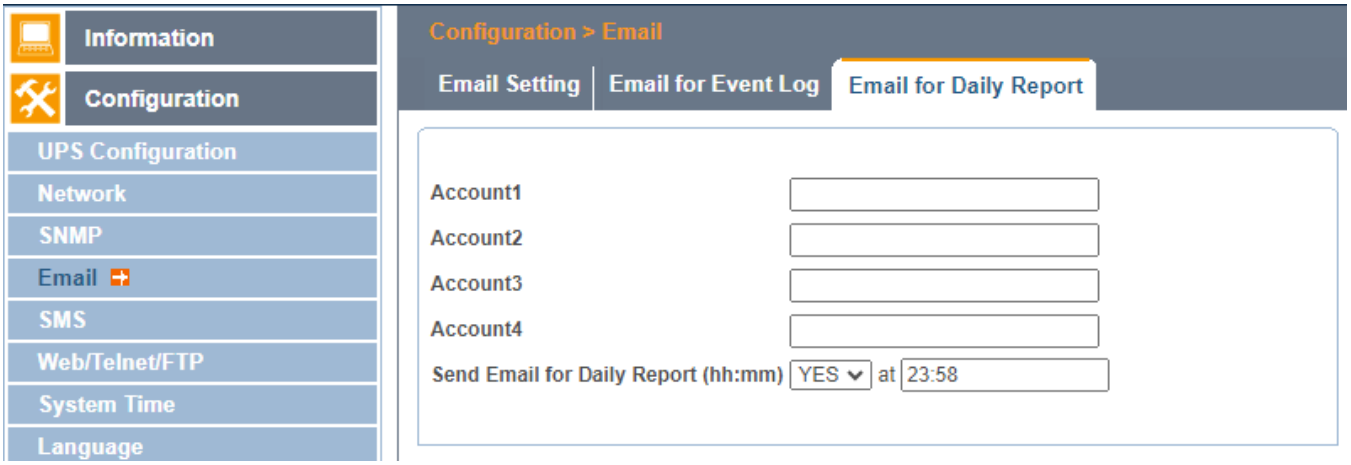


Figure 40

Enter the email addresses of the people needing to receive a daily copy of the event and data logs as a CSV file. The data and event logs are also available for download using the card's UI. We recommend sending the Daily Reports at 23:58.

SMS

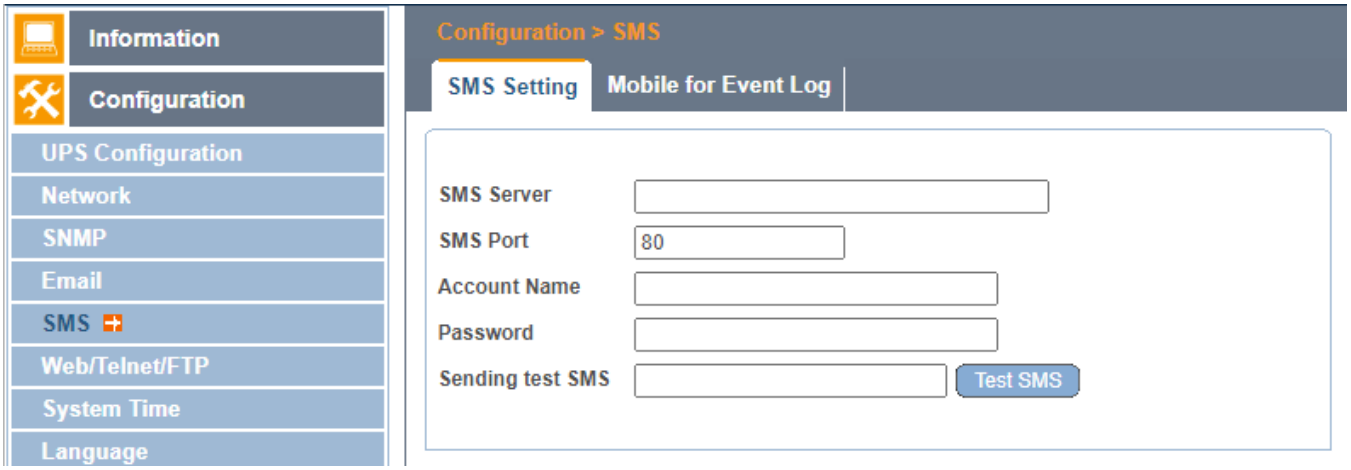


Figure 41

If you have an SMS Server, enter its information here.

You may need to install the MegaTec software for SMS Servers. Please get in touch with Marathon Power at support@marathon-power.com for the latest version of this software or if you need additional assistance.

Web/Telnet/FTP*

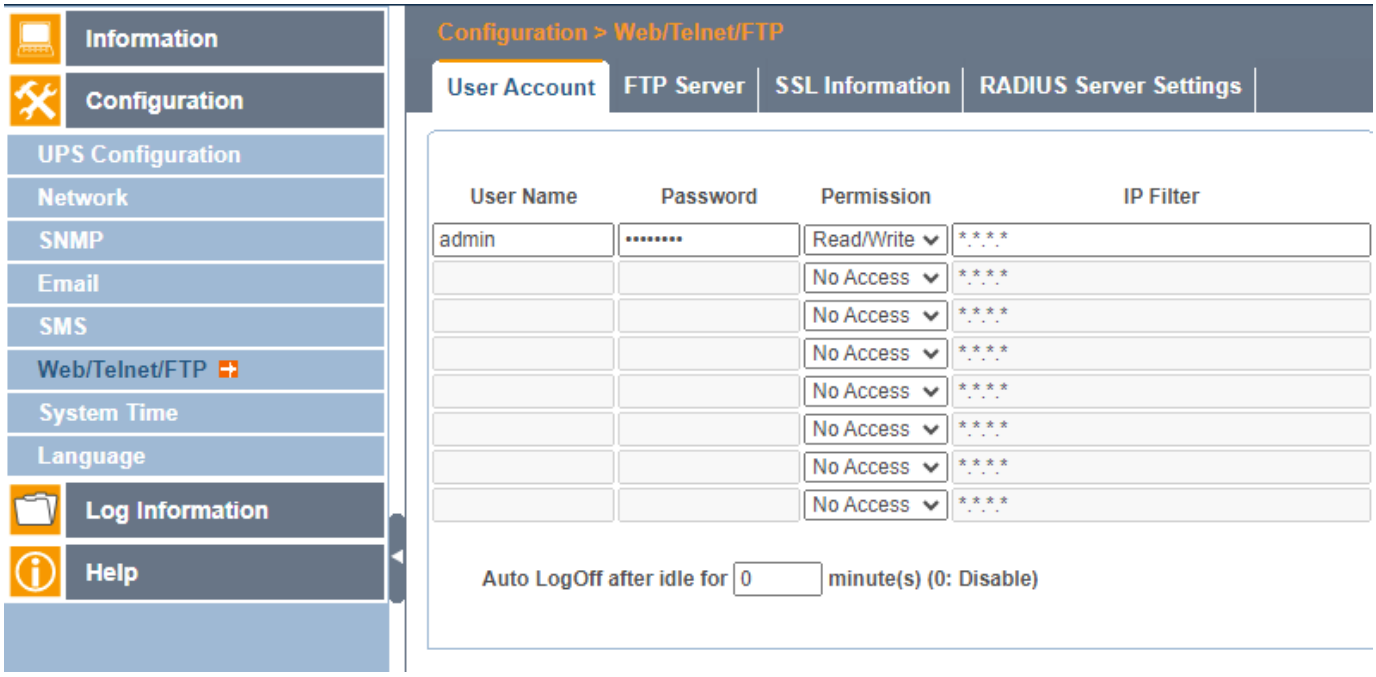


Figure 42

User Account*

This section is for configuring who can access the card and what privileges they have. It is valid for up to eight "users". If you have more than eight "users", they can share one of the eight already assigned.

Username

This section sets the user's name.

Password

This section sets the password for a user accessing the card.

Permission

This section sets the user's privileges (No Access / Read/ Read Write).

IMPORTANT! There must be at least one user with Read/Write permission. Username with Read and Write cannot be blank.

IP Filter

This section restricts the IP address a user can use to access the card (*.*.*.* Means any IP address).

Auto logoff

This section sets the time of Auto Logoff. After Idle for xx minute (s). (0 is disabled)
The user is logged off automatically once the preset time is reached.

FTP Server*

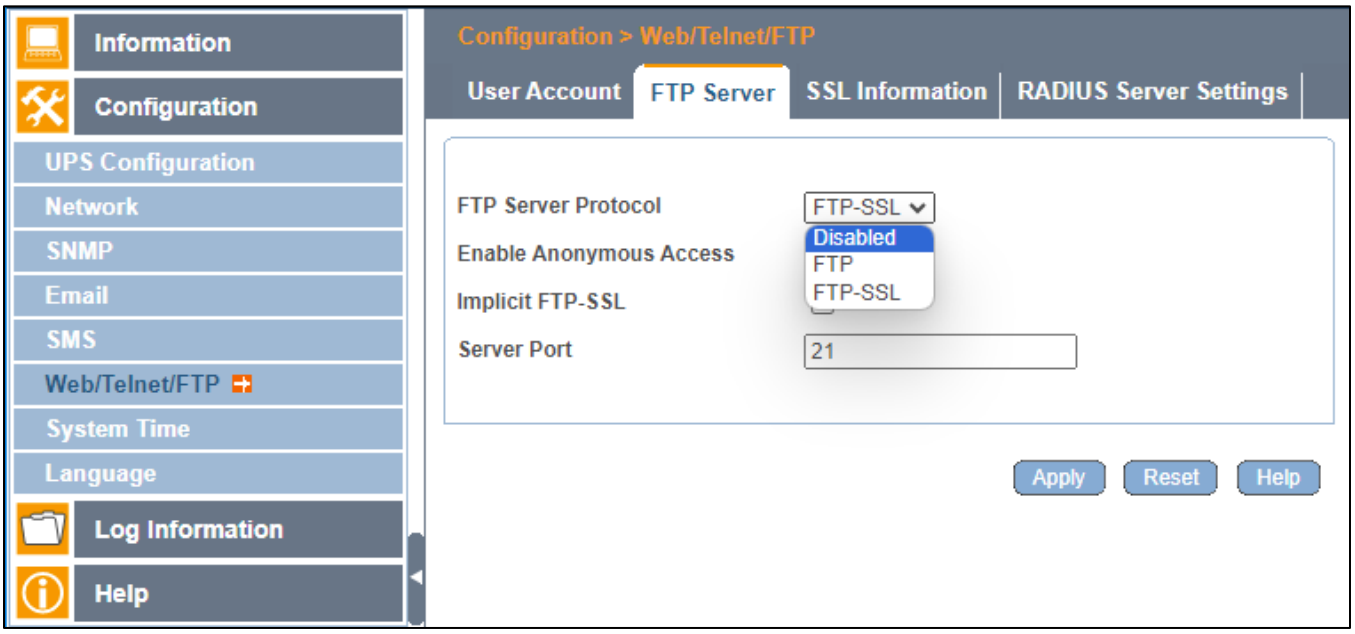


Figure 43

The tab is for choosing if FTP or FTP-SSL is enabled and what port it uses.

SSL Information*

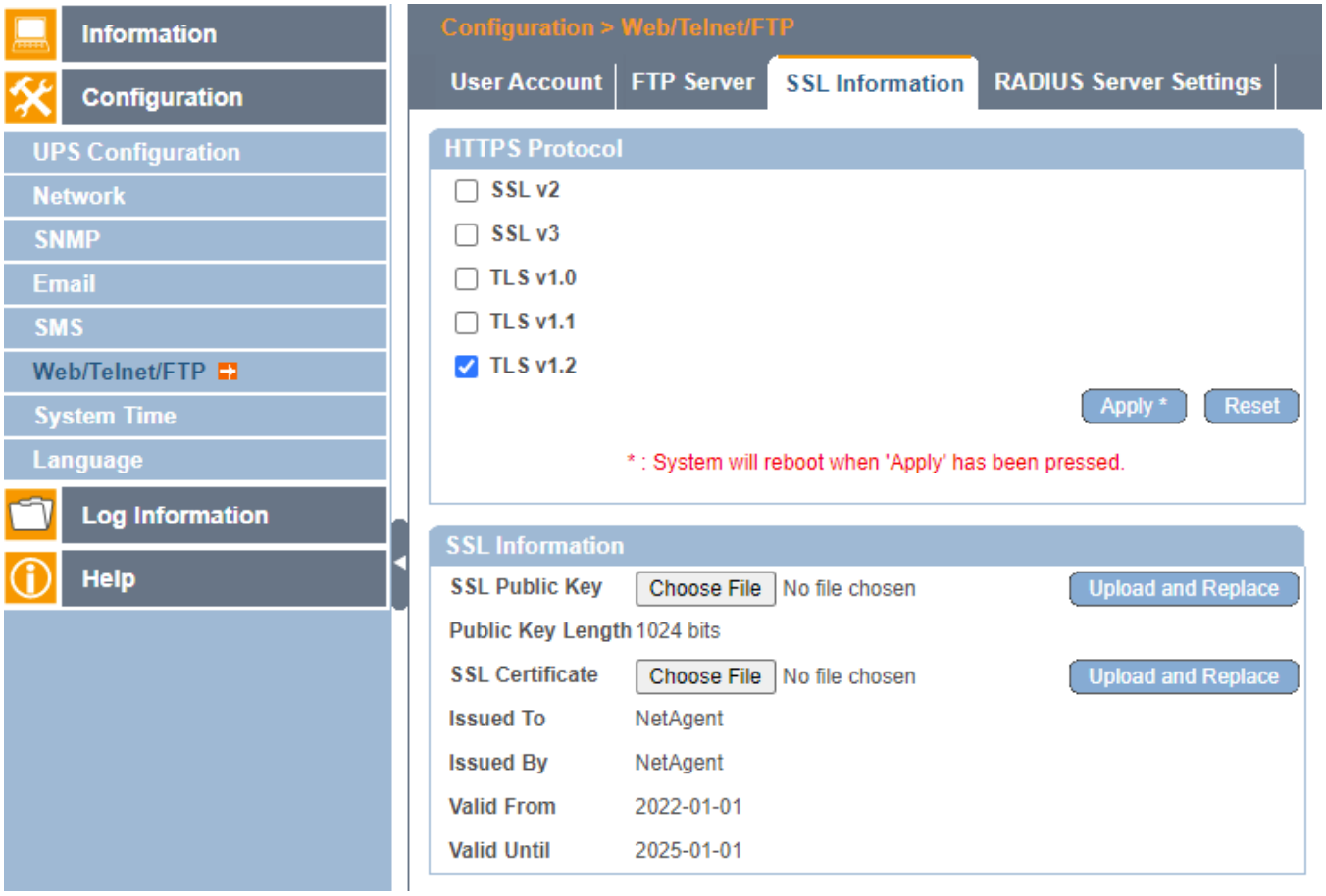


Figure 44

*HTTPS Protocol**

The tab is for choosing which SSL and TLS protocols are enabled.

*SSL Information**

This section allows users to upload their SSL Public Key and SSL certificate. When both the public key and certificate are uploaded to the card, the communication is encrypted by SSL. To communicate via HTTPS, make sure to enable HTTPS port 443.

RADIUS Server Settings

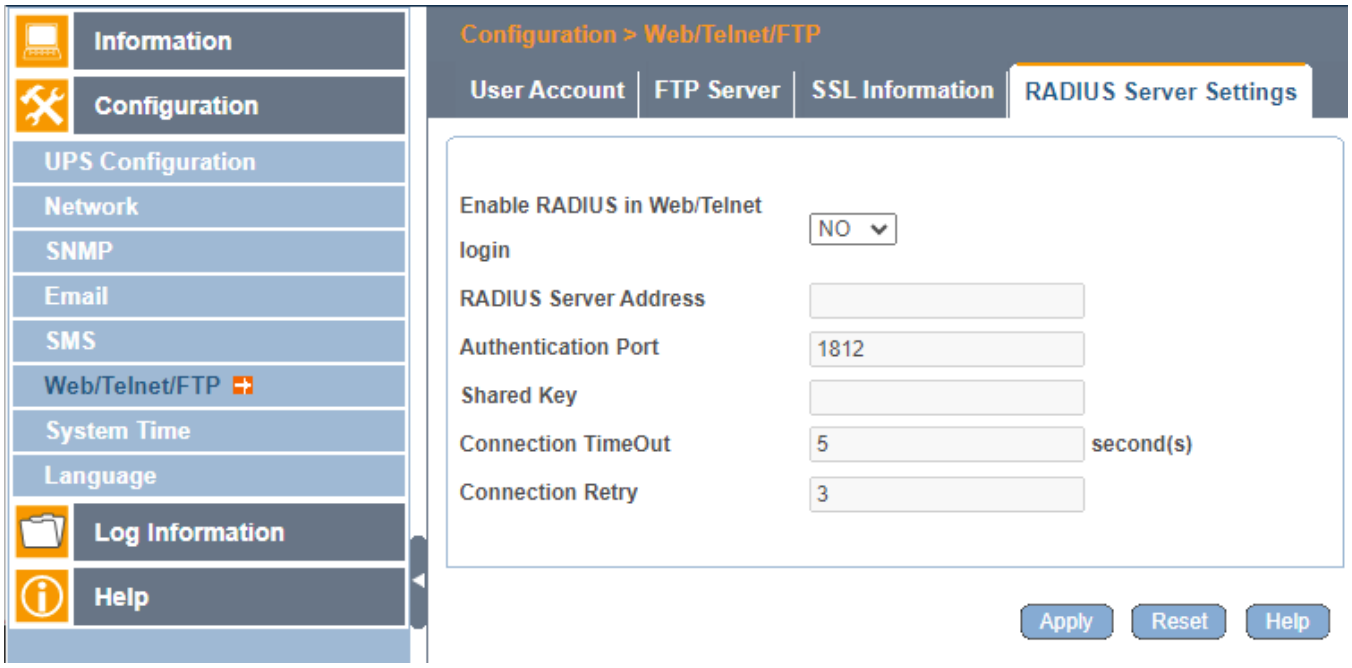


Figure 45

This tab enables RADIUS server configuration and authentication. If you need assistance with this, please get in touch with Marathon Power at support@marathon-power.com

Setting the Card's Time*

System Time

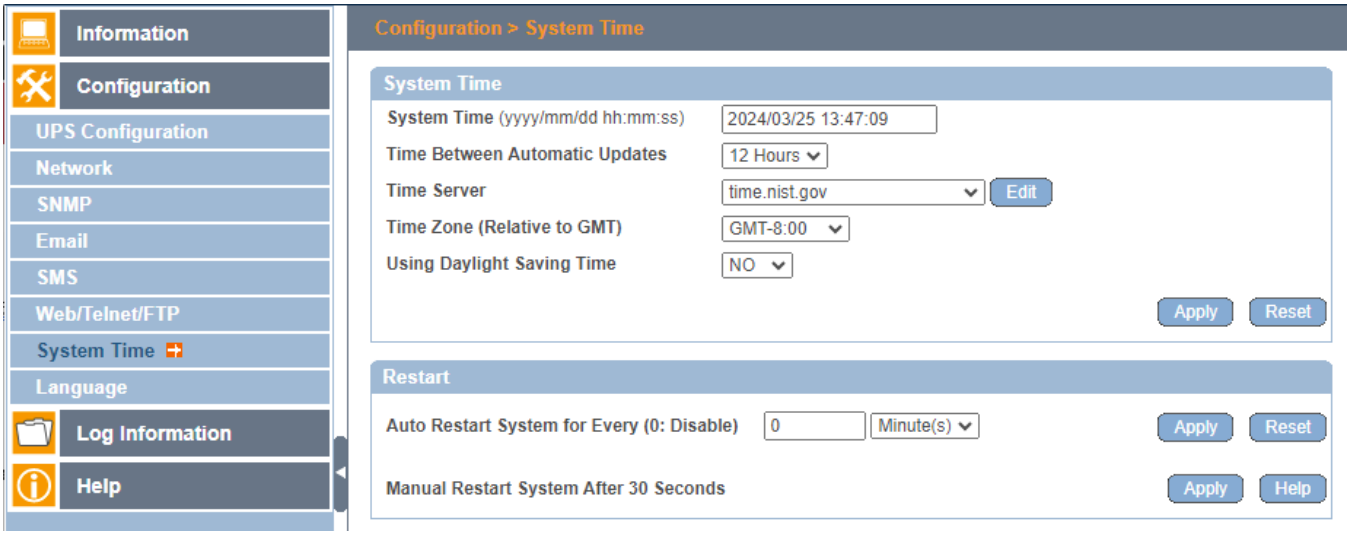


Figure 46

This section configures the card's time and automatic adjustment.

*Rebooting the SNMP Card**

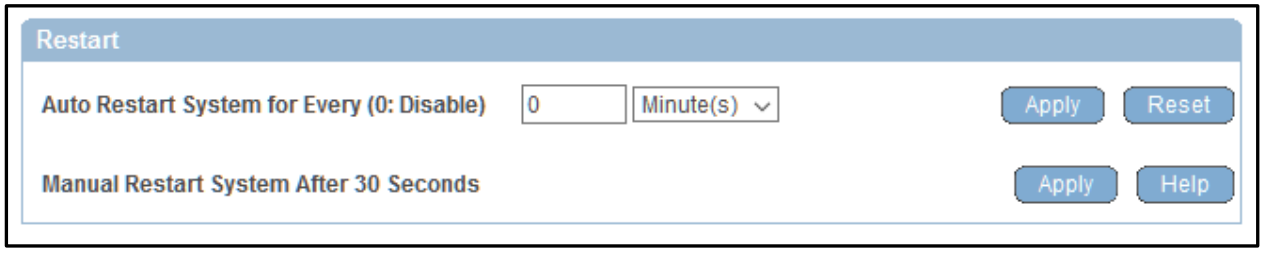


Figure 47

This section only restarts the card, NOT the BBS. The card restarts automatically at a preset hour or minute or can manually restart after 30 seconds. Auto Restart System for Every (0 is disabled).

Language

Figure 48

Interface Language

The card automatically detects and uses the PC's language. This section allows you to select which language the card uses.

Email Preference

This section selects the language preference for emails and SMS messages sent.

Log Information Tab

Event Log*

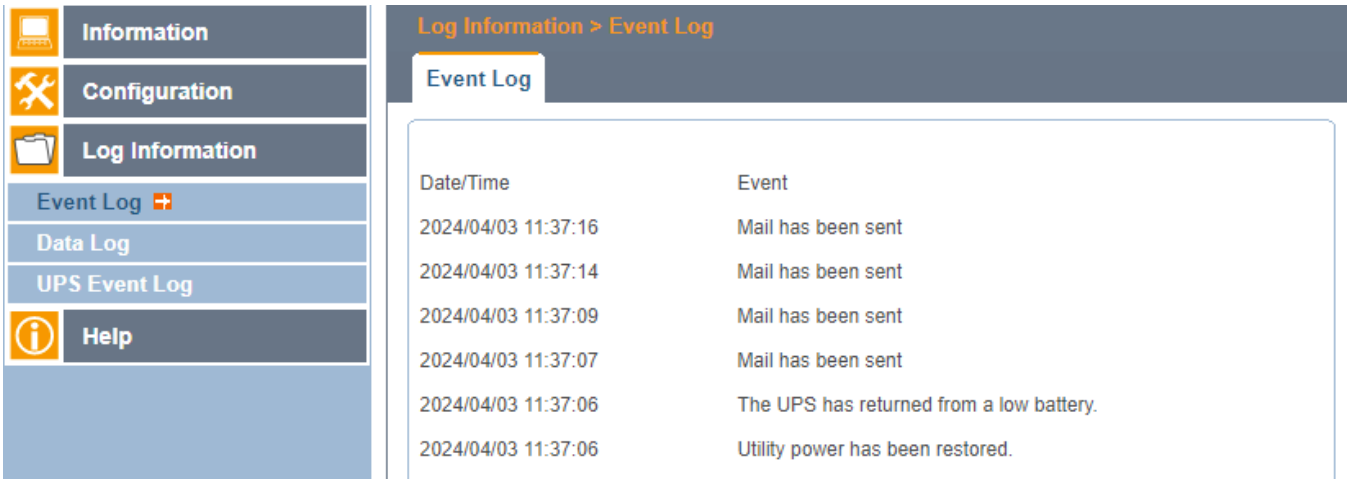


Figure 49

It displays a record of all events, giving the Date/Time of the event and a detailed description of each. The log capacity is **1000 logs**. When the limit is reached, the card overwrites the oldest log. The log can be saved as a csv file by clicking “Save Event Log.”

Data Log*

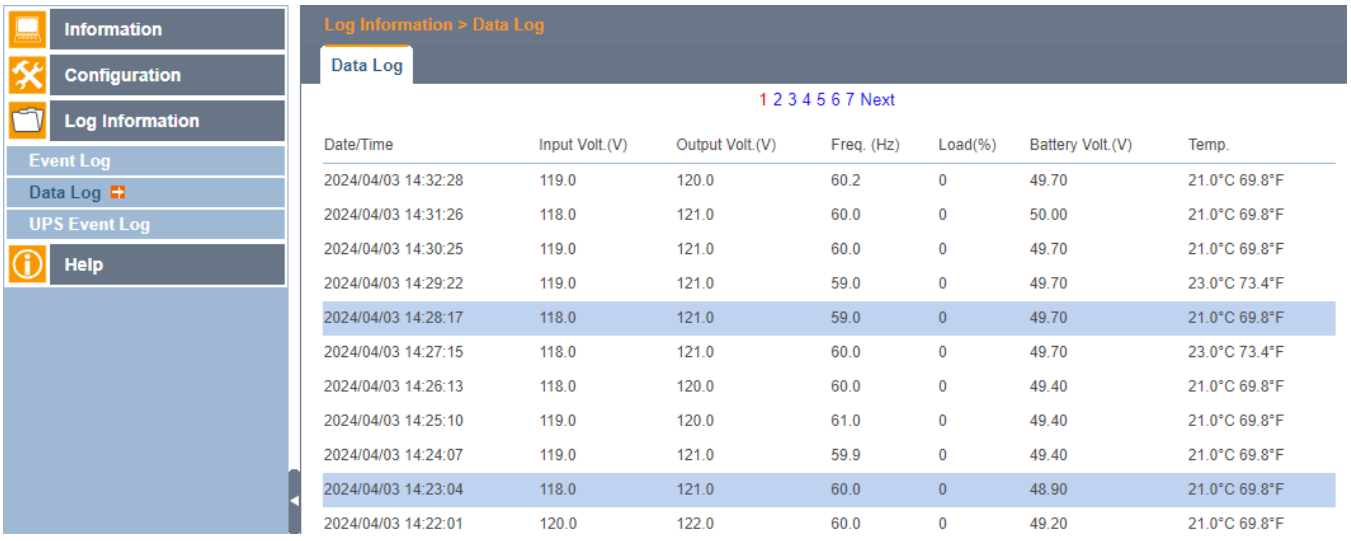
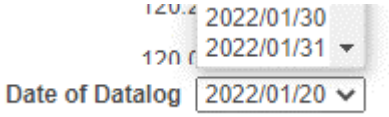


Figure 50

The data log shows the Input Data/Time, Input Voltage, Output Voltage, Frequency, Load, Battery Voltage and Temperature of time.

The data logs capacity of **5000 data points**. When the limit is reached, the card overwrites the oldest log. Data Logs are saved in the CSV format by clicking “Save Data Log.”

Check the date at the bottom of the page to ensure you view the data from the date you are interested.



UPS Event Log

Date	Time	Vin	Vout	Fin	Pout	Vbat	Tbat	Ths	Vds1	Vds2	AVR Status
04/03/24	09:24:23	000	122	000	0440	53.0	+21	+27	012	012	[Black_Out] [ON_BATT]
04/03/24	10:25:22	000	120	000	0430	47.2	+24	+32	010	011	[Black_Out] [Batt_Low] [ON_BATT]
04/03/24	10:27:17	000	120	000	0430	47.5	+24	+32	010	010	[Black_Out] [ON_BATT]
04/03/24	10:27:39	000	121	000	0440	47.5	+24	+32	010	011	[Black_Out] [Batt_Low] [ON_BATT]
04/03/24	11:35:03	000	000	000	0000	43.6	+25	+31	000	000	[Black_Out]
04/03/24	13:33:26	120	000	060	0000	46.1	+21	+27	000	000	[ON_LINE_Normal]
04/16/24	10:30:13	117	000	059	0000	54.4	+20	+26	000	000	[ON_LINE_Normal]
04/17/24	10:32:44	000	121	000	0440	52.5	+23	+30	011	012	[Black_Out] [ON_BATT]
04/17/24	11:47:55	000	119	000	0420	47.2	+25	+35	010	010	[Black_Out] [Batt_Low] [ON_BATT]
04/17/24	12:47:53	000	000	000	0000	43.6	+28	+34	000	000	[Black_Out]

Figure 51

The BBS Event Log gives you details specific to the BBS for our engineers.

Help Tab

Search NetAgent

Search displays all the MegaTec cards within your LAN. It lists the device's serial number, Mac Address, Hardware version, Firmware version, and IP address. Double-clicking on it opens that card's webpage.

Help

Help opens another browser tab, showing the card's web interface.
This interactive version has descriptions and explanations instead of adjustment and settings options, illustrating each feature or option the card offers.

Saving and Restoring the Card's Configuration File*

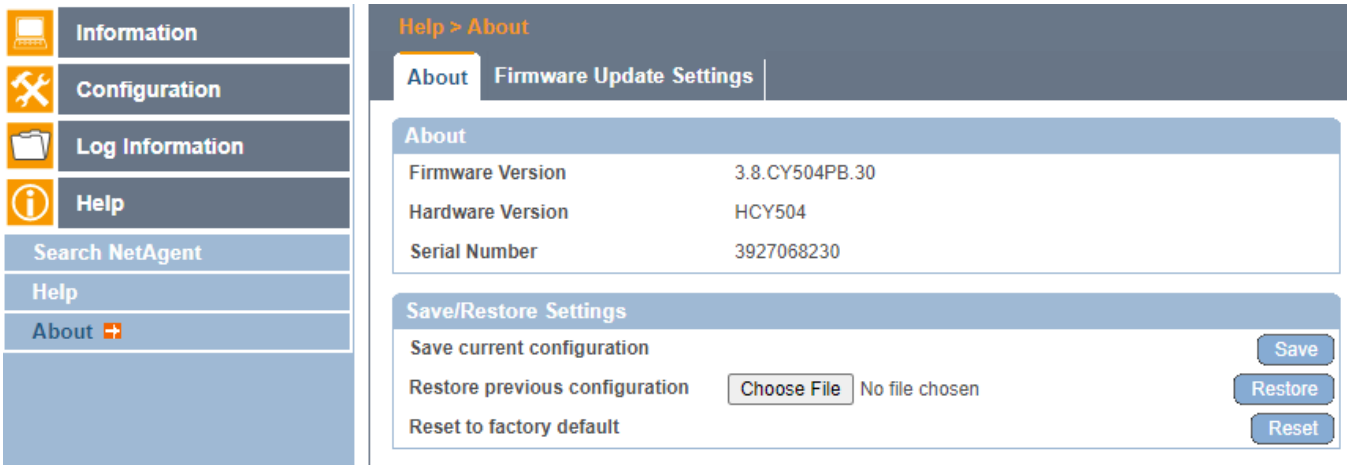


Figure 52

About

This section displays the card's hardware, firmware version, and serial number.

*Save/Restore Settings**

In the Save Current Configuration section, select Save to save the current card's configuration.

NOTE: Two devices on a network cannot have the same IP address. This is why we recommend that you save a master with the card's default IP address 192.168.1.51 255.255.255.0 192.168.1.1

*Save Current Configuration**

Click on Save to save the configuration to your PC. The text file has a default format of YYYY_MMDD_TIME.cfg.

*Restore the previous configuration**

Use this function to restore a *.cfg configuration that was previously saved. Click on Browse, then go to the file's location and click Restore.

*Reset the Card to its factory defaults**

This function resets all the card settings to their default values, including restoring the card's IP address to its defaults, IP address 192.168.1.51 255.255.255.1 192.168.1.1 username admin password user

Please get in touch with Marathon Power at support@marathon-power.com if you would like additional assistance or information about saving a card's configuration.

Built-In SNMP Card Firmware Updater*

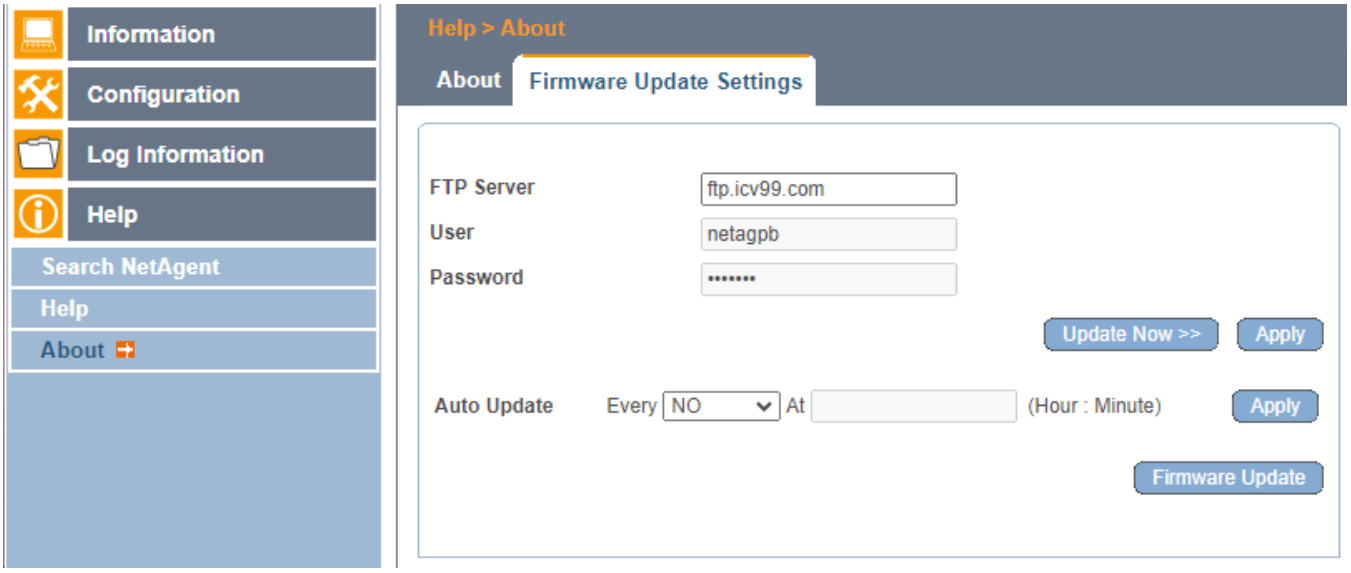


Figure 53

Firmware Update Settings

The card's built-in firmware updater uses an FTP server managed and maintained by MegaTec to provide you with the latest firmware for the card.

1. Note the firmware version that is currently installed on the card. Then click the Update Now button, and a message window will tell you if the card has the latest firmware.

2. If newer firmware is available, click Yes to update the firmware. Do NOT close the browser tab or move away from the open window. The complete process will only take a few minutes.

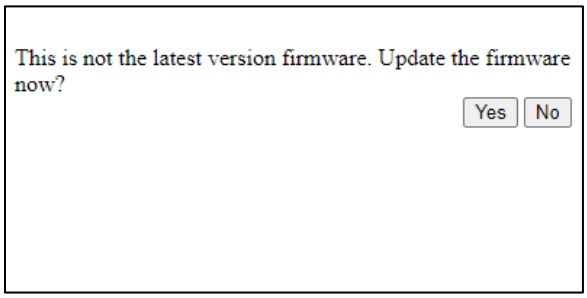


Figure 54

3.

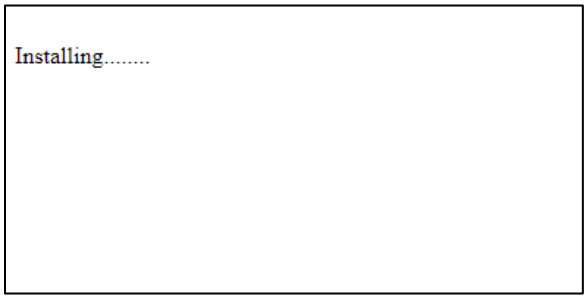


Figure 55

4. When a message window shows “Update Complete”, click the exit button. Wait approximately 2-3 minutes, then refresh the page. Confirm that the firmware version has changed.

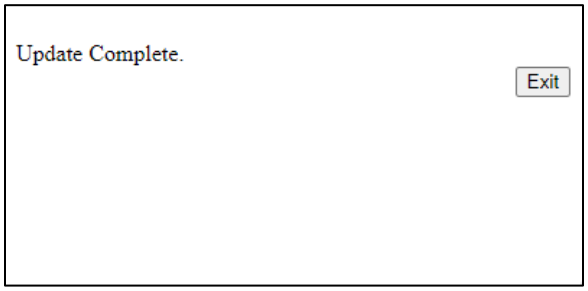


Figure 56

5. Repeat all these steps until there is a message window “This is already the latest version Firmware”.

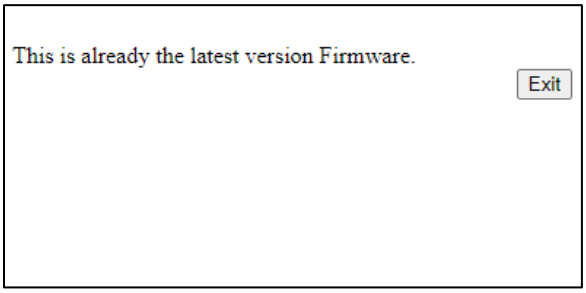


Figure 57

Updating the SNMP Cards Firmware Using a Computer*

Warning!

- MegaTec's STANDARD firmware is not compatible with our products.
- Using it may result in a loss of functionality of the card and could affect the BBS.
- The firmware for one model card is not compatible with any other model. If you have different SNMP card models on your network, you must ensure you use the correct firmware for each model.
- Contact Marathon Power at support@marathon-power.com for the correct firmware.

To update the firmware from a computer, you must use Netility. Instructions for using Netility are at the beginning of this manual.

Note: Because of the firmware file size, updating the firmware will take at least five minutes.

IMPORTANT! While upgrading, the red and yellow LED could alternatively flash. DO NOT remove the card from the BBS or disconnect any cables during this time.

If you would like further information or have any questions about updating the card's firmware, please get in touch with us at Marathon Power support@marathon-power.com

Appendixes

Password Recovery*

To reset the card’s password, follow the steps below.

1. Using a PC on the same network as the card with an unknown password.

2. Open a web browser and type http://xxx.xxx.xxx.xxx/password.cgi (xxx.xxx.xxx.xxx is the IP address of the card), and click Enter

If you disabled HTTP access to the card, type https://xxx.xxx.xxx.xxx/password.cgi (xxx.xxx.xxx.xxx is the IP address of the card) and click Enter.

For the ID, enter the admin. For the password, enter the password located on the label under the SNMP card and then press continue. After pressing continue, the usernames and corresponding passwords will be displayed.

Remotely Power Cycling a Device Connected to the BBS*

IMPORTANT NOTES:

- Remotely power cycling a device connected to the BBS is only possible if the BBS is not connected to a maintenance bypass switch (MBS) or a power transfer switch. (PTS)
- This does NOT turn off the BBS; it stops the BBS from providing power to the connected devices.
- All the devices connected to the BBS will lose power.

Step 1. Initiate a Battery Test by clicking on the "On" circle and then clicking Apply at the bottom of the page. The location of the battery test is under Configuration/UPS Configuration/Maintenance/Battery Test Options.

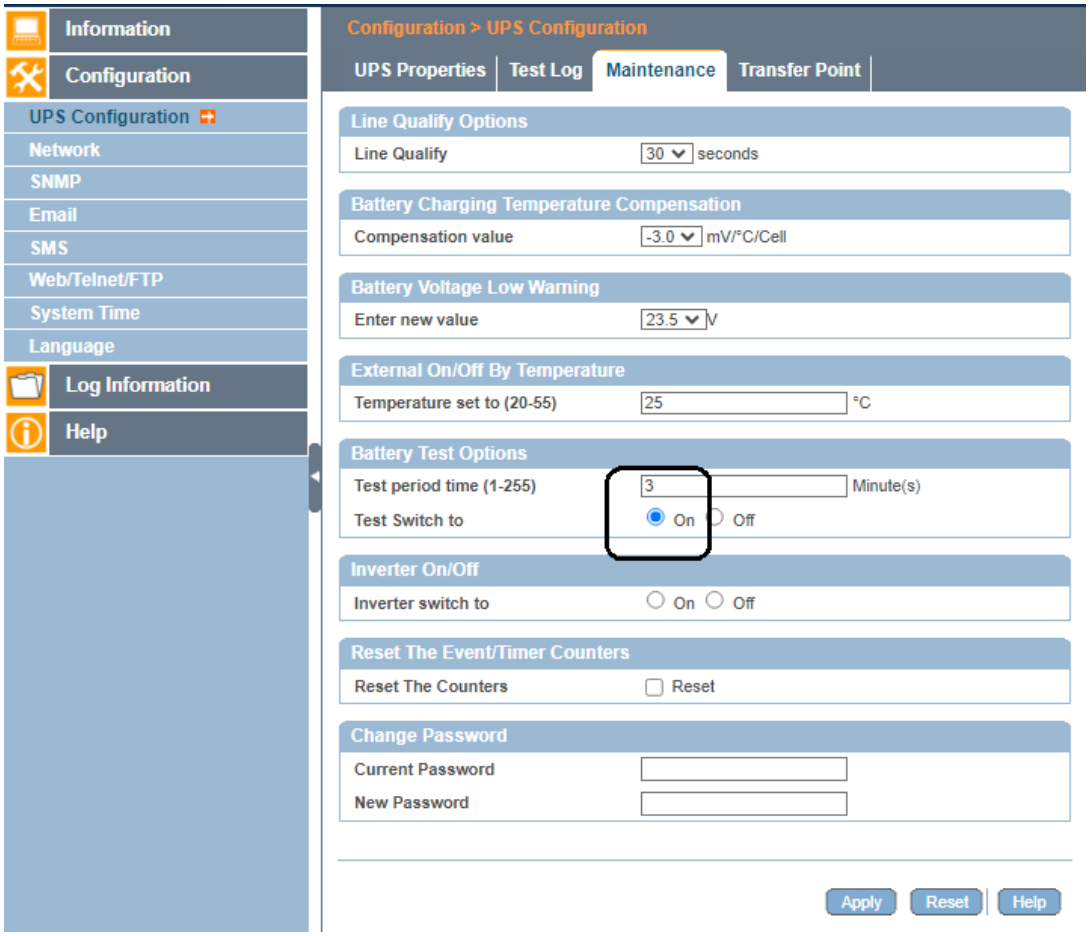


Figure 58

After clicking Apply, you will see the popup below as the command is sent to the BBS.

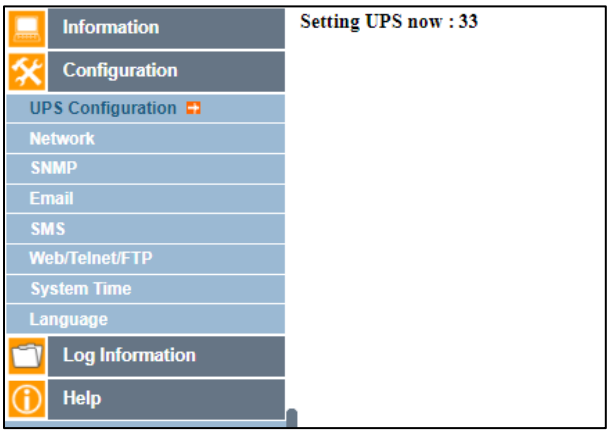


Figure 59

Step 2. When the popup clears, click on the "Off" circle under Inverter On/Off and click Apply at the bottom of the page. This will turn off the output of the BBS and cancel the battery test.

After the line-qualification time elapses, the attached devices have been power cycled, and the BBS is now operating normally.

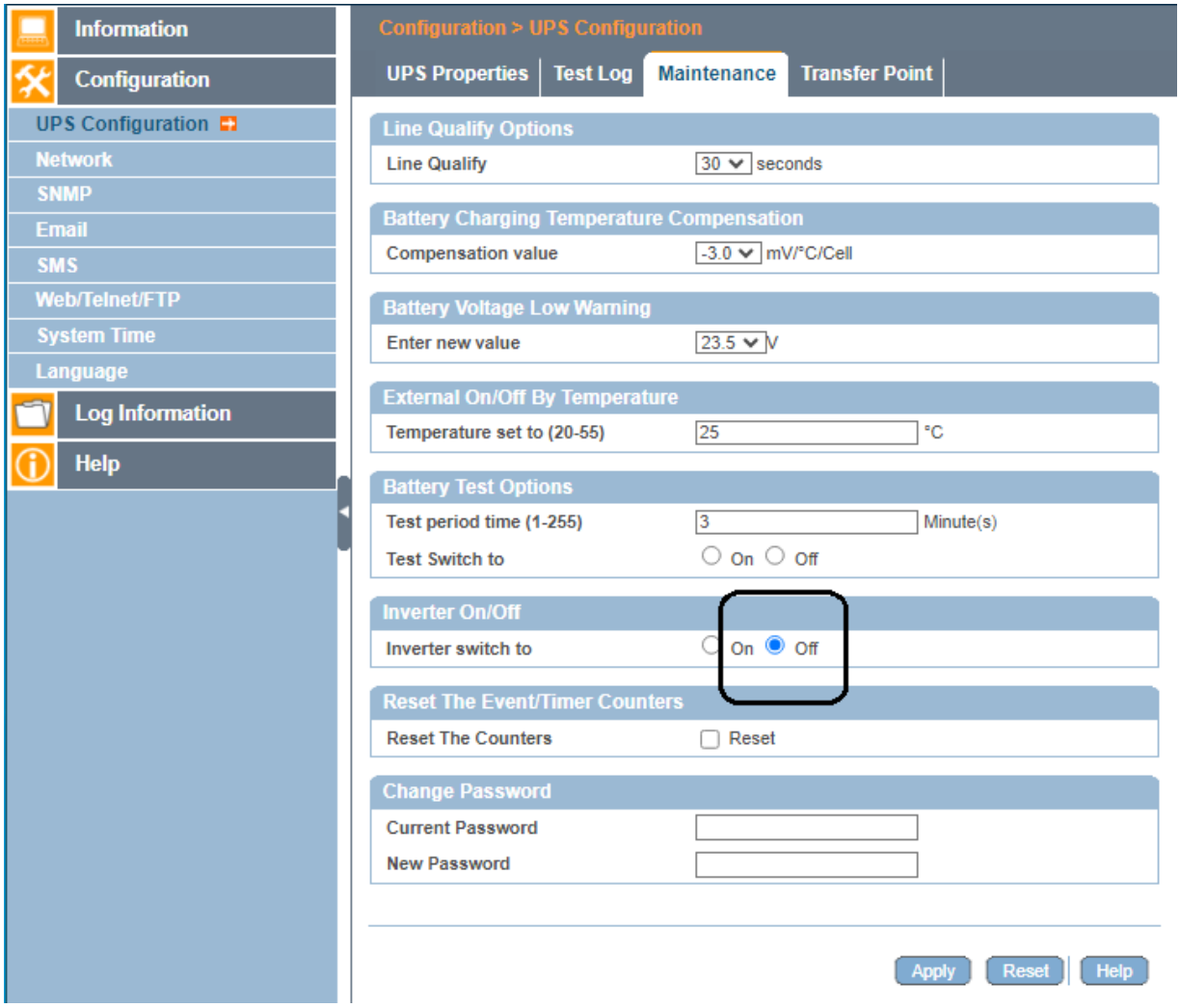


Figure 60

Email Notifications Sent as SMS Notifications

If your cell phone service provider supports email to SMS, you may receive event notifications on your cell phone. First, check with your provider and test that you receive SMS emails on your system. Below are the most common cell service providers and their email-to-SMS address format.

Provider	***Email-to-SMS Address Format***
AT&T	*number@txt.att.net (SMS)* *number@mms.att.net (MMS)*
Boost Mobile	*number@smsmyboostmobile.com (SMS)* *number@myboostmobile.com (MMS)*
Cricket	*number@sms.cricketwireless.net (SMS)* *number@mms.cricketwireless.net (MMS)*
Sprint	*number@messaging.sprintpcs.com (SMS)* *number@pm.sprint.com (MMS)*
T-Mobile	*number@tmomail.net (SMS and MMS)*
US Cellular	*number@email.uscc.net (SMS)* *number@mms.uscc.net (MMS)*
Verizon	*number@vtext.com (SMS)* *number@vzwpix.com (MMS)*
Virgin Mobile	*number@vmobl.com (SMS)* *number@vmpix.com (MMS)*

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