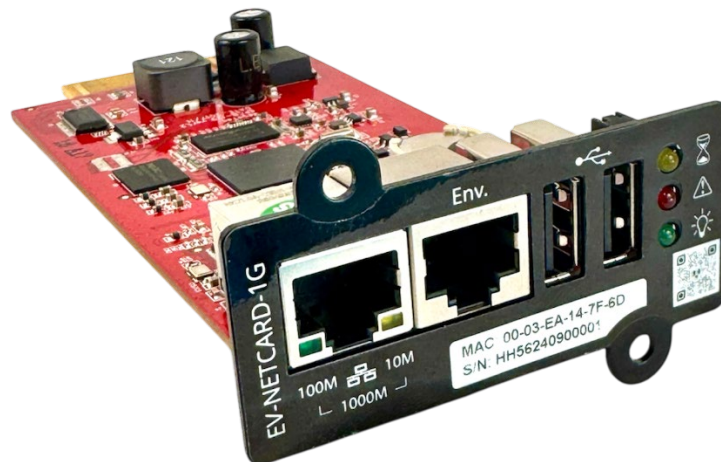


Envision Netcard

EV-NETCARD-1G
EV-NETCARD-1GEXR

User's Manual



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Chapter 1: INTRODUCTION

1.1 Features

The Envision EV-NETCARD-1G and EV-NETCARD-1GEXR, (EV-NETCARD), is a SNMP (Simple Network Management Protocol) card for monitoring and management of Minuteman UPS products. The EV-NETCARD provides remote control of UPS as well as monitoring of its current status. It can also support connections to a compatible modem for sending SMS notification. The EV-NETCARD is compatible with the EV-PROBE-TH and its sensors for monitoring ambient temperature, humidity and water status. The EV-NETCARD is simple to install. Follow the directions found in the Quick Install Guide, included with your purchase. It can also be download from the Minuteman website at: <https://minutemanups.com/resource-library> or use the QR Code below:



For the installation of multiple EV-NETCARD cards, Minuteman offers its Envision Utility software to configure IP addresses and set up configurations for central monitoring and multiple shutdowns on different operating system platforms. The Envision Utility can be downloaded from <https://minutemanups.com/resource-library>. Once installed, each card can be configured with advance options and settings via the Web browser interface.

Features:

- (1) Provides the SNMP MIB to monitor & control UPS using any standard Network Management System, (NMS)
- (2) Auto-sense 10M/100M/1000M Fast Ethernet or 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) Provides easy setup and upgrade tools
- (6) Send SNMP TRAP; E-mail and SMS for events notifications.
- (7) Auto email daily UPS history report
- (8) Perform graceful shutdown of networked devices with our Minuteman software
- (9) Add-on optional EV-PROBE-TH for temperature, humidity monitoring and alarms. Optional, water, smoke and contact sensors are also available
- (10) Can be used with an optional, third-party WiFi dongle add-on for wireless network access
- (11) SMS notification capability using optional, third-party GPRS modem add-on

1.2 Applications

■ EV-NETCARD allows UPS to be monitored over a network

When the EV-NETCARD is installed in a UPS, the IT/Network Manager can monitor each and every UPS condition via a networked computer using an industry-standard Web Browser or NMS.

Using a standard Web Browser, simply type the IP address of the EV-NETCARD card into the URL field to access the User Interface of the card. When integrated into an NMS, the EV-NETCARD will issue a trap alarm when an abnormal power abnormal condition occurs. Management Information Base, (MIB), and Object information Database, (OID), files used for integrating the EV-NETCARD card into a SNMP network can be found, and downloaded, from the Minuteman website at: <https://minutemanups.com/resource-library>

■ Envision Provides Shutdown Utilities

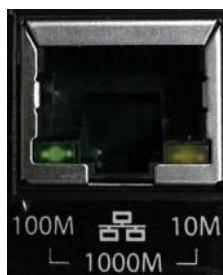
During an AC failure event, or when a UPS is in a Low-battery condition, the Envision software, when loaded on a networked computer that is connected to the EV-NETCARD card, can be configured to save and close all open files and applications before gracefully shutting down the operating system and powering off the computer. This feature can be critical in avoiding system corruption when a power anomaly occurs.

■ EV-NETCARD for Environmental Monitoring

The EV-NETCARD card, with its USB ports, can be connected to an optional environmental sensor/hub, the EV-PROBE-TH, to provide ambient temperature/humidity/smoke/fire alarms. These alarms can also be received on the Envision web page. When used with an NMS, and an abnormal condition happens, an alarm trap can be sent to the IT/Network Manager.

Chapter 2: EV-NETCARD CARD

2.1 EV-NETCARD LED Indicators



Green	
On	Flashing
100 Mbps	Sending/Receiving Data

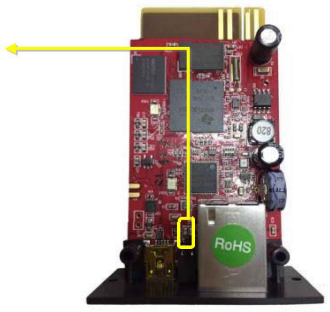
Yellow	
On	Flashing
10 Mbps	Sending/Receiving Data

When Green and Yellow LED are both ON, the card is operating in 1000M mode



Status	Power On	Communication Lost	Updating Firmware
Yellow 	ON	ON	OFF
SNMP-XX-X			
Red 	OFF	Flashing	Flashing
UPS Communication			
Green 	ON	ON	ON
Power			

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



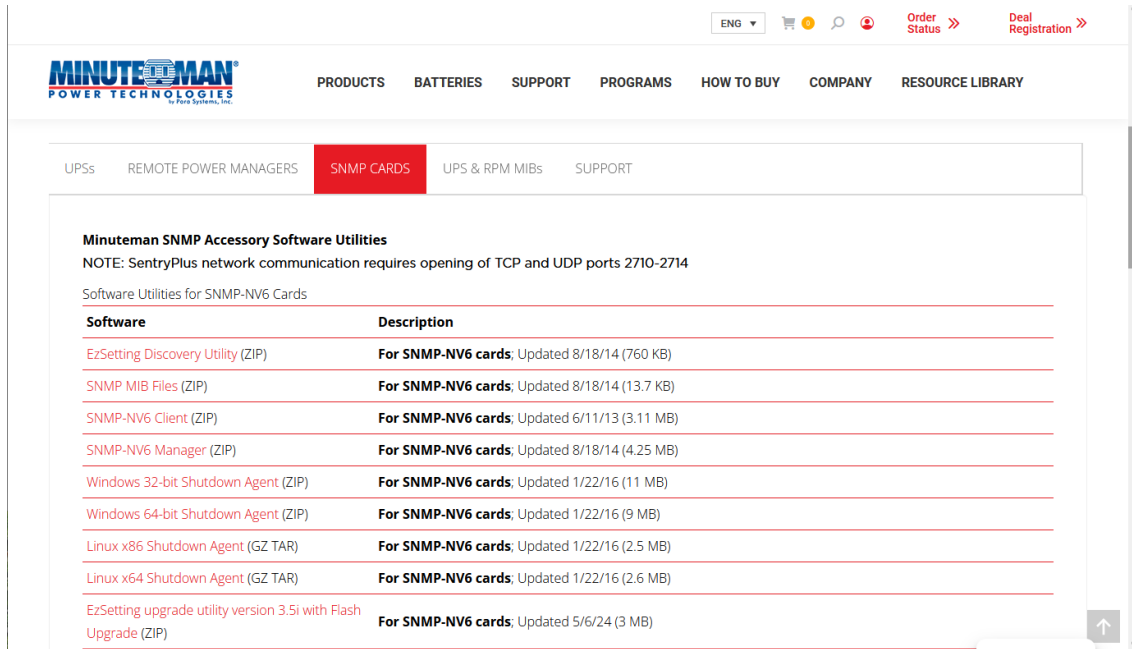
NOTE : When the RED LED is flashing, the card is updating firmware. DO NOT remove power until the update is complete.

Chapter 3: Software Installation

3.1 Envision Software Installation

■ Free download

The Envision installation utility software is available, free of charge, from the minuteman.com Resource Library. Go to: <https://minutemanups.com/resource-library> and choose the **Network Accessories & Software** tab from the menu options. Select: **Envision Utility Software** and follow the download instructions



Chapter 4: ENVISION OPERATION AND SETTINGS

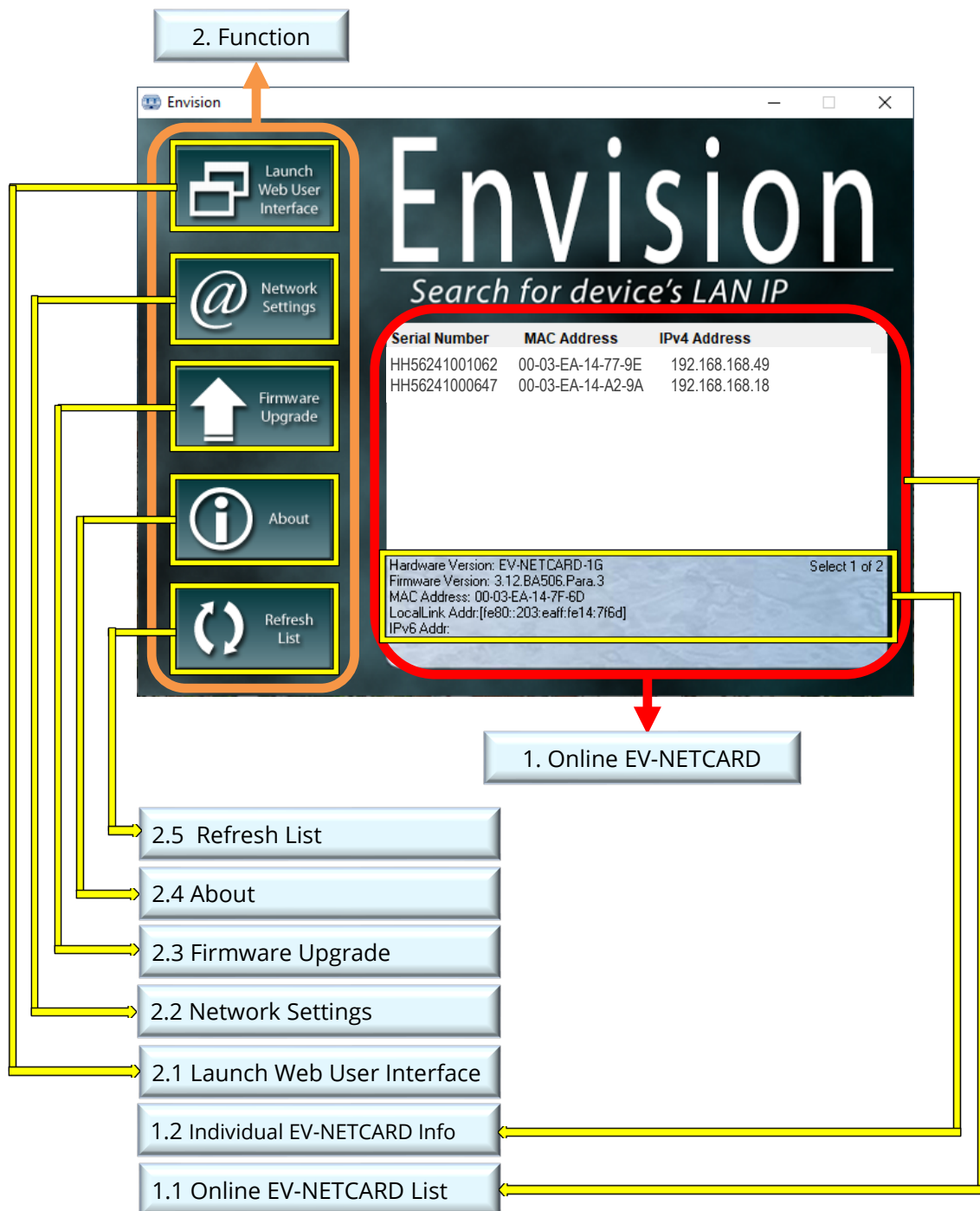
■ Introduction

Once the Envision utility is installed and running, it can be used to discover, access and provide firmware updates to all the EV-NETCARD cards on the connected network.

The Envision utility main page is divided into 2 sections:

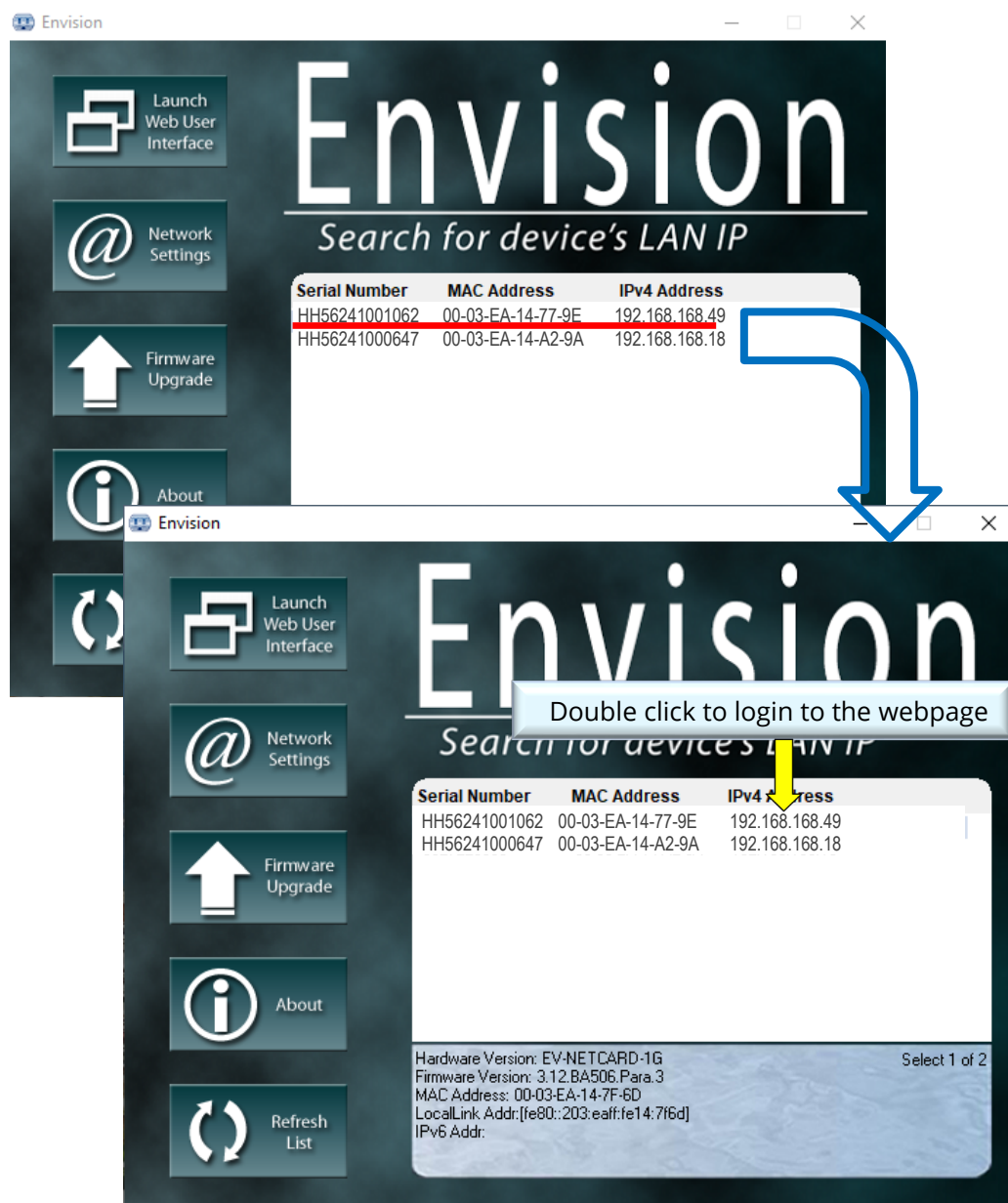
1. Online EV-NETCARD List

2. Function Selection



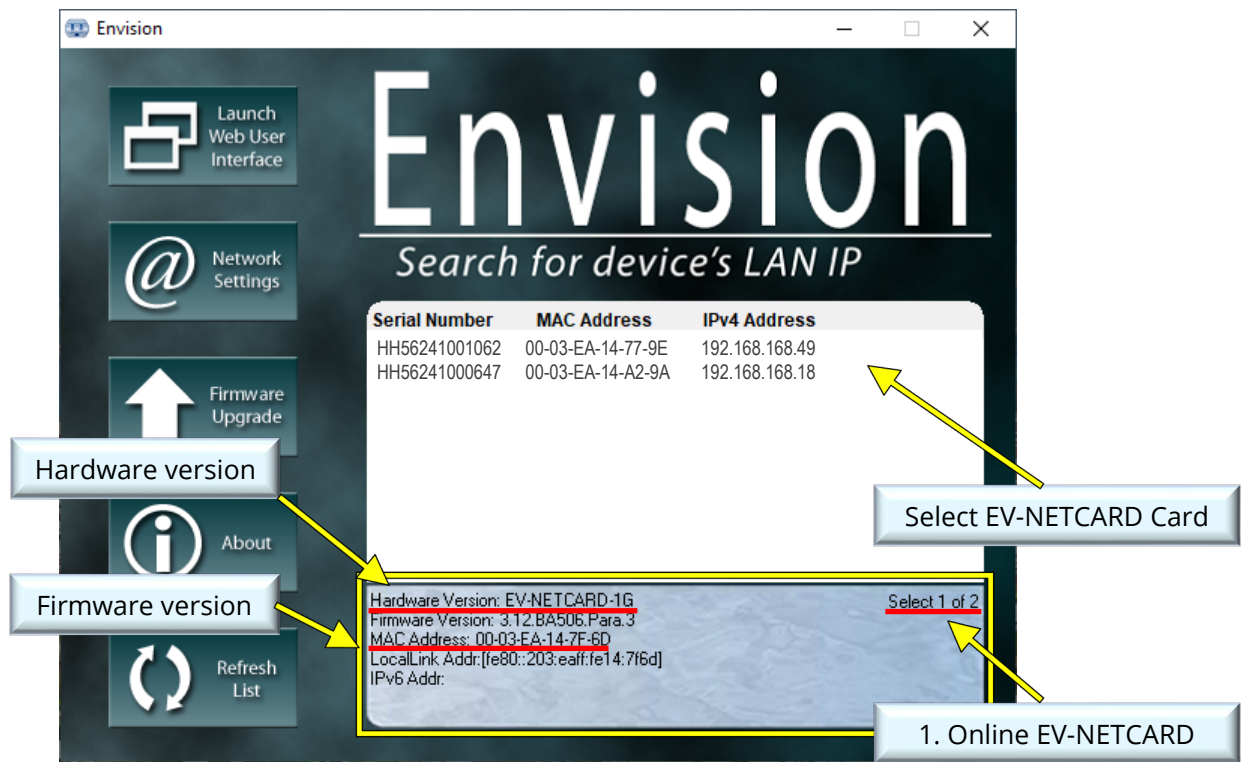
4.1 Online EV-NETCARD Discovery

When the Envision utility software is opened, it automatically searches all the available online EV-NETCARD cards within the network, displaying the serial number, IP address, MAC address. Double click on the specific EV-NETCARD card with a valid IP address and it will open that card's webpage. (The list automatically refreshes every 2 minutes.)



■ Individual EV-NETCARD Info

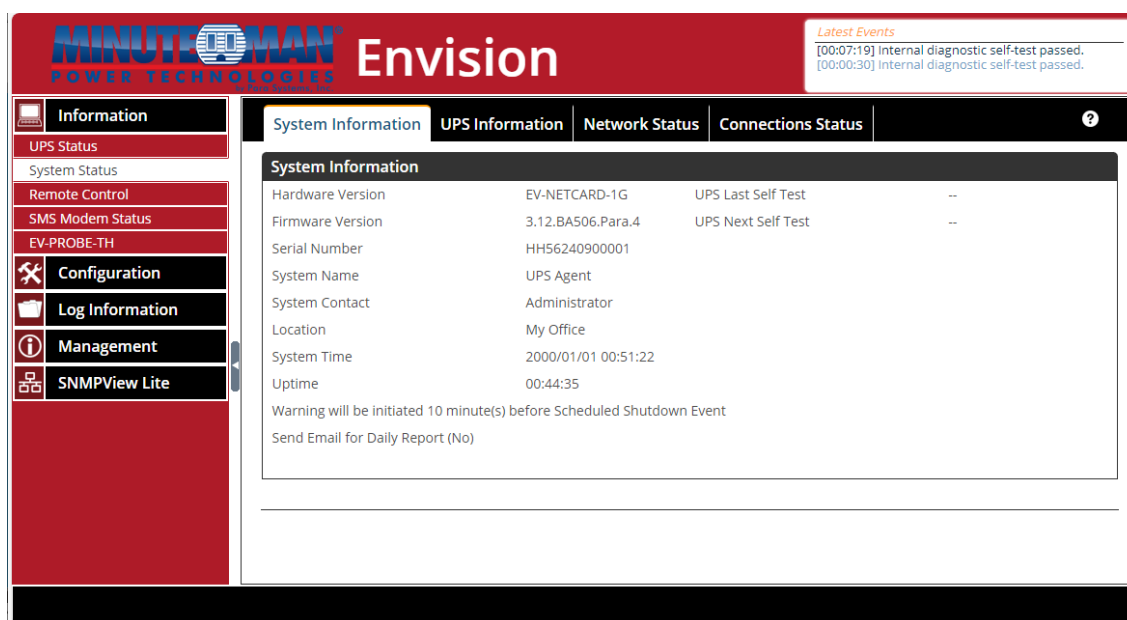
Click on any specific EV-NETCARD card and the bottom section will show its hardware and firmware version as well as the MAC address. It also identifies the total number of EV-NETCARD cards found by Envision on the network and number of selected cards.



■ Launch Web User Interface

Select the specific EV-NETCARD card from the list and click on Launch Web User Interface to login to the EV-NETCARD card's webpage.





■ Network Settings

When connecting the EV-NETCARD card for the first time, ensure the IP-address and other network settings are entered correctly in order to login to the EV-NETCARD card's webpage via a web browser or HyperTerminal.

When choosing to obtain IP address by DHCP or BOOTP, the IP address and other network parameters will be assigned by the network

EV-NETCARD supports four network protocols - HTTP / HTTPS / TELNET / SSH for management and security preferences. If any changes are made to the port number, entering the full IP address with the new port number will be required in order to login.

- Example: HTTP port number is changed to 81
The full address entered on the browser should be "http://192.168.1.100:81" (192.168.1.100 is the IP address of the EV-NETCARD)
- Example: The Telnet port number is changed to 24
The full address entered on HyperTerminal should be "http:// 192.168.1.100 24" (192.168.1.100 is the IP address of the EV-NETCARD)

4.2 Envision Login Procedure

When using a password to access the EV-NETCARD is enabled, it is necessary to enter the correct password before making any configuration changes and firmware upgrades.

Envision
Search for device's LAN IP

Serial Number	MAC Address	IPv4 Address
HH56241001062	00-03-EA-14-77-9E	192.168.168.49
HH56241000647	00-03-EA-14-A2-9A	192.168.168.18

Network Settings

Address Configuration

- ☒ Obtain IP address by DHCP
- ☐ Obtain IP address by BOOTP
- ☐ Use following Static IP address

IP Address

IP Address: 192 . 168 . 168 . 18

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 168 . 1

Network Settings

Management Protocol

- ☒ Enable HTTP Function
HTTP port number (1-65534): 80
- ☒ Enable HTTPS Function
HTTPS port number (1-65534): 443
- ☒ Enable Telnet Function
Telnet port number (1-65534): 23
- ☐ Enable SSH Function
SSH port number (1-65534): 22

1. Select an EV-NETCARD card

2. Click on Network Settings

Select to obtain IP address by DHCP

Select to set a static IP address

Information required for assigning a Static IP address

Default port for each protocol

Network Settings

IPv4 Address | IPv6 Address | Advanced | **Password**

Device Password

☒ **Enable password setting**

New password:

Confirm password:

OK Cancel

Enter password

Once a password is enabled, it will be required when changing any settings or updating firmware.

Password Input

Envision password:

OK Cancel

Envision
Search for device's LAN IP

Serial Number	MAC Address	IPv4 Address
HH56241001062	00-03-EA-14-77-9E	192.168.168.49
HH56241000647	00-03-EA-14-A2-9A	192.168.168.18

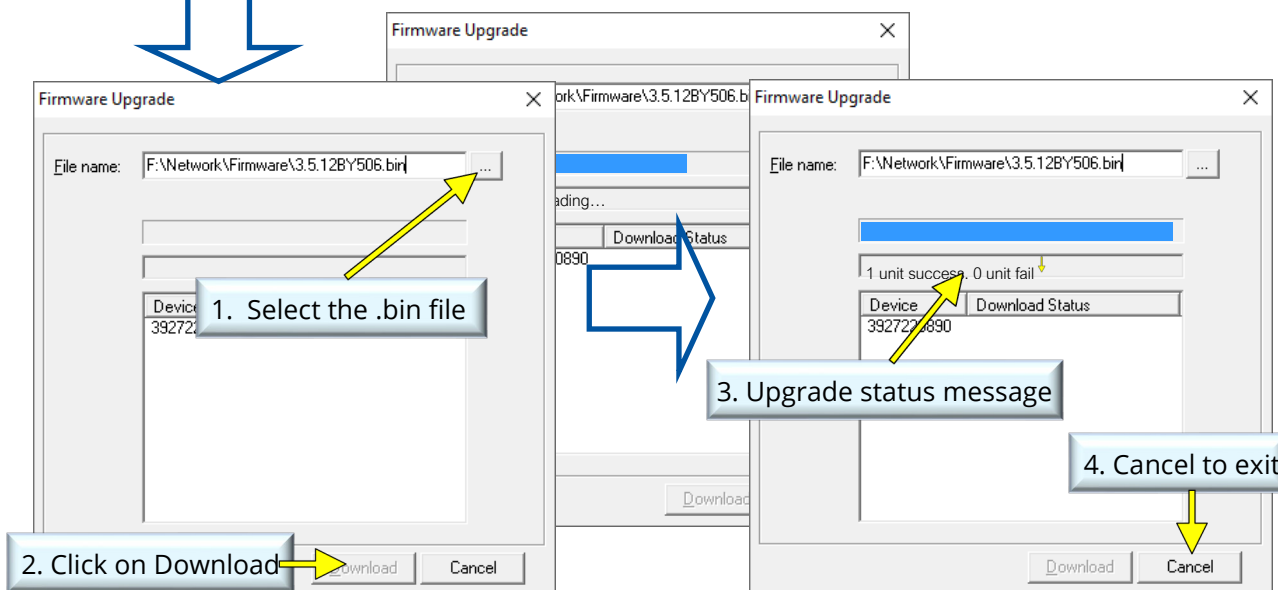
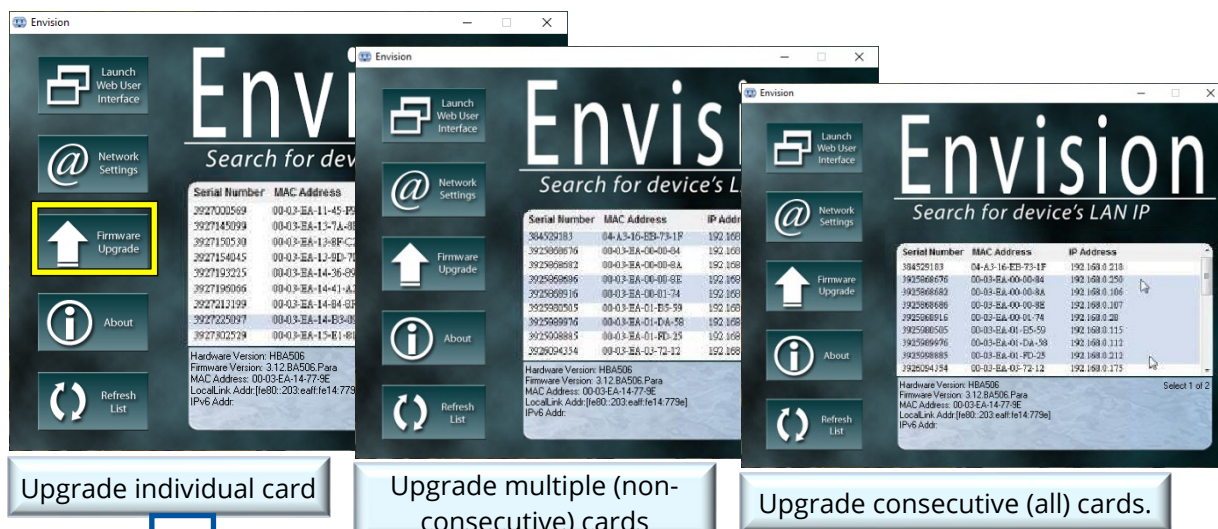
Hardware Version: EV-NETCARD-1G
Firmware Version: 3.12.BA506.Para.3
MAC Address: 00-03-EA-14-7F-6D
LocalLink Addr:[fe80::203:eaff:fe14:7f6d]
IPv6 Addr:

Select 1 of 2

Launch Web User Interface
Network Settings
Firmware Upgrade
About
Refresh List

4.3 Firmware Upgrade

- To check for the latest available version of the EV-NETCARD firmware, go to <https://minutemanups.com/resource-library> and look under the **Network Accessories & Software** section. Verify the selected firmware is for the EV-NETCARD and is compatible with the hardware version of the card.
- Options for updating the firmware of the EV-NETCARD:
 - (1) Select the specific EV-NETCARD card from the Envision utility list.
 - (2) Press and hold the CTRL key then select multiple EV-NETCARD cards from the list. This option will allow the upgrading of multiple cards at the same time.
 - (3) Select the first EV-NETCARD card from the Envision utility list, then press and hold on SHIFT key before selecting the last of the EV-NETCARD cards from the list. This option will allow the upgrading of all the EV-NETCARD cards from the list.
- ★ **WARNING:** Please make sure when selecting multiple EV-NETCARD cards, they are same model.
- ★ **WARNING:** If there are any failures during firmware upgrade process, restart the process from the beginning until the entire upgrade is successful.
- During the upgrade process, either the red and yellow LED will alternately flash, or red LED will only flash. DO NOT remove power or the network connection to the EV-NETCARD card until the firmware is successfully upgraded. When the upgrade is complete, the EV-NETCARD card will reboot automatically.



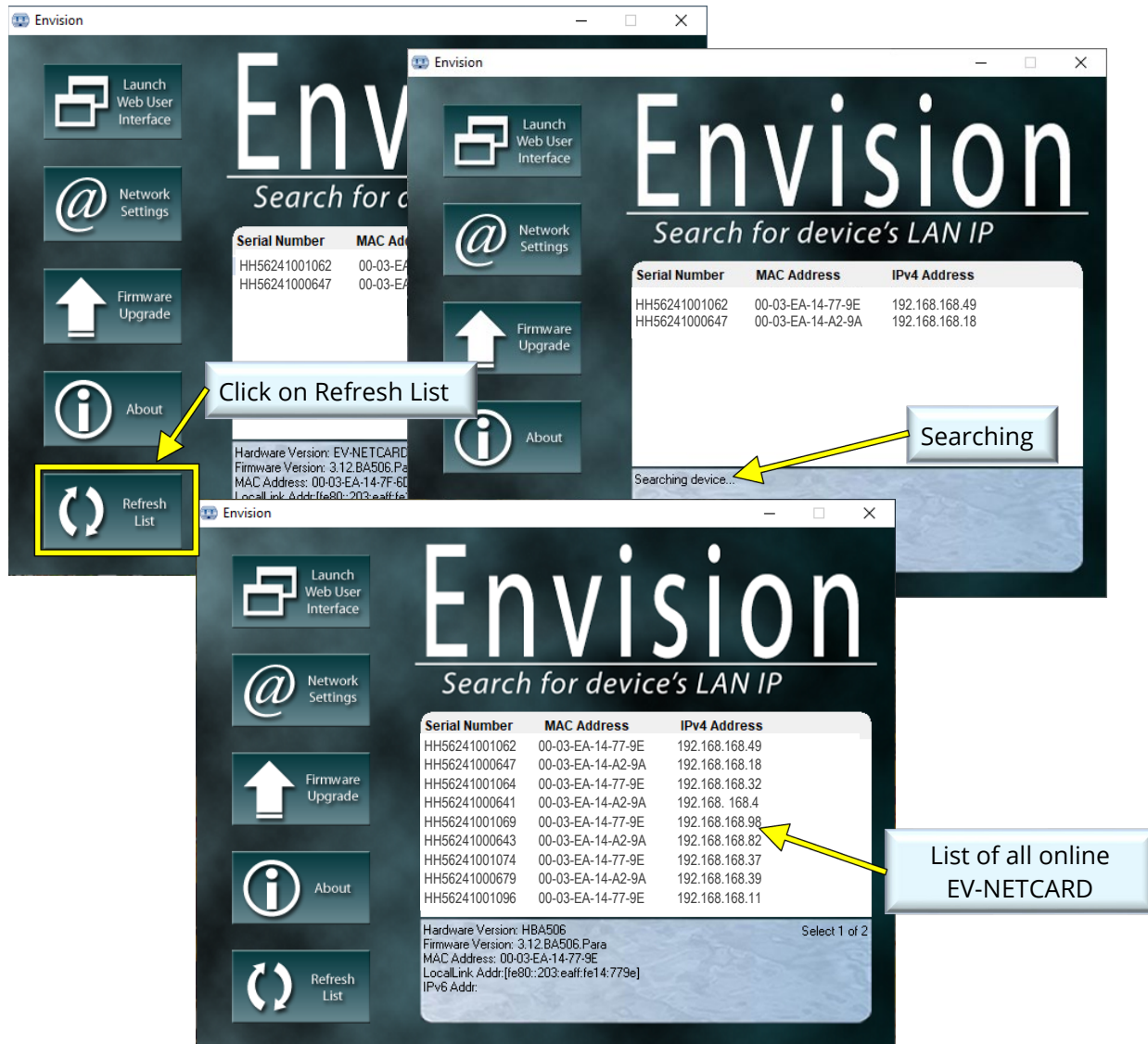
■ About

Shows the current Envision utility version



■ Refresh List

The list of EV-NETCARD cards found by the Envision utility will automatically refresh every two minutes. However, it is also possible to manually refresh the list by selecting the Refresh List icon.

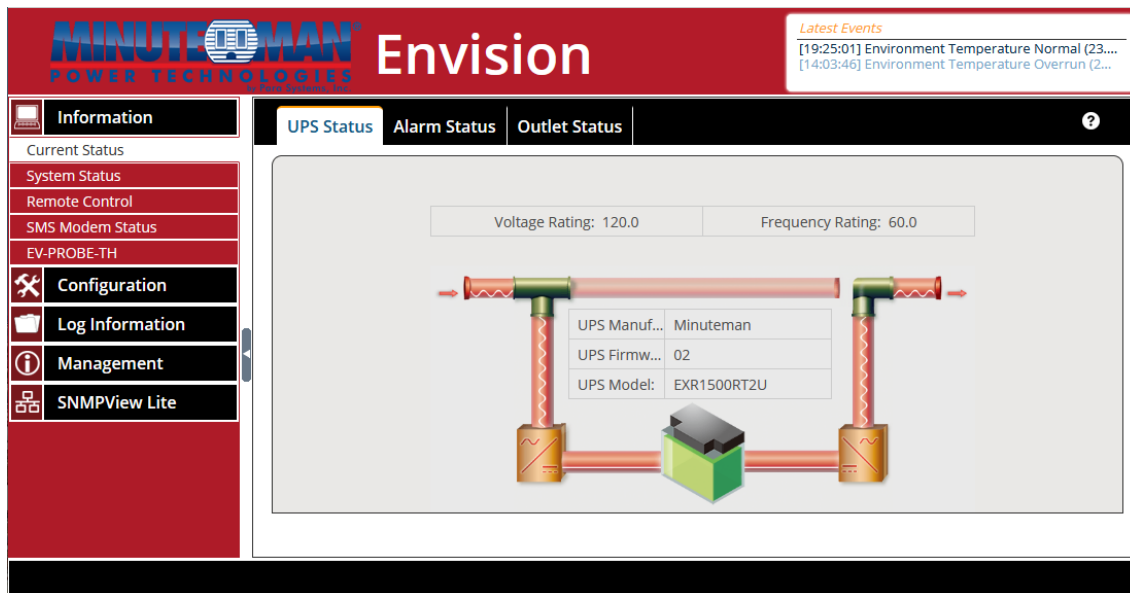


4.4 EV-NETCARD Web Interface & Settings

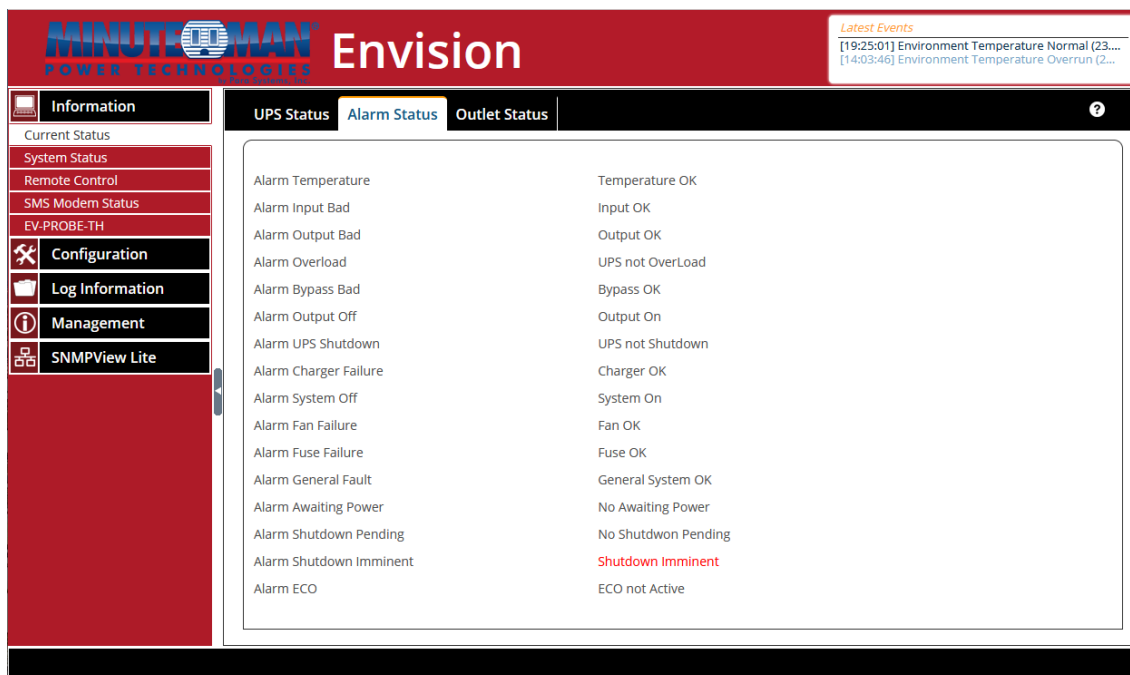
4.4.1 Information

■ Current Status

- **UPS Status** - This page provides the current UPS connection status in graphic mode with Voltage, Frequency and other information.



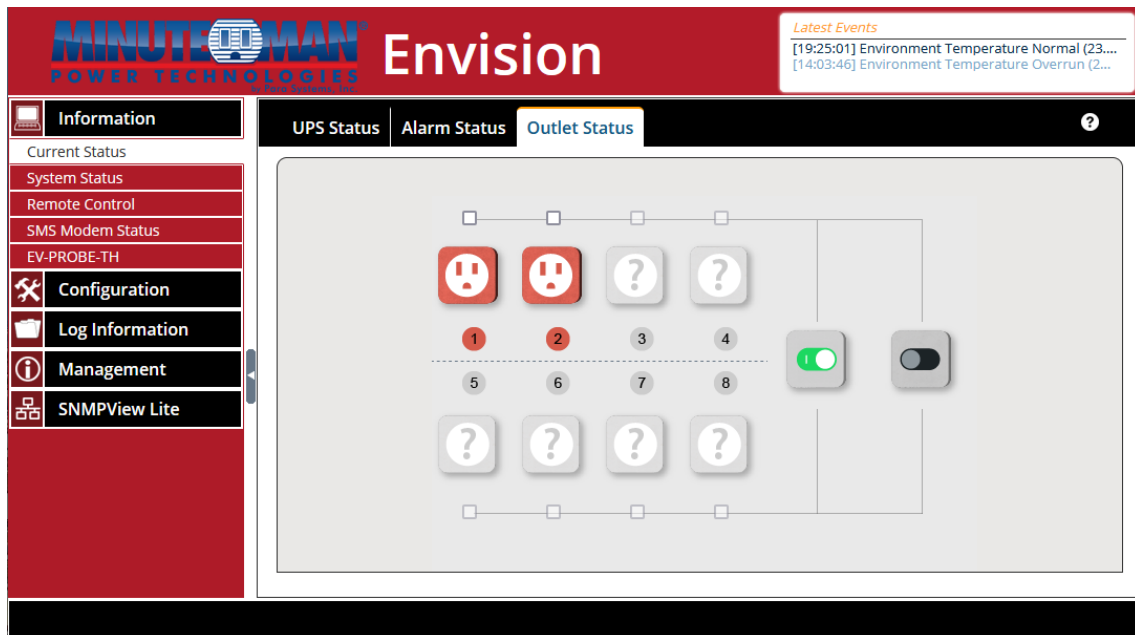
- **Alarm Status** - The Alarm Status page offers a current status of the various active alarm monitoring.



- **Outlet Status** - The Outlet Status page provides the current operational condition of the output receptacles, (or receptacle banks), on the UPS. In addition, this screen can be used for the management and control of those receptacles (banks) on the back panel of the UPS. Non-controllable receptacles will be grayed out with "?" icon in the center.
 - Individual Receptacle (Bank) Control: Select any individual receptacle and click on the green switch icon to turn on the receptacle (bank) or on the black switch icon to turn off the receptacle (bank). If powered off, the receptacle will change color from red to gray. If

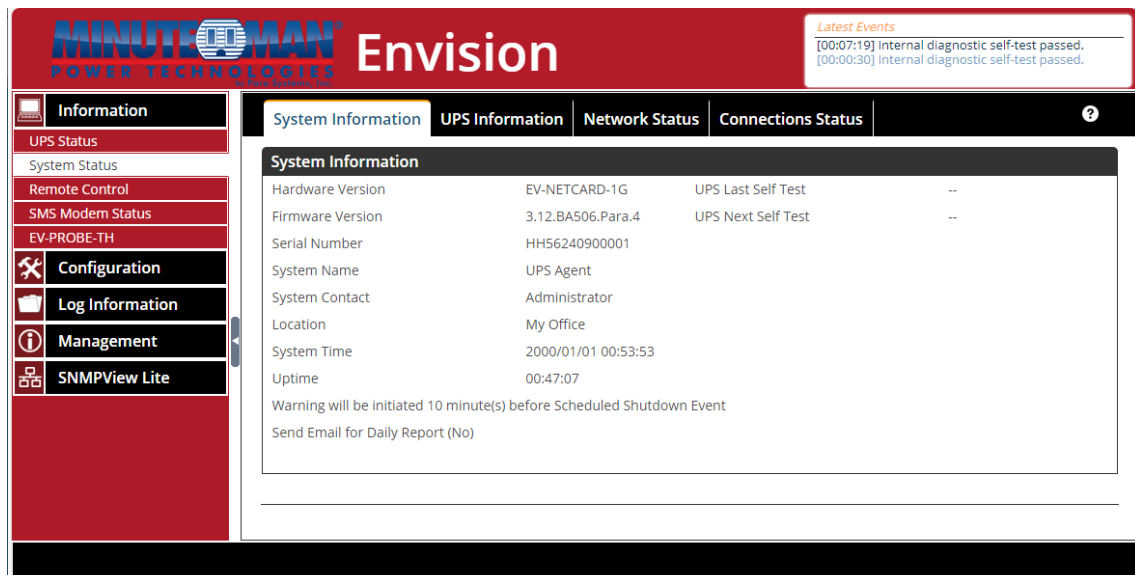
powered on, the receptacle color will from gray to red.

- Group Receptacle (Bank) Control: To control more than one receptacle (bank) simultaneously, select each intended outlet icon, then press either the green or black switch icon to turn the group On or Off.

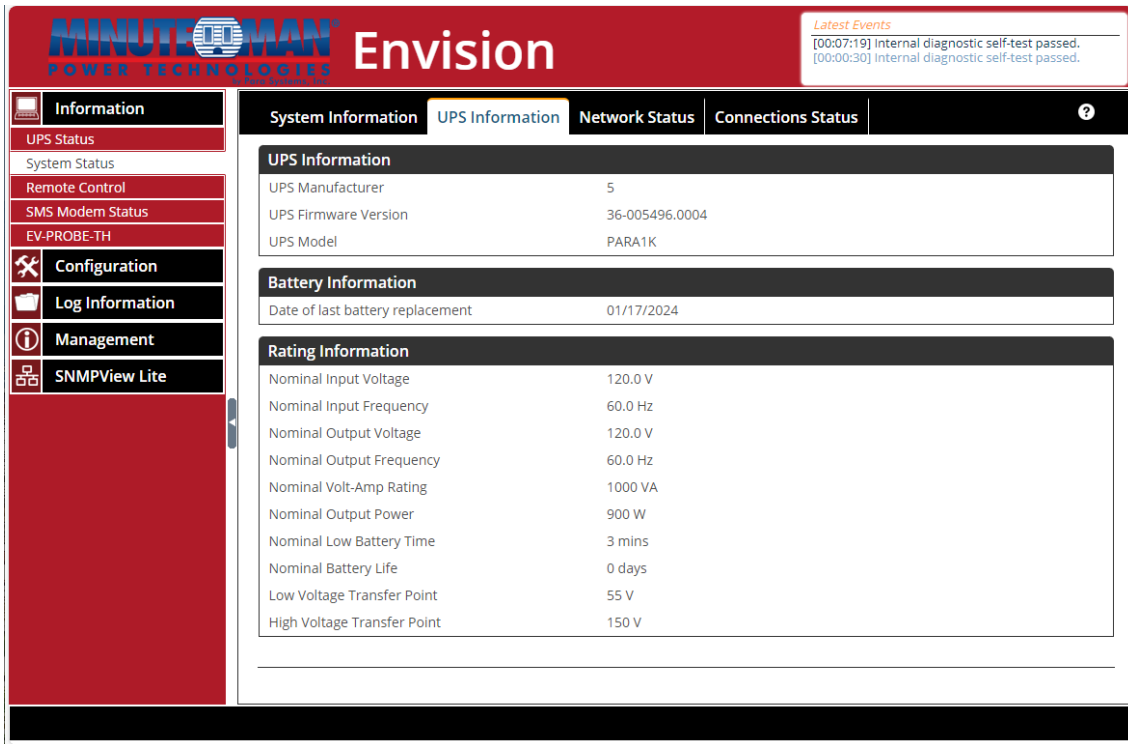


■ System Status

- **System Information** - The System Information screen provides all the basic information for the EV-NETCARD such as hardware and firmware versions, Serial Number, UPS/card location, testing schedule, etc.



- **UPS Information** - The UPS Information page shows UPS and Battery Information. This data is obtained directly from the UPS or the settings from the UPS Configuration webpage



The screenshot shows the Envision web interface with the 'UPS Information' tab selected. The left sidebar contains navigation links: Information, Configuration, Log Information, Management, and SNMPView Lite. The main content area displays the following information:

UPS Information

UPS Manufacturer	5
UPS Firmware Version	36-005496.0004
UPS Model	PARA1K

Battery Information

Date of last battery replacement	01/17/2024
----------------------------------	------------

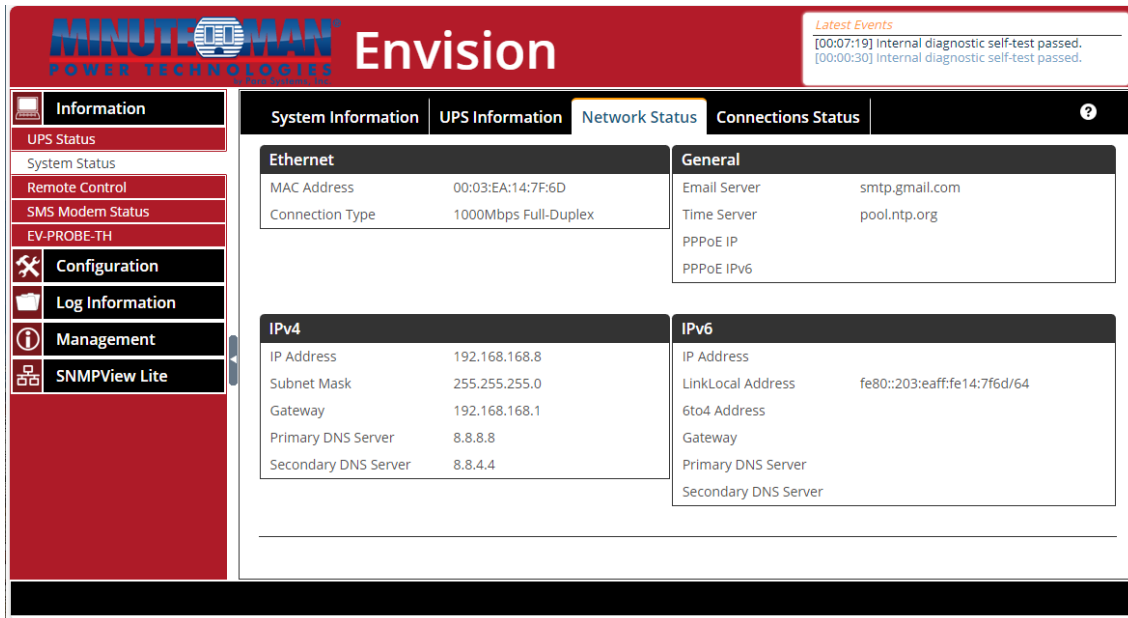
Rating Information

Nominal Input Voltage	120.0 V
Nominal Input Frequency	60.0 Hz
Nominal Output Voltage	120.0 V
Nominal Output Frequency	60.0 Hz
Nominal Volt-Amp Rating	1000 VA
Nominal Output Power	900 W
Nominal Low Battery Time	3 mins
Nominal Battery Life	0 days
Low Voltage Transfer Point	55 V
High Voltage Transfer Point	150 V

Latest Events

- [00:07:19] Internal diagnostic self-test passed.
- [00:00:30] Internal diagnostic self-test passed.

- **Network Status** - The Network Status page provides the network address information of active EV-NETCARD card.



The screenshot shows the Envision web interface with the 'Network Status' tab selected. The left sidebar contains navigation links: Information, Configuration, Log Information, Management, and SNMPView Lite. The main content area displays the following information:

Ethernet

MAC Address	00:03:EA:14:7F:6D
Connection Type	1000Mbps Full-Duplex

General

Email Server	smtp.gmail.com
Time Server	pool.ntp.org
PPPoE IP	
PPPoE IPv6	

IPv4

IP Address	192.168.168.8
Subnet Mask	255.255.255.0
Gateway	192.168.168.1
Primary DNS Server	8.8.8.8
Secondary DNS Server	8.8.4.4

IPv6

IP Address	
LinkLocal Address	fe80::203:eaff:fe14:7f6d/64
6to4 Address	
Gateway	
Primary DNS Server	
Secondary DNS Server	

Latest Events

- [00:07:19] Internal diagnostic self-test passed.
- [00:00:30] Internal diagnostic self-test passed.

- **Connection Status** - The Connection Status page a log connection events for the various communication protocols on the active EV-NETCARD card.

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Information

- UPS Status
- System Status
- Remote Control
- SMS Modem Status
- EV-PROBE-TH
- Configuration
- Log Information
- Management
- SNMPView Lite

System Information | **UPS Information** | **Network Status** | **Connections Status** | ?

Latest Events
[00:07:19] Internal diagnostic self-test passed.
[00:00:30] Internal diagnostic self-test passed.

HTTP/HTTPS

[2000/01/01 01:00:02] ::ffff:192.168.168.180 login
[2000/01/01 00:59:51] ::ffff:192.168.168.180 logout
[2000/01/01 00:59:02] ::ffff:192.168.168.180 login
[2000/01/01 00:58:51] ::ffff:192.168.168.180 logout
[2000/01/01 00:58:02] ::ffff:192.168.168.180 login
[2000/01/01 00:57:52] ::ffff:192.168.168.180 logout
[2000/01/01 00:57:02] ::ffff:192.168.168.180 login
[2000/01/01 00:56:51] ::ffff:192.168.168.180 logout

TELNET/SSH

There is no latest data.

FTP/FTPS

There is no latest data.

Modbus

There is no latest data.

SNMP

[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.2.1.1.4.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.4.1.935.1.1.1.3.2.1.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.4.1.935.1.1.1.5.2.1.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.2.1.1.4.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.4.1.935.1.1.1.3.2.1.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.2.1.1.4.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.4.1.935.1.1.1.3.2.1.0
[1970/01/01 00:00:01] [192.168.168.8]:51361 .6.1.4.1.935.1.1.1.5.2.1.0

- **Wireless Status** - The Wireless Status page will appear when a Wi-Fi dongle is attached to the EV-NETCARD card. It will provide the details of the network configuration information for the attached dongle.

MINUTEMAN POWER TECHNOLOGIES Envision

Information

- UPS Status
- System Status
- Remote Control
- SMS Modem Status
- EV-PROBE-TH
- Configuration
- Log Information
- Management
- SNMPView Lite

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

Latest Events
[15:08:24] Internal diagnostic self-test passed.

Ethernet

MAC Address	F0:09:0D:0D:91:2C
-------------	-------------------

General

Primary DNS Server
Secondary DNS Server

IPv4

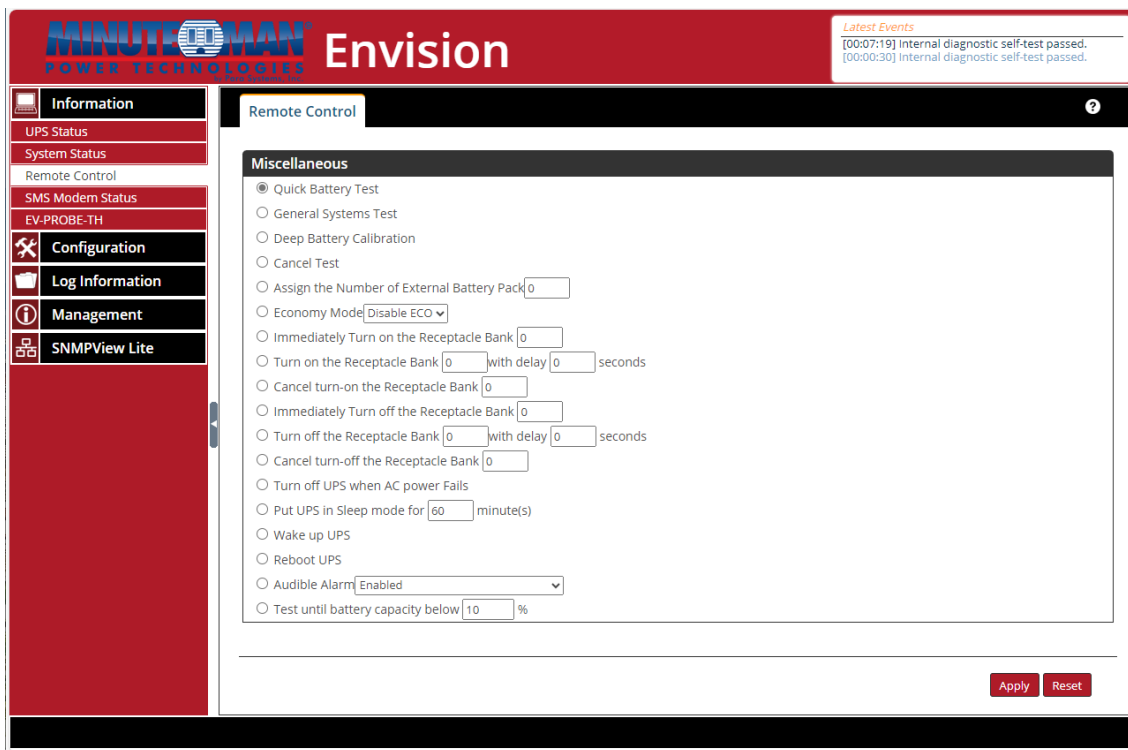
IP Address
Subnet Mask
Gateway

IPv6

IP Address
LinkLocal Address
Gateway

■ Remote Control

The Remote Control page can be used to remotely perform a variety of tests to the UPS. Select the test to be performed and then click on the Apply icon to execute it.



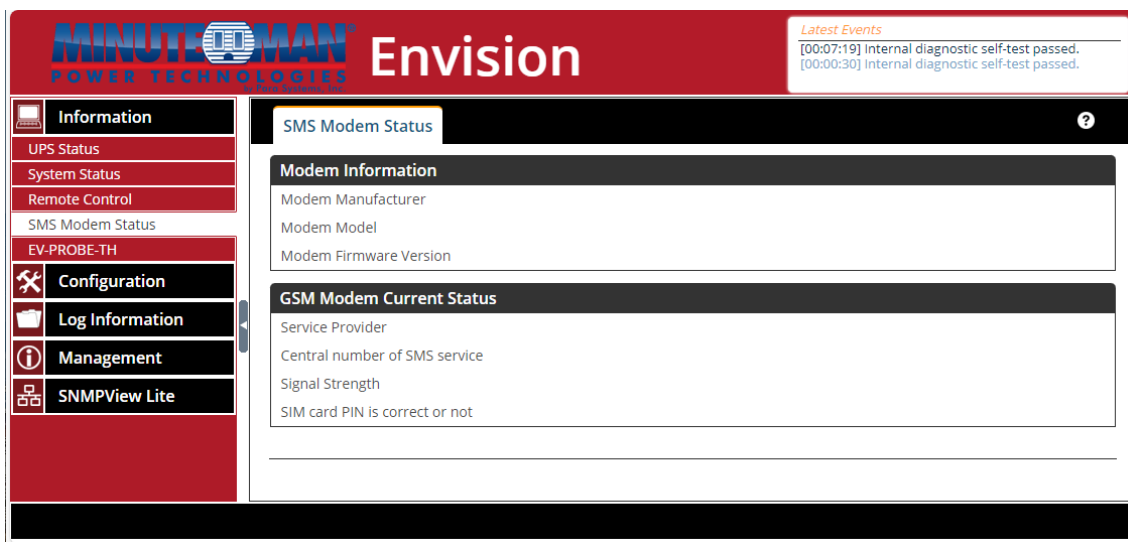
The screenshot shows the Envision web interface. The left sidebar contains a menu with the following items: Information, UPS Status, System Status, Remote Control, SMS Modem Status, EV-PROBE-TH, Configuration, Log Information, Management, and SNMPView Lite. The main content area is titled 'Remote Control' and features a 'Miscellaneous' section with the following options:

- ☒ Quick Battery Test
- ☐ General Systems Test
- ☐ Deep Battery Calibration
- ☐ Cancel Test
- ☐ Assign the Number of External Battery Pack
- ☐ Economy Mode
- ☐ Immediately Turn on the Receptacle Bank
- ☐ Turn on the Receptacle Bank with delay seconds
- ☐ Cancel turn-on the Receptacle Bank
- ☐ Immediately Turn off the Receptacle Bank
- ☐ Turn off the Receptacle Bank with delay seconds
- ☐ Cancel turn-off the Receptacle Bank
- ☐ Turn off UPS when AC power Fails
- ☐ Put UPS in Sleep mode for minute(s)
- ☐ Wake up UPS
- ☐ Reboot UPS
- ☐ Audible Alarm
- ☐ Test until battery capacity below %

At the bottom right of the main content area, there are 'Apply' and 'Reset' buttons. The top right corner of the interface displays 'Latest Events' with two entries: '[00:07:19] Internal diagnostic self-test passed.' and '[00:00:30] Internal diagnostic self-test passed.'

■ SMS Modem Status

When the EV-NETCARD connected to an optional SMS modem, this status page will provide the details of the Modem and its connection status.



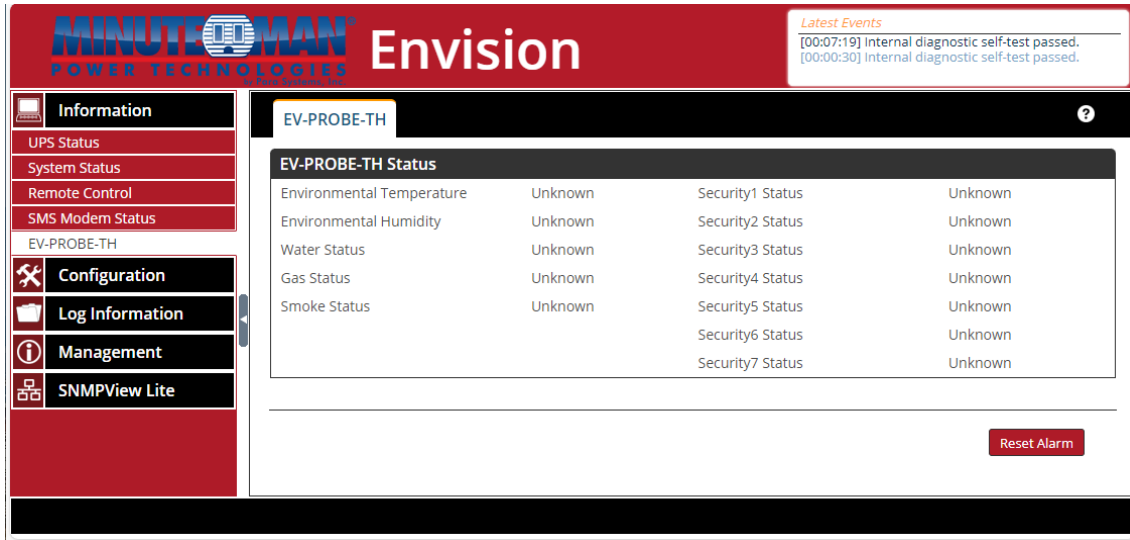
The screenshot shows the Envision web interface with the 'SMS Modem Status' page selected. The left sidebar menu is the same as in the previous screenshot. The main content area is titled 'SMS Modem Status' and contains two sections:

- Modem Information**
 - Modem Manufacturer
 - Modem Model
 - Modem Firmware Version
- GSM Modem Current Status**
 - Service Provider
 - Central number of SMS service
 - Signal Strength
 - SIM card PIN is correct or not

The top right corner of the interface displays 'Latest Events' with two entries: '[00:07:19] Internal diagnostic self-test passed.' and '[00:00:30] Internal diagnostic self-test passed.'

■ EV-PROBE-TH

This page shows the environmental status of the location where the EV-PROBE-TH is installed. It will also include status information for any attached sensors that are connected EV-PROBE-TH and the EV-NETCARD.



The screenshot shows the Envision software interface. The top header is red with the Minuteman Power Technologies logo and the word "Envision". A "Latest Events" box in the top right corner shows two events: "[00:07:19] Internal diagnostic self-test passed." and "[00:00:30] Internal diagnostic self-test passed." The left sidebar contains a menu with options: Information, UPS Status, System Status, Remote Control, SMS Modem Status, EV-PROBE-TH (selected), Configuration, Log Information, Management, and SNMPView Lite. The main content area is titled "EV-PROBE-TH" and displays the "EV-PROBE-TH Status" table.

EV-PROBE-TH Status			
Environmental Temperature	Unknown	Security1 Status	Unknown
Environmental Humidity	Unknown	Security2 Status	Unknown
Water Status	Unknown	Security3 Status	Unknown
Gas Status	Unknown	Security4 Status	Unknown
Smoke Status	Unknown	Security5 Status	Unknown
		Security6 Status	Unknown
		Security7 Status	Unknown

At the bottom right of the main content area, there is a "Reset Alarm" button.

4.4.2 Configuration

■ UPS Configuration

- **UPS Properties (Please refer to your UPS specification)** - The default values listed on the Configuration>UPS page are reported from the connected UPS. **WARNING:** Any changes made to these values will affect the alarm reporting status of the Envision software.
 - UPS Communication Type: In order to establish the connection between EV-NETCARD and your Minuteman UPS model, confirm the UPS Communication Type is set to: **Minuteman**.
If the EV-NETCARD card does not recognize the attached UPS, contact Minuteman support at: support@minutemanups.com for assistance.
 - Date of Last Battery Replacement: The default date should be the original date of manufacture for the UPS. When replacing batteries, enter the date the new batteries are installed, using the format: mm/dd/yyyy
 - Nominal Input Voltage (V): Displays the default alarm threshold for the nominal input utility voltage standard used by the UPS and its connected equipment. (120V, 208V, 220V, 230V or 240V). To change the alarm setting, enter a new value in the field and confirm by pressing "Apply"
 - Nominal Input Frequency (Hz): Displays the default alarm threshold for the nominal input utility frequency standard used by the UPS and its connected equipment. (50Hz or 60Hz). To change the alarm setting, enter a new value in the field and confirm by pressing "Apply"

- Nominal Output Voltage (V): Displays the default alarm threshold for the nominal output voltage standard provided by the UPS, to its connected equipment. (120V, 208V, 220V, 230V or 240V). To change the alarm setting, enter a new value in the field and confirm by pressing “Apply”
- Nominal Output Frequency (Hz): Displays the default alarm threshold for the nominal output frequency standard provided by the UPS, to its connected equipment. (50Hz or 60Hz) To change the alarm setting, enter a new value in the field and confirm by pressing “Apply”
- Nominal Volt-Amp Rating (VA): Displays the default alarm threshold for the maximum capacity of the connected UPS.
- To change the alarm setting, select the field, enter the new value then press “Apply” to confirm.
- Nominal Output Power (W): Displays the default alarm threshold for the maximum connected load attached to the UPS. To change the alarm setting, enter a new value in the field and confirm by pressing “Apply”
- Nominal Low Battery Time (mins): Displays the default estimated runtime of the UPS in battery mode during a blackout. To change the threshold for the alarm, enter a new value in the field and confirm by pressing “Apply”
- Nominal Battery Life (days): Displays the threshold setting for age of batteries before an alarm is issued. To change the threshold for the alarm, enter a new value in the field and confirm by pressing “Apply”
- Low Voltage Transfer Point (V): Displays the lowest input utility voltage threshold alarm where the UPS will transfer to battery mode or return from battery mode. To change the threshold for the alarm, enter a new value in the field and confirm by pressing “Apply”.
- High Voltage Transfer Point (V): Displays the highest input utility voltage threshold alarm where the UPS will transfer to battery mode or return from battery mode. To change the threshold for the alarm, enter a new value in the field and confirm by pressing “Apply”.
- Shutdown Type: This dropdown menu lists the default setting for the UPS when performing a shutdown action. The options are: Shutdown output only or shutdown the UPS.

Envision

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23....

Information

Configuration

UPS Configuration

UPS On/Off Schedule

Bank Schedule

Network

Wireless LAN

SNMP

+ Notification

Web/Telnet/FTP

BACnet

EV-PROBE-TH

Modbus

System

Log Information

Management

SNMPView Lite

UPS Properties

Test Log

Warning Threshold Value

?

UPS Communication Type	Minuteman
Date of Last Battery Replacement (MM/dd/yyyy)	01/01/2021
Nominal Input Voltage	120.0 V
Nominal Input Frequency	60.0 Hz
Nominal Output Voltage	120.0 V
Nominal Output Frequency	60.0 Hz
Nominal Volt-Amp Rating	1500 VA
Nominal Output Power	1350 W
Nominal Low Battery Time	99 mins
Nominal Battery Life	1826 days
Low Voltage Transfer Point	78 V
High Voltage Transfer Point	168 V
Shutdown Type	UPS Output Only

Apply

Reset

• Test log

- Test UPS Every: Sets the options for the frequency of the testing of the UPS. (Week, 2 Weeks, Month, Quarter) are the available selections.
- Test UPS on: The options for this setting are based on the “Test UPS Every” selection.
- Week or 2 Weeks: Select the day for the weekly test
- Month: Select the day of the month (1-31)
- Quarter: Select the starting mos. then the date of the month.
- Start Time of UPS Test (hh:mm): Enter the time of day to begin the test (using 24-hour clock)
- UPS Test Type: Select the type of test to perform. (Quick Battery, Deep Battery, General, Low Battery Warning)
- UPS Data Log: Enter the time, in minutes, for the recording interval of data from the UPS.

The screenshot shows the MinuteMan Envision web interface. The top header is red with the MinuteMan logo and the word "Envision". On the right, a "Latest Events" box lists recent status changes. The left sidebar contains a menu with categories: Information, Configuration, Log Information, Management, and SNMPView Lite. The main content area has three tabs: "UPS Properties", "Test Log" (which is active), and "Warning Threshold Value". Under the "Test Log" tab, there are two sections: "Test UPS" and "UPS Recorder". The "Test UPS" section includes a dropdown for "Test UPS every" (set to "None"), a text input for "Start Time of UPS Test (HH:mm) (24-hour time format)" with a clock icon, and a dropdown for "UPS Test Type" (set to "Quick Battery Test"). The "UPS Recorder" section has a text input for "UPS Data Log" (set to "0") and a label "Minute(s) (-1 = Stop Recording)". At the bottom right of the main content area are "Apply" and "Reset" buttons.

- **Warning Threshold Value** – This page is used to set the period of time after which the EV-NETCARD will send a disconnection warning message. This warning message will be sent after EV-NETCARD loses contact with the UPS for the time specified.

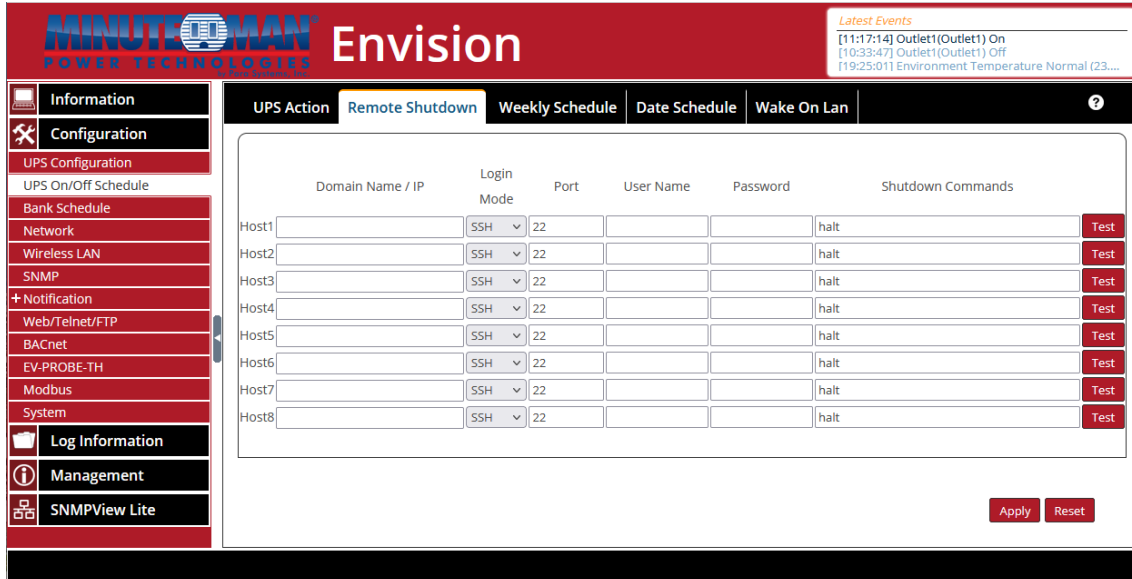
The screenshot shows the MinuteMan Envision web interface with the "Warning Threshold Value" tab selected. The left sidebar is identical to the previous screenshot. The main content area has three tabs: "UPS Properties", "Test Log", and "Warning Threshold Value" (which is active). The active tab contains a single configuration field: "Time out after loss of connection" with a dropdown menu set to "30 seconds". At the bottom right of the main content area are "Apply" and "Reset" buttons.

■ UPS On/Off Schedule

- **UPS Action** - This page is intended to set the parameters for UPS actions when a power or UPS event occurs. To complete the action, set the start/stop time parameters then choose the event, the UPS action and any delay, if desired. Press the “Add” icon to initiate. Multiple actions and events can be configured and implemented. To remove any action, check the right-hand box next to the action items, then select “[Delete]”.

- **Remote Shutdown** - The Remote Shutdown page is intended to program the EV-NETCARD card to issue a command for shutting down a network server, (or another network computer) without the use of installed shutdown software. Events need to first be added under “UPS Action” tab. Once set up, enter the IP address of the corresponding server identified on the “Remote Shutdown” tab to be shut down either by SSH or Telnet with a compatible shutdown command for the server system. (The Telnet Server must be enabled on the PC.)

For example: To shutdown Host 1 (Windows server) and Host 2 (Linux server) after 1 minute when AC power fails, start with the “UPS Action” tab. Select the “AC Power Failed” event then select “shutdown Host 1 ” and press “Add”. The action will be added to the event list. Repeat this process for Host 2.



The screenshot shows the Envision web interface. The left sidebar contains a menu with categories: Information, Configuration, Log Information, Management, and SNMPView Lite. The main area is titled 'Envision' and has a 'Latest Events' box showing recent status changes. Below the title bar are tabs for 'UPS Action', 'Remote Shutdown', 'Weekly Schedule', 'Date Schedule', and 'Wake On Lan'. The 'Remote Shutdown' tab is active, displaying a table for configuring shutdown actions for multiple hosts.

	Domain Name / IP	Login Mode	Port	User Name	Password	Shutdown Commands	
Host1		SSH	22			halt	Test
Host2		SSH	22			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

At the bottom right of the table area are 'Apply' and 'Reset' buttons.

With these two actions set, go to the “Remote Shutdown” tab and enter the domain IP addresses for Host 1 and Host 2. Select either Telnet or SSH for access, enter the user name/password for the server then enter the shutdown command for that operating system. For Windows, “shutdown /s” is the shutdown command. For Linux, “halt” is the command. For MAC OS, the shutdown command is “sudo shutdown”.

Below is a list of shutdown commands for the most popular operating systems:

- **Windows : shutdown/?**
 - **Linux : shutdown -help**
 - **MAC : sudo shutdown**
- **Weekly Schedule** - This tab is responsible for setting a weekly schedule to turn on/off the UPS. In the example below, the UPS is shut down at 17:00 on Friday evening and restarted at 8:00 on Monday morning.

The screenshot displays the MinuteMan Envision web interface. The top navigation bar includes the MinuteMan logo and the title "Envision". A "Latest Events" box in the top right corner shows a list of recent events: "[11:17:14] Outlet1(Outlet1) On", "[10:33:47] Outlet1(Outlet1) Off", and "[19:25:01] Environment Temperature Normal (23...".

The left sidebar contains a menu with the following items: Information, Configuration, UPS Configuration, UPS On/Off Schedule, Bank Schedule, Network, Wireless LAN, SNMP, + Notification, Web/Telnet/FTP, BACnet, EV-PROBE-TH, Modbus, System, Log Information, Management, and SNMPView Lite.

The main content area is titled "Weekly Schedule" and features a table for configuring the UPS schedule. The table has columns for the days of the week (Sunday through Saturday) and rows for the hours of the day (00:00 through 23:00). The table is currently empty, with a legend indicating that black squares represent "UPS Off", red squares represent "UPS On", and white squares represent "UPS On Period".

Below the table, a warning message states: "Warning will be initiated 10 minutes before Scheduled Shutdown Event".

- **Date Schedule** - The Date Schedule menu option sets an individual date and time to power On/Off a UPS. If activated, the settings on this page will override the settings in Weekly Schedule. Select any date on the calendar and press the "add" icon. A window will appear with a time-of-day reference. Choose a time and select "UPS On" or "UPS Off" and press "OK". To add dates and times, repeat the process.

To initiate a warning message prior to the scheduled shutdown of the UPS, select an option from the dropdown menu at the bottom of the page. When set, the EV-NETCARD card will send the message at a pre-determined time before the shutdown action. When the programming is completed, press the "Apply" icon.

MINUTEMAN POWER TECHNOLOGIES **Envision**

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23....

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

UPS Off UPS On UPS On Period

< 2025 March >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
23	24	25	26	27	28	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	31	1	2	3	4	5

Date Schedule List

No.	Events	Schedule	Action
-----	--------	----------	--------

Add Apply Reset

The interval between the UPS Off and the next UPS On must be less than 7 days, or the next UPS On might lose its effect.

Warning will be initiated 10 minutes before Scheduled Shutdown Event

- **Wake On Lan** - This menu option programs the signal from the EV-NETCARD card to wake a networked computer when AC utility power is recovered, or, when the UPS battery capacity reaches its pre-configured percentage. (Make sure the computer supports a Wake On Lan function and is enabled in the BIOS.) Enter the IP address of the target computer and the parameters to program the Wake function. For multiple computes, repeat the process for each computer. When complete, press the “Apply” icon.

MINUTEMAN POWER TECHNOLOGIES **Envision**

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23....

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

General Settings

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

Miscellaneous

☐ Wake up remote host after power restore
☐ Wait until battery capacity reaches to 10 %.

☐ Wake up remote host after UPS output restore
☐ Wait until battery capacity reaches to 10 %.

Apply Reset

■ Bank Schedule

This page is responsible for programming how the output receptacles react to events that occur to the UPS.

- **Outlet Action** – Click on the “Add” icon and select an event from the dropdown menu, then using the available options, program an action for each of the desired receptacles (banks). Configure as many event actions as desired for each receptacle (bank).

The screenshot shows the 'Add Outlet Action' dialog box on the left, which is part of the 'Envision' software interface. The dialog has a tab for 'Outlet Action Configuration'. It lists 'Events Select' as 'UPS' and 'Events Action' as 'UPS Load Overrun'. The 'Outlet' is 'Outlet1(Outlet1)' and the 'Outlet Action' is 'OFF'. The 'Add' button is visible at the bottom right of the dialog.

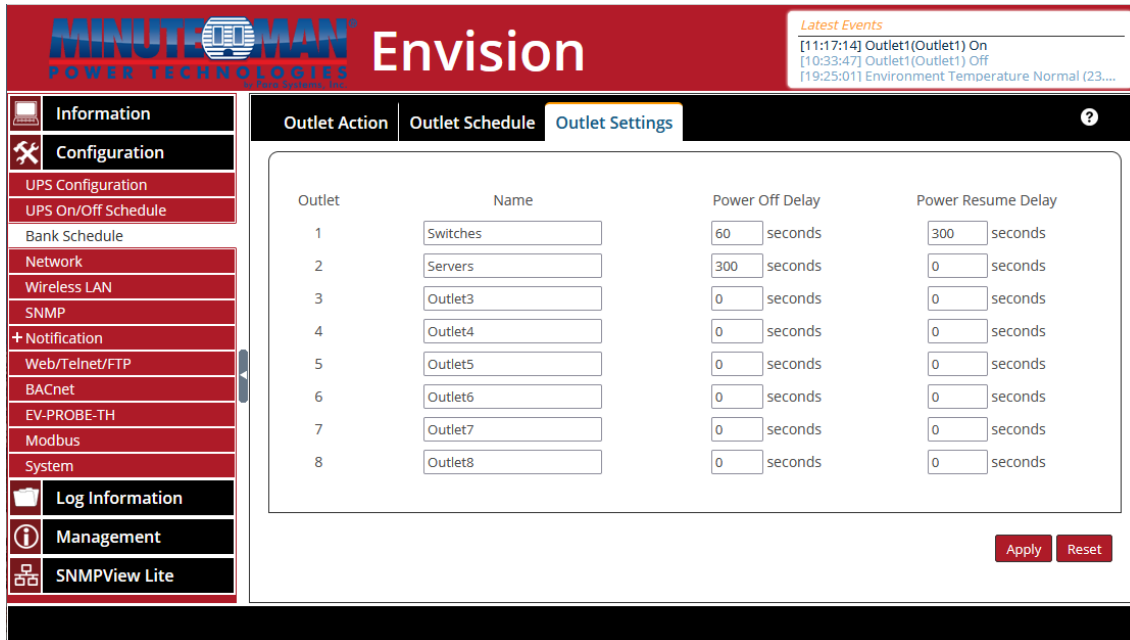
The main interface on the right shows the 'Envision' title bar and a sidebar with various configuration options. The 'Outlet Action' tab is selected, displaying a table with columns: Events, Events Action, Outlet, Outlet Action, and Delete. The table contains one row: 'AC Power Failed' | 'Occur' | 'Outlet1(Outlet1)' | 'OFF' | [Delete icon].

- **Outlet Schedule** - Click on the “Add” icon and select a schedule from the available options, either a one-time or recurring schedule, then enter specific time to initiate the action. Press the “Add” icon and that scheduled event will be programmed into the UPS. Select as many schedules for each receptacle (bank) as desired.

The screenshot shows the 'Add Outlet Schedule' dialog box on the left, which is part of the 'Envision' software interface. The dialog has a tab for 'Outlet Schedule Configuration'. It lists 'Outlet' as 'Outlet1(Outlet1)', 'Outlet Action' as 'OFF', 'Date (yyyy/mm/dd)' as 'Every Friday', and 'Time (hh:mm)' as '18:30'. The 'Add' button is visible at the bottom right of the dialog.

The main interface on the right shows the 'Envision' title bar and a sidebar with various configuration options. The 'Outlet Schedule' tab is selected, displaying a table with columns: Date, Time, Outlet, Action, and Delete. The table contains two rows: 'Every Friday' | '18:30' | 'Outlet1(Outlet1)' | 'OFF' | [Delete icon] and 'Every Monday' | '06:30' | 'Outlet1(Outlet1)' | 'ON' | [Delete icon].

- **Outlet Settings** – Under the Outlet Settings tab, the name for each of the receptacles (banks) can be customized. Additionally, the receptacle (bank) can be programmed to delay its shutdown and startup in order to sequencing the power on or power off actions.



MINUTEMAN

POWER TECHNOLOGIES

Envision

Latest Events

[11:17:14] Outlet1(Outlet1) On

[10:33:47] Outlet1(Outlet1) Off

[19:25:01] Environment Temperature Normal (23....

Information

Configuration

UPS Configuration

UPS On/Off Schedule

Bank Schedule

Network

Wireless LAN

SNMP

Notification

Web/Telnet/FTP

BACnet

EV-PROBE-TH

Modbus

System

Log Information

Management

SNMPView Lite

Outlet Action

Outlet Schedule

Outlet Settings

Outlet	Name	Power Off Delay	Power Resume Delay
1	Switches	60 seconds	300 seconds
2	Servers	300 seconds	0 seconds
3	Outlet3	0 seconds	0 seconds
4	Outlet4	0 seconds	0 seconds
5	Outlet5	0 seconds	0 seconds
6	Outlet6	0 seconds	0 seconds
7	Outlet7	0 seconds	0 seconds
8	Outlet8	0 seconds	0 seconds

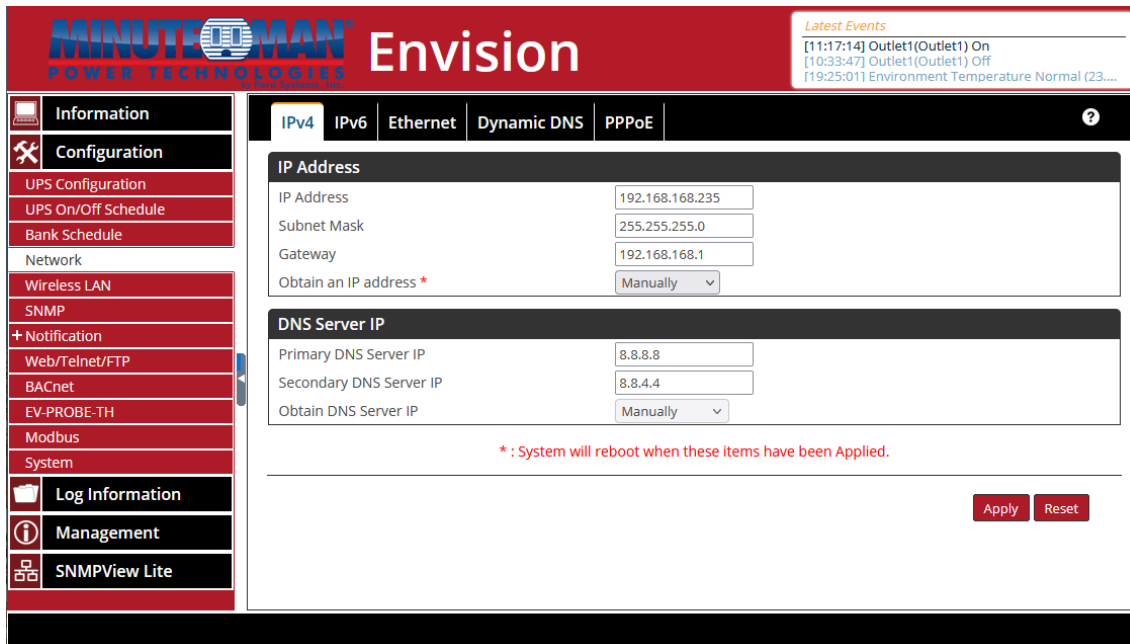
Apply

Reset

■ Network

This page is responsible for the programming the network settings for the EV-NETCARD card.

- IPv4** - The IP address and DNS Server IP can be programmed either manually or through DHCP or BOOTp using the dropdown menus. If the IP address and DNS have previously been configured on the information will automatically show here.



MINUTEMAN

POWER TECHNOLOGIES

Envision

Latest Events

[11:17:14] Outlet1(Outlet1) On

[10:33:47] Outlet1(Outlet1) Off

[19:25:01] Environment Temperature Normal (23....

Information

Configuration

UPS Configuration

UPS On/Off Schedule

Bank Schedule

Network

Wireless LAN

SNMP

Notification

Web/Telnet/FTP

BACnet

EV-PROBE-TH

Modbus

System

Log Information

Management

SNMPView Lite

IPv4

IPv6

Ethernet

Dynamic DNS

PPPoE

IP Address

IP Address

192.168.168.235

Subnet Mask

255.255.255.0

Gateway

192.168.168.1

Obtain an IP address *

Manually

DNS Server IP

Primary DNS Server IP

8.8.8.8

Secondary DNS Server IP

8.8.4.4

Obtain DNS Server IP

Manually

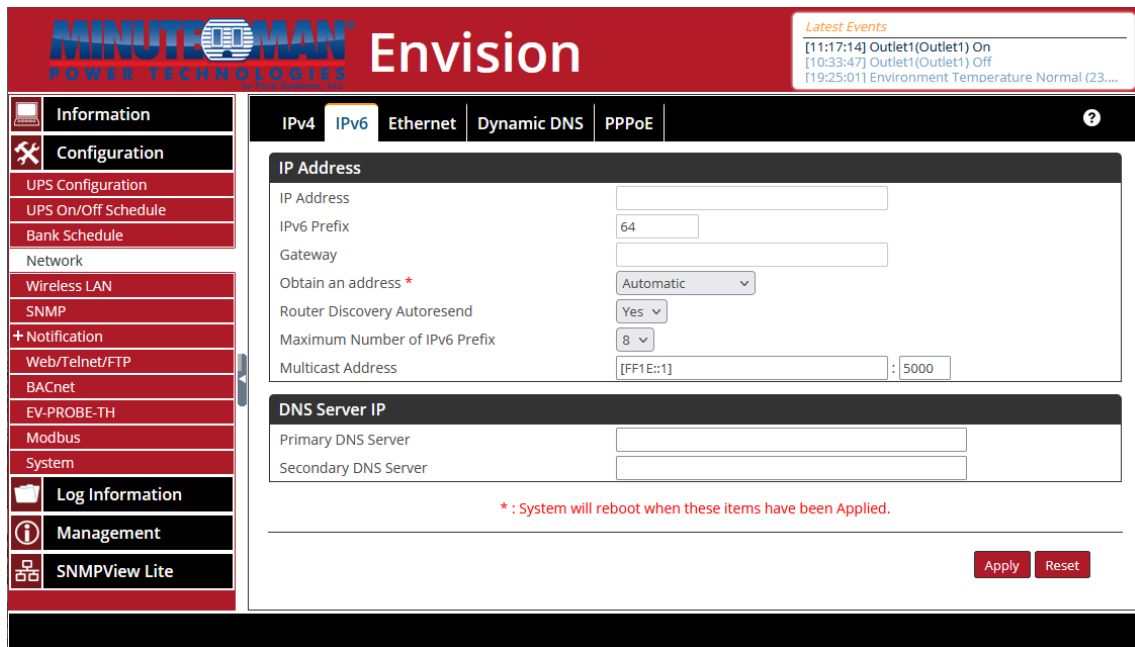
* : System will reboot when these items have been Applied.

Apply

Reset

• IPv6

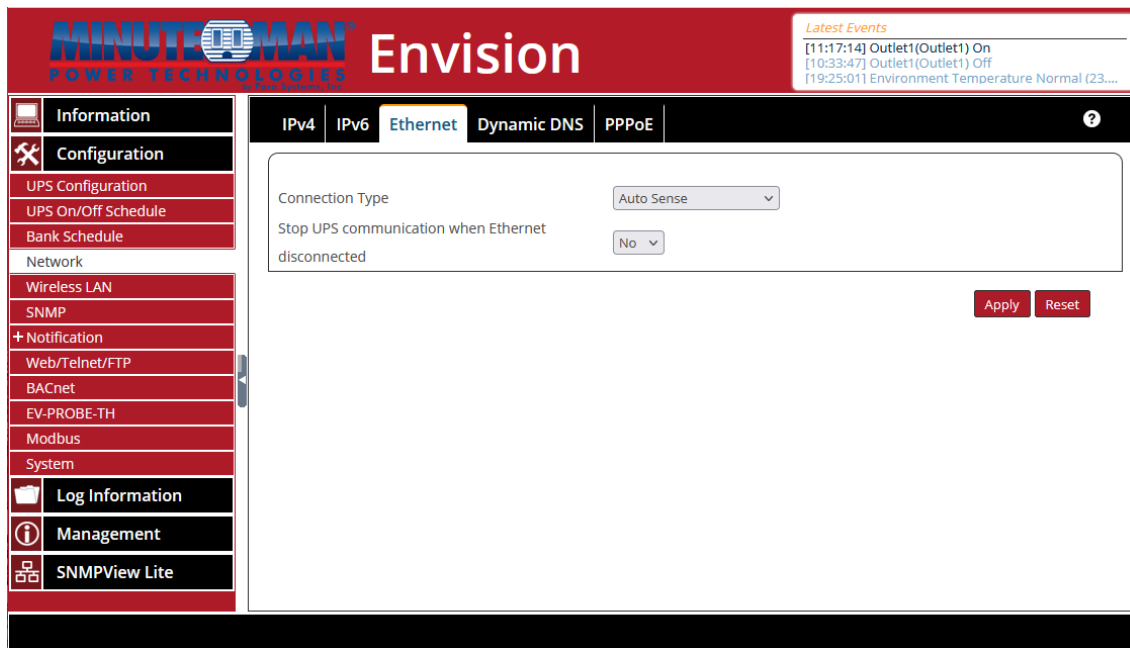
- IP Address: All EV-NETCARD cards support IPv6 addressing. Under the “IPv6” tab, the address can be obtained from the dropdown list of options: Automatic, Stateless, DHCPV6, or Manual. If Manual is selected all the IP and gateway information must be entered into the respective fields. For all forms of address selection, the remaining fields must be completed: Router Discovery Autoresend, Maximum Number of IPv6 Prefix, and Multicast Address.
 - DNS Server IP: Enter the addresses for the primary and/or secondary DNS Servers.
- NOTE:** Once the addressing is completed, press the “Apply” icon and the EV-NETCARD card will reboot with the new configuration.



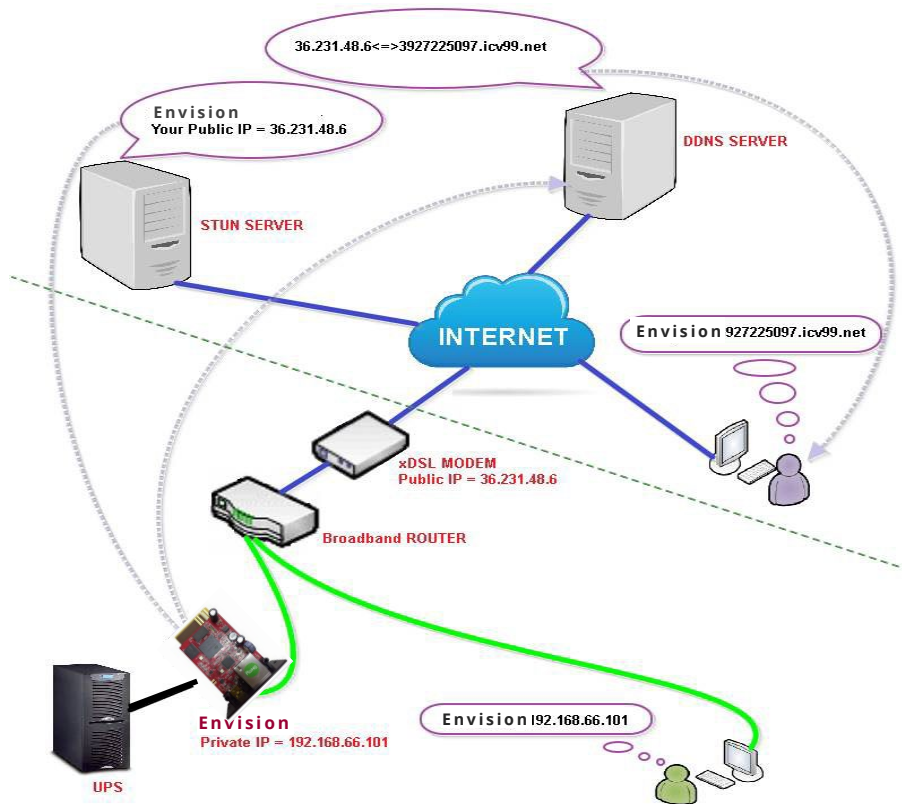
The screenshot shows the MINUTEMAN Envision web interface. The top navigation bar includes the MINUTEMAN logo and the word "Envision". A "Latest Events" box in the top right corner displays a list of events: [11:17:14] Outlet1(Outlet1) On, [10:33:47] Outlet1(Outlet1) Off, and [19:25:01] Environment Temperature Normal (23....). The left sidebar contains a menu with categories: Information, Configuration, Network, Wireless LAN, SNMP, Notification, Log Information, Management, and SNMPView Lite. The main content area is titled "IPv6" and contains two sections: "IP Address" and "DNS Server IP". The "IP Address" section includes fields for IP Address, IPv6 Prefix (set to 64), Gateway, Obtain an address * (set to Automatic), Router Discovery Autoresend (set to Yes), Maximum Number of IPv6 Prefix (set to 8), and Multicast Address (set to [FF1E::1] : 5000). The "DNS Server IP" section includes fields for Primary DNS Server and Secondary DNS Server. A red asterisk note at the bottom of the main content area states: "* : System will reboot when these items have been Applied." At the bottom right of the main content area are "Apply" and "Reset" buttons.

• Ethernet

- Connection Type: This menu option sets the communication speed between EV-NETCARD and connected network.
- **NOTE:** Once the network speed is selected, press the “Apply” icon and the EV-NETCARD card will reboot with the new configuration.
- Stop UPS communication when Ethernet disconnected: Use this menu option to continue or stop UPS communications when EV-NETCARD card disconnects from Ethernet.



- **Dynamic DNS** - Dynamic DNS is an open-source service which allows a user to attach a dynamic IP address to a static host name. To use this function, ensure an account and password has been registered with the DNS service provider.
 - Service Provider: Dynamic DNS providers can be selected from this dropdown list.
 - Domain Name: Enter the Domain Name created from the above selected DDNS provider.
 - Login Name: Enter the Login/Account Name created with the selected DDNS provider.
 - Login Password: Enter the Password assigned to registered DDNS Account.
 - Use external STUN server to get Public IP to register: Choose **Yes** to ensure the EV-NETCARD card uses the WAN/Public IP to update the selected DDNS server.



If using iCV99.net as the service provider, follow instructions shown below:

1. Ensure the EV-NETCARD card is able to connect to the internet. Select a service provide from the dropdown list. If the Domain Name, Login Name and serial number of the card do not automatically populate, enter the information manually. Enter the EV-NETCARD password, which is printed on the card label, then press the "Apply" icon.

2. If using a router, login to the router and insert the IP and port number under the Virtual Server for port forwarding. For specific details on programming, refer to router's user manual

Router Configuration

VIRTUAL SERVER
PORT FORWARDING
APPLICATION RULES
QOS ENGINE
NETWORK FILTER
ACCESS CONTROL
WEBSITE FILTER
INBOUND FILTER
FIREWALL SETTINGS
ROUTING
ADVANCED WIRELESS

VIRTUAL SERVER

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.

24 -- VIRTUAL SERVERS LIST

	Name		Port	Traffic Type	
☒	EV-NETCARD-1G	<< Application Name ▼	Public Port 80	Protocol TCP ▼	Schedule Always ▼
	IP Address 192.168.66.101	<< Computer Name ▼	Private Port 80	6	Inbound Filter Allow All ▼

3. Wait at least 20 minutes and the EV-NETCARD card should be logged in under the DDNS Domain name.
4. To change the domain name or password, go to the service provider website.

The screenshot displays the EnV Envision web interface. The top navigation bar includes 'Information', 'System Information', 'UPS Information', 'Network Status', and 'Connections Status'. The 'System Information' tab is active, showing details like Hardware Version (HBA506), Firmware Version (3.12.BA506.Para), and System Name (EV-SNMP-1G). Below this, the 'iImage Server' section shows a diagram of a network setup with WAN and LAN connections. A yellow box highlights the 'EV-NETCARD-1G' label with the following details: S/N: HH56240800100, MAC: 00-03-EA-14-B2-EO, and Password: 24931D03. To the right, the 'Dynamic Domain Name Server (DDNS)' section shows a comparison between 'without DDNS' and 'with DDNS' scenarios. A yellow box highlights the DDNS configuration fields: Domain Name (icv99.net) and Domain Password. A large blue arrow points from the DDNS section towards the bottom of the page.

Dynamic Domain Name Server (DDNS)

Logout

Step1 : Registration
Step2 : Set Domain Name and Click Done

Product Serial number	HH54241013250.iCV99.net
Register IP	127.0.0.1
Default Domain Name	HH54241013250

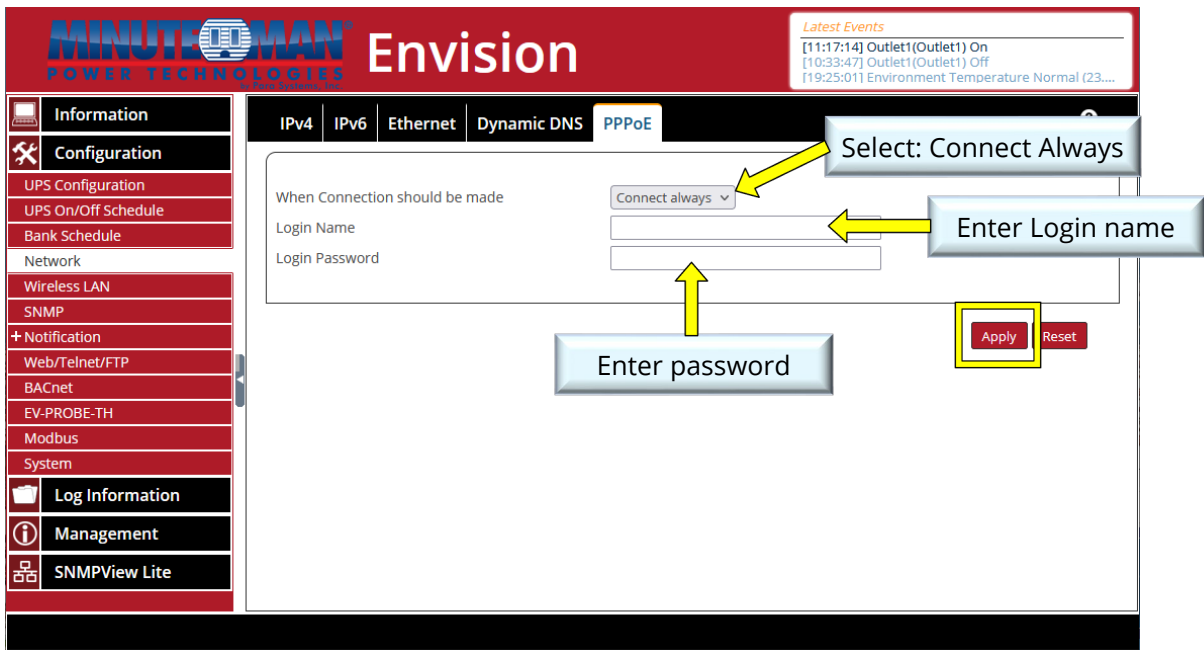
Set New Domain Name	bty505	.iCV99.net
Must be 4 to 31 letters or digits.		
Domain Password		
Re-enter Password		
<i>* Blank = Use existing password</i> Required, if a new domain name is assigned. Must be 4 to 10 characters (0-9, a-z, A-Z only).		
E-mail address	ttc@gmail.com	x
Required field. Used to retrieve Lost/Forget password.		

Done

Press Done

- **PPPoE** - Use this feature when connecting the EV-NETCARD to the Internet directly using a xDSL modem by PPPoE. Enter the Login name and password to enable the connection. Once set-up, the EV-NETCARD will connect directly to the Internet. Any abnormal connection issues could cause a failure requiring the card to re-dial in order to re-connect.





■ Wireless LAN

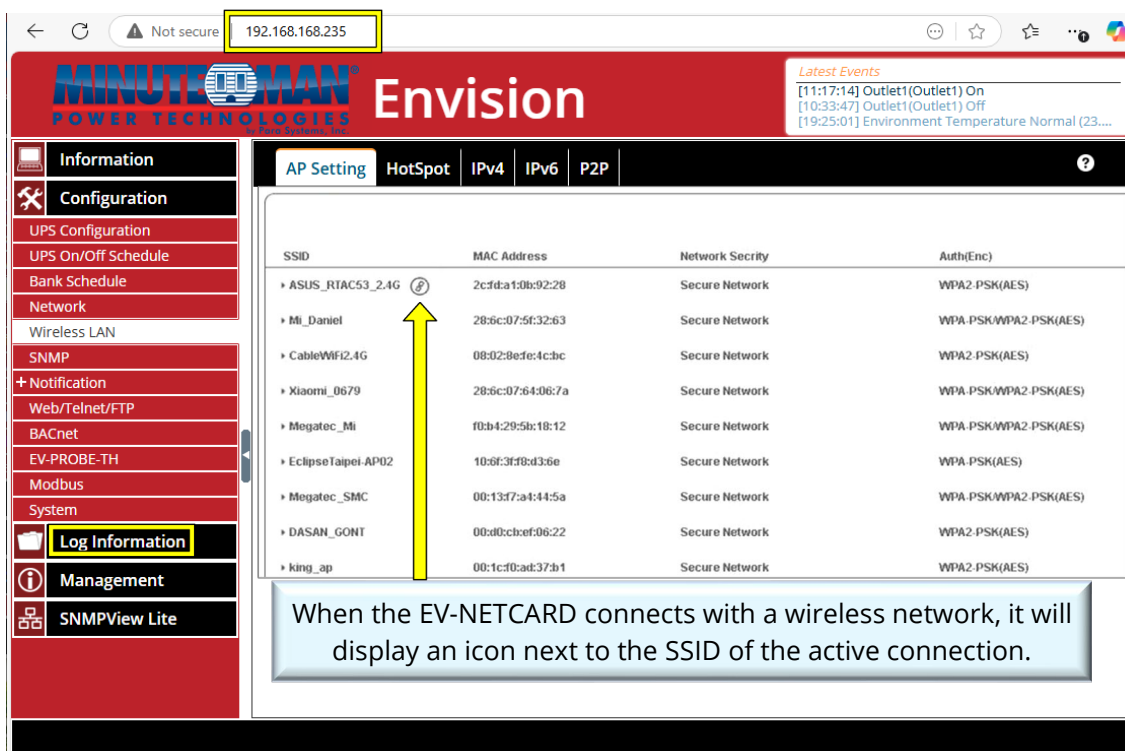
The EV-NETCARD is compatible with most popular USB Wi-Fi dongles. Before installing or configuring a Wi-Fi dongle, the EV-NETCARD must be connected, and accessible, on the network using a wired Ethernet connection. Open the Envision software utility to discover and login to the EV-NETCARD card on the network or use a web browser to type in and go directly to the specific, wired IP-address of the card to be used with the Wi-Fi dongle.

- (1) Attach the UPS to the network using the instructions in the **Configuration > Network** menu
- (2) Using a web browser or the Envision software utility, go the address IP-address associated with the EV-NETCARD card
- (3) Install the Wi-Fi dongle into an open USB port on the card.
- (4) Select **Configuration > Wireless LAN** from the menu in the web browser interface
- (5) Under the **AP Setting** tab, select the SSID of the preferred Wi-Fi network to join. If required, enter the password of that wireless network.
- (6) Once the EV-NETCARD card is connected to the desired wireless network, return to the **Configuration > Network** page and use DHCP, (default), or manually configure the IP-address to use for the card on the wireless network.
- (7) The wired Ethernet connection can now be removed if preferred.
- (8) The Envision software utility is now able to find the card or the address can be typed in using a web browser.

NOTE: The computer running the Envision software utility must be attached to the same Wireless LAN as the USB dongle.

NOTE: If installing at a remote location, programming the IP-address will require the following: a separate laptop or desktop computer; a cross-over Ethernet cable; or two standard Ethernet cables with one switch.

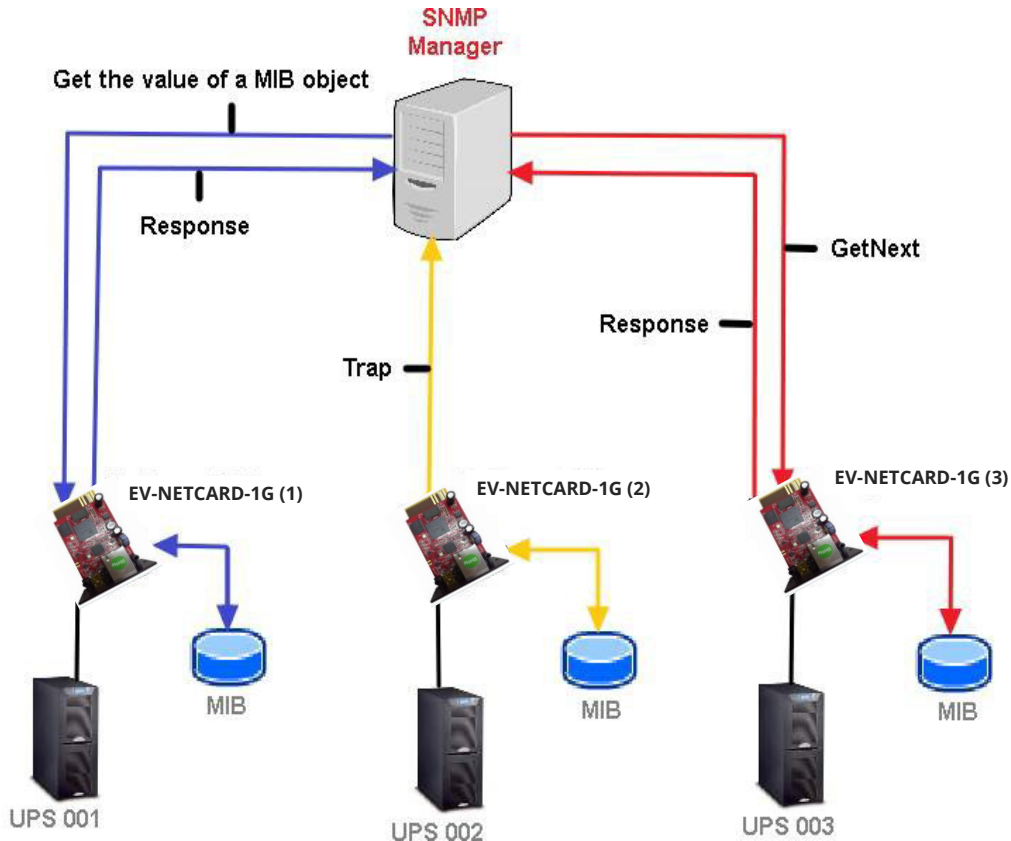
If using the switch with the Ethernet cables, one cable must connect the computer/laptop to the switch with the second cable connecting the switch and the EV-NETCARD card. The wireless configuration must be programmed at the remote site to properly connect to the site's wireless network and save the connection information and the password associated with the SSID to the card's firmware.



■ SNMP

Use of this menu option is to configure the SNMP settings of the EV-NETCARD for use with a NMS (Network Management System).

(EnvisionSNMP, it is available on the from the minuteman website at: [SNMP Resource Library - Minuteman UPS](#))



• General

MIB System

- System Name: This section is dedicated to defining a custom name for the EV-NETCARD. Enter the preferred name, then press the “Apply” icon.
- System Contact: This section can be used to list a responsible individual or administrator. Enter the name, then press the “Apply” icon.
- System Location: This section can be used to describe the location of the EV-NETCARD. Enter the preferred description, then press the “Apply” icon.

SNMP UDP Port

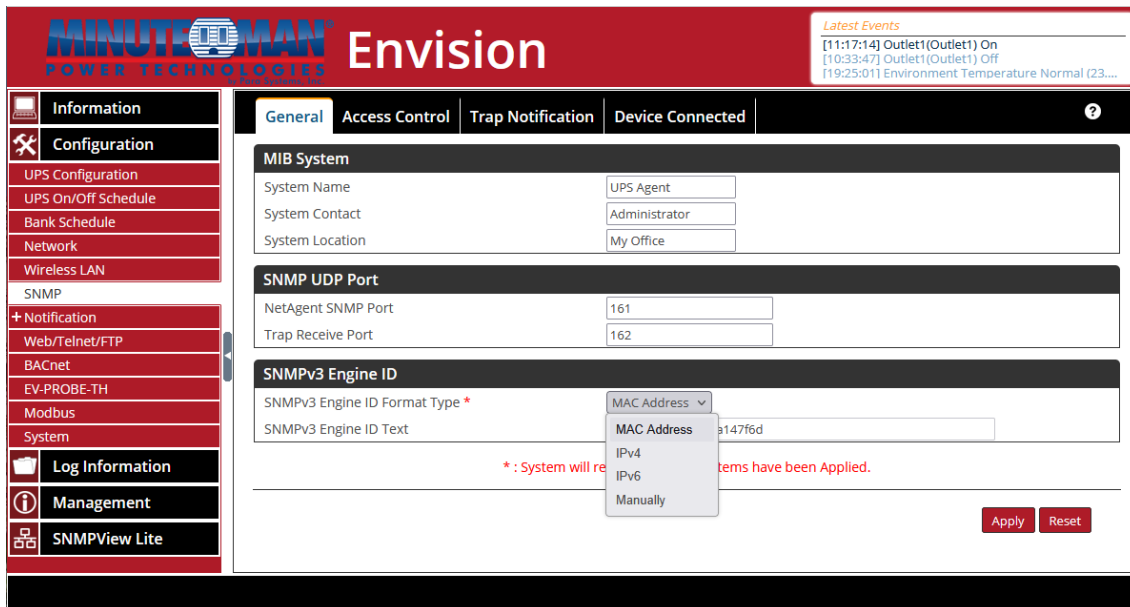
- Envision SNMP Port: Defines the port which the EV-NETCARD card receives and sends SNMP commands. (The default setting is 161)
- Trap Receive Port: Defines the port to receive SNMP traps. (The default setting is 162)

SNMPv3 Engine ID

- **SNMPv3 Engine ID Format Type:** When using SNMPv3, the EV-NETCARD card is required to have an Engine ID for identification to generate authentication and encryption keys.

The format type can be selected from the dropdown list with option of: MAC Address, IPv4, IPv6 or Manual. When a format is selected, press the “Apply” icon and the car will automatically reboot.

- **SNMPv3 Engine ID Text:** Automatically provides the SNMPv3 Engine ID content unless the “SNMPv3 Engine ID Format Type” is set to “Manually”. If set manually, enter the ID content, then press the “Apply” icon.



• Access Control

- **Manager IP Address:** Define an IP address, (up to 8), which the administrator can use to manage EV-NETCARD cards on the network. To allow management of the EV-NETCARD card from any IP address, enter *.*.*.* into the Manager IP address fields.
- **Version:** This field is used to select between: All, V1 & V2C or V3. When selecting All or V3, then a username, password, authentication and privacy setting are required.
- **Community:** This section is used to set a NMS Community name for the card. The Community name must be the same as the setting in NMS. (The default setting is public)
- **Permission:** Sets the rights and authorities of administrators. The options are: Read, Read/Write, and No Access.
- **Description:** This is an open field which provides a field to make notes for the administrator’s reference.

MINUTEMAN Envision

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23...

General | **Access Control** | Trap Notification | Device Connected

Manager IP Address	Version	Community	Permission	Description
****	All	public	Read/Write	
****	All	public	No Access	
User Name: _____ Auth. Protocol: None Auth. Password: _____ Privacy Protocol: None Privacy Password: _____				
****	All	public	No Access	
****	All	public	No Access	
****	All	public	No Access	
****	All	public	No Access	
****	All	public	No Access	
****	All	public	No Access	

Apply Reset

• Trap Notification

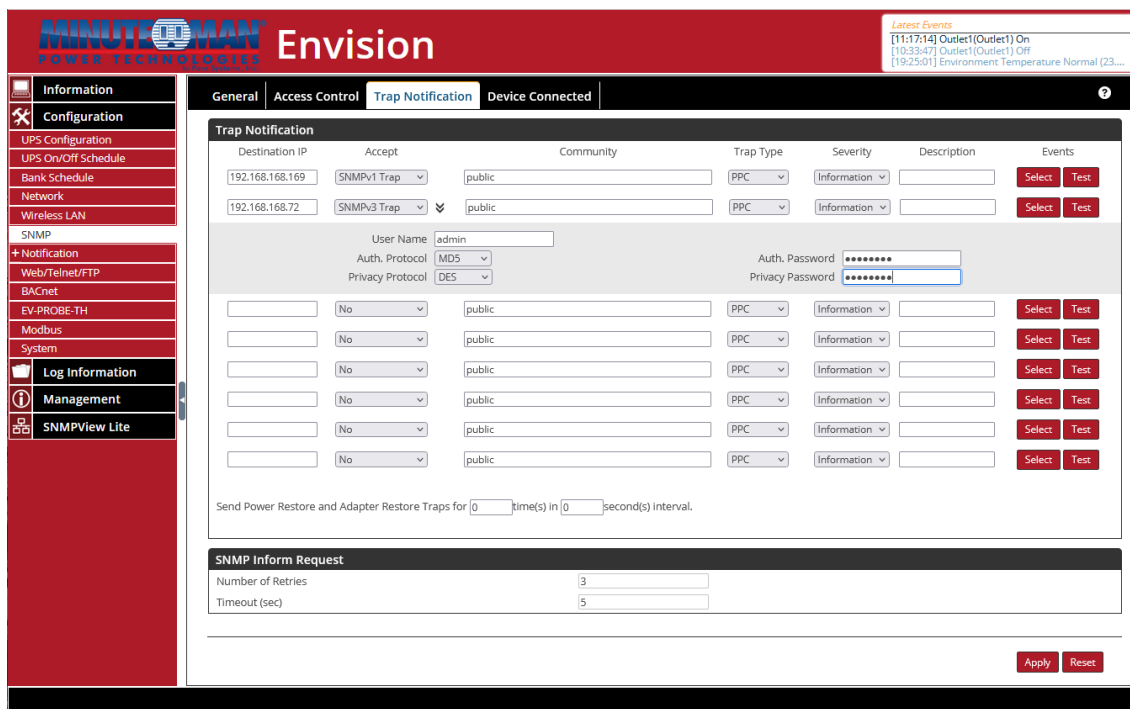
Trap Notification

- Destination IP: Program specific IP addresses for receiving traps sent by the EV-NETCARD card. Up to 8 addresses can be programmed.
- Accept: When sending traps to the Destination IP addresses, select the SNMP trap type and level from drop down list. The available options are: V1, V2 Inform or Trap, V3 Inform or Trap. When SNMPv3 Trap or SNMPv3 Inform is selected, a username and password authentication is required.
- Community: The trap receiver and the EV-NETCARD card must be same community. (The default is: Public)
- Trap Type: Select from PPC MIB or RFC1628 MIB (The default is: PPC)
 - ★ MIB file is available via download at: [SNMP Resource Library - Minuteman UPS](#)
- Severity: This section set the Trap level for each receiver. There are three levels available:
 - Information: Receives all traps.
 - Warning: Receives only “warning” and “severe” traps.
 - Severe: Receives only “severe” traps.
 (Please refer your NMS manual for Trap levels.)
- Description: This is an open field which provides a field to make notes for the administrator’s reference.
- Events: Programs specific events for the EV-NETCARD card to send traps to the identified recipients. Press the “Select” icon to show the full list of events to choose from.
 - UPS Events: Under the UPS Events tab, check the box next to the specific events then press “Apply”.

- EV-PROBE-TH: A list of optional environmental trap alarms that can be selected if the EV-PROBE-TH is being used in conjunction with the EV-NETCARD card.

NOTE: Optional sensors must be used in order to set trap alarms for Security Alarm and Smoke Alarm.

When all the trap alarm selections are completed, use the “Test” icon to send a test trap to confirm the settings are correct.



The screenshot shows the Envision web interface with the 'Trap Notification' tab selected. The interface includes a sidebar with navigation options and a main content area with configuration fields and a table of trap notifications.

Latest Events

- [11:17:14] Outlet1(Outlet1) On
- [10:33:47] Outlet1(Outlet1) Off
- [18:25:01] Environment Temperature Normal (23...

Trap Notification

Destination IP	Accept	Community	Trap Type	Severity	Description	Events
192.168.168.169	SNMPv1 Trap	public	PPC	Information		Select Test
192.168.168.72	SNMPv3 Trap	public	PPC	Information		Select Test

User Name: admin
Auth. Protocol: MD5
Privacy Protocol: DES
Auth. Password: [REDACTED]
Privacy Password: [REDACTED]

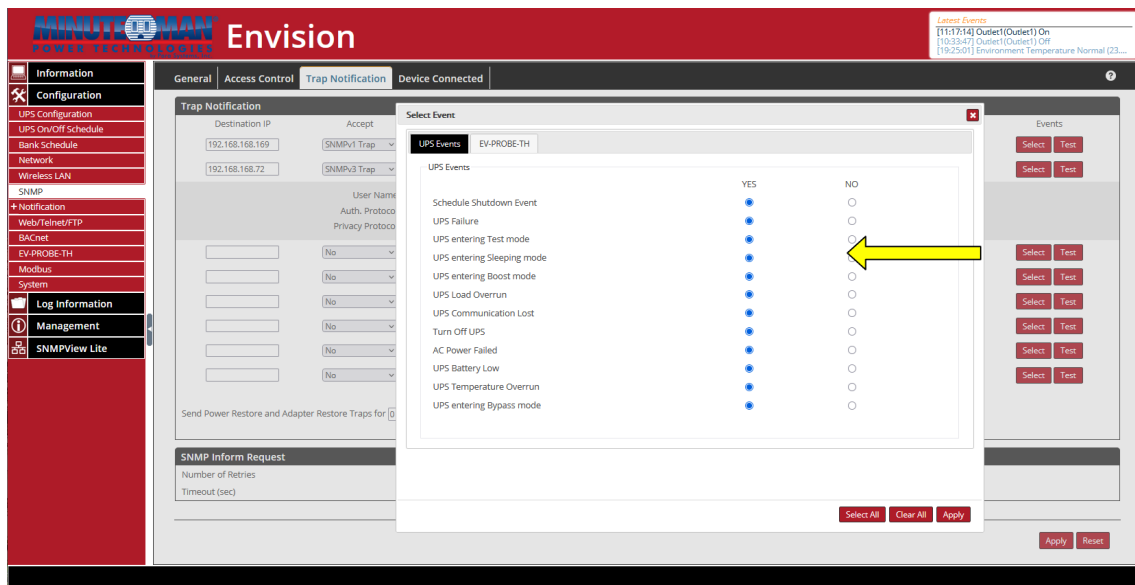
	No	public	PPC	Information		Select Test
	No	public	PPC	Information		Select Test
	No	public	PPC	Information		Select Test
	No	public	PPC	Information		Select Test
	No	public	PPC	Information		Select Test
	No	public	PPC	Information		Select Test

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

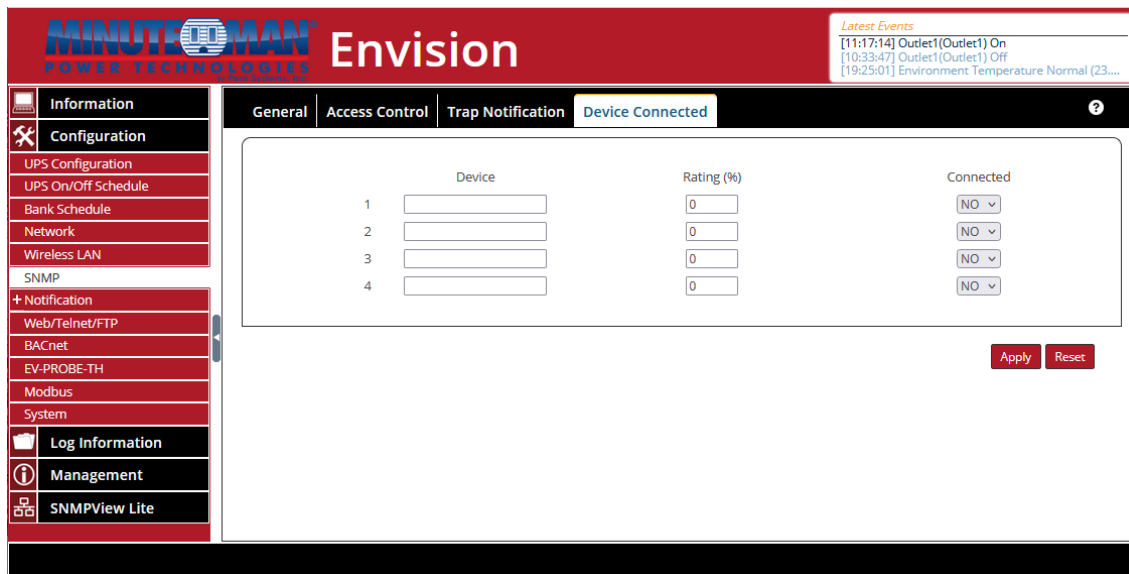
SNMP Inform Request

Number of Retries: 3
Timeout (sec): 5

Apply Reset



- Send Power Restore and Adaptor Restore Traps: This function sets the repeat number of “Power Restore” traps, and the intervals between transmissions, sent to the recipients when power is restored to the EV-NETCARD card. This function can be used to test the communications between trap receiver and the EV-NETCARD card after power returns.
- SNMP Inform Request - Use this function to set the number of times the EV-NETCARD card can request a response from the sending Inform host with a preset value. (The default is 3 times with an interval of 5 seconds)
- **Device Connected** - This section is to set the usage power and connection status of other devices which connects to the same UPS as EV-NETCARD uses*.
(*Must be a supported feature of the UPS)



	Device	Rating (%)	Connected
1		0	NO
2		0	NO
3		0	NO
4		0	NO

■ Email

The menu option sets the parameters for sending email notifications when events occur or to send data log information. The EV-NETCARD supports SSL, TLS, and STARTTLS

• Email Setting

- Email Server: Enter the address of email server to be used.
- Email Port: Identify the Port used for sending email.
- Enable SSL on Email Transmission: Select the SSL type to use for email transmission: SLS/TLS, STARTTLS or NONE
- Sender's Email Address: Enter the senders email address
- Email Server Requires Authentication: Select "Yes" if the email server requires authentication or "No" if it does not.
- Account name: If authentication is required, enter the account name in this field.
- Password: If authentication is required, enter the password in this field.
- Sending Test Mail: When all the selections are completed, enter an email address to verify all configuration items are correct. Press the "Test Mail" icon. If an e-mail is received, complete the process by pressing the "Apply" icon.

MINUTEMAN Envision

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23...

Email Setting | Email for Event Log | Email for Daily Report

Email Server: smtp.gmail.com
Email Port: 587
Enable SSL on Email Transmission: STARTTLS
Sender's Email Address: mmpara1@gmail.com
Email Server Requires Authentication: YES
Account Name: mmpara1@gmail.com
Password: *****
Sending test mail: [Test Mail]

[Apply] [Reset]

UPS Agent(192.168.66.106):This is a test email

ttc@gmail.com <ttc@gmail.com>
寄給我

Sample of Test Email received

If you received this test mail, it means that your mail settings are correct.

- **Email for Event Log (To received email notification)** - Use this option to define up to 8 email addresses to receive warnings sent by EV-NETCARD card when selected events occur. Enter each email address then press the "Select" icon. From the pop-up window, check the specific events to send alarms to that specific email address.
 - UPS Events: Under the UPS Events tab, check the box next to the specific events then press "Apply".
 - EV-PROBE-TH: A list of optional environmental trap alarms that can be selected if the EV-PROBE-TH is being used in conjunction with the EV-NETCARD card.
- NOTE:** Optional sensors must be used in order to set trap alarms for Security Alarm and Smoke Alarm. When all the email addresses are configured, press the "Apply" icon.

MINUTEMAN Envision

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23...

Information
Configuration
UPS Configuration
UPS On/Off Schedule
Bank Schedule
Network
Wireless LAN
SNMP
Notification
Email
SMS
WeChat
LINE
Skype
Web/Telnet/FTP
BACnet
EV-PROBE-TH
Modbus
System
Log Information
Management
SNMPView Lite

Email Setting | Email for Event Log | Email for Daily Report

Send Email When Event Occurs: YES

Account1: tvancil@minutemanups.com Select
Account2: Select
Account3: Select
Account4: Select
Account5: Select
Account6: Select
Account7: Select
Account8: Select

Apply Reset

Select Event

UPS Events EV-PROBE-TH

Event	YES	NO
Schedule Shutdown Event	☒	☐
UPS Failure	☒	☐
UPS entering Test mode	☒	☐
UPS entering Sleeping mode	☒	☐
UPS entering Boost mode	☒	☐
UPS Load Overrun	☒	☐
UPS Communication Lost	☒	☐
Turn Off UPS	☒	☐
AC Power Failed	☒	☐

Select All Clear All Apply

UPS Events EV-PROBE-TH

Event	YES	NO
Smoke Alarm	☒	☐
Water Alarm	☒	☐
Gas Alarm	☒	☐
Security Alarm	☒	☐
Environmental Temperature Overrun	☒	☐
Environmental Temperature Underrun	☒	☐
Environmental Humidity Overrun	☒	☐
Environmental Humidity Underrun	☒	☐

Select All Clear All Apply

- **Email for Daily Report (To receive daily report)** - The EV-NETCARD can provide a daily report of events and data recordings. These reports can be sent to individual email recipients, (up to 4). Enter the address in the available field then select "Yes" to send the daily report or "No" to suspend the action. If sending daily reports, set a time of day for the report to be sent dropdown menu.

MINUTEMAN Envision

Latest Events
[11:17:14] Outlet1(Outlet1) On
[10:33:47] Outlet1(Outlet1) Off
[19:25:01] Environment Temperature Normal (23....

Information
Configuration
UPS Configuration
UPS On/Off Schedule
Bank Schedule
Network
Wireless LAN
SNMP
Notification
• Email
• SMS
• WeChat
• LINE
• Skype
Web/Telnet/FTP
BACnet
EV-PROBE-TH
Modbus
System
Log Information
Management
SNMPView Lite

Email Setting | Email for Event Log | **Email for Daily Report**

Account1
Account2
Account3
Account4

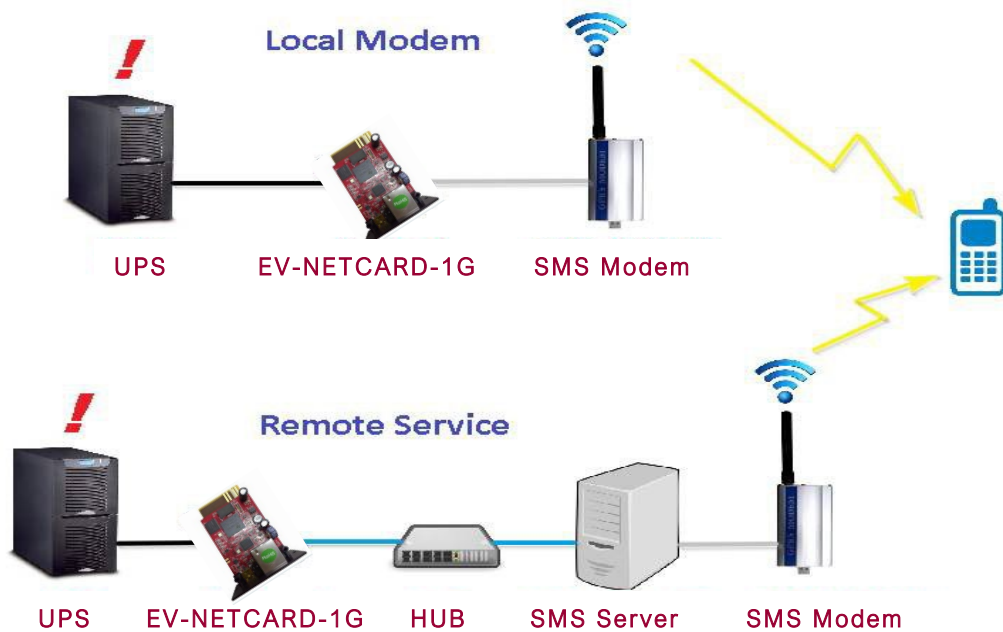
Send Email for Daily Report (HH:mm) (24-hour time format) NO at 12:00

Apply Reset

Set time: hh:mm (24-hour format)

■ Configuration > SMS

The EV-NETCARD supports alarm notification through Short Message Signals ("SMS") sent and received using a GSM/GPRS/CDMA Modem. A diagram of the operation is provided below.



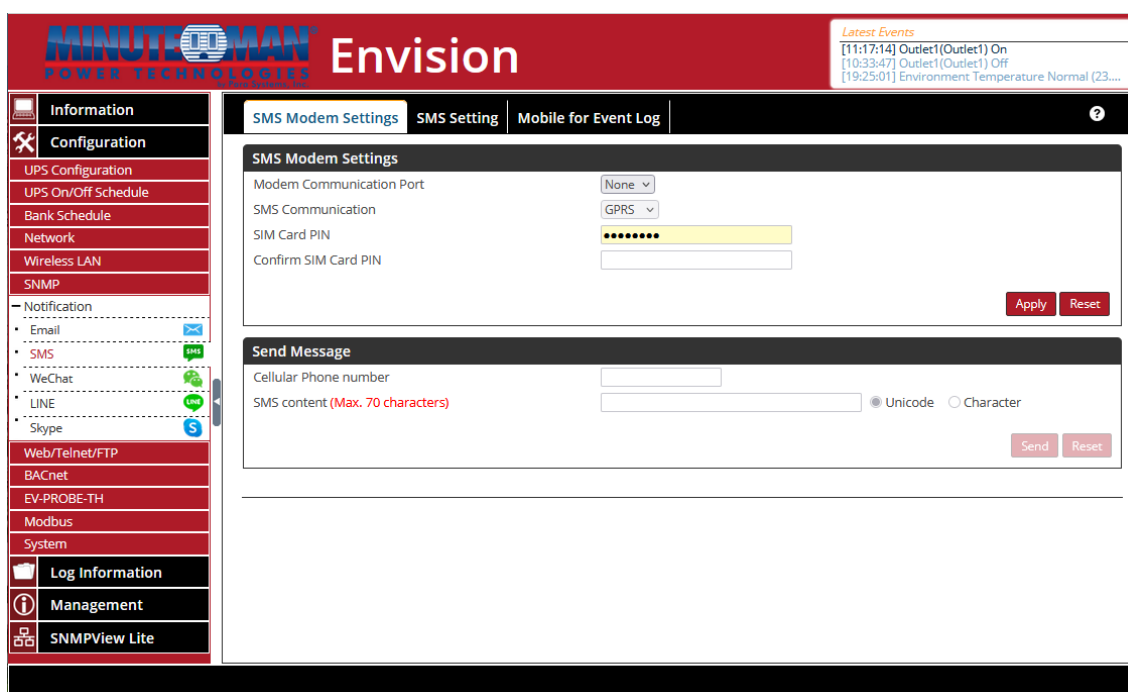
• SMS Modem Setting

SMS Modem Settings: Configure the card and modem settings for sending alarms through SMS communications.

- Modem Communications Port: Select the port to use with the desired modem.
- SMS Communication: Select the signal type for using with the desired modem.
- SIM Card PIN: Enter the SIM card number for the modem.
- Confirm SIM Card PIN: Confirm the entry from above. When all the information has been entered, press the “Apply” icon.

Send Message:

- Cellular Phone Number: Enter the number of the recipient cell phone
- SMS Content: Create the text of the SMS message to send to the cell phone and define the format, (Unicode or Characters).



The screenshot shows the Envision web interface. On the left is a navigation menu with categories: Information, Configuration, Notification, Web/Telnet/FTP, Log Information, Management, and SNMPView Lite. The main content area has tabs for 'SMS Modem Settings', 'SMS Setting', and 'Mobile for Event Log'. The 'SMS Modem Settings' tab is active, showing fields for 'Modem Communication Port' (set to 'None'), 'SMS Communication' (set to 'GPRS'), 'SIM Card PIN' (masked with dots), and 'Confirm SIM Card PIN' (empty). There are 'Apply' and 'Reset' buttons. Below this is the 'Send Message' section with fields for 'Cellular Phone number' and 'SMS content (Max. 70 characters)', and radio buttons for 'Unicode' and 'Character' format. It also has 'Send' and 'Reset' buttons. A 'Latest Events' box in the top right corner shows a list of recent events.

• SMS Setting

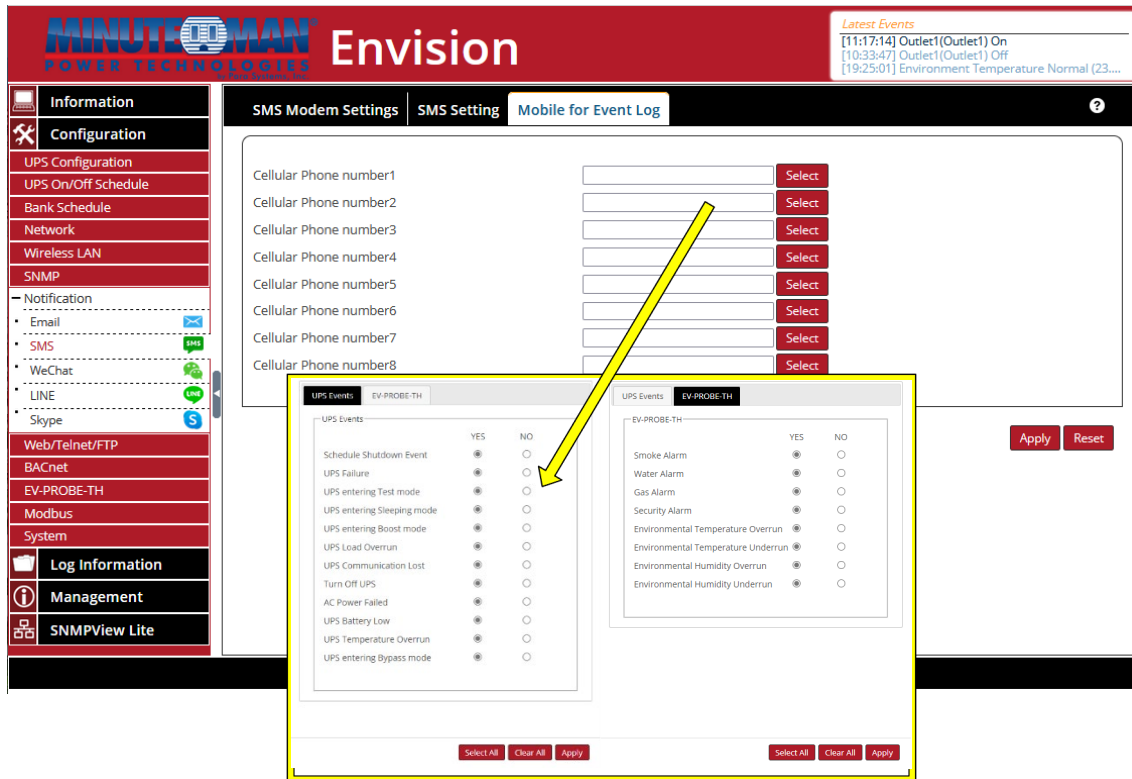
- Send SMS When Event Occurs: Select options from dropdown menu: Disable, Use Local Modem or Use Remote Service
 - Disable: No SMS Service
 - Use Local Modem: Select when a GSM modem is directly connected to EV-NETCARD card (Refer to the SMS Modem section for its installation)
 - Use Remote Service: Select when a GSM modem is connected to a networked PC with SMS Server software installed (Refer to the SMS Server section software installation)
- SMS Server: If using the Remote Service to send SMS messages, enter the IP address of the computer with the installed SMS Server here.

- SMS Port: If using the Remote Service to send SMS messages, enter the port number of the SMS Server used for sending messages. (The default is Port 80)
- Account Name: If using the Remote Service to send SMS messages, enter the account name of the SMS Server, if required.
- Password: If using the Remote Service to send SMS messages, enter password for the SMS Server, if required.
- Sending test SMS: When the configuration is completed, enter a mobile number to receive a test. SMS. If a successful test message is sent, press the “Apply” icon to save settings.

The screenshot shows the Envision web interface. The top header is red with the 'MINUTEMAN POWER TECHNOLOGIES' logo and the word 'Envision'. A 'Latest Events' box in the top right corner displays three events: '[11:17:14] Outlet1(Outlet1) On', '[10:33:47] Outlet1(Outlet1) Off', and '[19:25:01] Environment Temperature Normal (23...'. The left sidebar contains a menu with categories: Information, Configuration (with sub-items like UPS Configuration, Bank Schedule, Network, Wireless LAN, SNMP, Notification, Email, SMS, WeChat, LINE, Skype), Web/Telnet/FTP, BACnet, EV-PROBE-TH, Modbus, System, Log Information, Management, and SNMPView Lite. The main content area is titled 'SMS Modem Settings' and has three tabs: 'SMS Setting' (selected), 'Mobile for Event Log', and 'Mobile for Event Log'. The 'SMS Setting' tab contains the following fields: 'Send SMS When Event Occurs' (set to 'Use Remote Service'), 'SMS Server' (empty), 'SMS Port' (80), 'Account Name' (admin), 'Password' (masked with dots), and 'Sending test SMS' (empty). There is a 'Test SMS' button next to the 'Sending test SMS' field. At the bottom right of the main content area are 'Apply' and 'Reset' buttons.

- **Mobile for Event Log** - Use this option to define up to 8 cell phone numbers to receive warnings sent by EV-NETCARD card when selected events occur. Enter each phone number then press the “Select” icon. From the pop-up window, check the specific events to send alarms to that specific phone number.
 - UPS Events: Under the UPS Events tab, check the box next to the specific events then press “Apply”.
 - EV-PROBE-TH: A list of optional environmental trap alarms that can be selected if the EV-PROBE-TH is being used in conjunction with the EV-NETCARD card.

NOTE: Optional sensors must be used in order to set trap alarms for Security Alarm and Smoke Alarm. When all the phone numbers settings are completed, press the “Apply” icon.



■ Web/Telnet/FTP

This menu option sets the permissions for each user account for Web, Telnet and FTP access, (for up to 8 users). Restrictions to enable/disable specific ports for HTTP/HTTPS, Telnet/ SSH and FTP can be programmed from this screen.

● HTTP/HTTPS

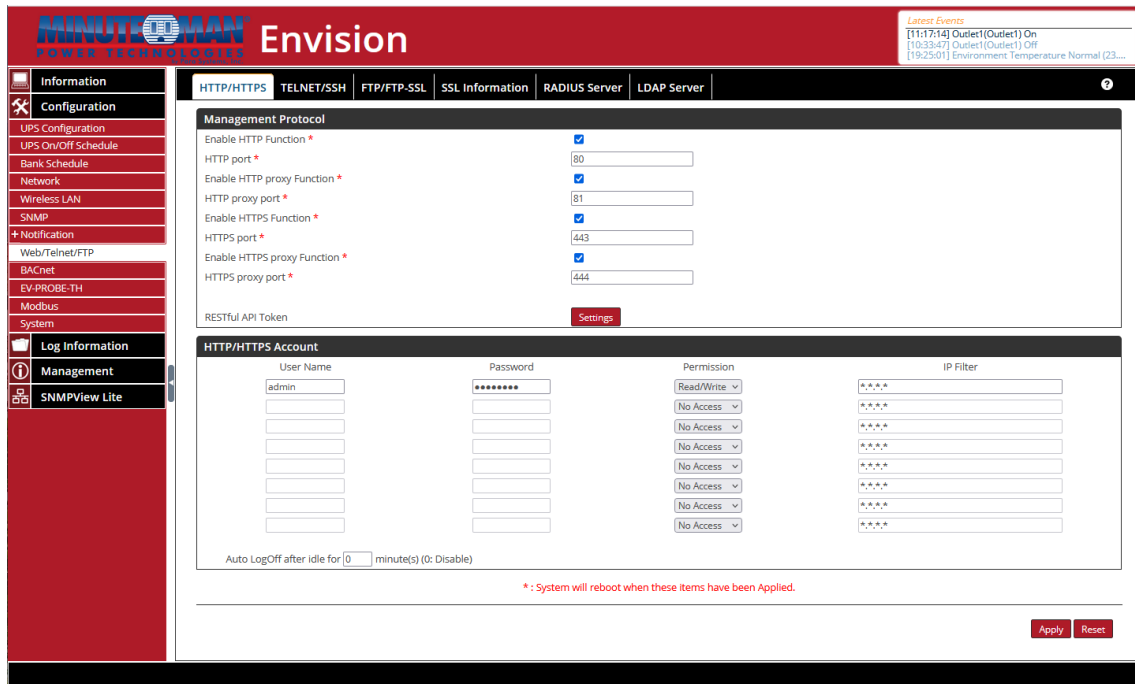
Management Protocol:

- Enable HTTP Function: Check to enable then enter the specific port number to access.
- Enable HTTP proxy Function: Check to enable then enter the specific port number to access.
- Enable HTTPS Function: Check to enable then enter the specific port number to access.
- Enable HTTPS proxy Function: Check to enable then enter the specific port number to access.
- RESTful API Token: (Need additional definition)
 - Token should be created to allow remote Rest API connections over HTTPS

HTTP/HTTPS Account:

- User Name: Set up a User Name for use when using the EV-NETCARD web browser access, (up to 8 are allowed) in the provided field(s).
- Password: Create and use a password for each User Name to protect against unauthorized EV-NETCARD card web access.

- Permission: Sets the level of user rights when accessing the EV-NETCARD via the web browser. The options are: No Access / Read / Read&Write
 - Permission Rule : At least one user account must have Read/Write permission
 - Permission Rule : Read and Write permissions must have a User Name and cannot be blank
 - IP Filter: Restrict access to the card to only specific IP addresses: (using “*.*.*.*” allows access from any IP address)
- Auto Logoff after Idle for X minute (s): Set the amount of time before the EV-NETCARD webpage automatically logs the user out when there is no activity on the screen. (0 is disabled)



The screenshot shows the Envision web interface. The top navigation bar includes tabs for HTTP/HTTPS, TELNET/SSH, FTP/FTP-SSL, SSL Information, RADIUS Server, and LDAP Server. The left sidebar contains a menu with options like Information, Configuration, Network, and Management. The main content area is divided into two sections: Management Protocol and HTTP/HTTPS Account.

Management Protocol

Setting	Value
Enable HTTP Function *	☒
HTTP port *	80
Enable HTTP proxy Function *	☒
HTTP proxy port *	81
Enable HTTPS Function *	☒
HTTPS port *	443
Enable HTTPS proxy Function *	☒
HTTPS proxy port *	444

RESTful API Token: [Settings]

HTTP/HTTPS Account

User Name	Password	Permission	IP Filter
admin	*****	Read/Write	***
		No Access	***
		No Access	***
		No Access	***
		No Access	***
		No Access	***
		No Access	***
		No Access	***

Auto LogOff after idle for [0] minute(s) (0: Disable)

* : System will reboot when these items have been Applied.

[Apply] [Reset]

- **Telnet/SSH** - Enable and enter specific port information to access or disable Telnet/SSH Telnet/SSH communications.

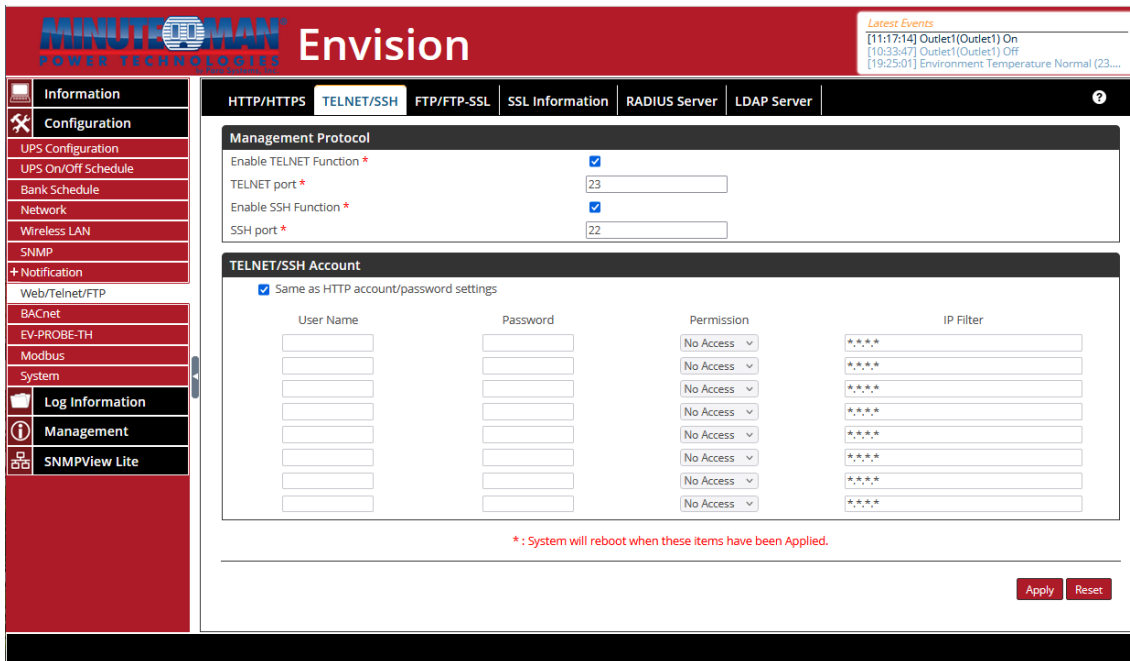
Management Protocol

- Enable TELNET Function: To enable TELNET, select the checkbox then enter the preferred TELNET Port number.
- Enable SSH Function: To enable SSH, select the checkbox then enter the preferred SSH Port number.

TELNET/SSH Account:

- Same as HTTP account/password settings: Checking this box will automatically duplicate the settings used for setting up the HTTP/HTTPS communications.
- User Name: If not duplicating the HTTP settings, create or enter a User Name, (up to 8 are allowed) in the provided field(s).
- Password: Create and use a password for each User Name to protect against unauthorized EV-NETCARD card web access.

- Permission: Sets the level of user rights when accessing the EV-NETCARD via the web browser. The options are: No Access / Read / Read&Write
 - Permission Rule : At least one user account must have Read/Write permission
 - Permission Rule : Read and Write permissions must have a User Name and cannot be blank
- IP Filter: Restrict access to the card to only specific IP addresses: (using “*.*.*.*” allows access from any IP address)



Envision

Latest Events
 [11:17:14] Outlet1(Outlet1) On
 [10:33:47] Outlet1(Outlet1) Off
 [19:25:01] Environment Temperature Normal (23....

HTTP/HTTPS **TELNET/SSH** FTP/FTP-SSL SSL Information RADIUS Server LDAP Server

Management Protocol

Enable TELNET Function * ☒ TELNET port * 23

Enable SSH Function * ☒ SSH port * 22

TELNET/SSH Account

☒ Same as HTTP account/password settings

User Name	Password	Permission	IP Filter
		No Access	*****
		No Access	*****
		No Access	*****
		No Access	*****
		No Access	*****
		No Access	*****
		No Access	*****
		No Access	*****

* : System will reboot when these items have been Applied.

Apply Reset

• **FTP/FTP-SSL** - The menu will provide options to configure and set up the FTP/FTP-SSL access.
Management Protocol

- Enable FTP Function: Check the box to enable the FTP function.
- Enable FTP-SSL Function: Check the box to enable FTP-SSL protection
- Implicit FTP-SSL: Check the box to define a specific port for the client (990) to be used for secure connections
- FTP(S) Server Port: Select the port for server FTP(S) communications
 - Implicit FTP-SSL option forces the FTP client to connect securely from the start
- Enable SFTP Function: Check the box to enable SFTP function
- SFTP Server Port: Select the port for SFTP server communications.

FTP/FTP-SSL Account

- Same as HTTP account/password settings: Checking this box will automatically duplicate the settings used for setting up the HTTP/HTTPS communications.
- User Name: If not duplicating the HTTP settings, create or enter a User Name, (up to 8 are allowed) in the provided field for FTP access to the EV-NETCARD card.
- Password: Create and use a password for each User Name to protect against unauthorized FTP access.

- Permission: Sets the level of user rights when accessing the EV-NETCARD via the web browser. The options are: No Access / Read / Read&Write
 - Permission Rule : At least one user account must have Read/Write permission
 - Permission Rule : Read and Write permissions must have a User Name and cannot be blank
- When all the configuration settings are completed, press the “Apply” icon and the card will reboot for all configurations to take effect.

- **SSL Information** - The EV-NETCARD card 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 to be used from the list provided:

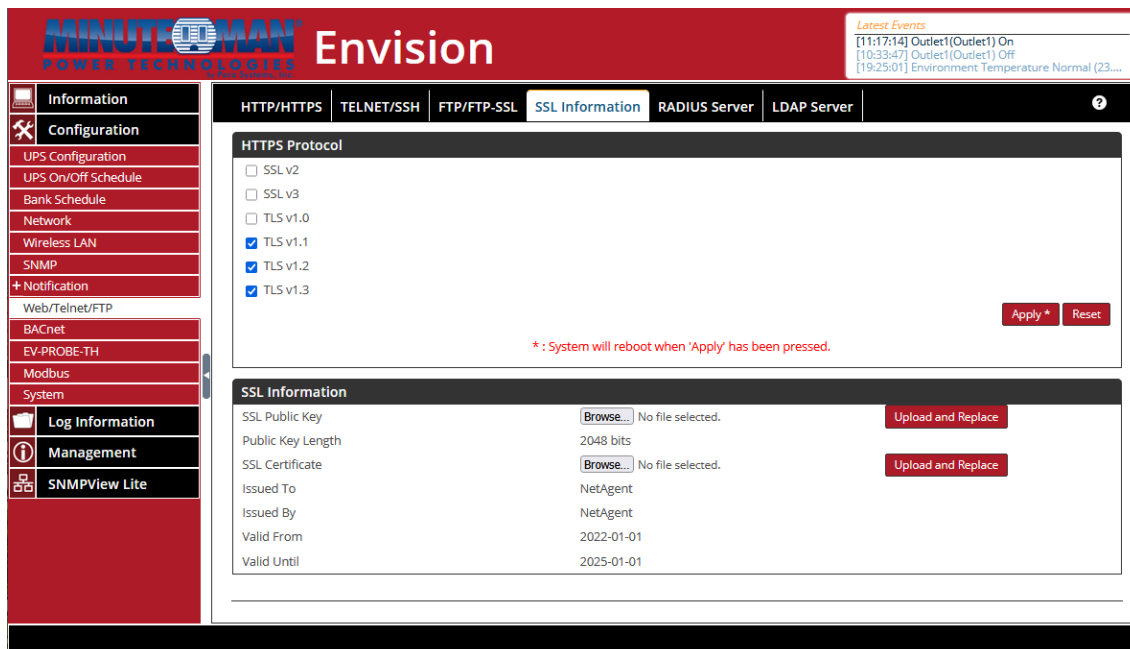
- SSL v2
- SSL v3
- TLS v1.0
- TLS v1.1
- TLS v1.2
- TLS v1.3

Once the selection is made, press the “Apply” icon. The card will then reboot with the updated SSL version.

SSL Information - Use the steps in this section to upload the SSL certificate. When both public key and certificate are uploaded to EV-NETCARD web server, the SSL communication encryption will be activated.

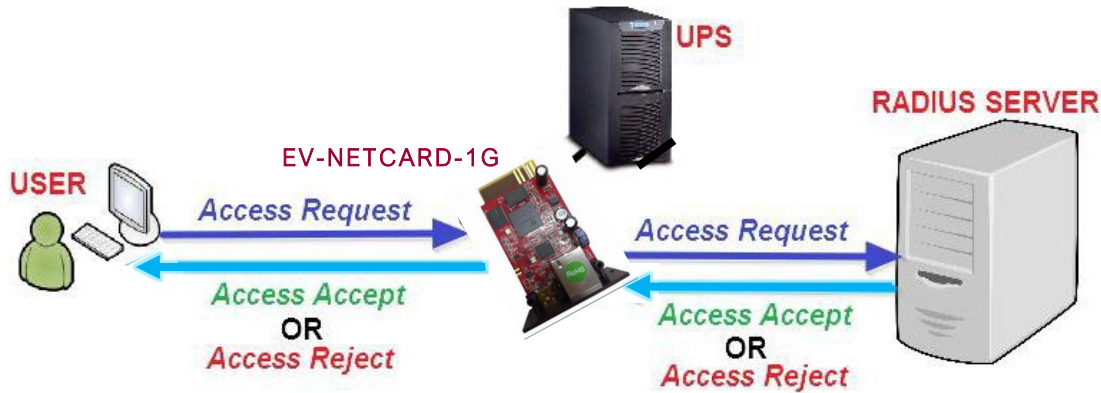
- Select Public Key: Search and find the Public Key file to upload to the web server. When found, press the “Upload and Replace” icon.
- Public Key Length: Lists the length of the Public Key loaded into the web server.
- SSL Certificate: Search and find the SSL certificate file to upload to the web server. When found, press the “Upload and Replace” icon.
- Issued To / By: Lists the issuer and recipient of the SSL Key
- Valid From / Until: Lists the term of validity for the certificate.

(To communicate via HTTPS, make sure to enable HTTPS port 443.) To have the EV-NETCARD create its own public key and certificate, please refer to OpenSSL software on the OpenSSL website at: <https://openssl-library.org/source/>



NOTE: When connecting the EV-NETCARD using HTTPS, with its own generated public key and certificate, the web browser may show an error, please ignore and continue.

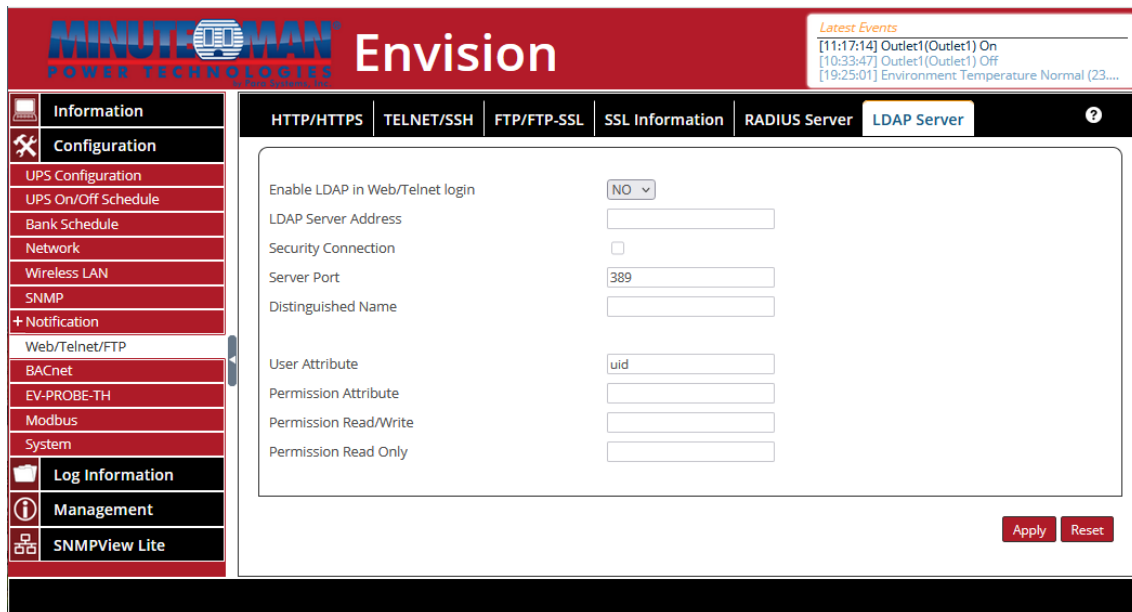
- **RADIUS Server** - RADIUS server authentication is supported on the EV-NETCARD card. It can be configured and activated via the menu options.



- Enable RADIUS in Web/Telnet Login: Select “Yes” or “No” from the dropdown menu
- RADIUS Server Address: If using RADIUS, enter the IP address of the RADIUS Server
- Authentication Port: Enter RADIUS port number (The default is 812)
- Shared Key: Enter the Shared Key between RADIUS Server and client
- Connection Timeout: Sets 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 after connection failures.

When all the configuration settings are completed, press the “Apply” icon.

- **LDAP Server** - LDAP is a vendor-neutral software protocol used to lookup information or devices within a network. For setup information, please see your server settings.



The screenshot shows the MINUTEMAN Envision web interface. The top header includes the MINUTEMAN logo and the title "Envision". A "Latest Events" box in the top right corner displays three events: "[11:17:14] Outlet1(Outlet1) On", "[18:33:47] Outlet1(Outlet1) Off", and "[19:25:01] Environment Temperature Normal (23...". The left sidebar contains a navigation menu with categories: Information, Configuration, Log Information, Management, and SNMPView Lite. The "Configuration" category is expanded, showing sub-items like UPS Configuration, Bank Schedule, Network, Wireless LAN, SNMP, Web/Telnet/FTP, BACnet, EV-PROBE-TH, Modbus, and System. The "BACnet" sub-item is selected. The main content area has tabs for HTTP/HTTPS, TELNET/SSH, FTP/FTP-SSL, SSL Information, RADIUS Server, and LDAP Server. The "LDAP Server" tab is active, displaying configuration fields for enabling LDAP, server address, security connection, server port (389), distinguished name, user attribute (uid), permission attribute, and permission read/write. "Apply" and "Reset" buttons are at the bottom right.

■ BACnet

The EV-NETCARD card supports BACnet/IP (Building Automation and Control/Internet Protocol)

- BACnet Device: Use this menu option to configure the device ID and access port number for the EV-NETCARD card when using BACnet for communications.
 - BACnet Device ID: Enter the assigned ID number to use for the card. (-1 is Out of Service)
 - BACnet Port (0-65535): Enter a BACnet port number for the card.
- Notification: Configure the recipients for notifications from the card.
 - Destination IP: Enter the IP address, (up to 4), for receiving notifications from the EV-NETCARD card.
 - Accept: Set to receive notifications or not
 - Port (0-65535): Enter the BACnet Port number for the recipient.
 - Severity: List the type of notifications to send to the recipient: (Alarm or Event)
 - Description: This is an open field which provides a field to make notes for the administrator's reference.

When all the configuration settings are completed, press the "Apply" icon and the card will reboot for all configurations to take effect.

Envision

Latest Events
 [11:17:14] Outlet1(Outlet1) On
 [10:33:47] Outlet1(Outlet1) Off
 [19:25:01] Environment Temperature Normal (23....

Information

Configuration

UPS Configuration

UPS On/Off Schedule

Bank Schedule

Network

Wireless LAN

SNMP

+ Notification

Web/Telnet/FTP

BACnet

EV-PROBE-TH

Modbus

System

Log Information

Management

SNMPView Lite

BACnet

BACNet Device
 BACNet Device ID * (-1 = Out of service)
 BACNet Port (0-65535)

Notification

Destination IP	Accept	Port (0-65535)	Severity	Description
	No ▾		Alarm ▾	
	No ▾		Alarm ▾	
	No ▾		Alarm ▾	
	No ▾		Alarm ▾	

* : System will reboot when these items have been Applied.

Apply

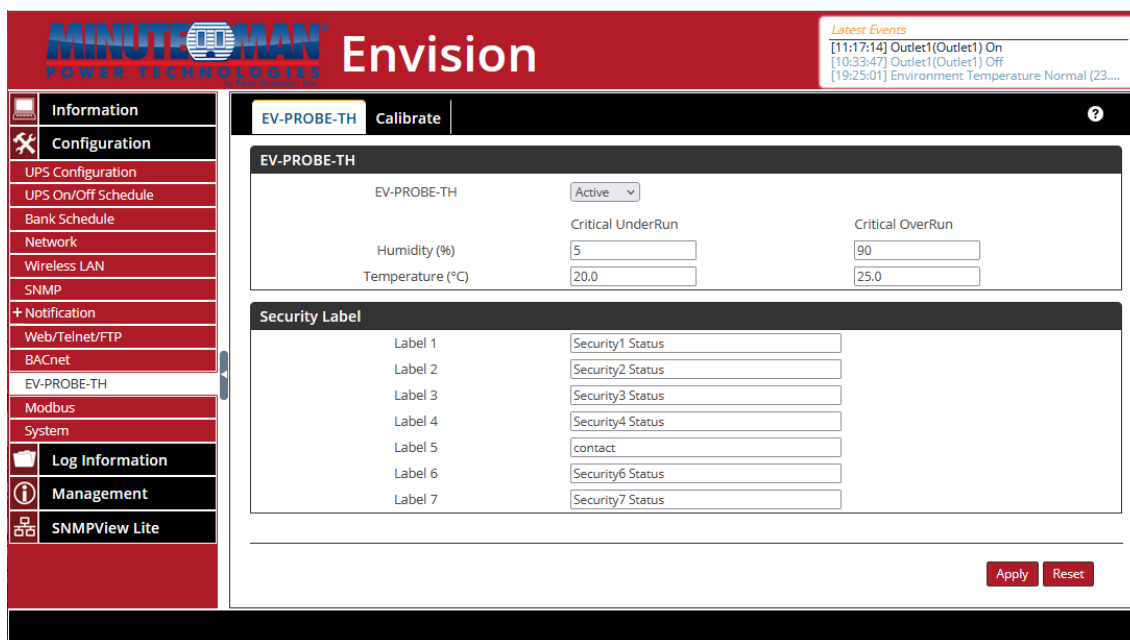
Reset

■ EV-PROBE-TH

The EV-PROBE-TH is an optional external environmental sensor and hub device. Its primary purpose is to detect temperature, humidity and water conditions and trigger alarms when conditions warrant. The EV-PROBE-TH also contains a built-in RF receiver for use with other external sensors such as smoke and contact sensors.

• EV-PROBE-TH

- EV-PROBE-TH: The EV-PROBE-TH, when configured, will sound an audible alarm and trigger a trap or warning message when it detects temperature and humidity values or standing water below and above the programmed settings.
 - EV-PROBE-TH: Enable or disable the probe function
 - Humidity (%): Program the minimum and maximum thresholds for humidity alarms.
 - Temperature (°C): Set the minimum and maximum thresholds for temperature alarms.
- Security Label: Connect up to 7 additional contact sensors that communicate with the EV-PROBE-TH via RF. Use this section to set a descriptive location or name for each installed contact sensor.



MINUTEMAN POWER TECHNOLOGIES Envision

Latest Events
 [11:17:14] Outlet1(Outlet1) On
 [10:33:47] Outlet1(Outlet1) Off
 [19:25:01] Environment Temperature Normal (23....

EV-PROBE-TH Calibrate

EV-PROBE-TH Active

Humidity (%) Critical UnderRun Critical OverRun

Temperature (°C)

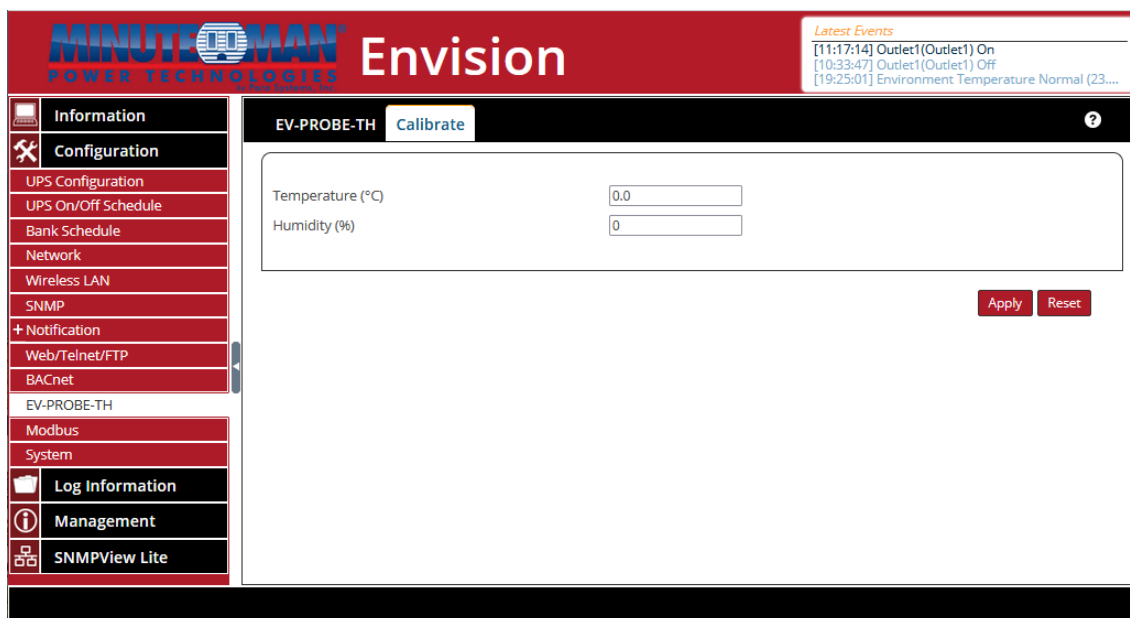
Security Label

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

Apply **Reset**

- **Calibrate** – Use this tab to verify and calibrate the EV-PROBE-TH temperature and humidity settings. Use an external sensor to verify conditions and enter in the respective fields.

When all the configuration settings are completed, press the “Apply” icon.



MINUTEMAN POWER TECHNOLOGIES Envision

Latest Events
 [11:17:14] Outlet1(Outlet1) On
 [10:33:47] Outlet1(Outlet1) Off
 [19:25:01] Environment Temperature Normal (23....

EV-PROBE-TH Calibrate

Temperature (°C)

Humidity (%)

Apply **Reset**

■ MODbus

Use this menu option to set the MODbus settings on the EV-NETCARD card.

- MODbus on TCP/IP: To deactivate use of the MODbus function over TCP/IP, use the default (-1) setting. If activating, then select a port from 1-255.

- MODbus on RS485: Program the settings for use of the MODbus function over a RS485 connection.

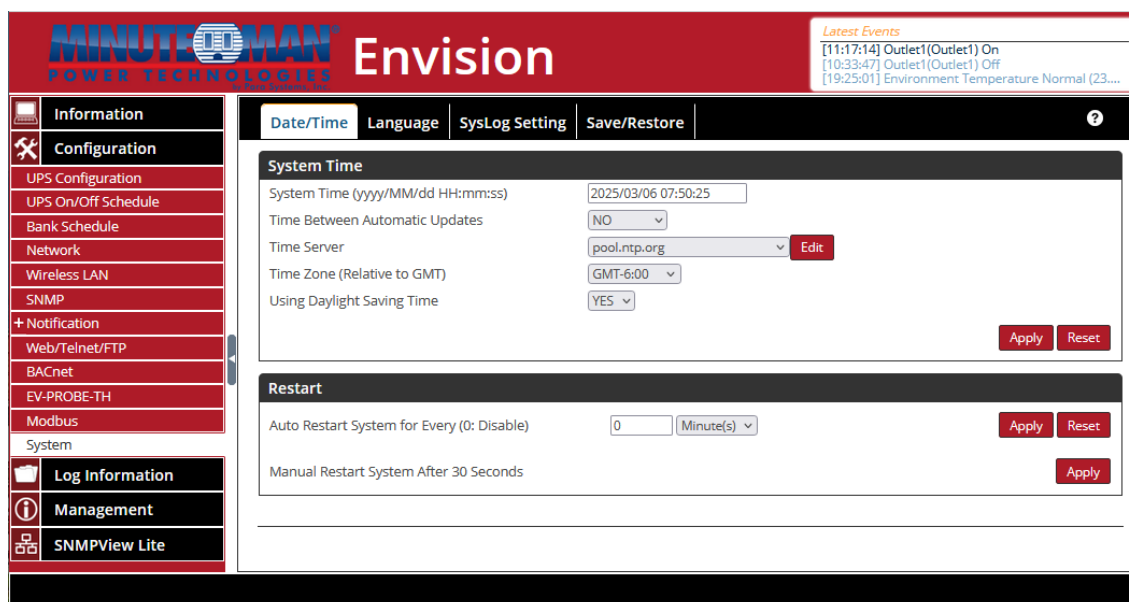
When all the configuration settings are completed, press the “Apply” icon.

■ System

Use this menu option to set the EV-NETCARD card system time, language and SYSLOG configuration.

- **Date/Time** - Synchronize the EV-NETCARD card with an external source or internal Time Server for correct date and time settings.
 - System Time:
 - System Time (yyyy/mm/dd hh:mm:ss): Set the initial date and time to manually display on the EV-NETCARD card.
 - Time Between Automatic Updates: Sets an interval for time synchronizations.
 - Time Server: The use of an internet-based time server can be selected from the drop down list or add other time server manually.
 - Time Zone(Relative to GMT): Choose the time zone for the installation site by selecting an option from the dropdown menu, (relative to the GMT time zone).
 - Using Daylight Saving Time: Select “Yes” or “No” for using the automatic daylight savings adjustment feature.
 - Restart:
 - Auto Restart System for Every (0 is disabled): Set the EV-NETCARD to restart automatically at preset hour or minute or select “0” to disable. Press “Apply” to complete the programming.
 - Manual Restart System After 30 seconds: Press the “Apply” icon to perform a restart of the EV-NETCARD card. (The restart has a 30-second delay after pressing “Apply”).

When all the configuration settings are completed, press the “Apply” icon.



- **Language** - Program the preferred language interface settings for the EV-NETCARD card.
 - Interface Language: Select the preferred language to use for the web browser interface of the EV-NETCARD card. When first logging in to the EV-NETCARD webpage, it will auto detect the default OS language of the PC and show the same language until changed and active using this option.

Languages supported by the EV-NETCARD card:

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

NOTE: Cookies must be enabled on the web browser before using this function.

- Email Preference: Select the language preference when sending email and SMS alarm messages.

The screenshot shows the MinuteMan Envision web interface. The top header is red with the MinuteMan logo and the word "Envision". On the right, there's a "Latest Events" section showing a log of events. The left sidebar contains a menu with categories: Information, Configuration, Log Information, Management, and SNMPView Lite. The main content area has tabs for Date/Time, Language, SysLog Setting, and Save/Restore. The "Language" tab is active, displaying the "Interface Language" section with radio buttons for various languages: English (selected), Deutsch, Português, Español, Français, Italiano, Türkçe, 繁體中文, 简体中文, 한글, 日本語, Русский, ไทย, and Polska. Below this is the "Email Preferences" section with a dropdown menu set to "English". At the bottom right of the main content area are "Apply" and "Reset" buttons.

- **SYSLOG Setting** - Use this menu option to set the SYSLOG configuration.
 - Enable Syslog Server: Select No or Yes for activation of the Syslog function.
 - Syslog Protocol: Choose either UDP or TCP for the Syslog protocol
 - TCP Octet Counting: Check if using TCP Octal counting
 - Syslog Server Address: Program the network address of the Syslog server.
 - Syslog Port: Choose the port to use for communication with the Syslog server

When all the configuration settings are completed, press the “Apply” icon.

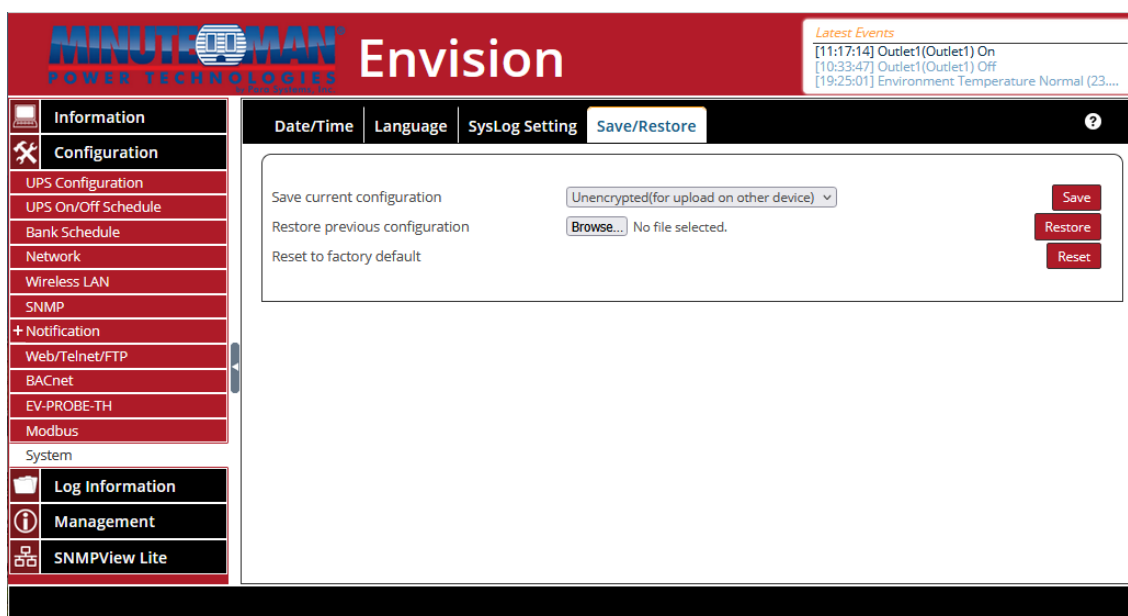
The screenshot shows the MinuteMan Envision web interface with the "SysLog Setting" tab active. The left sidebar is the same as in the previous screenshot. The main content area has tabs for Date/Time, Language, SysLog Setting, and Save/Restore. The "SysLog Setting" tab is active, displaying configuration options: "Enable SysLog Server" (set to NO), "SysLog Protocol" (set to UDP), "TCP Octet Counting" (checked), "SysLog Server Address" (empty text field), and "SysLog Port" (set to 514). At the bottom right of the main content area are "Apply" and "Reset" buttons.

• Save/Restore

- Save Current Configuration: Choose “Encrypted” or “Unencrypted” from the drop down menu to save the current EV-NETCARD configuration to the PC. If uploading to another computer, select “Unencrypted”. The default name of the text file will be: YYYY_MMDD_####.cfg.

NOTE: Administrator permission required to save the file.

- Restore previous configuration: Use this menu option to restore a previously saved configuration. Select “Browse” and to locate the file and press the “Restore.” icon.
- Reset to factory default: Selecting this option will reset all features of the card to its default values.

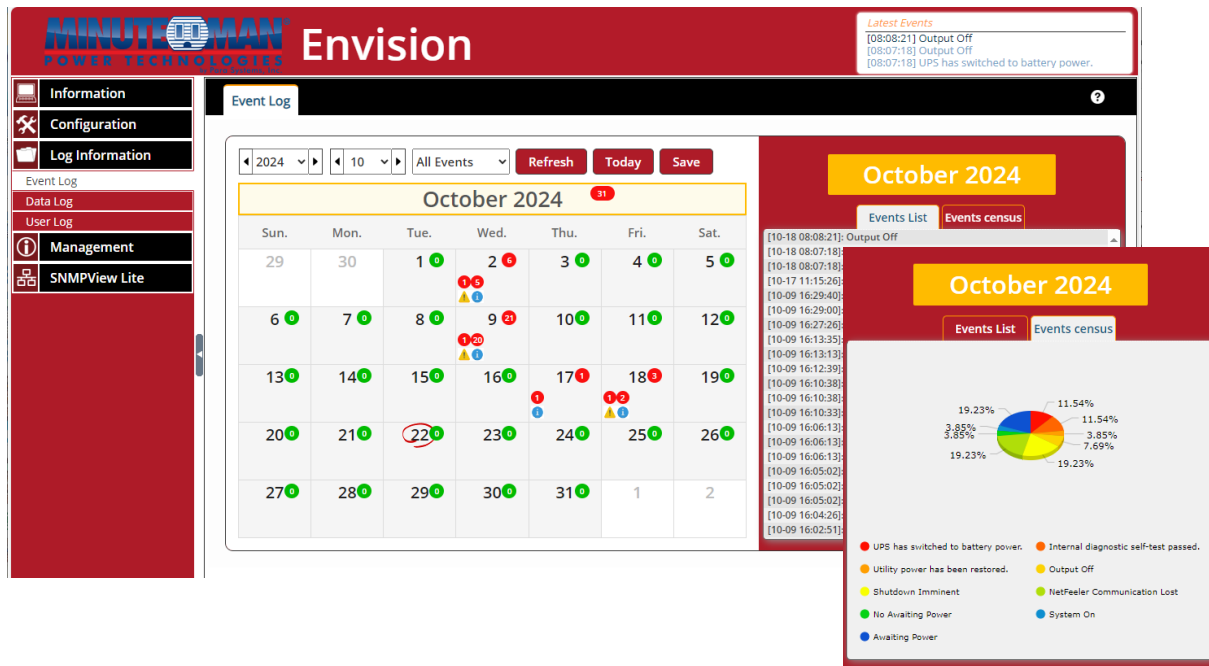


4.4.3 Log Information

■ Event Log

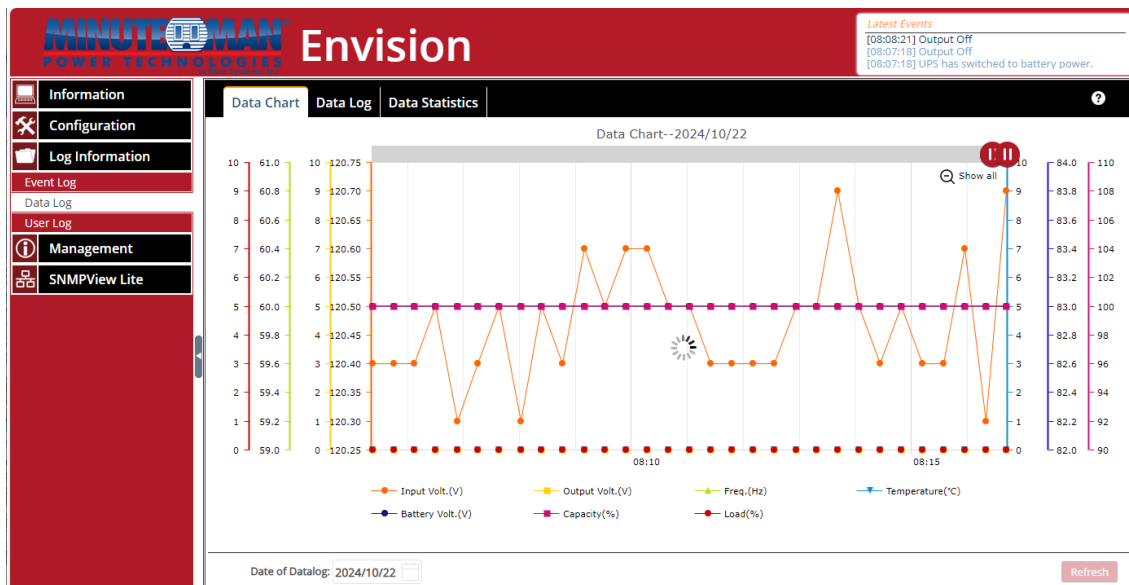
A calendar of events that occur to the UPS.

- Event List: The Event Log displays a record of all events that occur to the UPS, stamping the event by Date and Time. It also provides a detailed description of the event. Select any month or year on the calendar and the events from that month will be displayed. Events can also be filtered by Type: Severe, Warning or Notification. Press the “Refresh” icon and the calendar will update events from the previous refresh. Press the “Today” icon for a list of events for the current day. Press the “Save” icon to download the current list of events to a PDF document.
- Event Census: Present the recorded events, within the defined time frame in a statistical manner.



■ Data Log

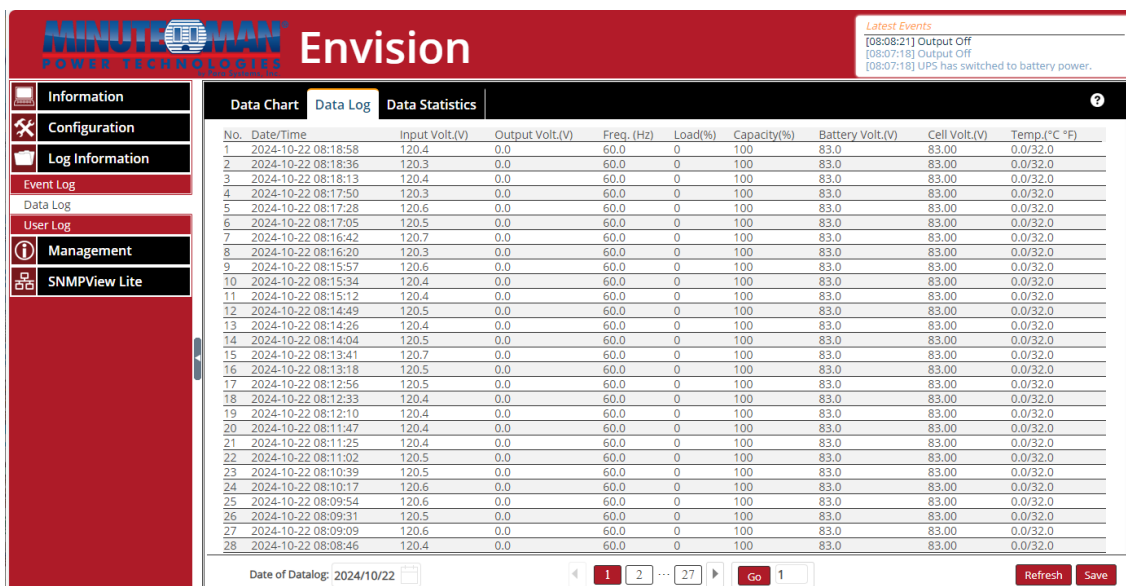
- **Data Chart** - Records a real-time set of data points concerning the UPS: Input Volt.(V); Output Volt.(V); Freq.(Hz); Temperature(°C), Battery Volt.(V); Capacity(%) and Load(%). Logs can be saved in CSV format by clicking on "Save". The bar on top can be adjusted to check the log status at specific time of the day.



- **Data Log** - This menu option records UPS statistics in a list format and are date and time stamped as they occur. This list includes:

Input Volt(V)	Output Volt(V)
Freq.(Hz)	Load(%)
Capacity(%)	Battery Volt(V)
Cell Volt(V)	Temp.(°C °F)

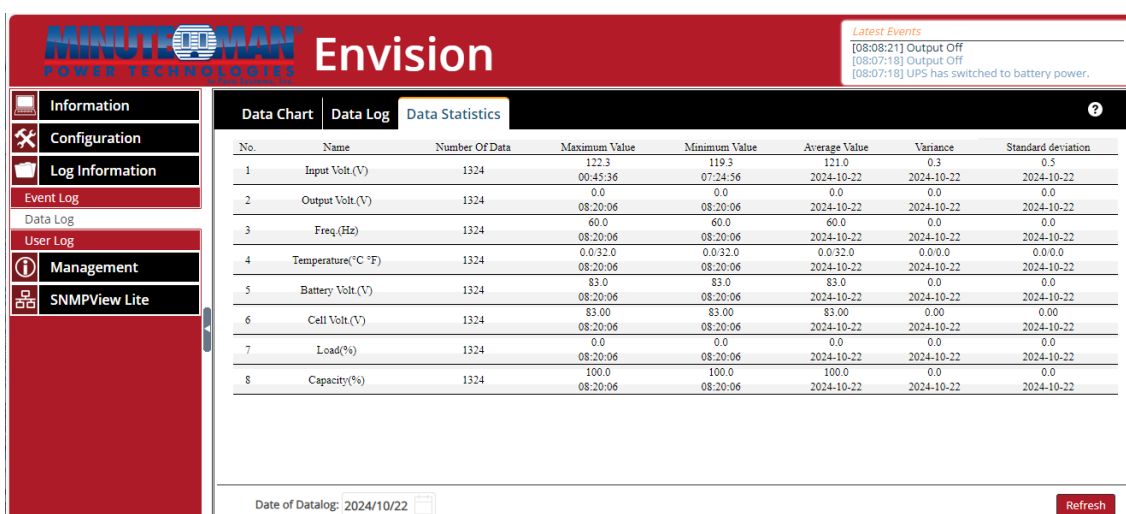
NOTE: When the EV-PROBE-TH is installed, data from connected sensors will also be available.



The screenshot shows the Envision Data Log interface. The left sidebar contains navigation options: Information, Configuration, Log Information, Event Log, Data Log (selected), User Log, Management, and SNMPView Lite. The main area displays a table of data logs for the date 2024/10/22. The table has columns for No., Date/Time, Input Volt(V), Output Volt(V), Freq. (Hz), Load(%), Capacity(%), Battery Volt(V), Cell Volt(V), and Temp.(°C °F). The data shows a series of readings over time, with values for Input Volt(V) ranging from 120.3 to 120.6, Output Volt(V) at 0.0, Freq. (Hz) at 60.0, Load(%) at 0, Capacity(%) at 100, Battery Volt(V) at 83.0, Cell Volt(V) at 83.00, and Temp.(°C °F) at 0.0/32.0.

No.	Date/Time	Input Volt(V)	Output Volt(V)	Freq. (Hz)	Load(%)	Capacity(%)	Battery Volt(V)	Cell Volt(V)	Temp.(°C °F)
1	2024-10-22 08:18:58	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
2	2024-10-22 08:18:36	120.3	0.0	60.0	0	100	83.0	83.00	0.0/32.0
3	2024-10-22 08:18:13	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
4	2024-10-22 08:17:50	120.3	0.0	60.0	0	100	83.0	83.00	0.0/32.0
5	2024-10-22 08:17:28	120.6	0.0	60.0	0	100	83.0	83.00	0.0/32.0
6	2024-10-22 08:17:05	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
7	2024-10-22 08:16:42	120.7	0.0	60.0	0	100	83.0	83.00	0.0/32.0
8	2024-10-22 08:16:20	120.3	0.0	60.0	0	100	83.0	83.00	0.0/32.0
9	2024-10-22 08:15:57	120.6	0.0	60.0	0	100	83.0	83.00	0.0/32.0
10	2024-10-22 08:15:34	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
11	2024-10-22 08:15:12	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
12	2024-10-22 08:14:49	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
13	2024-10-22 08:14:26	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
14	2024-10-22 08:14:04	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
15	2024-10-22 08:13:41	120.7	0.0	60.0	0	100	83.0	83.00	0.0/32.0
16	2024-10-22 08:13:18	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
17	2024-10-22 08:12:56	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
18	2024-10-22 08:12:33	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
19	2024-10-22 08:12:10	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
20	2024-10-22 08:11:47	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
21	2024-10-22 08:11:25	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0
22	2024-10-22 08:11:02	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
23	2024-10-22 08:10:39	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
24	2024-10-22 08:10:17	120.6	0.0	60.0	0	100	83.0	83.00	0.0/32.0
25	2024-10-22 08:09:54	120.6	0.0	60.0	0	100	83.0	83.00	0.0/32.0
26	2024-10-22 08:09:31	120.5	0.0	60.0	0	100	83.0	83.00	0.0/32.0
27	2024-10-22 08:09:09	120.6	0.0	60.0	0	100	83.0	83.00	0.0/32.0
28	2024-10-22 08:08:46	120.4	0.0	60.0	0	100	83.0	83.00	0.0/32.0

- **Data Statistics** - Provide details and directions for the current day Data Statistics of the connected UPS.



The screenshot shows the Envision Data Statistics interface. The left sidebar contains navigation options: Information, Configuration, Log Information, Event Log, Data Log, User Log, Management, and SNMPView Lite. The main area displays a table of data statistics for the date 2024/10/22. The table has columns for No., Name, Number Of Data, Maximum Value, Minimum Value, Average Value, Variance, and Standard deviation. The data shows statistics for Input Volt(V), Output Volt(V), Freq. (Hz), Temperature(°C °F), Battery Volt(V), Cell Volt(V), Load(%), and Capacity(%).

No.	Name	Number Of Data	Maximum Value	Minimum Value	Average Value	Variance	Standard deviation
1	Input Volt(V)	1324	122.3	119.3	121.0	0.3	0.5
2	Output Volt(V)	1324	00:45:36	07:24:56	2024-10-22	2024-10-22	2024-10-22
3	Freq. (Hz)	1324	0.0	0.0	0.0	0.0	0.0
4	Temperature(°C °F)	1324	0.0/32.0	0.0/32.0	0.0/32.0	0.0/0.0	0.0/0.0
5	Battery Volt(V)	1324	83.0	83.0	83.0	0.0	0.0
6	Cell Volt(V)	1324	83.00	83.00	83.00	0.00	0.00
7	Load(%)	1324	0.0	0.0	0.0	0.0	0.0
8	Capacity(%)	1324	100.0	100.0	100.0	0.0	0.0

- **User Log** - Provides a running log actions performed through the EV-NETCARD card.

Date/Time	User Name	Log Content
2024/10/18 13:55:59		UPS Action(No.1) be added by user
2024/10/18 13:44:17		Cancel Test be sent by user
2024/10/09 14:02:45		Timer Server Settings be modified by user
2024/10/09 19:02:24		Timer Server Settings be modified by user
2024/09/26 18:59:04		User logout NetAgent from Telnet/SSH(192.168.168.169)
2024/09/26 18:57:17		User login NetAgent through Telnet(192.168.168.169)
2024/09/26 18:57:02		User logout NetAgent from Telnet/SSH(192.168.168.169)
2024/09/26 18:55:23		User login NetAgent through Telnet(192.168.168.169)
2024/09/26 17:37:32		Test Mail(mis@minutemanups.com) be sent by user
2024/09/26 17:36:43		Test Mail(mis@minutemanups.com) be sent by user
2024/09/26 17:36:30		Test Mail() be sent by user
2024/09/26 17:36:24		Email Settings be modified by user
2024/09/26 17:35:51		Test Mail() be sent by user
2024/09/26 17:35:48		Email Settings be modified by user
2024/09/26 17:35:06		Test Mail() be sent by user

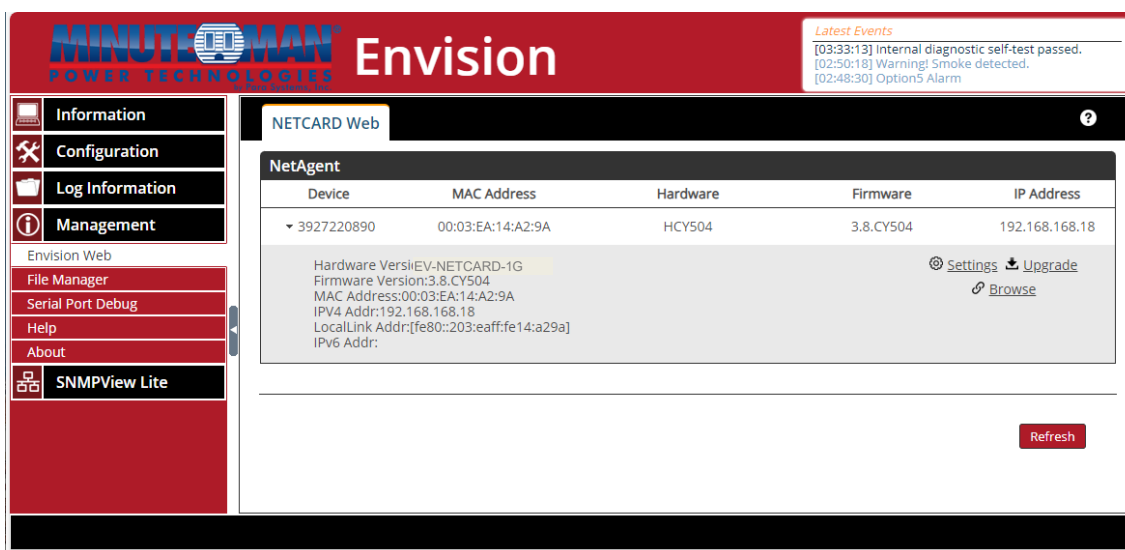
4.4.4 Management

■ Envision Web

- **Netcard Web** - This menu option will display all of the Envision Netcards installed within the network. Each card listing will include: its serial number; Mac Address; Hardware/Firmware version and IP-address. Highlight and select a card to bring up available configuration options.
 - Settings: Updates and changes can be made to the network accessibility of the Envision Netcard. If the fields on this window are left blank, the EV-NETCARD will not be accessible.
 - ★ **WARNING**: Any changes made can have a direct affect on the accessibility of the card on the network.
 - **IPv4 Address**: Enter a new IP address using, DHCP, Bootp or manually entering a static IP address. If entering a static, enter the preferred IP address, Subnet Mask and Gateway address in the provided fields, then press "OK".
 - **IPv6 Address**: Create an IPV6-based address for the card using: Automatic, Stateless DHCPV6, DHCPV6 or automatic options. If using "Manual" enter the preferred IP address, IPV6 Prefix and the Gateway address in the provided fields, then press "OK".
 - **Advanced**: Set the preferred available protocol functions used by the card. The card can accept one or more of the following: HTTP, HTTPS, TELNET, and SSH. When selecting an option, input the port number to use for that option. When completed, press the "OK" icon.

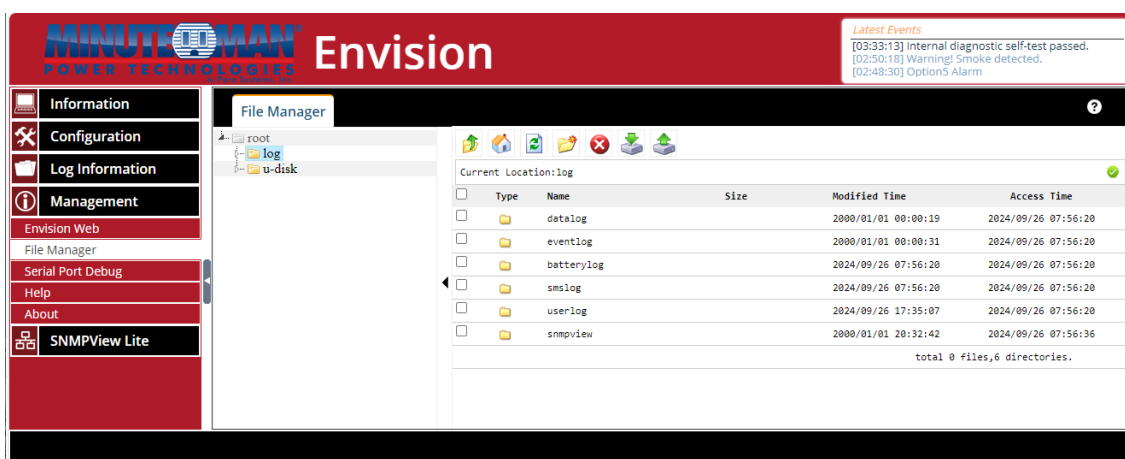
- Password: Set or change a password for access to the card. If a password is previously in use, enter the old password in the field provided, then enter the new password and confirm it before pressing the “OK” icon.
- Upgrade: When selected, follow the instructions to download the new configuration file created for the card.
- Browse: Selecting “Browse” will directly redirect the web browser to the webpage of the card.

If the EV-NETCARD is accessible by WAN IP, the Envision Web utility will also be able to list out all the other available EV-NETCARD cards under same LAN. (HTTP port 81 must be enabled on the EV-NETCARD with WAN IP and domain to be as http://xxx.xxx.xx:81 where (xxx.xxx.xx) is the WAN IP or domain name.



■ File Manager

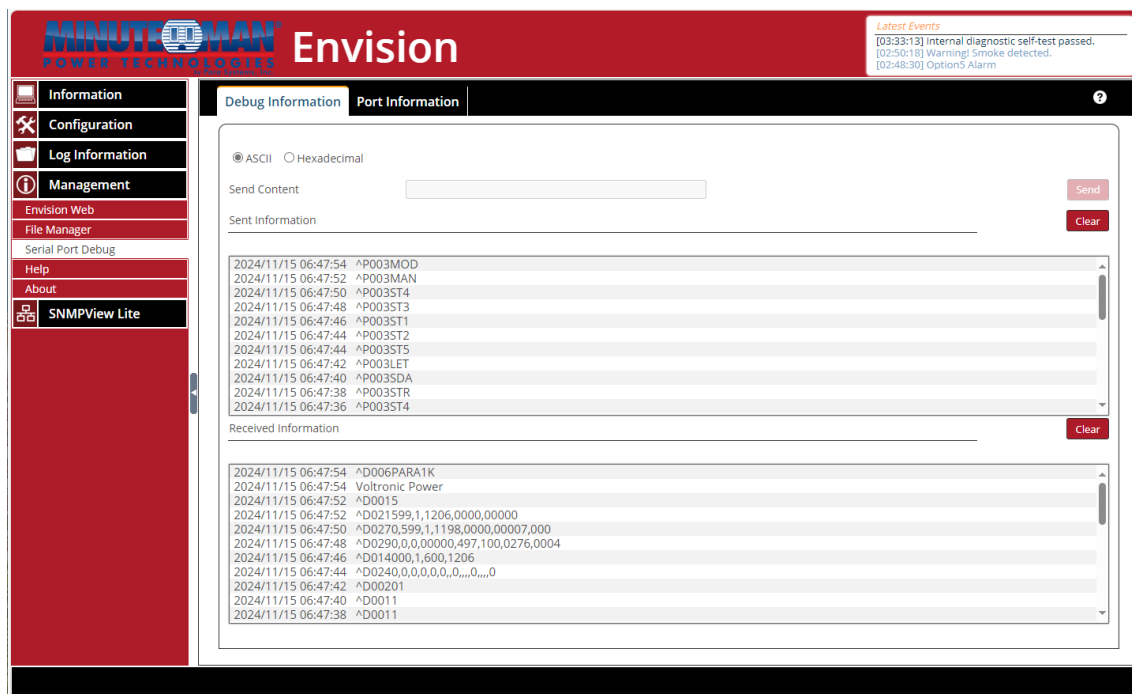
Use this menu option to manage Datalog files generated by the EV-NETCARD card as well as configuration files used for the batch programming multiple cards over a network. Once the datalog files have been reviewed, they can be saved or deleted. If a “dat. File” is deleted, the log record will also be erased on the Log display of the card, under the Log Information menu tab.



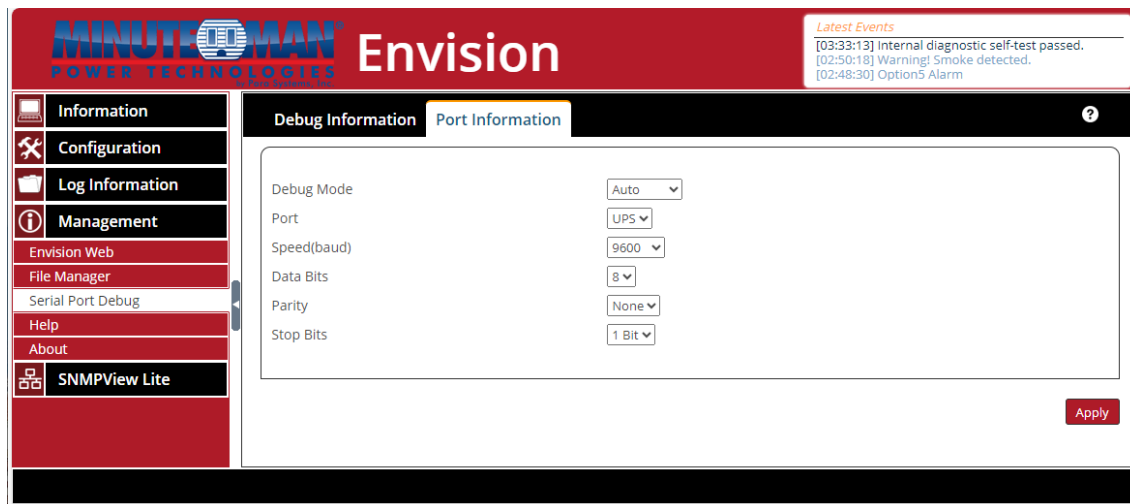
■ Serial Port Debug

Logs the communication status between the EV-NETCARD card and the UPS, listed through Sent and Received sections.

- **Debug Information** - Commands can be sent automatically by the EV-NETCARD card to the UPS. Commands can also be manually sent by entering the command to the UPS in the "Sent Content" field. Select either ASCII or Hexadecimal format when sending commands.
 - Sent Information: This section shows the real time sent commands in chronological order to the UPS.
 - Received Information: This section displays the responses of the UPS to the EV-NETCARD card.

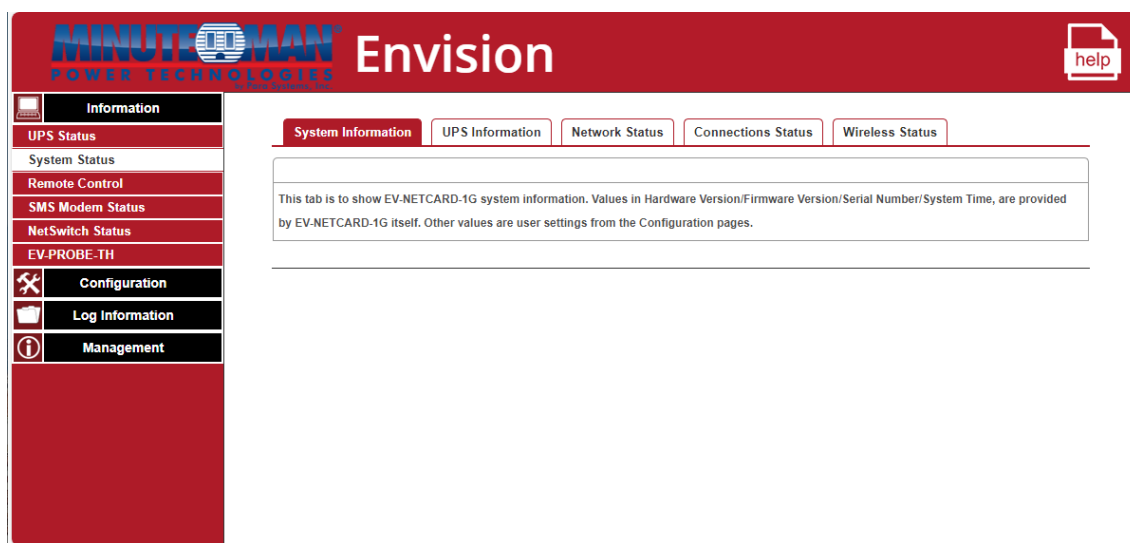


- **Port Information** - Configures the communication parameters between the EV-NETCARD card and the UPS. The available parameters are: Debug Mode, Port, Speed (Baud), Data Bits, Parity and Stop Bits. The two encoding formats are: ASCII or Hexadecimal.



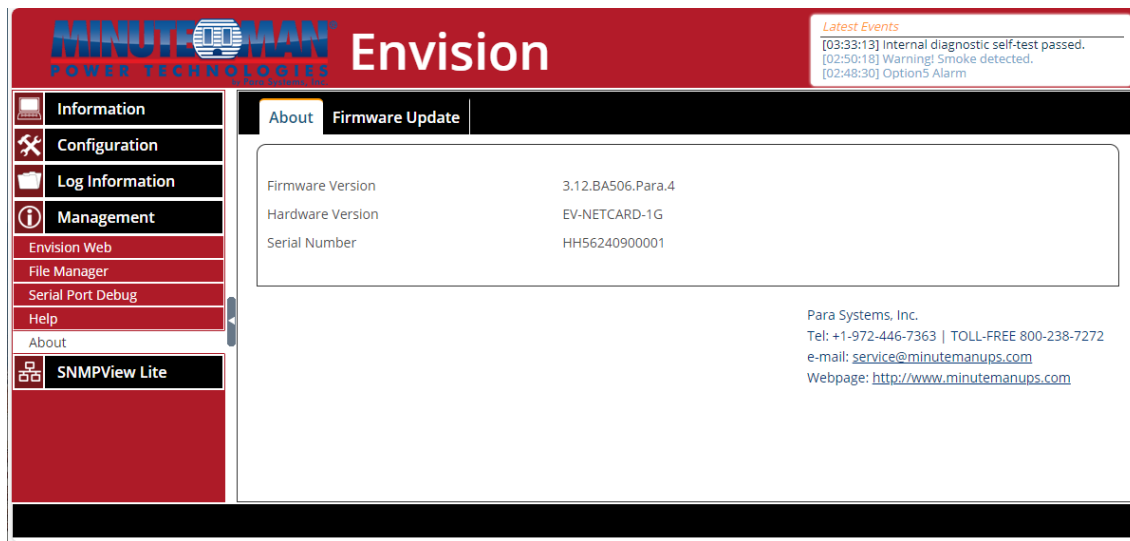
■ Help

The EV-NETCARD card offers an online Help resource library that provides answers to questions and description on the function of individual pages of the web browser interface.



■ About

- **About** - Displays the hardware and firmware revisions as well as the serial number for the card.



- **Firmware Update** - This menu option is used for updating the firmware of the EV-NETCARD card.

- Update by FTP/SFTP:

- Protocol Type: Set the protocol between FTP and SFTP using the dropdown menu
- FTP/SFTP Server: Enter the FTP server location on the network for the firmware update
- User: Customer's user credentials
- Password: Enter the password for the user.

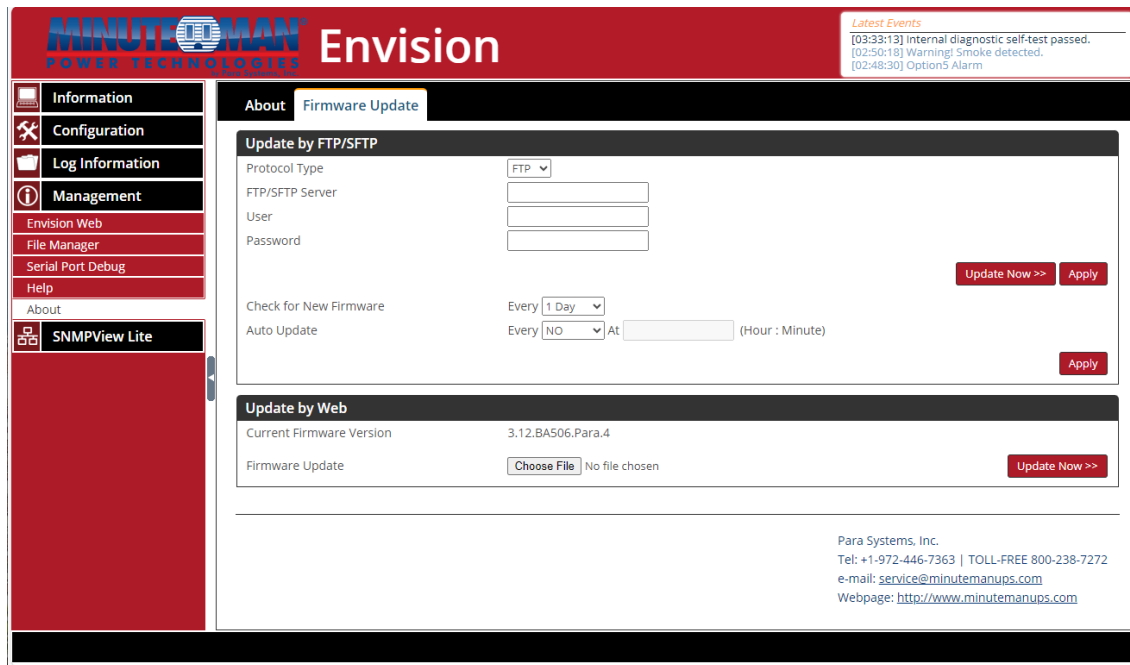
When the information has been entered, select "Apply" to save the settings. The firmware will commence according to the programmed settings. Press the "Update Now" to manually perform the firmware update.

- Check for New Firmware: Select an interval date from the dropdown menu.
- Auto Update: Select an interval and time to perform the firmware upgrades using the dropdown menu and open field.

When the information has been entered, select "Apply". The firmware will update according to the programmed settings.

- Update by Web:

- Current Firmware Version: Displays the current firmware used by the EV-NETCARD card
- Firmware update: Choose a specific folder and file to use for updating the firmware of the card, then press the "Update Now>>" icon to begin the update process.

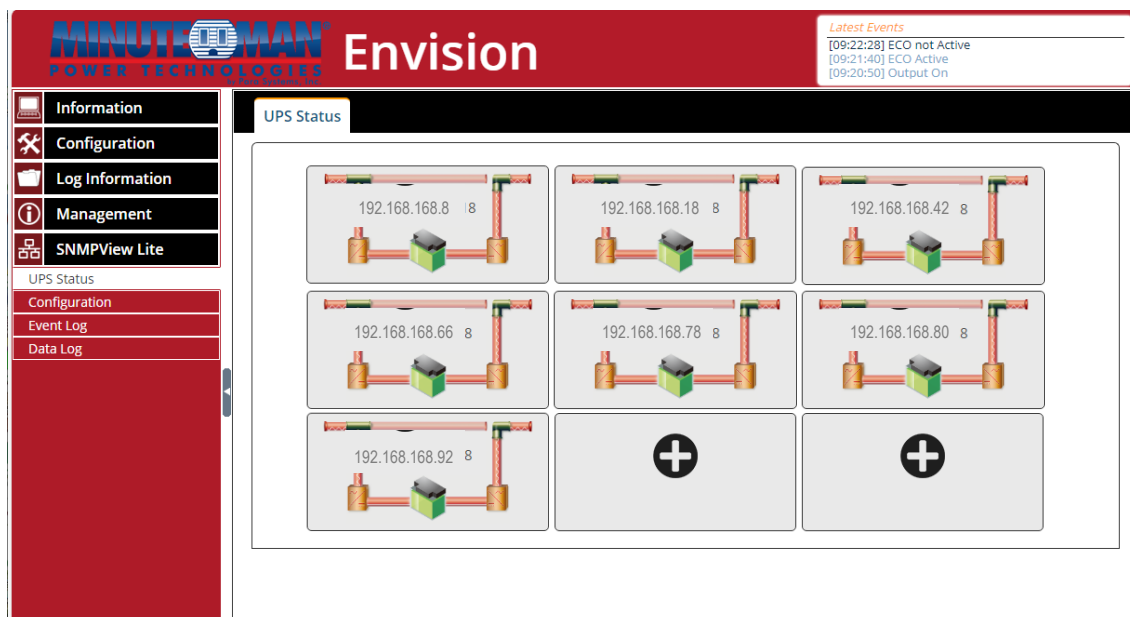


4.4.5 SNMPView Lite

SNMPView Lite provides a single platform for real-time monitoring and programming of up to 9 active EV-NETCARD cards over a network connection.

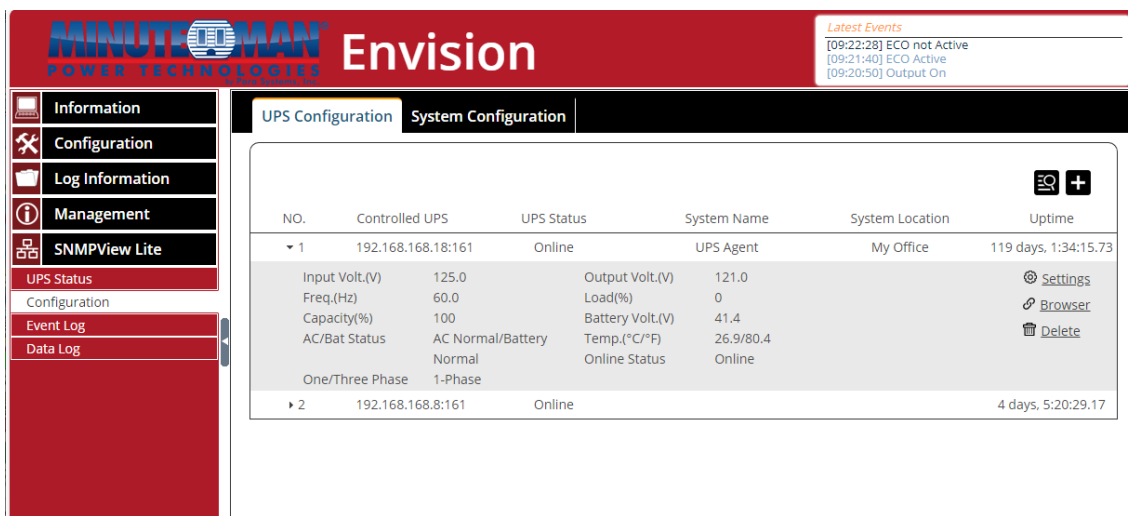
■ UPS Status

- **UPS Status** – The UPS Status page can provide a real-time display of up to 9 EV-NETCARD cards over a network connection. The monitoring screen will show the current UPS connection status in graphic mode with Voltage, Frequency, IP-address and other information. Any of the 9 active cards displayed can be removed and/or replaced with other cards on the network using the Configuration menu.



■ Configuration

- **UPS Configuration** – The Configuration page provides a real-time list of up to 9 EV-NETCARD cards over a network connection. The cards listed on this page will be the same as the cards listed on the UPS Status page. Selecting any one card among the list will expand the detailed information on that card.
 - Settings: Review or Update and change the IP-address information for the card. The security level of the card, (SNMPv1, SNMPv2c, SNMPv3), can also be updated using this screen.
 - Browser: Selecting Browser will redirect the browser screen directly to the selected card.
 - Delete: Selecting Delete will remove the card from the list of monitored cards and from the UPS Status screen



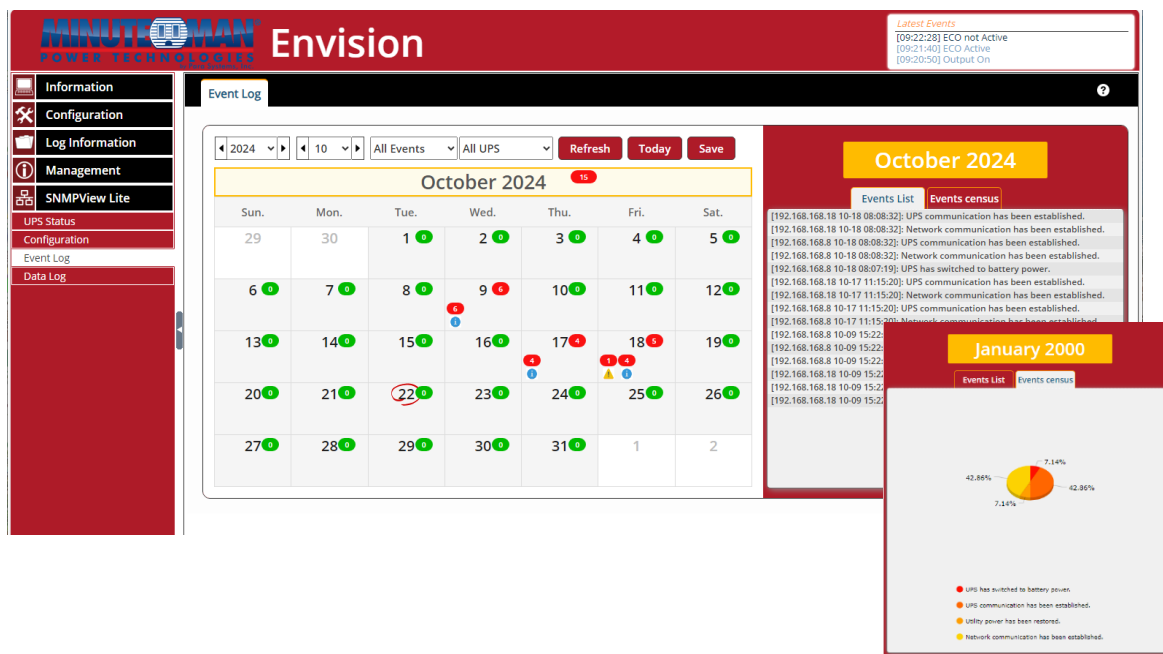
The screenshot shows the Envision web interface for UPS Configuration. The left sidebar contains navigation links: Information, Configuration, Log Information, Management, SNMPView Lite, UPS Status, Configuration, Event Log, and Data Log. The main content area is titled 'UPS Configuration' and 'System Configuration'. It displays a table of monitored UPS cards.

NO.	Controlled UPS	UPS Status	System Name	System Location	Uptime																					
▼ 1	192.168.168.18:161	Online	UPS Agent	My Office	119 days, 1:34:15.73																					
<table border="0"> <tr> <td>Input Volt.(V)</td> <td>125.0</td> <td>Output Volt.(V)</td> <td>121.0</td> <td rowspan="5"> Settings Browser Delete </td> </tr> <tr> <td>Freq.(Hz)</td> <td>60.0</td> <td>Load(%)</td> <td>0</td> </tr> <tr> <td>Capacity(%)</td> <td>100</td> <td>Battery Volt.(V)</td> <td>41.4</td> </tr> <tr> <td>AC/Bat Status</td> <td>AC Normal/Battery</td> <td>Temp.(°C/°F)</td> <td>26.9/80.4</td> </tr> <tr> <td>One/Three Phase</td> <td>1-Phase</td> <td>Online Status</td> <td>Online</td> </tr> </table>						Input Volt.(V)	125.0	Output Volt.(V)	121.0	Settings Browser Delete	Freq.(Hz)	60.0	Load(%)	0	Capacity(%)	100	Battery Volt.(V)	41.4	AC/Bat Status	AC Normal/Battery	Temp.(°C/°F)	26.9/80.4	One/Three Phase	1-Phase	Online Status	Online
Input Volt.(V)	125.0	Output Volt.(V)	121.0	Settings Browser Delete																						
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AC/Bat Status	AC Normal/Battery	Temp.(°C/°F)	26.9/80.4																							
One/Three Phase	1-Phase	Online Status	Online																							
▶ 2	192.168.168.8:161	Online			4 days, 5:20:29.17																					

- **System Configuration** – Provides an option to change the system settings for the cards included on the UPS Status and Configuration pages. The changes on this page will only affect the cards that are actively being monitored.
 - SNMP: View the current port settings and community settings for the active cards on the UPS Status page or make any changes desired. The SNMP polling interval for the cards also can be altered. Use the “Period of No Response” field to change the number of times the selected cards are pinged without response before an alarm is issued.
 - Log: The Log fields allow for activating or deactivating the Event and Data logging functions. The interval for the reporting of data and events can also be adjusted as well as the creation of a backup log, if desired.

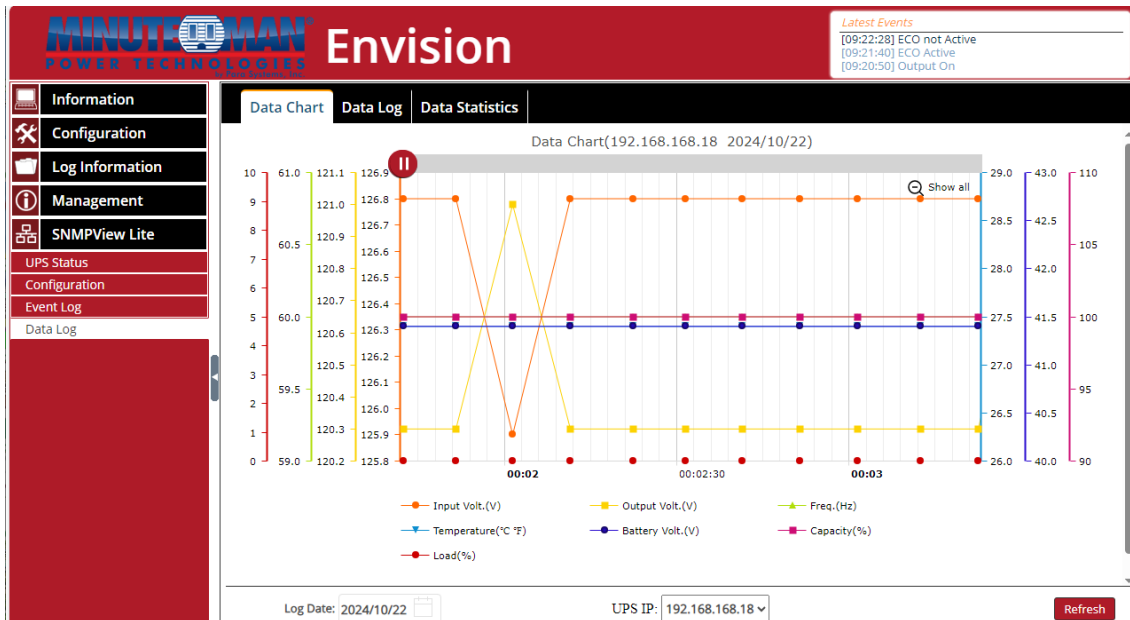
■ Event Log

- Event Log** – Provides a monthly summary of events that occurred to the selected cards on the UPS Status or Configuration pages. The default calendar of events is set to Monthly but can be changed to view the current daily events. Use the drop down menus, then select “Refresh”, to look at previous months events. The drop down menus can also be used to select specific cards and the type of events to list: All, Severe, Warning and Information.
 - Events List: Features a filtered list of all the events noted on the calendar by the settings used.
 - Events Census: Displays the filtered list of events in a graphical pie chart.



■ Data Log

- **Data Chart** – The data chart provides a running stream of input, output and load factors for a specific EV-NETCARD card based on data points from the time intervals set in the System Configuration page of SNMPView Lite. Select the individual card to monitor from the drop down menu at the bottom of the page. Scroll the mouse over any of the data points to see the specific values for that particular date and time. The beginning and ending intervals can be adjusted by moving the vertical start and finish dates



- **Data Log** – Provides the same information as the Data chart page but in a list of data points. The default information on the screen represents the latest data points. Press the refresh icon to update the information. To view earlier data points, select a date from the drop down menu at the bottom of the page.
To save the information, press the Save icon and the information will be compiled into a csv file which can be saved or viewed using a compatible viewer like Microsoft Excel.



Envision

Latest Events

- [09:22:28] ECO not Active
- [09:21:40] ECO Active
- [09:20:50] Output On

- Information
- Configuration
- Log Information
- Management
- SNMPView Lite
- UPS Status
- Configuration
- Event Log
- Data Log

Data Chart | **Data Log** | Data Statistics

No.	Controlled UPS	Date/Time	Input Volt.(V)	Output Volt.(V)	Freq. (Hz)	Load(%)	Capacity(%)	Battery Volt.(V)	Temp.(°C °F)	System Name	System Location
1	192.168.168.18	2024-10-22 14:40:24	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
2	192.168.168.18	2024-10-22 14:40:14	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
3	192.168.168.18	2024-10-22 14:40:04	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
4	192.168.168.18	2024-10-22 14:39:54	125.0	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
5	192.168.168.18	2024-10-22 14:39:45	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
6	192.168.168.18	2024-10-22 14:39:35	125.0	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
7	192.168.168.18	2024-10-22 14:39:24	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
8	192.168.168.18	2024-10-22 14:39:14	125.0	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
9	192.168.168.18	2024-10-22 14:39:04	125.0	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
10	192.168.168.18	2024-10-22 14:38:55	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
11	192.168.168.18	2024-10-22 14:38:45	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
12	192.168.168.18	2024-10-22 14:38:35	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
13	192.168.168.18	2024-10-22 14:38:24	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
14	192.168.168.18	2024-10-22 14:38:14	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
15	192.168.168.18	2024-10-22 14:38:04	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
16	192.168.168.18	2024-10-22 14:37:54	124.1	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
17	192.168.168.18	2024-10-22 14:37:45	124.1	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
18	192.168.168.18	2024-10-22 14:37:35	124.1	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
19	192.168.168.18	2024-10-22 14:37:24	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
20	192.168.168.18	2024-10-22 14:37:14	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
21	192.168.168.18	2024-10-22 14:37:04	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
22	192.168.168.18	2024-10-22 14:36:55	124.1	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
23	192.168.168.18	2024-10-22 14:36:45	125.0	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
24	192.168.168.18	2024-10-22 14:36:34	125.0	121.0	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
25	192.168.168.18	2024-10-22 14:36:24	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office
26	192.168.168.18	2024-10-22 14:36:14	125.0	120.3	60.0	0.0	100	41.4	26.9/80.4	UPS Agent	My Office

Log Date: 2024/10/22 1 2 ... 106 Go 1 UPS IP: 192.168.168.18 Refresh Save

- Data Statistics** – The Data Statistics page provides a snapshot of minimum and maximum values for the input and output of a specific UPS with an installed EV-NETCARD card. The information is limited to a specific date which can be selected from the field at the bottom of the page. The information provided shows input and output voltage, frequency, UPS temperature, connected load information and battery voltage.



Envision

Latest Events

- [09:22:28] ECO not Active
- [09:21:40] ECO Active
- [09:20:50] Output On

- Information
- Configuration
- Log Information
- Management
- SNMPView Lite
- UPS Status
- Configuration
- Event Log
- Data Log

Data Chart | Data Log | **Data Statistics**

No.	Name	Number Of Data	Maximum Value	Minimum Value	Average Value	Variance	Standard deviation
1	Input Volt. (V)	5292	127.7 00:11:11	123.3 08:27:01	125.4 2024-10-22	1.1 2024-10-22	1.1 2024-10-22
2	Output Volt. (V)	5292	121.0 00:01:11	120.3 00:00:01	120.6 2024-10-22	0.1 2024-10-22	0.3 2024-10-22
3	Load(%)	5292	0.0 00:00:01	0.0 00:00:01	0.0 2024-10-22	0.0 2024-10-22	0.0 2024-10-22
4	Freq. (Hz)	5292	60.0 00:00:01	60.0 00:00:01	60.0 2024-10-22	0.0 2024-10-22	0.0 2024-10-22
5	Temp. (°C/°F)	5292	28.0/82.4 00:58:32	25.7/78.3 00:09:41	27.0/80.6 2024-10-22	0.4/1.3 2024-10-22	0.6/1.1 2024-10-22
6	Battery Volt. (V)	5292	41.4 00:00:01	41.4 00:00:01	41.4 2024-10-22	0.0 2024-10-22	0.0 2024-10-22
7	Capacity(%)	5292	100.0 00:00:01	100.0 00:00:01	100.0 2024-10-22	0.0 2024-10-22	0.0 2024-10-22

Log Date: 2024/10/22 UPS IP: 192.168.168.18 Refresh

Notes:

Additional Notices:

NOTICE: This product complies with the rules for Class B device, pursuant to Part 15 of the FCC rules for radio noise emissions from a digital apparatus.

These limits are designed to provide reasonable protection against such interference in a residential installation.

This equipment generates and uses radio frequency and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. If this device does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that the computer and receiver are on different branch circuits.
- Shielded communications interface cables must be used with this product.

Life Support Policy

Para Systems does not support the use of any of its products in life support applications where the failure or malfunction of the product can be reasonably expected to cause failure to life support devices or to significantly affect their safety or effectiveness. Furthermore, Para Systems does not recommend the use of any of its products in direct patient care.

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