

PredictPulse Setup for an Eaton Gigabit Network Network-M2 Card Instruction Manual

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PredictPulse™ Setup for an Eaton® Gigabit Network (Network-M2) Card

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Introduction

This document provides instructions on setting up PredictPulse with an Eaton Gigabit Network (Network-M2) card (see Figure 1).

Figure 1. Network-M2 Card



Network-M2 Card Installation

To install the Network-M2 card:

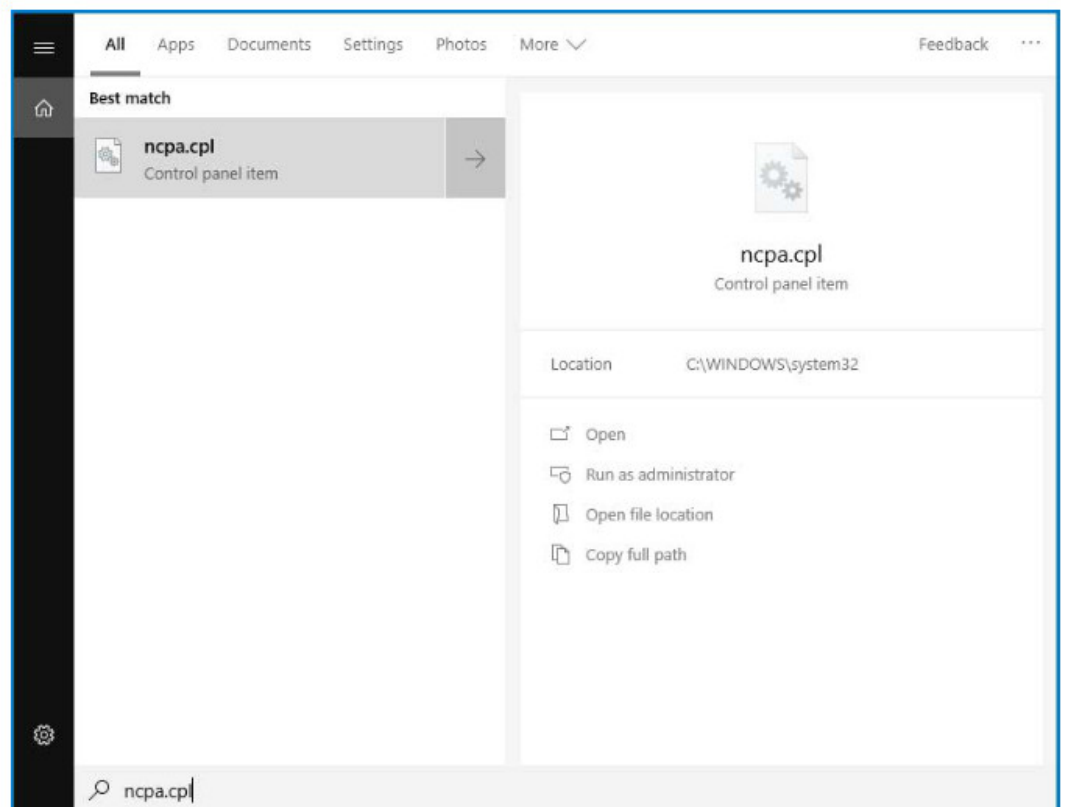
1. Install the Network-M2 card into the UPS and wait approximately three minutes for the card to become operational.
 - The red BOOT status LED blinks while the card is booting.
 - When the card is operational, the green BOOT status LED illuminates and begins to blink (see Figure 2)

Figure 2. Network-M2 Card Green BOOT Status LED



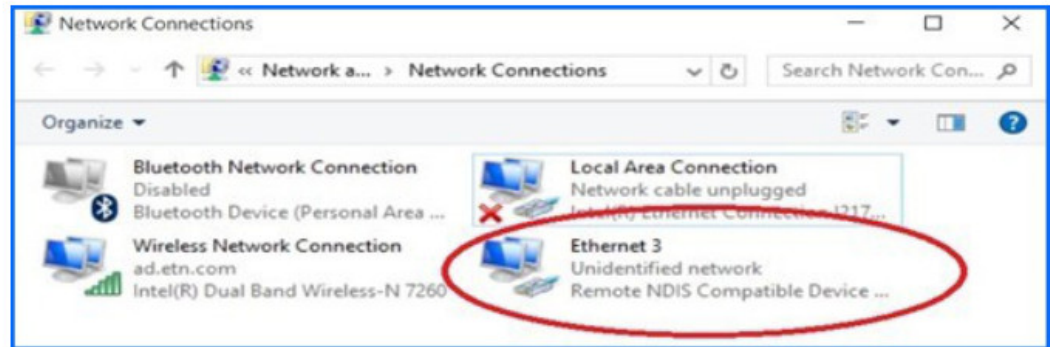
2. Connect the USB configuration cable from your laptop to the Network-M2 card and allow Windows to detect the device.
3. Navigate to the Search window on your laptop, type [ncpa.cpl](#), and then press Enter (see Figure 3).
 - If Network Connections is not found in your search window, type in the control panel, select Network and Sharing Center, and then select Change adapter settings.

Figure 3. Run Windows Search for Ncpa.cpl



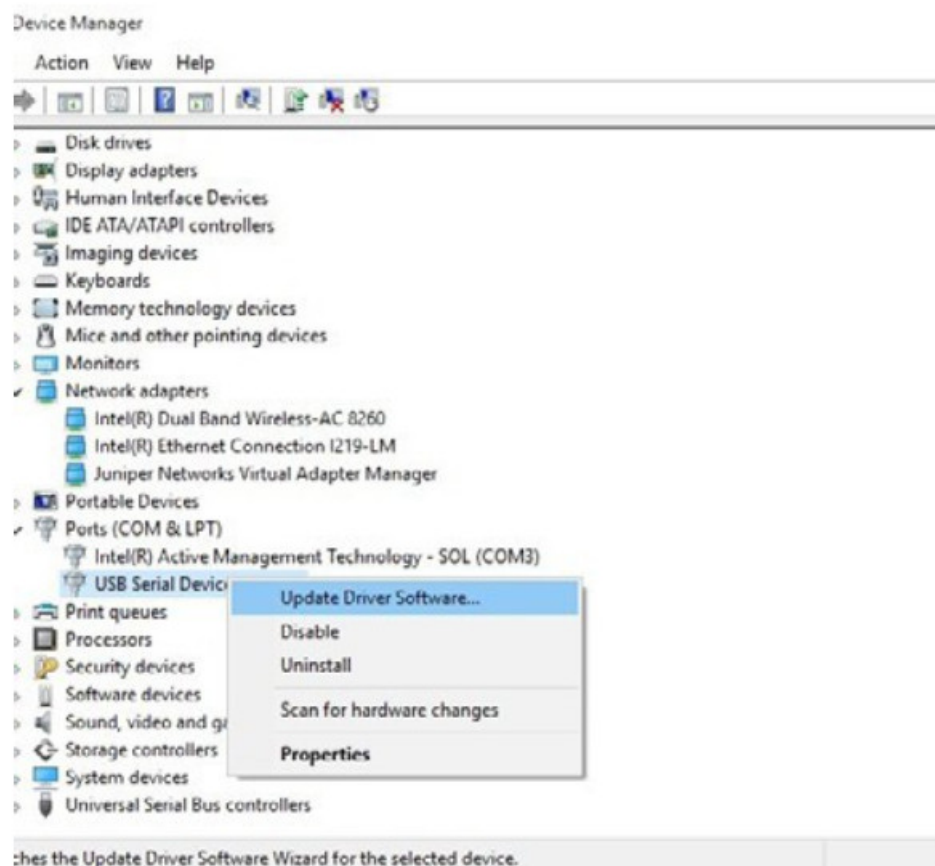
- The Network Connections window displays (see Figure 4).
- Verify that there is a Remote NDIS (RNDIS) network device shown.
 - If an RNDIS network device is not shown, call the Software and Connectivity team at 800-843-9433, option 2, option 5 for assistance.
 - If Windows fails to find the driver automatically, it may be because Windows detects the Eaton USB service port as a serial COM port. To resolve this issue:

Figure 4. Network Connections Window



- Navigate to the Eaton Gigabit Network Card Web page.
- Expand the Software, firmware, and applications section and download the RNDIS driver file.
- Manually install the device driver.
- With the USB cable connected to the card, open the Device Manager and expand the Network adapters and Ports (COM and LPT) sections (see Figure 5).

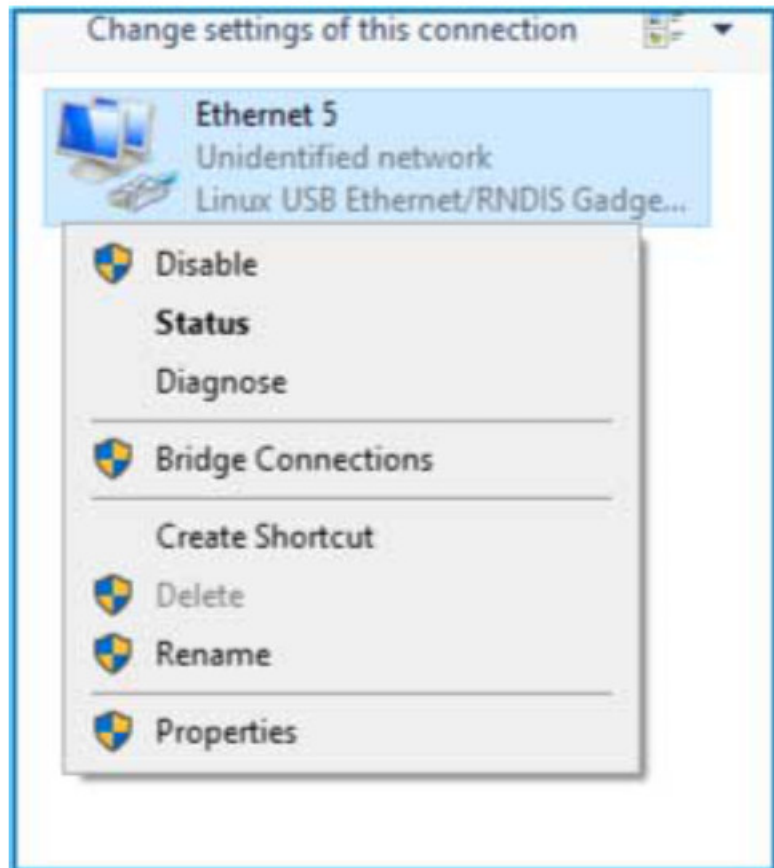
Figure 5. Windows Device Manager



- Find the suspected Eaton USB device in Device Manager. · In this example, it is USB Serial Device (COM4). Unplug and re-plug the USB cable to verify the correct device.

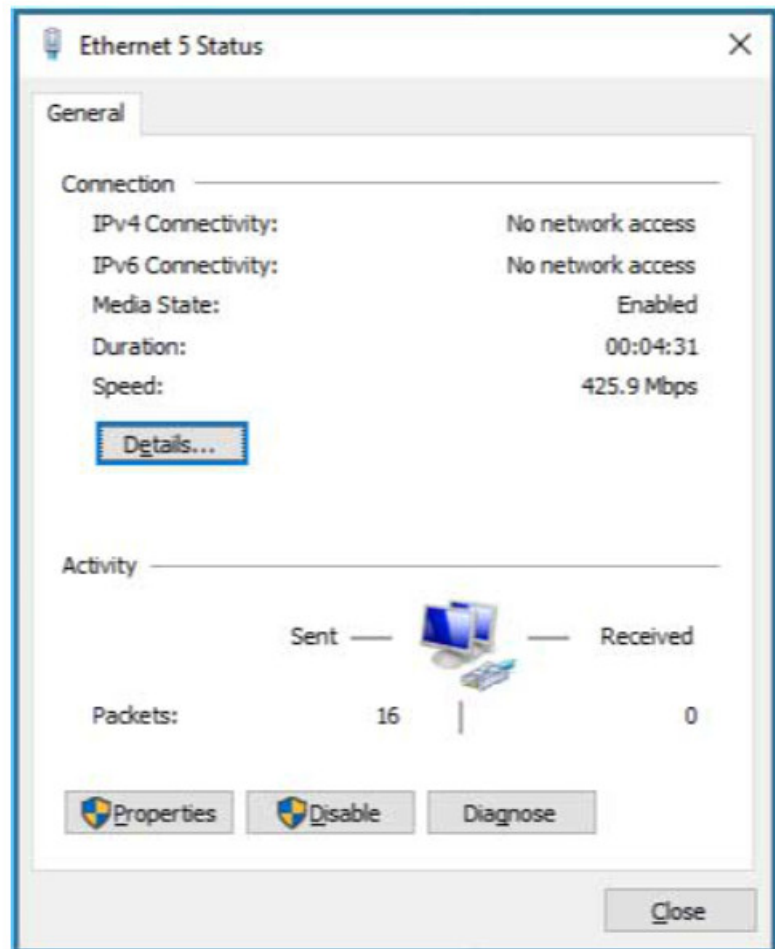
- f. Browse to the location where the RNDIS was downloaded and the zipped files were extracted. Select OK and Next and the driver will be installed. This procedure takes approximately 30 seconds.
- g. After the driver update is complete, verify that the COM port is gone and a USB Ethernet/RNDIS Gadget is in the Network adapters section of the Device Manager.
6. In the Network Connections window (see Figure 4), right-click the RNDIS network device and choose Status (see).

Figure 6. Select the RNDIS Network Device Status Display



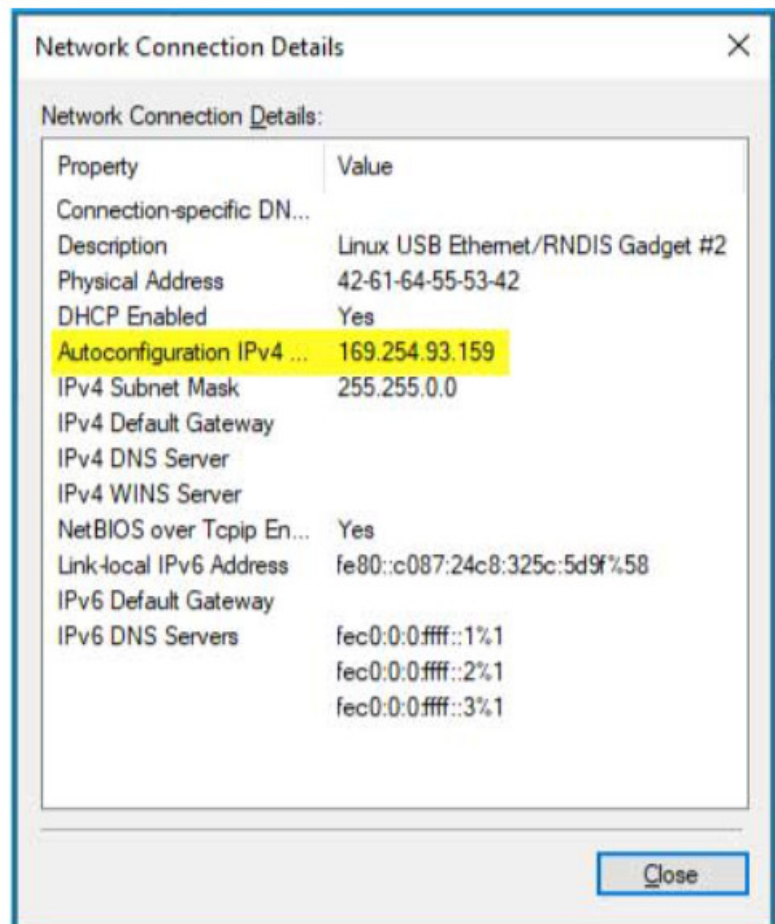
7. The Ethernet X Status window displays (see Figure 7). Click Details. Figure 7. Ethernet X Status Window

Figure 7. Ethernet X Status Window



8. Click Details. The Network Connection Details window displays (see Figure 8). Verify that IPv4 address starts with 169.254 as highlighted in the figure.

Figure 8. Network Connection Details



9. Connect the site cable (RJ-45 / CAT 5 [internet]) to the Network-M2 card (see Figure 9).

Figure 9. Connect Site Cable to the Network-M2 Card



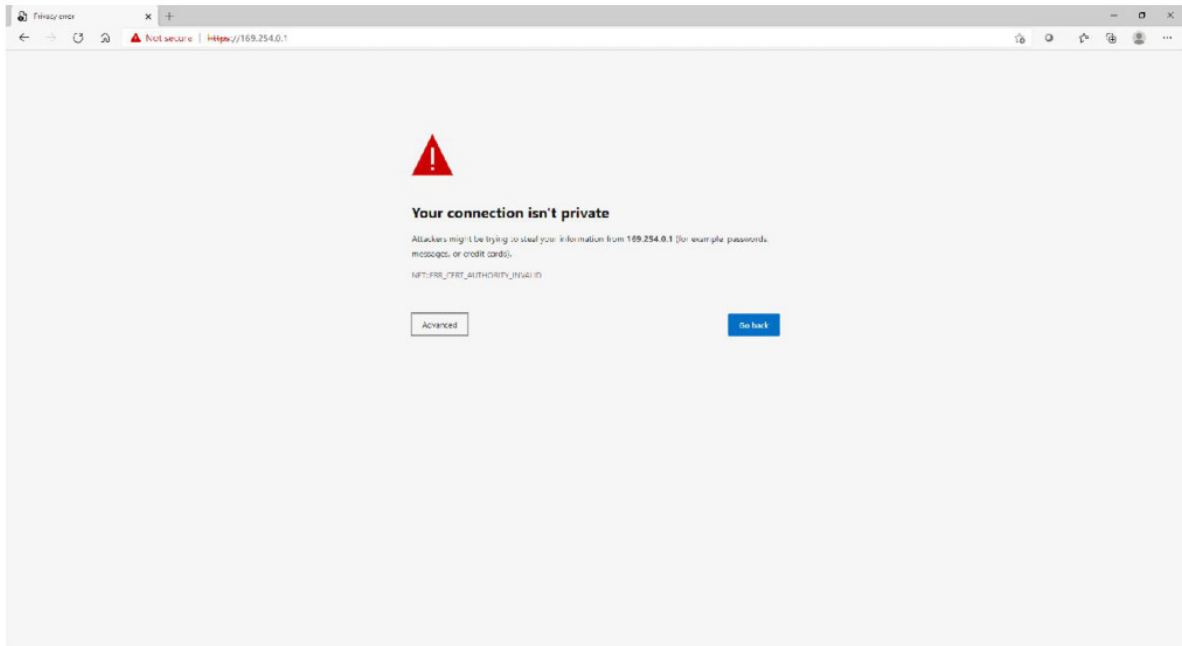
10. Open an internet browser. Enter the IP address <https://169.254.0.1> and press Enter.

***i* NOTE**

If a network proxy prevents from using APIPA IP address 169.254.0.1, open the RNDIS driver file downloaded earlier and double-click the setProxy.bat file in order to allow 169.254.0.1 APIPA address access. Wait for instructions from the script.

- a. The security certificate error warning in Figure 10 displays. Click Advanced and then select Continue to 169.254.0.1 (unsafe).

Figure 10. Website Security Certificate Error



b. The login window shown in Figure 11 displays. Enter the following login information and press Enter.

Username: admin Password: admin

c. The change password window shown in Figure 12 displays.

- In the Current password field, enter admin. · In the New password field, enter a new password of between 8 and 128 characters that includes at least:

One numeric character

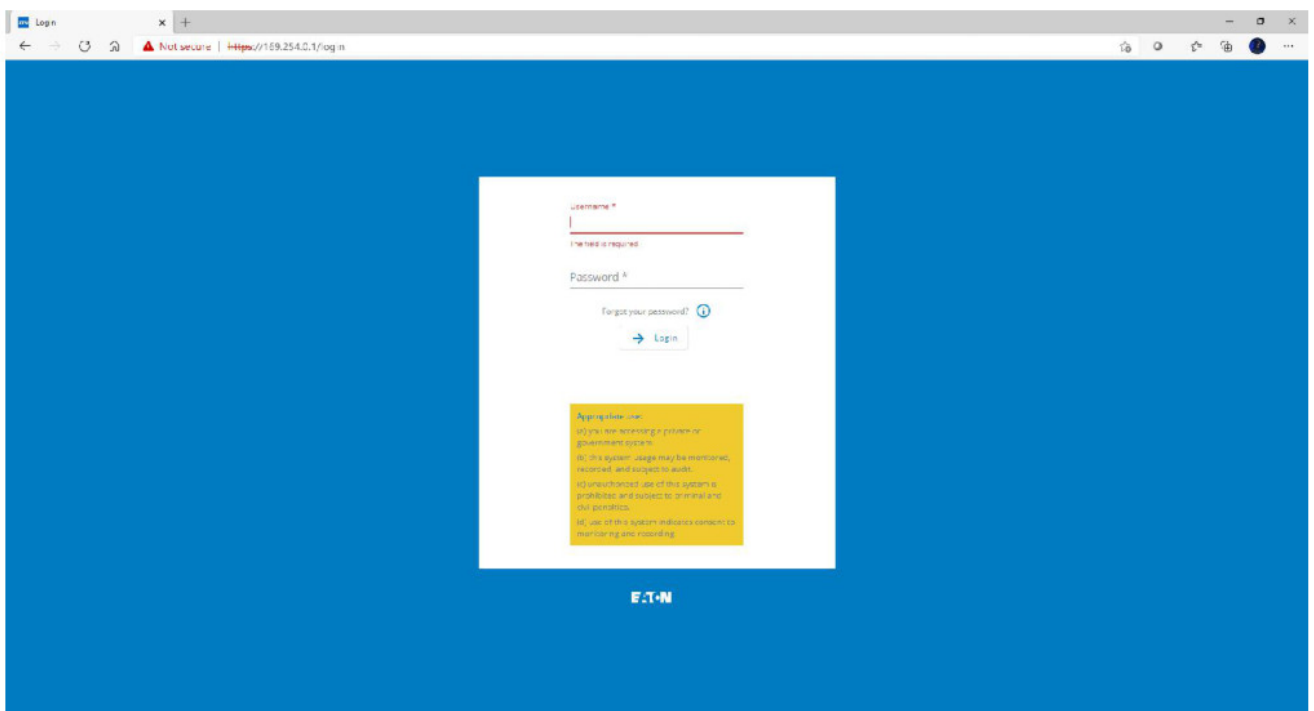
One lowercase character

One uppercase character

One special character (` ~ ! @ # \$ % ^ & * () _ - + = { } [] : ; " ' < > , . ' ? /)

- In the Confirm new password field, re-enter the new password entered above.

Figure 11. Login Window



d. Click Submit. A Password changed window displays requesting the username and new password.

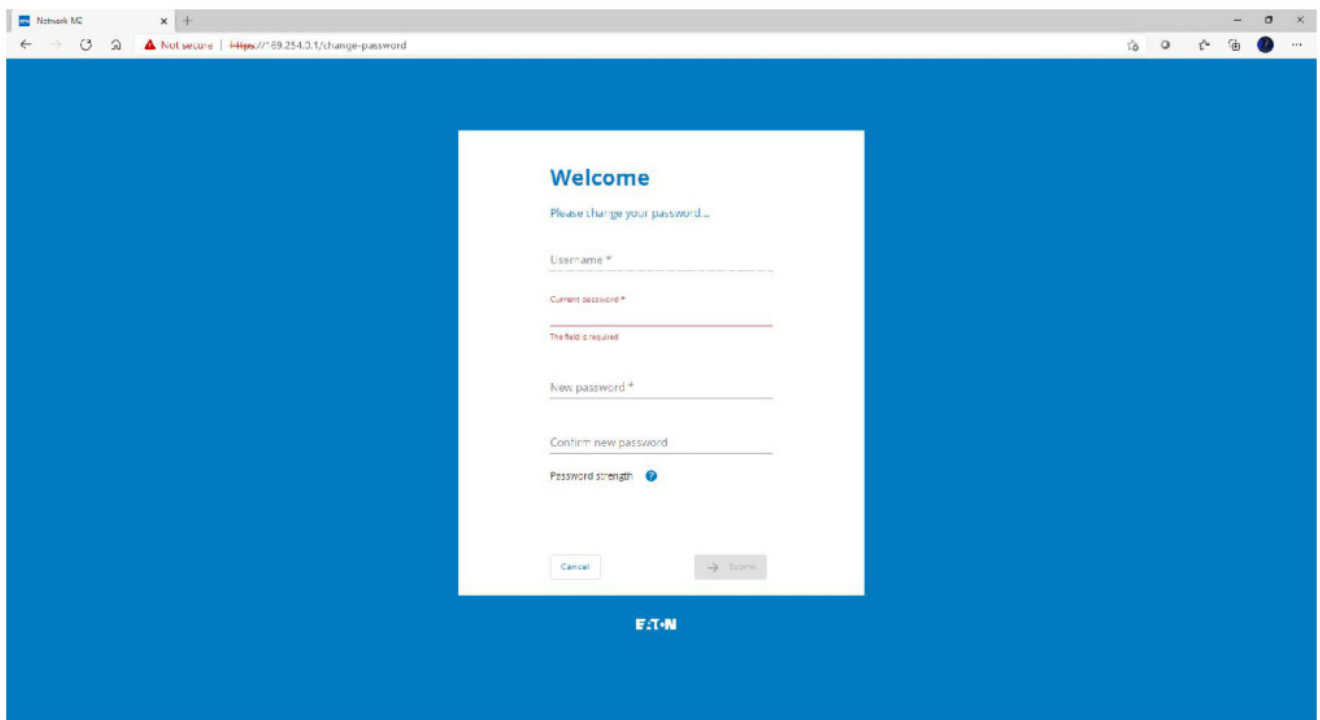
Enter the following login information and press Enter.

Username: admin

Password: the password you just created

e. A Read license agreement window displays. Read the license agreement, check the I accept the license agreement checkbox, and click Continue.

Figure 12. Change Password Window

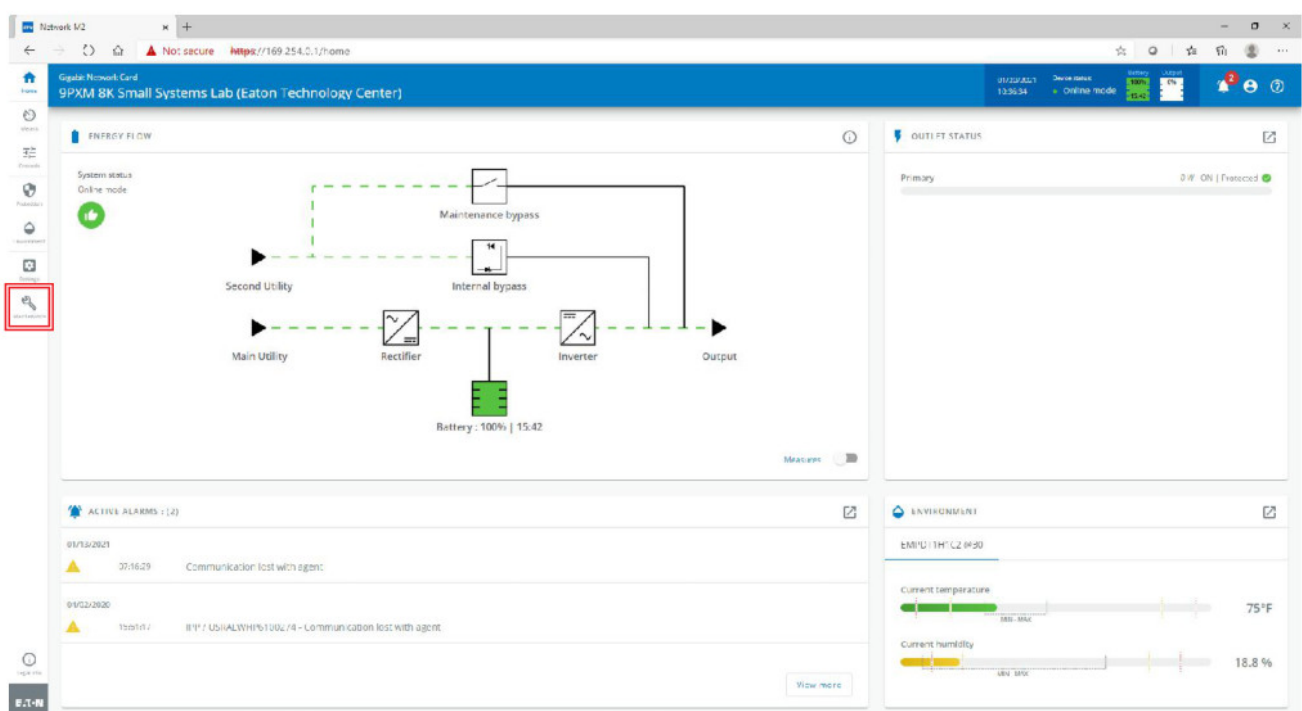


d. Click Submit. A Password changed window displays requesting the username and new password. Enter the following login information and press Enter. Username: admin Password: the password you just created

e. A Read license agreement window displays. Read the license agreement, check the I accept the license agreement checkbox, and click Continue.

11. The Network-M2 home page displays, indicating communication with the UPS (see Figure 13).

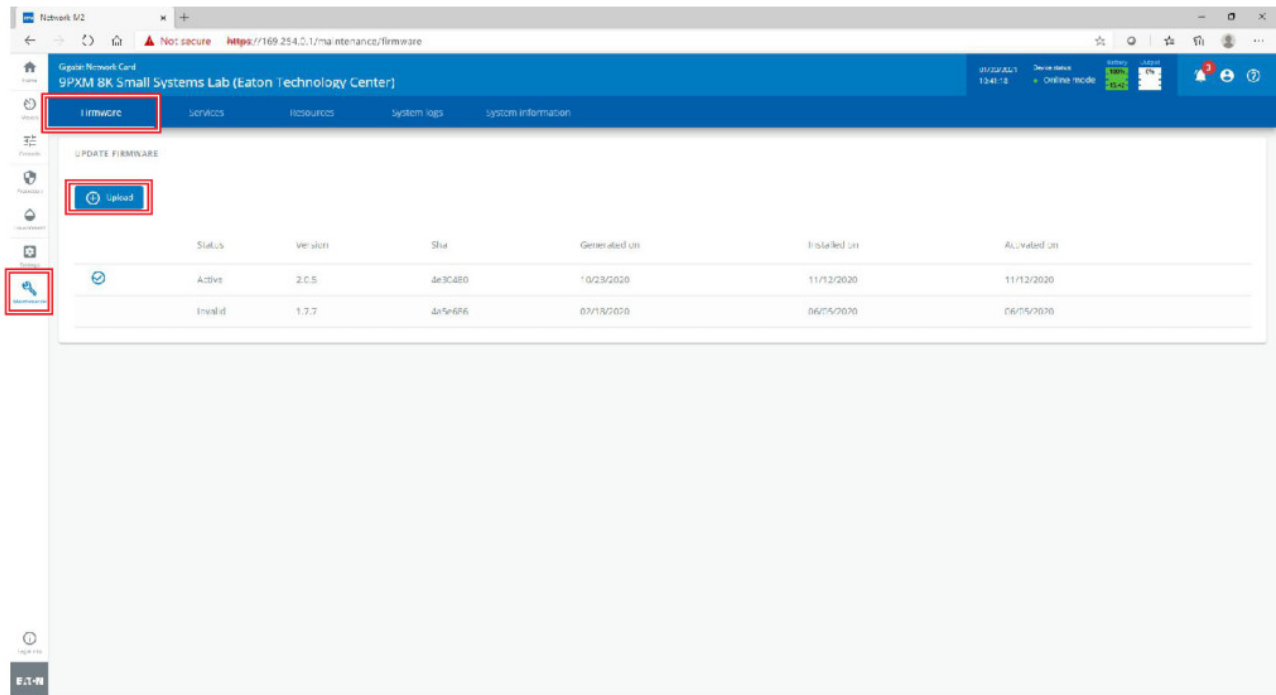
Figure 13. Network-M2 Card Home Page



12. Click on the Maintenance icon to verify that the Network-M2 card firmware is the most recent. The Firmware

tab is shown in Figure 14 displays.

Figure 14. Network-M2 Card Firmware Tab



13. The Version column shows the firmware version of the card. To be compatible with PredictPulse, verify that the firmware level is at the latest revision. Check the latest revision of the firmware on the Eaton Gigabit Network Card Web page. To update the firmware:
 - a. Expand the Software, firmware, and applications section and download the current firmware.
 - b. On the Firmware tab, click +Upload to upload the firmware to the card (see Figure 14).
 - If you have any difficulty updating the firmware, call the Software and Connectivity team at 800-843-9433, option 2, option 5 for assistance.
 - c. When the firmware update is complete, allow the card to restart and become operational.
 - d. Log in to the card and return to the Firmware tab (see Figure 14) to confirm that the firmware update was successful.
14. Configure the Eaton Environmental Monitoring Probe (EMP):
 - a. Remove the EMP and cable from the box.
 - b. Refer to the EMP Installation Instructions (located in the bottom of the EMP box).
 - c. Set the EMP DIP switches (see Figure 15) to the appropriate settings for your application:
 - For a single-EMP system, set the 1 and TER switches to the 1 position.
 - For a multiple-EMP system, set the MODBUS ADDRESS (1 - 16) switches to a different address for each EMP in the daisy chain. Set the TER switch to the 1 position on the last EMP in the daisy-chain; set it to 0 on all the other EMPs.

Figure 15. EMP DIP Switches

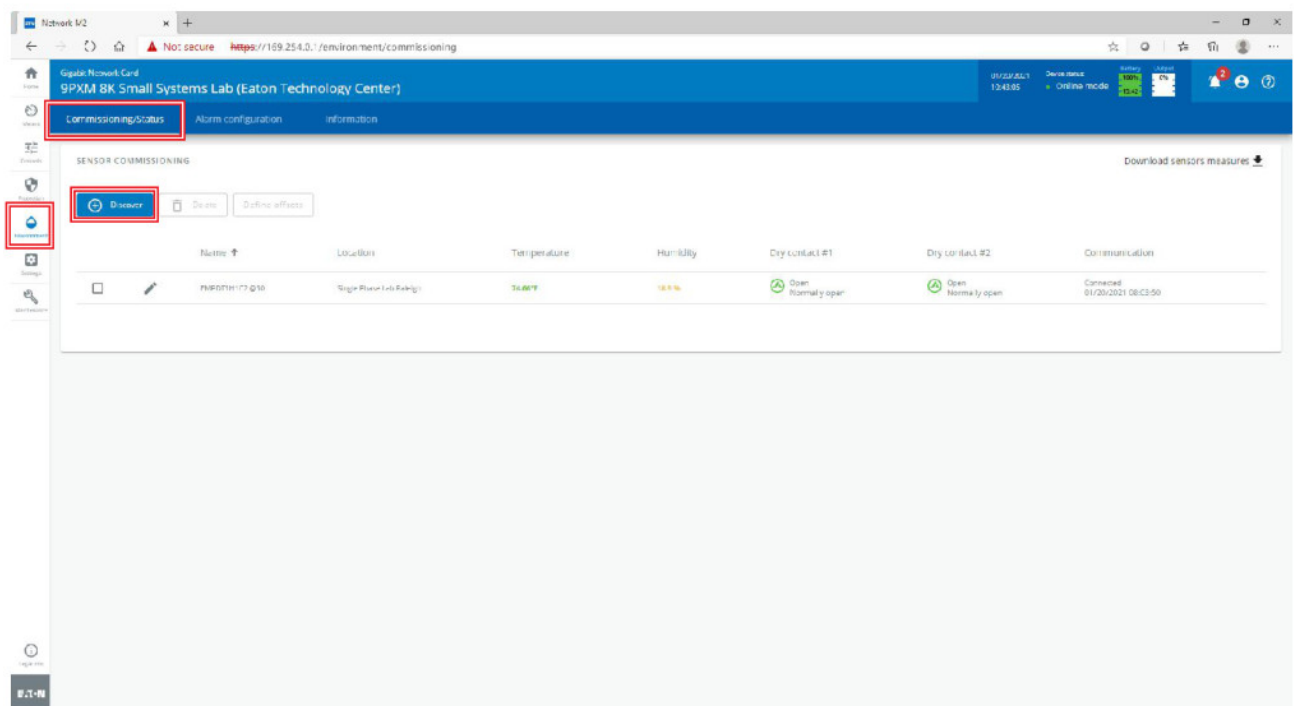


d. Connect the USB end of the cable to the Network-M2 card and the RJ-45 end of the cable to the From Device port on EMP.

15. Select the Environment icon on the left side of the menu and select the Commissioning/Status tab (see Figure 16). Click Discover.

- The EMP device should be discovered
- If the device is not found, verify the EMP settings and connections and then click Discover again.

Figure 16. Network-M2 Card Commissioning/Status Tab



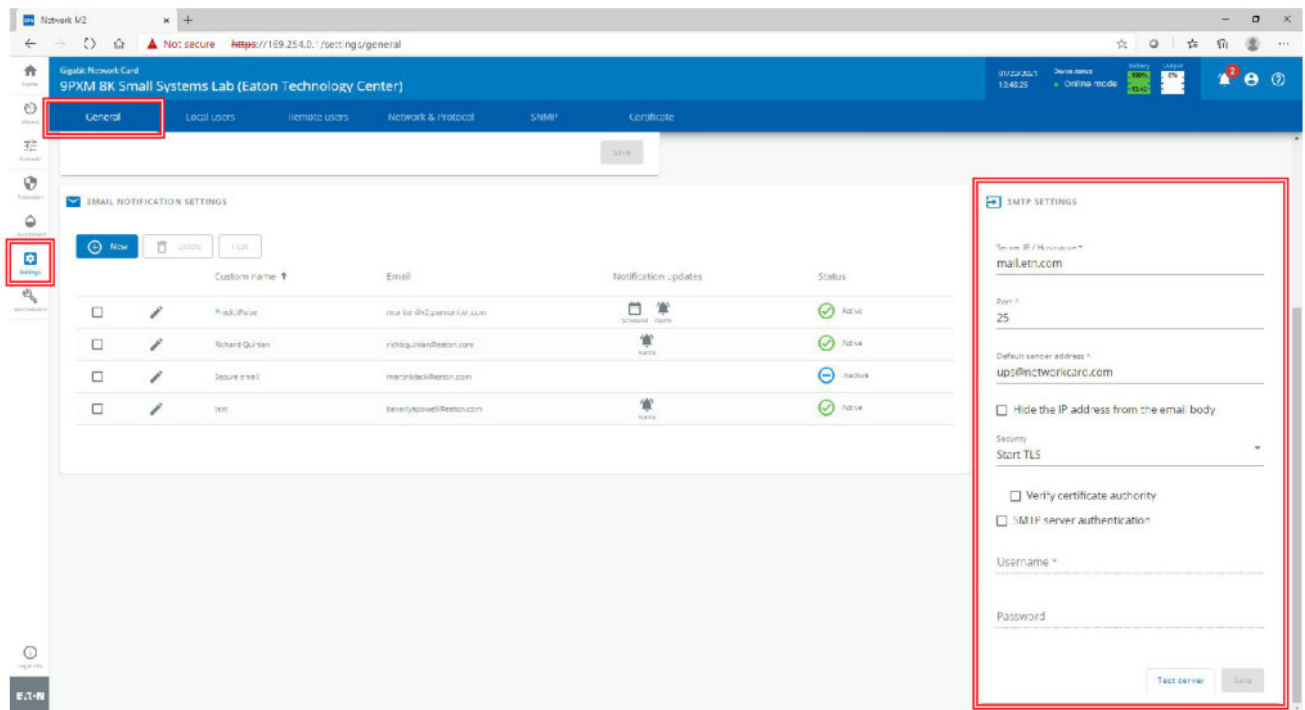
NOTE

If connecting PredictPulse via an Eaton wireless modem, refer to the document Connecting a NetComm Wireless NTC-140W Series Router to an Eaton Network Card for the remaining card configuration settings.

16. Select the Settings icon on the left side of the menu and select the General tab. Scroll down to display the SMTP Settings (see Figure 17).

- Configure the SMTP Server IP/Hostname with the customer e-mail server address (for example, mail.company.com; note that the mail.etn.com in Figure 17 is only an example). Include the recipient's e-mail address in the Default sender address field (for example, John.Doe@company.com).
- Click Save after any changes.

Figure 17. Network-M2 Card General Tab – SMTP Settings



17. Select the Network & Protocol tab (see Figure 18).

- If the site is using DHCP, the IP addresses are automatically assigned. All the network information should be automatically populated; no other settings need to be configured on this screen.
- If the site is not using DHCP, click Edit in the IPV4 section to display the IPV4 settings window (see Figure 19). Change the IPV4 mode to Manual; enter the IP Address, Netmask, and Gateway; and click Save. Similarly, change the DNS/DHCP mode to Manual and enter the Primary and Secondary DNS server addresses. For assistance, call the Software and Connectivity team at 800-843-9433, option 2, option 5.

Figure 18. Network-M2 Card Network & Protocol Tab

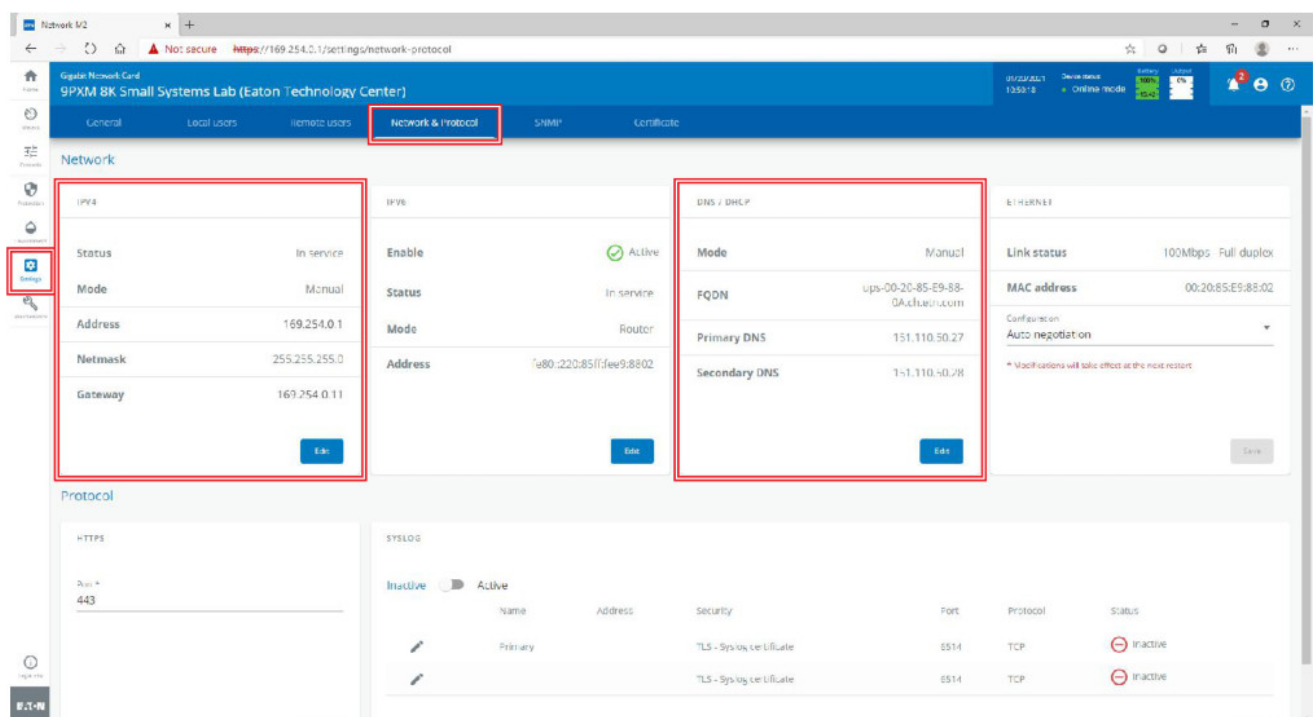
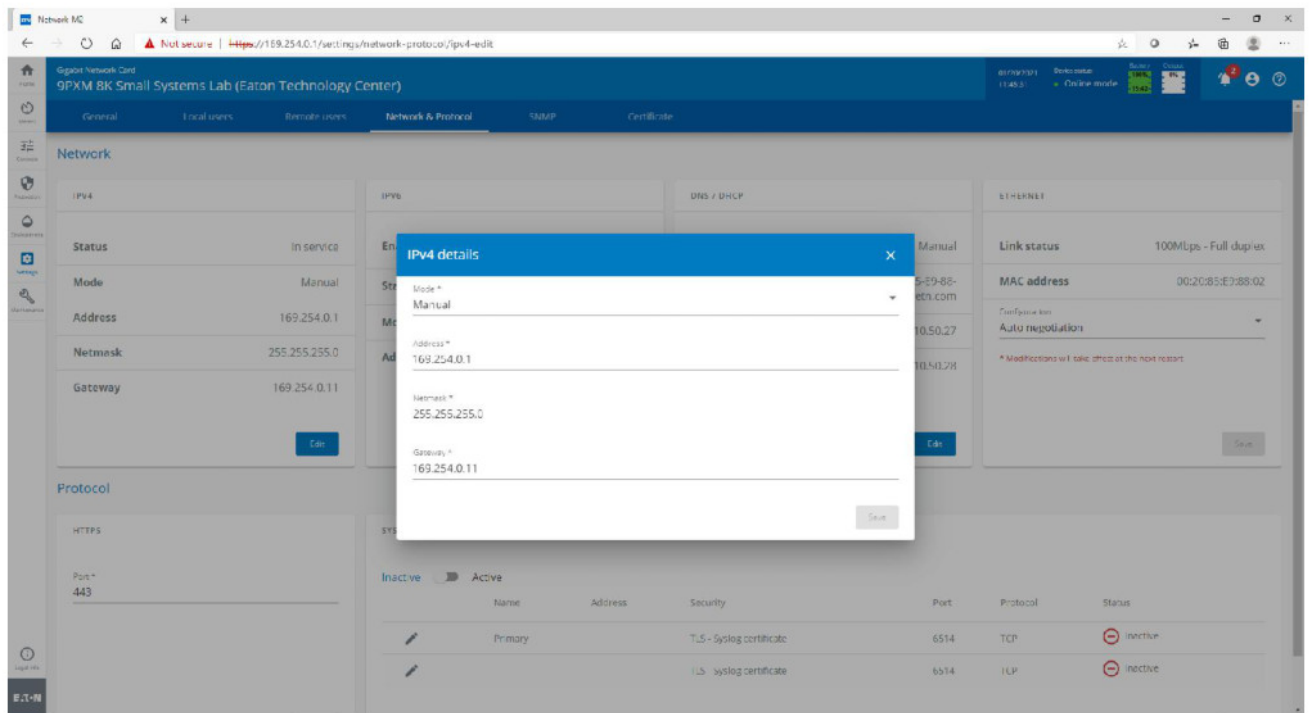
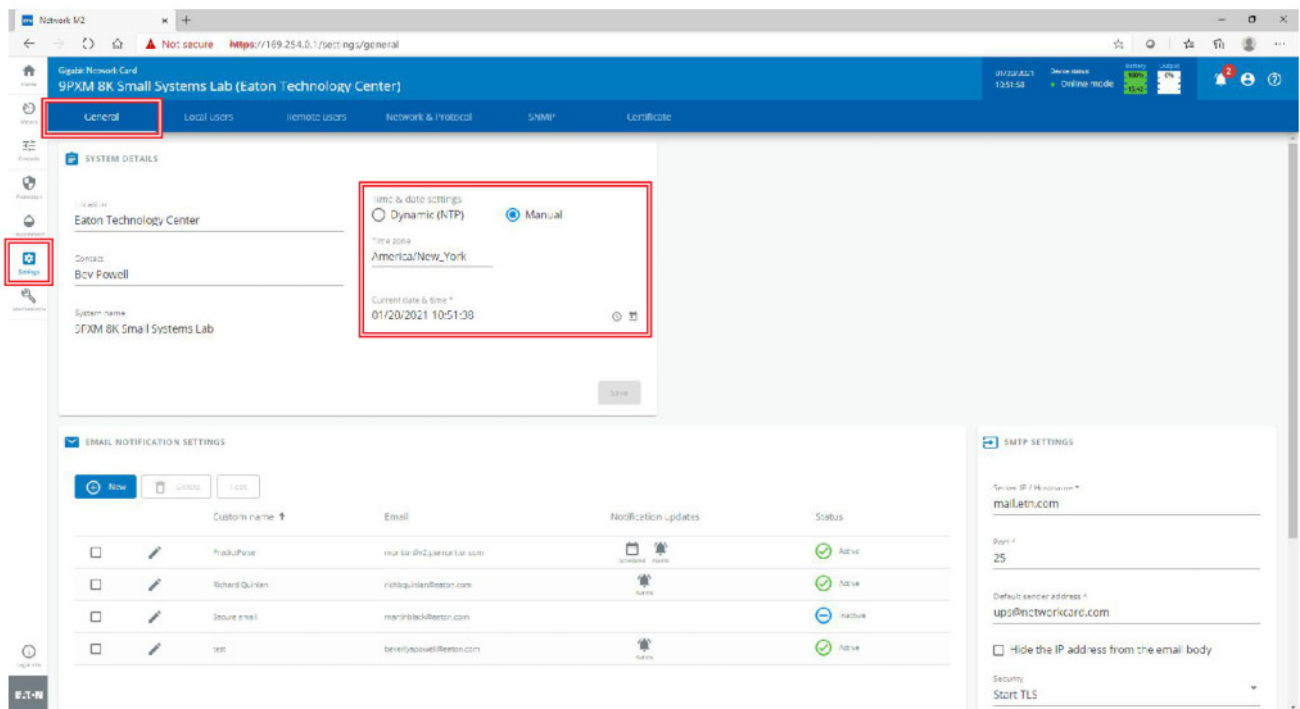


Figure 19. Network M2 Card IPV4 Settings Window



18. Verify that the IP address conforms to the site's internet protocols. If not:
 - Verify the network cable is securely connected to the correct port on the Network-M2 card, then press the Restart button for at least six seconds.
 - After the card has rebooted and is back online (approximately three minutes), return to the Network & Protocol tab to verify the IP address.
 - If the address is still incorrect, call the Software and Connectivity team at 800-843-9433, option 2, option 5.
19. Select the General tab (see Figure 20).
 - a. Select the correct Time zone.
 - b. If a Network Time Protocol server is available, select the Dynamic (NTP) radio button and enter the server information in the NTP Server field.
 - c. If NTP is not available, select the Manual radio button and select the Date field to update the date and time.

Figure 20. Network-M2 Card General Tab



Predictpulse Activation

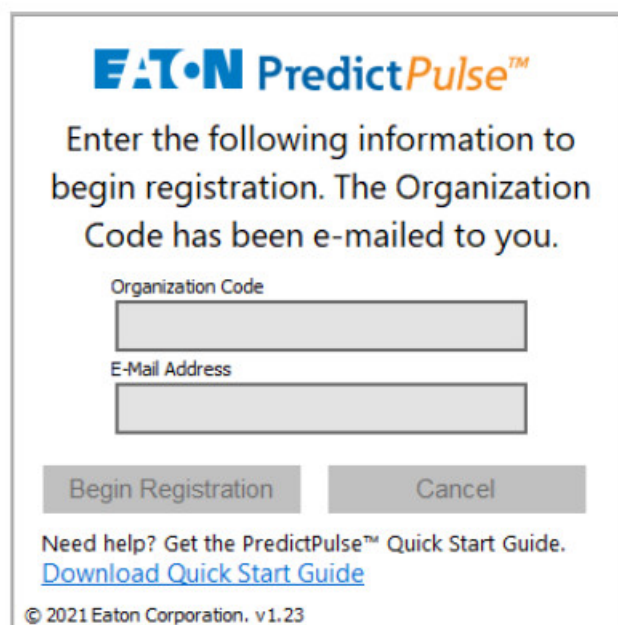
NOTE

You must be connected to the site's network to run the PredictPulse wizard.

Before proceeding, ensure that an account was first created at <https://predictpulseapp.eaton.com> or that your site administrator has invited you to your already-created account so your organization code can be obtained. To activate PredictPulse:

1. Run the PredictPulse Wizard (ActivatePredictPulse.exe). The Eaton PredictPulse window displays (see Figure 21).

Figure 21. PredictPulse Wizard Initial Display



EAT•N PredictPulse™

Enter the following information to begin registration. The Organization Code has been e-mailed to you.

Organization Code

E-Mail Address

Need help? Get the PredictPulse™ Quick Start Guide.
[Download Quick Start Guide](#)

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2. Enter the Organization Code and customer E-Mail Address and click Begin Registration. The PredictPulse

Device Activation window displays (see Figure 22).

Figure 22. PredictPulse Device Activation Window

PredictPulse™ Device Activation

PredictPulse™

Upload CSV Search IP Range

Organization Code
EATO-447613
arthurmuligan@gmail.com (United States)

Enter the IP Address(es) of your compatible Eaton UPS(s) below to add them to PredictPulse. You may also enter an IP Range to scan, or upload a CSV of UPS IP addresses to continue.

IP Address Serial Number

Enter IP Address to find...

Add UPS

Eaton
© 2019 Eaton Corporation

Finish

3. Enter the IP address or a range of IP addresses to continue. The wizard attempts to connect to a UPS at that address.

i NOTE

If the wizard displays the configuration error message shown in Figure 23, enter the card's username and password and click OK.

Figure 23. PredictPulse Wizard Card Configuration Error

The wizard was unable to configure your card using the default credentials.

Verify the credentials to log onto your PredictPulse™ device's connectivity card
192.168.1.144 ()

Login
admin

Password

Show Password

OK Cancel

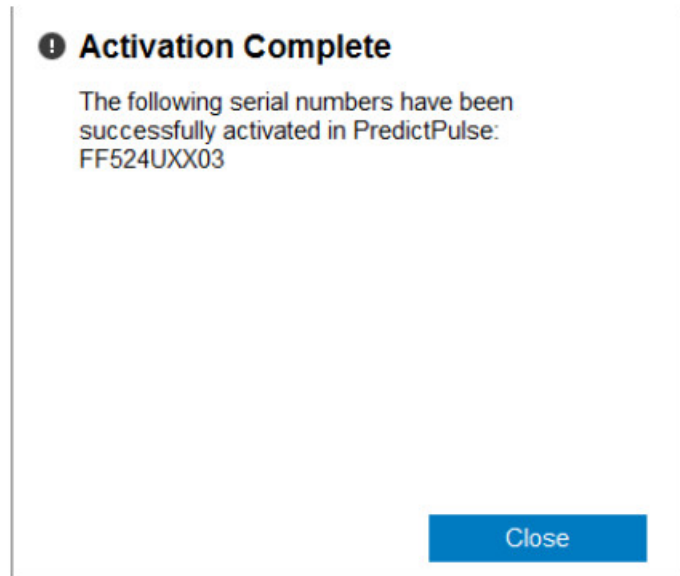
4. The PredictPulse wizard activates each card. Upon completion, the wizard displays a confirmation message (see Figure 24).

i NOTE

If the user is running Microsoft Outlook and it is open, an activation email is sent automatically to Eaton's PredictPulse servers. If the user does not have Outlook installed, the email components are saved in the user's

My Documents folder, and instructions are provided for sending the activation email manually.

Figure 24. Activation Complete Window



NOTE

The registration process to activate the unit for PredictPulse may take 15 minutes or more. To ensure the PredictPulse activation was successful, call the Eaton Software and Connectivity team at 800-843-9433, option 2, option 5 for assistance.

PredictPulse Remote Monitoring Activation Completion Checklist

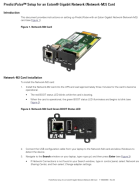
- <https://PredictPulseapp.eaton.com> account enrollment complete
- PredictPulse compatible network connectivity card installed
- Connectivity card upgraded to the latest firmware
- Environmental Monitoring Probe connected
- PredictPulse activation wizard run from <https://PredictPulseapp.eaton.com> account
- Call placed to Eaton Software and Connectivity team, 800-843-9433, option 2, option 5 to confirm portal activation and communication receipt

Modem Use Only

- Network switch installed (if multiple UPS are connected to the same modem) (see page two of Connecting a NetComm Wireless NTC-140W Series Router to an Eaton Network Card)
- Modem NTP configured (see page six of Connecting a NetComm Wireless NTC-140W Series Router to an Eaton Network Card)
- PredictPulse activation wizard run from modem connection (see page nine of Connecting a NetComm Wireless NTC-140W Series Router to an Eaton Network Card)



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