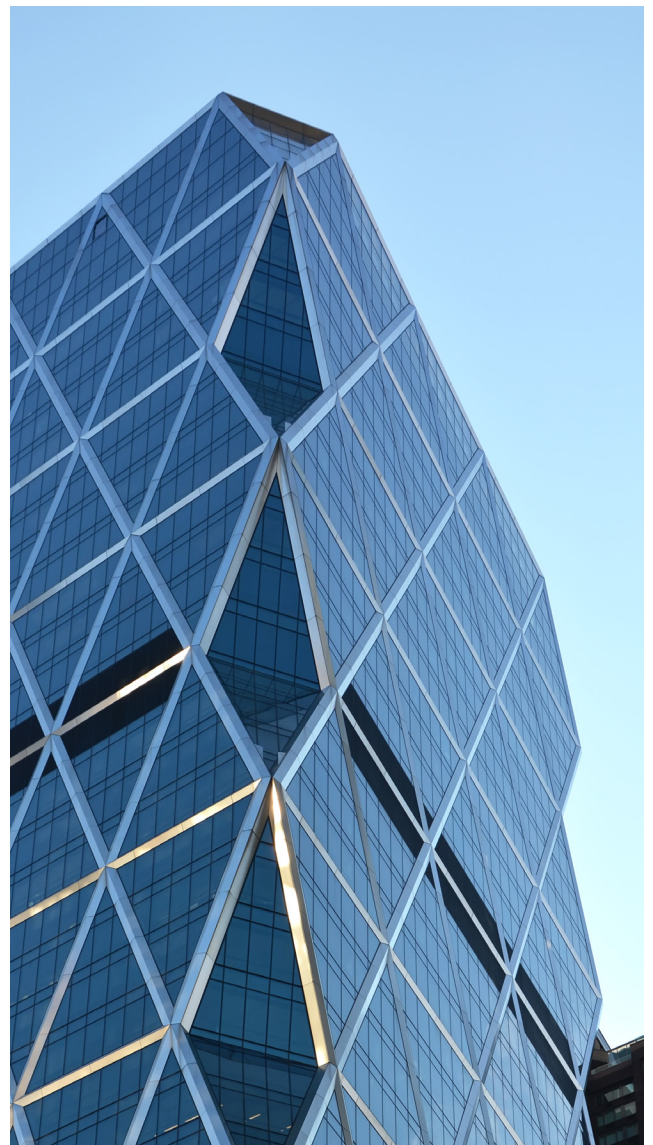# NOX

After-hours HVAC scheduling made easy

Document Revisions

This document is version controlled via the use of revision numbers. The revision numbers will be incremented each time the document is changed. A minor revision will be indicated by a change to the number to the right of the point, such as from 1.1 to 1.2. Normally the document will only be formally re-distributed when the major version changes, indicated by a change in the number to the left of the point, such as from 1.2 to 2.0.

Revision	Date	By	Comments
1	16/08/2018	Opsys Solution Ltd	Release
1.1	13/04/2022	Opsys Solution Ltd	Model Update

Table of Contents

Welcome to 7NOX!

Thanks for choosing 7NOX as your after-hours booking solution! We designed this manual to help users quickly and easily set up their 7NOX site device, which is configurable via its internal web-page. We also suggest the 7NOX BMS Integration video, which demonstrates many of these steps for setup.

Site Device Specifications

Electrical

Input	Micro USB connector
Voltage (V, nominal):	5 VDC
Current (A, nominal):	2.5 A

Environmental

Operating Temperature	0°C to 50°C

Hardware

Device type	Raspberry Pi 4B 4GB Board
Processor	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
SD Card	32GB

Note: This product should only be connected to an external power supply rated at 5V/2.5 A DC.

Webpage Configuration

Each site device contains an interactive web server, accessible from any Internet-compatible PC on the local network and compatible with recent versions of Internet explorer (version 11 or later, required) or Chrome (Version 67.0.3396.99, required). It is factory programmed with a default IP address of **192.168.20.90** and a Class C subnet mask of **255.255.255.0 (/24)**.

To configure the adapter, attach it to a computer with an ethernet connection and a standard web browser. For initial configuration, the PC chosen for the procedure should temporarily have its IP address.
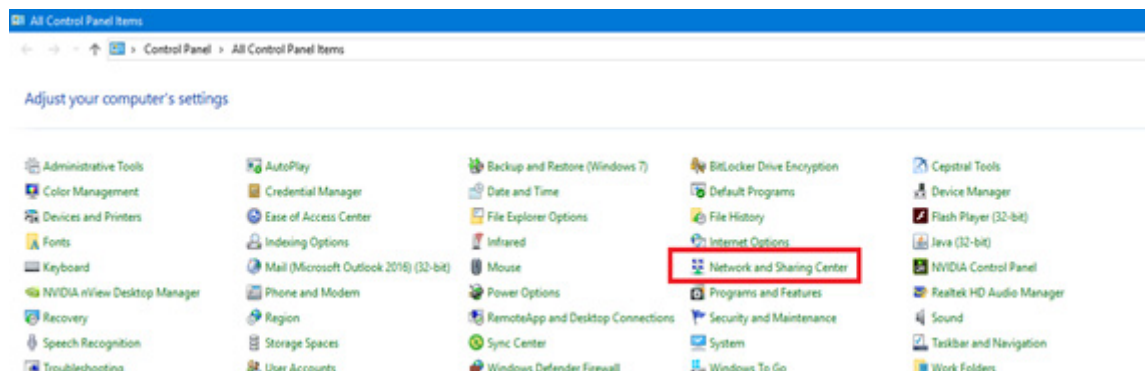
Adapter Configuration

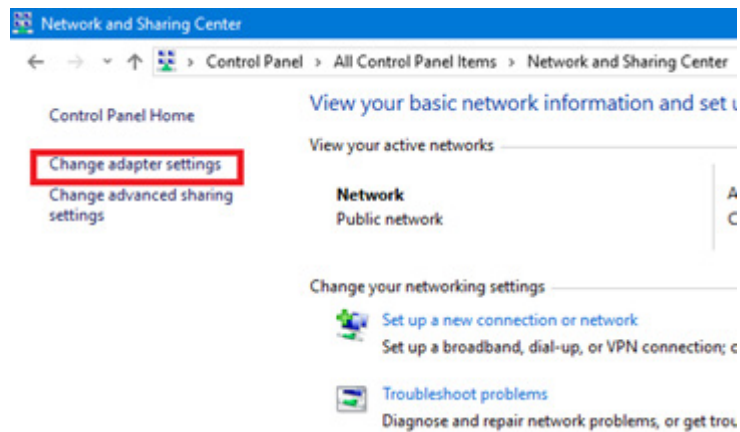Perform the following steps to configure the adapter:
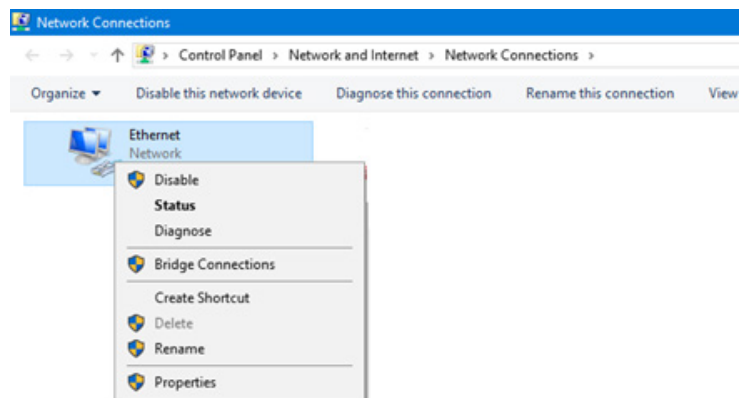
1. Go to the **Control Panel**
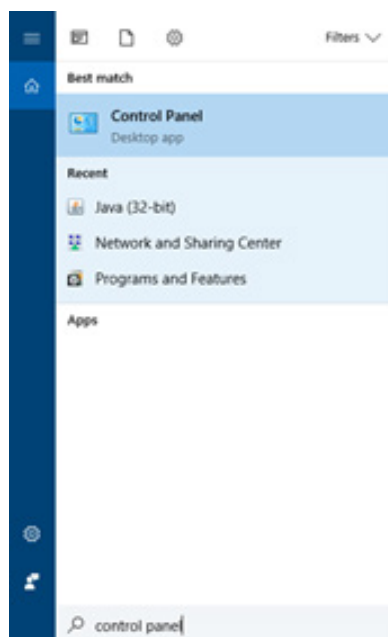
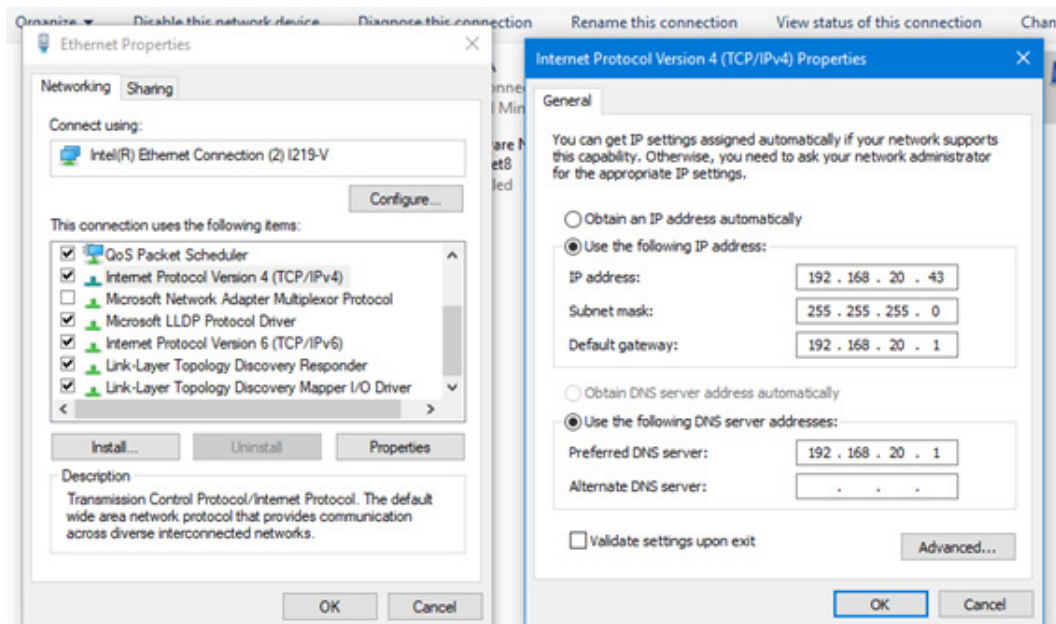2. Select **Network and Sharing Centre**

3. Select **Change adapter settings**

4. Right click on network adapter and select **Properties**

5. Double click on **Internet Protocol Version 4 (TCP/IPv4)** and apply the settings.

The example above suggests an IP address for the PC of 192.168.20.43, but the final quad of the address could be any value from 3 to 254 – except for 90 which is used by 7NOX site device. After the IP address of the PC has been set to the same subnet as the adapter, a browser can access the adapter via its default IP address.

Log in to Device Interface

The device interface lets you:

- Change device network
- Change 7NOX configuration
- Upgrade firmware
- Change time and time zone
- Reinitialize database
- Download logs

Perform the below steps to access your device interface:

1. Visit http://192.168.20.90. You will be redirected to the login page
2. Enter your username and password in the login fields.

       USERNAME: **admin**

       PASSWORD: **7Nox**

4. Click the **SIGN IN** button, as show in the following image
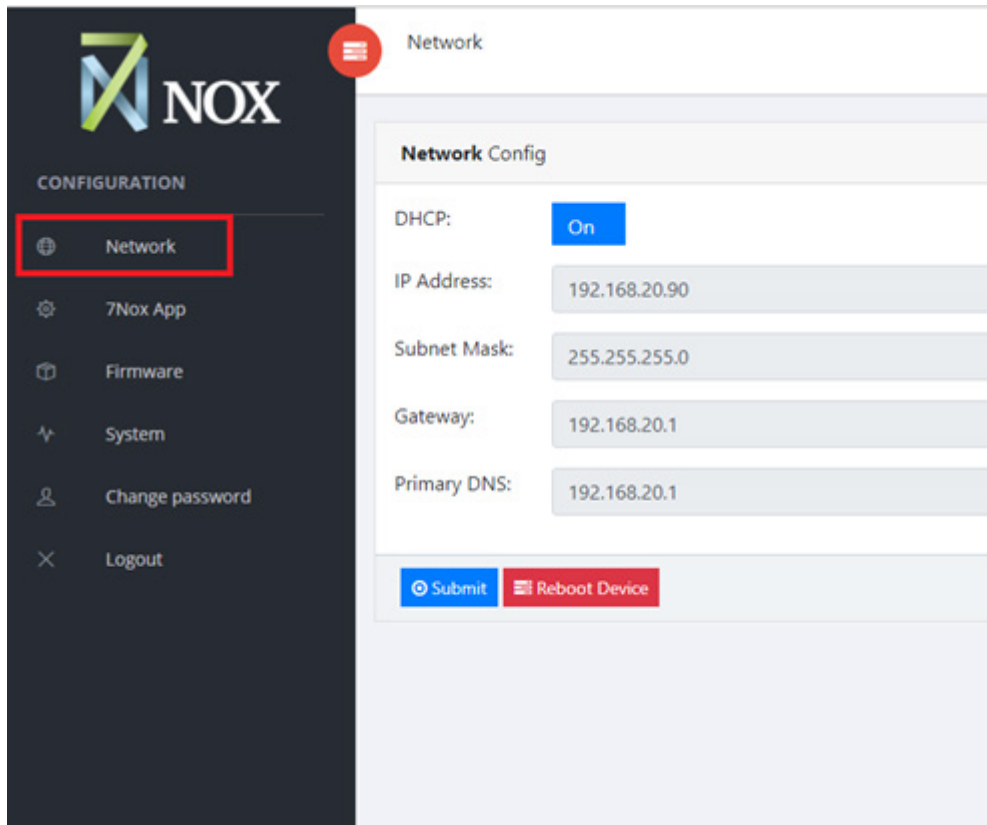
Configure Network

Perform the following steps to configure 7NOX for Network:

1. Login to your account.

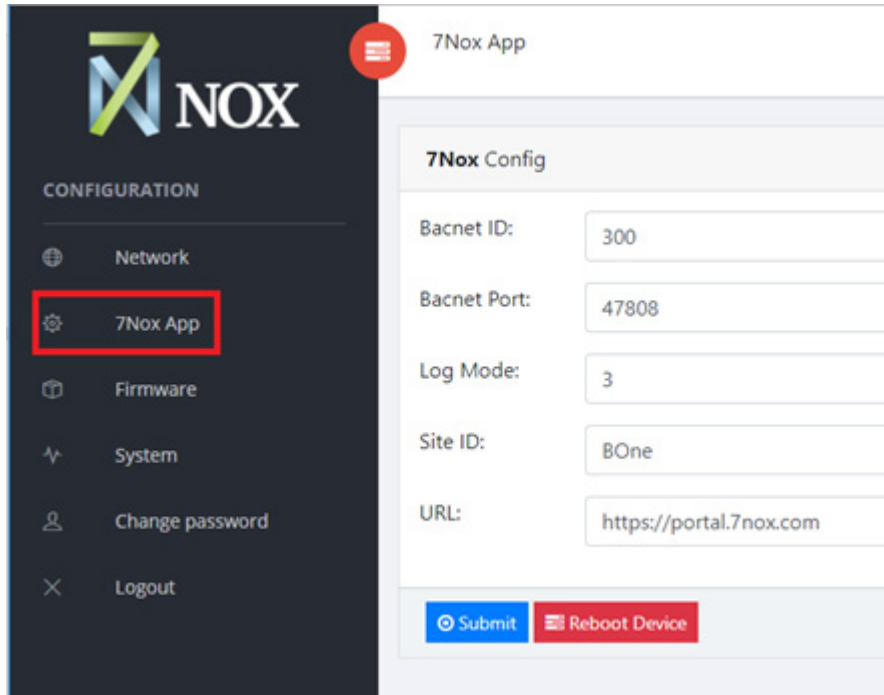2. Select **Network** in the left-menu, as shown in the following image:

3. Configure the below settings on the right-hand side:

   a. **DHCP**: Click the button to turn on DHCP.

   b. **IP Address**: Enter the IP address.

   c. **Gateway**: Enter the gateway.

   d. **Primary DNS**: Enter the primary DNS.

4. Click the **Submit** button.

Note: After Changes, Click the **Reboot Device** button to reboot the device.

Configure 7NOX App

Perform the following steps to configure 7NOX for Network:

1. Login to your account.

2. Select **7NOX App** in the left-menu, as shown in the following image:

3. Configure the below settings on the right-hand side:

   a. **Bacnet ID**: Enter the Bacnet ID
   b. **Bacnet Port**: Enter the Bacnet port
   c. **Log Mode**: Enter the log mode
   d. **Site ID**: Enter the site ID
   e. **URL**: Enter the URL

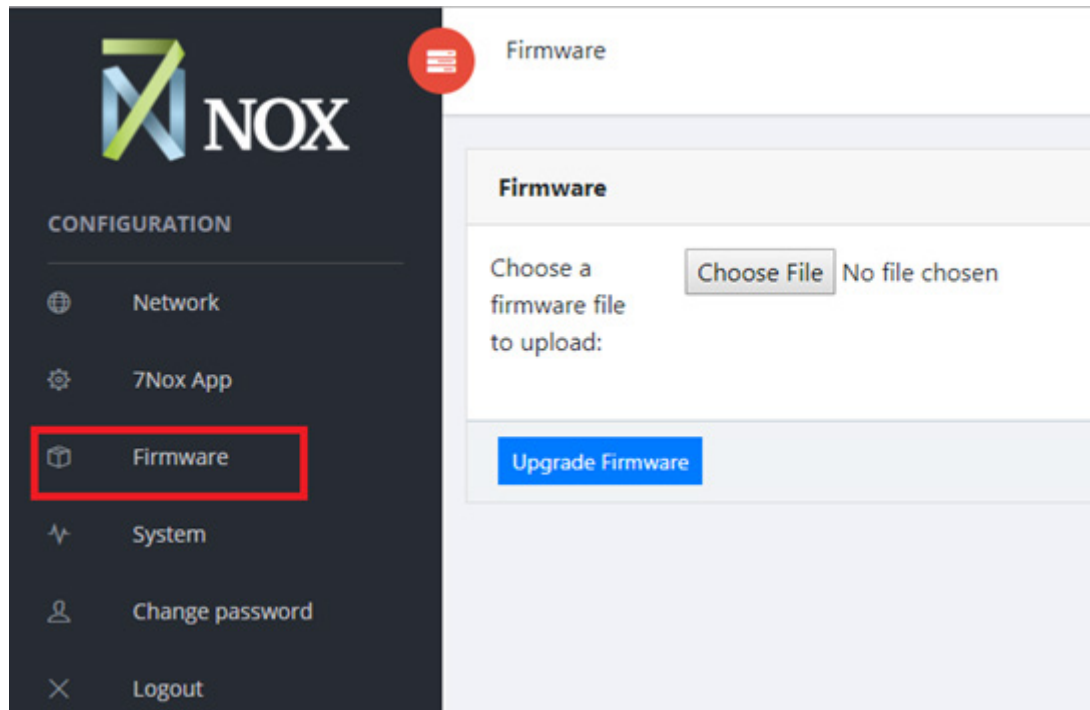Site ID and URL are provided by the 7NOX support team at the time of implementation.

4. Click the **Submit** button.

Note: After Changes, Click the **Reboot Device** button to reboot the device.

Upload a Firmware

Perform the following steps to upload a firmware:

1. Login to your account.

2. Select **Firmware** in the left-menu, as shown in the following image:
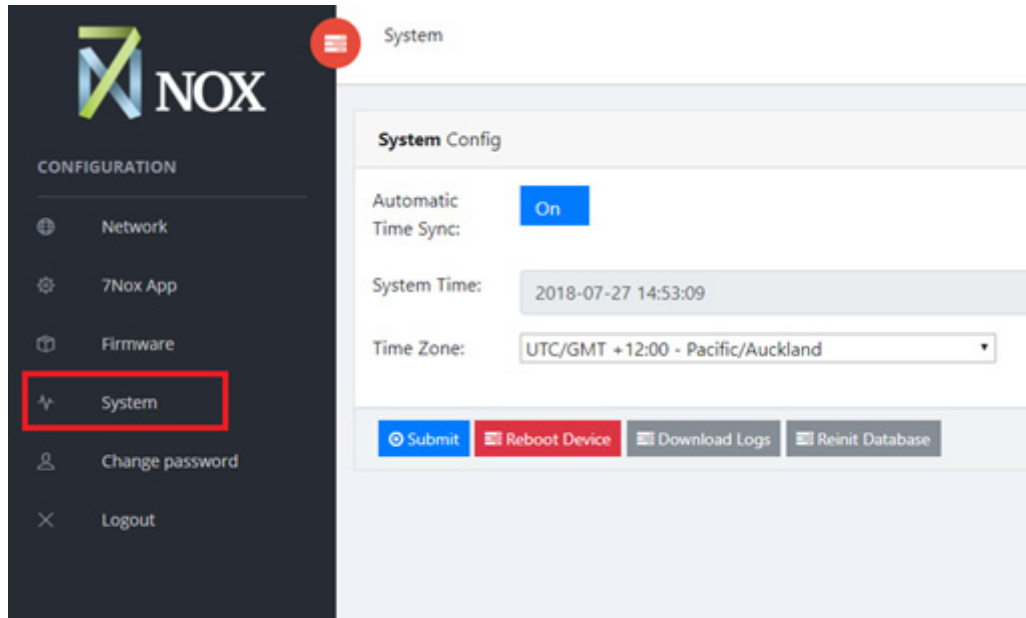

3. Click the **Choose File** button on the right-hand side and select the file that you want to upload.

Note: After firmware upgrade, Click the **Reboot Device** button to reboot the device.

Configure System Settings

Perform the following steps to configure 7NOX for Network:

1. Login to your account.

2. Select **System** in the left-menu, as shown in the following image:

3. Configure the below settings on the right-hand side:

   a. **Automatic Time Sync**: Click this button to turn on Automatic Time Sync.
   b. **System Time**: The time of your system is displayed here.
   c. **Time Zone**: Click the drop-down arrow and select your time zone.

4. Click the **Submit** button.

5. To download the logs, Click **Download Logs**

6. To reinitialize the database, Click **Reinit Database**

Note: After Changes, Click the **Reboot Device** button to reboot the device.

Additional Resources

- [7NOX Tenant Video Tutorials](#)
- [Ultimate Guide to After-Hours HVAC](#)
- [7NOX Blog](#)