



User Guide

BACnet IP

Configuration Tool

v2

OUR MISSION

To improve health and wellness by actively restoring indoor air to its pure, natural state where no pollution or contaminants exist, while reducing energy use and emissions in the process.



AtmosAir.com
CAG-12-23-002

Smart IoT Communication Output Options

The Smart IoT unit offers BACnet IP (Internet Protocol) and cloud-based environmental monitoring. Either or both options can be used.

AtmosAir provides a BACnet IP configuration tool allowing the installer to program the Smart IoT unit at the installed location. Users can revise the BACnet IP configuration using the same tool eliminating the need for AtmosAir factory assistance.

Cloud-based environmental monitoring is always active and available on the Smart IoT unit; however, a cellular modem option must be purchased from AtmosAir to provide data communication to the cloud. Your salesperson will be glad to assist you with this option.

BACnet IP Communication Option

Introduction:

The Smart IoT unit has a BACnet IP option to allow the user to send data to their building automation controls and network. The unit must first be configured during installation to activate the BACnet IP functionality. The user may revise the BACnet IP configuration using the configuration tool anytime.

Requirements:

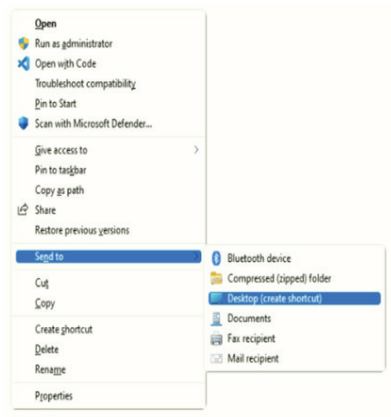
- A Windows laptop computer with an Ethernet port
- BACnet IP Configuration Software
- An Ethernet Cable

BACnet IP Configuration Tool Installation:

- Download the BACnet IP Configuration Tool using [this link](#).
- Unzip the file BACnet Configuration Tool
- Install the software by double-clicking on the file BACnet Configurator.exe



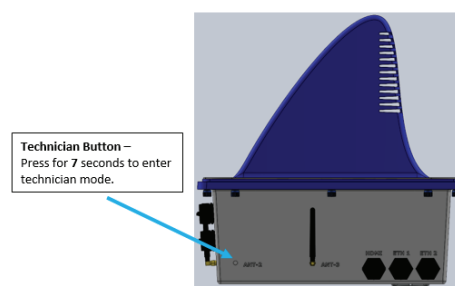
- Create a desktop icon:
 - Right-click on the BACnet Configurator.exe
 - Click on Send to
 - Click Desktop (create shortcut)



Connecting the Laptop to the Smart IoT unit:

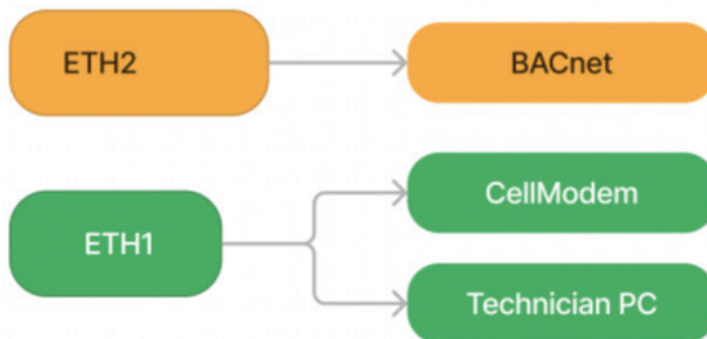
1. Connect one end of the Ethernet cable to the Technician's Laptop Ethernet port.
2. Connect the other end of the Ethernet cable to the ETH 1 port on the Smart IoT unit.
3. DO NOT CONNECT the customer BACnet to ETH 2 port until the IP address is configured.
4. Turn on the Smart IoT unit for five minutes to complete the bootup.
5. Set the network adapter on the Technician's Laptop to the parameters below.

IP assignment:	Manual
IPv4 address:	192.168.2.53
IPv4 mask:	255.255.255.0
IPv4 gateway:	192.168.2.1
<hr/>	
DNS server assignment:	Manual
IPv4 DNS servers:	8.8.8.8 (Unencrypted)




6. Refer to the section below titled "Using the BACnet IP Configuration Tool:", login to the tool with the credentials, enter the Smart IoT serial number, and then press connect. (The tool will state that "ERROR: ASAR3 Connection Down". This is normal.)
7. Press and hold the factory default button on the Smart IoT unit for 7 seconds to enter technician mode. In a few moments, you should see the configuration tool connect to the Smart and you can continue following the procedures on programming the BacNet information into the Smart.

Connection Layout



Using the BACnet IP Configuration Tool:

- Double-click the icon to start the configuration tool 
- The Login screen appears; enter the credentials (case sensitive)
 - Username: **Admin**
 - Password: **BacNFico23** (please note the sixth letter is I as in India)
 - Click Login

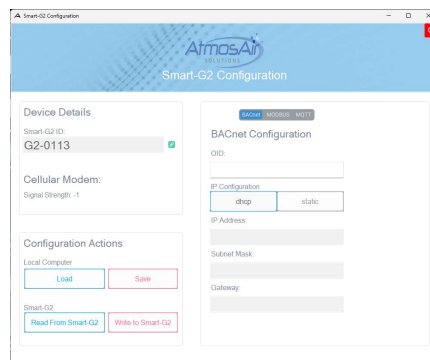


- Connect to the Smart IoT by entering the **Smart IoT Serial Number**
 - Get the serial number of the unit to be programmed.
 - o The serial number is located on the label on the side of the unit.
 - o The serial number starts with "G2-"

- Enter the serial number into the **ID box** and press **Connect**



- The configuration menu panel appears:

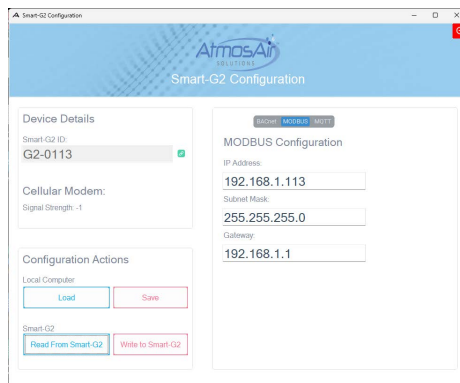


BACnet IP Configuration

- Read the current Smart IoT Configuration
 - Click the **Read From AtmosSmart-3** button.
 - Confirm the serial number entered earlier.
- Assign the **BACnet OID** and IP configuration to the Smart IoT unit.
 - Type the BACnet OID into the blank.
 - Click the button for **dhcp** or **static** for the desired IP type.
 - If static is selected, enter the three items below:
 - o IP Address
 - o Subnet Mask
 - o Gateway
 - Click the **Write to AtmosSmart-3**
 - Click the button **only once**, then wait twenty (20) seconds for the write command to complete and the Smart IoT unit to reboot before disconnecting your laptop.

Modbus IP Configuration

- Read the current Smart IoT Configuration
 - Click the **Read From AtmosSmart-3** button.
 - Confirm the serial number entered earlier.
 - Click the Modbus Tab



- Assign the IP configuration to the Smart IoT unit.
 - Enter the three items below:
 - IP Address
 - Subnet Mask
 - Gateway
 - Click the **Write to AtmosSmart-3**
 - Click the button **only once**, then wait twenty (20) seconds for the write command to complete and the Smart IoT unit to reboot before disconnecting your laptop.
- Confirm that the Smart IoT unit is programmed correctly. **(optional)**
 - Wait 5 minutes after programming to allow the Smart IoT to reboot.
 - Press and hold the button for 7 seconds to enter technician mode.
 - Click the **Read From AtmosSmart-3** button.
 - Review the entries to ensure the desired configuration.
 - Revise and write your corrections if necessary.
- Connect BACnet or Modbus to the Smart IoT unit.
 - Once the BacNet information is written, connect Customer **BACnet or Modbus ethernet** cable to **ETH 2** port on the Smart IoT unit.
- Logout of the system.
 - Close the BACnet Configurator by clicking the **X** in the top right of the application.
 - Alternatively, you can click the red logout icon under the **X**.