**Manuals+** — User Manuals Simplified.

Zonex GEN X
Zoning Controls

# Zonex GEN X Zoning Controls Instruction Manual

**Contents**

**Zonex GEN X Zoning Controls**

**Product Information**

**Specifications:**

- Product Name: GEN V BACnet IP Gateway
- Part Number: GATEWAY NOV 2024 9
- Power Requirement: 24VAC / 100VA Transformer
- Compatibility: Works with GEN X and RM systems

**FAQ**

**Q: What is the default login credentials for the GATEWAY?**

A: The default username is admin and the default password is printed on the bottom of the GATEWAY.

**Q: What power requirements are needed for the GEN V BACnet IP Gateway?**

A: The GEN V BACnet IP Gateway requires a 24VAC / 100VA transformer for power.

**NETWORK ALL YOUR HVAC EQUIPMENT**
Monitor, update and control System Information through BACnet-IP
Centralized DDC Communicatons for Stand-Alone HVAC and Zoned Modulating Systems

**GATEWAY Configuration**

Configuration of the GATEWAY should be performed ONLY a?er the GEN X system has been:

1. Completely installed and working.
2. Configured with a static IP address.
3. Both the GEN X's & RM's (if applicable) Daily Schedules set to 24/7 (always occupied) operation.

See the GEN X's Installation and Operation manual for more details on how to configure a static IP address or daily scheduling.
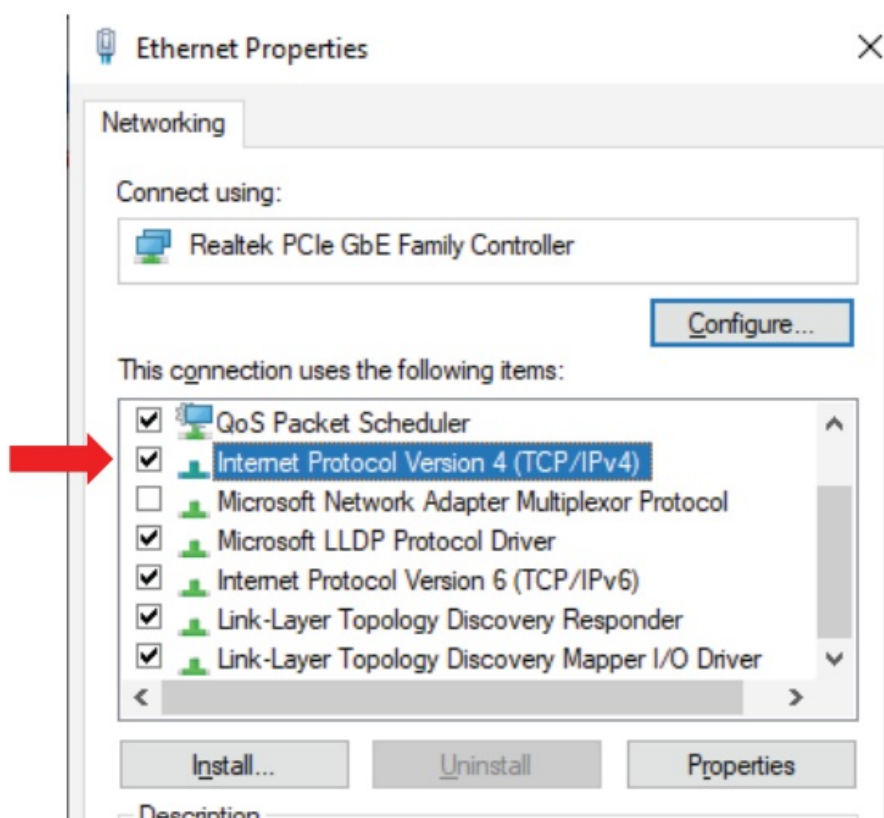
**The following steps MUST be completed in order.**
To access and setup the GATEWAY an Ethernet cable must be connected between it and the PC.



Go to the PC's Network Connecons, disable the Wi-Fi adapter (right click on select disable), right-click on the Ethernet and click on Properties:
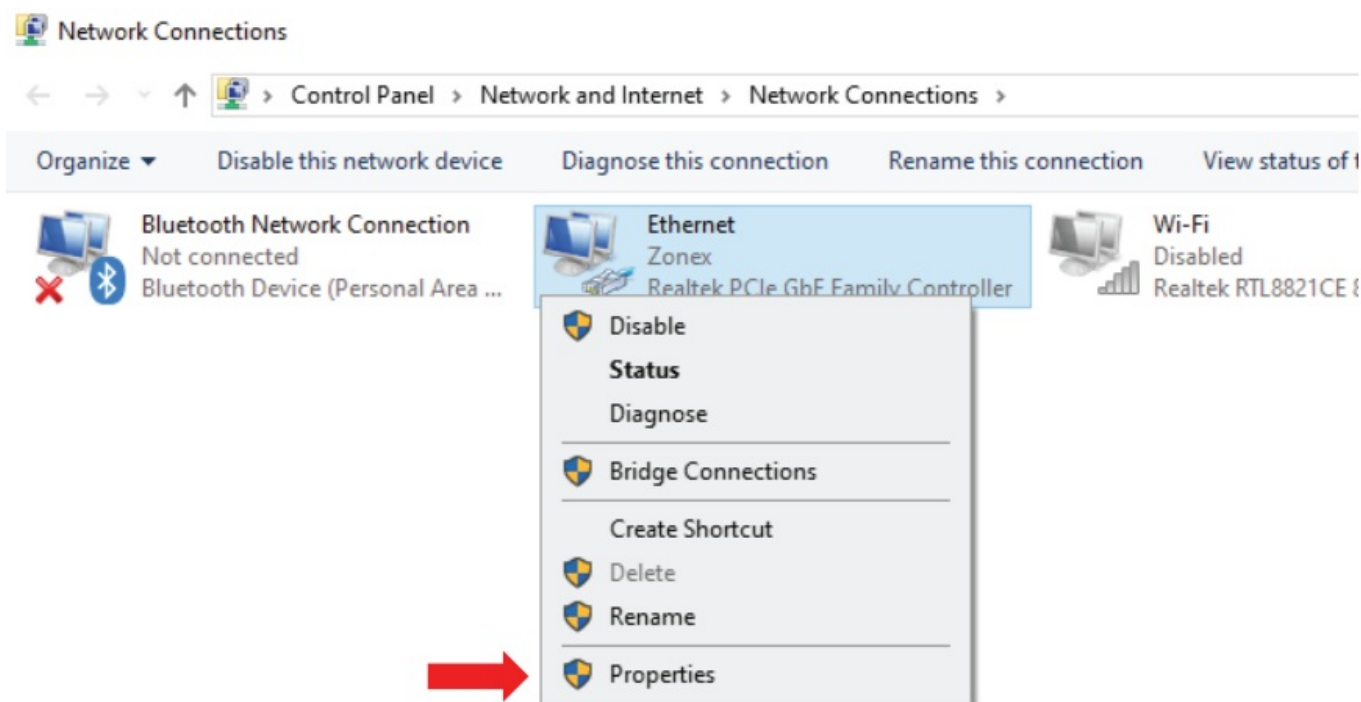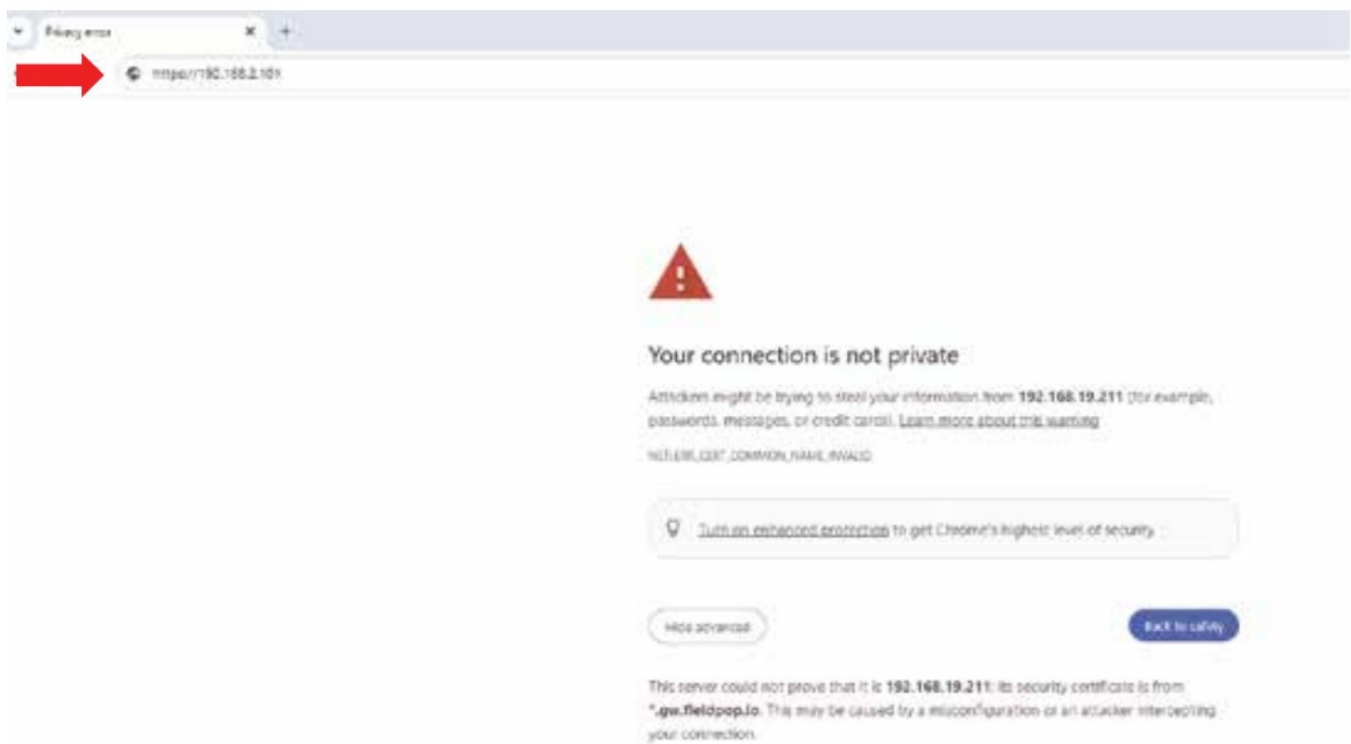
**Click on Internet Protocol Version 4 and then click the Properties button:**



**Click on Use the following IP address: radio button, in the IP address field enter 192.168.2.100, Subnet mask 255.255.255.0, leave the other fields blank and click the OK button:**
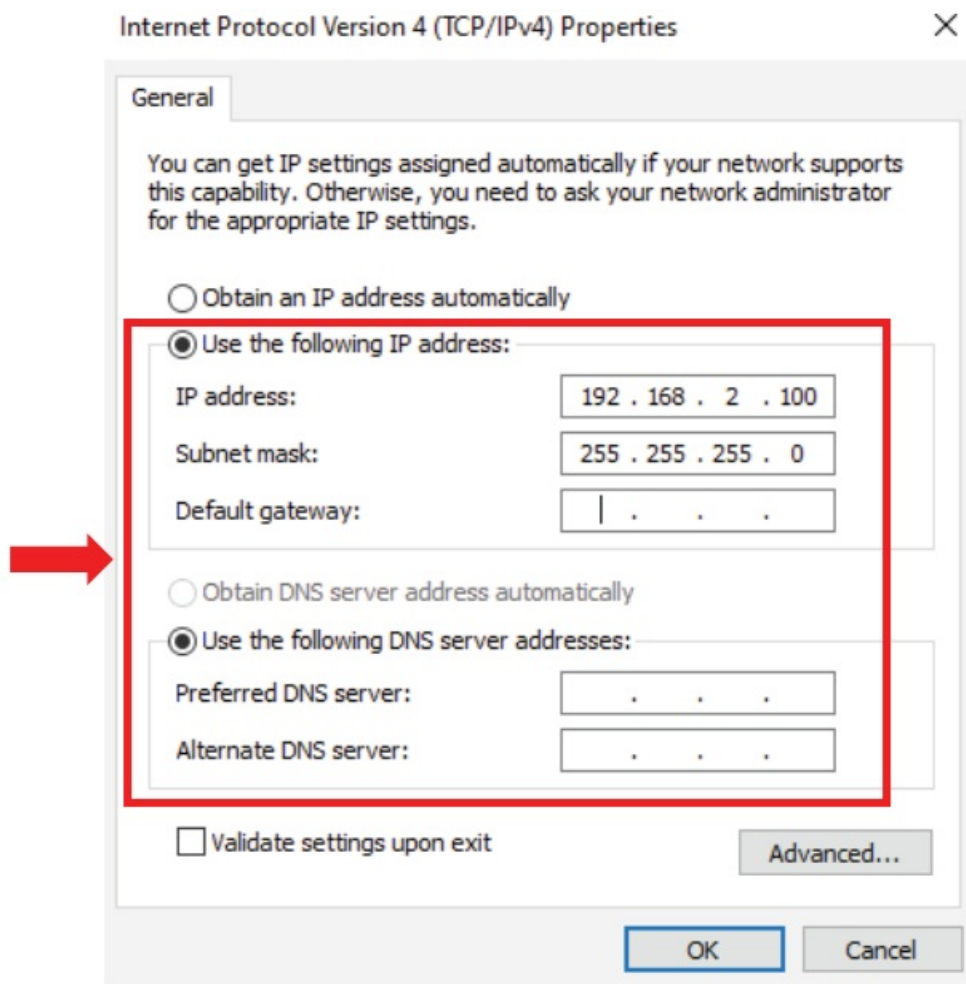
Open up a web browser and in the address bar type in the GATEWAY's default IP address 192.168.2.101 and proceed.



The default username is admin and the default password is printed on the bottom of the GATEWAY

To set a new static IP for the GATEWAY or enable DHCP scroll down and click on the Diagnostics card:



Click on the Setup and then Network Settings. Enter your static IP Address information and then click the Save button. The new IP settings will take effect immediately and you will be logged out of the GATEWAY.

## Navigation

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    - • Security
    - • Time Settings
  - > View
  - • User Messages
  - • Diagnostics

## Network Settings

**Network Settings**

**ETH 1** | Routing

☐ Enable DHCP

**IP Address**

192.168.19.211

**Netmask**

255.255.255.0

**Gateway**

192.168.19.1

**Domain Name Server 1 (Optional)**

**Domain Name Server 2 (Optional)**

Cancel    Save



CONTROL EVERYTHING
FROM YOUR MOBILE DEVICE

GEN X and BACnet IP Gateway require an ethernet
connection to a switch or router that makes an IP network

*NOTE: NEED ZONEX QUICKSERVER FOR BACnet IP COMMUNICATION*
*NOTE: USE ZONEX, 2 WIRE TWISTED PAIR COMMUNICATION LINK*

*ZONEX BACnet IP GATEWAY*

The GATEWAY must be connected to the same subnet as the GEN X system and powered on before continuing. Next, to configure communication between the GATEWAY and the GEN X connect the GATEWAY, GEN X and a PC to the network. Enter the GATEWAY's new IP address into the address bar of your browser and log back in. Then click on the Zonex Configuration card.

## CHIPKIN

### Configuration

| Hunter Configuration | VeederRoot Configuration | Franklin Fueling Configuration | Zonex Configuration |
| --- | --- | --- | --- |
| v1.0.0 | v1.0.0 | v1.0.0 | v1.0.0 |

Enter the GEN X's IP address in the URL field in the following format: **http://xxx.xxx.xxx.xxx/** (the x's represent the GEN X's IP address) and click the Save Configuration button.

## CHIPKIN

### Zonex Configuration

**Zonex Parameters**

| | |
| --- | --- |
| Url | http://192.168.1.100/ |
| Read Interval | 30 |
| Write Interval | 5 |

**BACnetIP Configuration**

| | |
| --- | --- |
| Adapter | N1 |
| Port | 47808 |
| Node ID | 389001 |
| COV Enable | ☐ |

Save Configuration

Below is a brief explanation of the fields found on the Zonex Configuration page:

| Name | Description | Value Ranges |
|---|---|---|
| URL | Enter the GEN X's static IP address in this field | Must be in format of **http://xxx.xxx.xxx.xx/** (where the x's represent the GEN X's static IP address). |
| Read Interval | How often the QuickServer polls the GEN X system for data (in seconds). | 1-3600, **30** |
| Write Interval | How often data vaues are written to the GEN X system when data has changed via BACnet IP (in seconds). | 1-3600, **5** |
| Adapter | The physical media that the Quickserver uses to connects to the BACnet IP network. | **N1**, the ETH Ethernet port only. (No option for MS/TP) |
| Port | The UDP port for BACnet IP | **47808** |
| Node ID | The BACnet IP Device Identifier for the FieldServer. | 0-4194302; **389001** |
| COV Enable | Enables or disables COV (Change of Value) for the QuickServer. | Checked = enabled, Unchecked = **disabled** |

Click on the FS GUI link.



On the next page click on the System Reboot button. Then click the OK button.
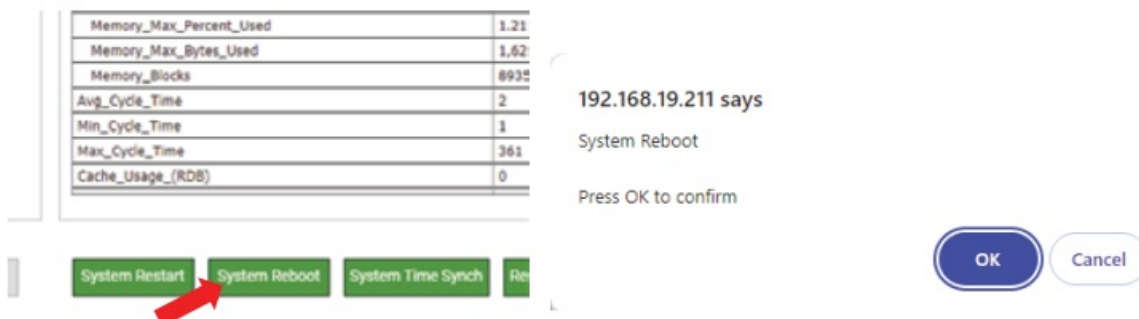


The SS LED on the front of the GATEWAY will go solid green, then turn off and then flash steadily when it is ready to communicate. You may now attempt to discover the GEN X system on your network (should display as ZonexGateway).

**BACnet Objects List**

**GATEWAY – GEN X & RMs BACnet IP Objects**

The following table contains the BACnet IP Objects generated in the Meta-Configurer. The configuration uses the BACnet Object Instance of the objects to sort the objects.

**Supported Object Types:**

- AI = Analog Input
- AV = Analog Value
- BI = Binary Input
- BV = Binary Value
- MI = Multi-State Input
- MV = Multi-State Value

Note: Depending on the con figuration of the Zonex devices, there can be a large amount of generated BACnet objects which could cause the discovery of this BACnet IP device to take a long time.

## GATEWAY Troubleshooting Tips

**TROUBLESHOOTING TIPS**

1. Can't directly connect to the GATEWAY:

   a. Make sure that the GATEWAY is powered on and the SS LED is flashing steadily.

   b. Double check the static IP address settings of your PC are configured for the same subnet as the GATEWAY's default IP address.

   c. Make sure the Ethernet cable is plugged into the GATEWAY & your PC and the activity light on both devices are flashing periodically.

   d. Try to ping the GATEWAY's default IP address.

2. Can't connect to the GATEWAY after its IP address has been changed and connected to the network:

   a. Make sure that the GATEWAY is powered on and the SS LED is flashing steadily.

   b. Double check the IP address settings of your PC are for the same subnet as the GATEWAY's new IP address.

   c. Make sure the Ethernet cable is plugged into the GATEWAY & your switch/router and the acvity light on both devices are flashing periodically.

   d. Ensure that the IP address that you are attempting to use to connect to GATEWAY is correct.

   e. Try to ping the GATEWAY's new IP address.

   f. Try to discover the GATEWAY using FieldServer Toolbox-1.08aC-Setup utility

3. My BMS can't find ZonexGateway/GEN X system.

   a. Follow Troubleshooting step #2.

   b. Reconnect to the GATEWAY and ensure that the GEN X's IP address was correctly entered on the Zonex Configuration page.

   c. Log into the GEN X using the Zonex app (see the GEN X Installation and operation manual for more details) and confirm that its static IP address is correct.

4. Why are there no points to set an operating schedule for the GEN X system's zone thermostats?

   a. Scheduling should be done through the BMS and the GEN X system configured for 24/7 operation through the Zonex app to avoid any scheduling conflicts. See the GEN X Installation and operation manual for more

details on how to set a 24/7 schedule.

5. I can discover the GEN X and its thermostats but I can't discover the RM(s) and their thermostats?

   a. Using the Zonex app ensure that the RMs are properly connected to and synced to the GEN X system.

   b. Re-enter the GEN X's IP address into the URL field on the Zonex Configuration page and reboot the GATEWAY.



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## Documents / Resources

 **Zonex GEN X Zoning Controls** [pdf] Instruction Manual
GEN X Zoning Controls, GEN X, Zoning Controls, Controls

## References

- **User Manual**