I. Introduction

The **ETP-CGW-4G-GSM-V2** Cellular Gateway transforms any Talkaphone ETP-120 or ETP-520 Series Analog Call Station from wired landline telephone device into a 4G LTE cellular voice-enabled device.

This **Cellular Gateway** supports cloud-based device management and supervision (subscription required)—automatically sending email alerts to administrators when the device is offline or changes to the power supply are detected.

II. Contents

Before beginning installation, make sure you have all the following components:

Qty.	Part Number	Description
1	810-00121	ETP-CGW-4G-GSM-V2 Cellular Gateway
1	160-00047	MIMO LTE Antenna with 17-foot Cable Assembly
1	430-00247	Shim for LTE Antenna
1	840-00066	10-foot DC Power Cable
2	472-00058	6-32, 0.375L, panhead, stainless steel Phillips screw (for enclosure mounting panels with pem nuts)
2	472-00073	#6 x 0.375"L, self-tapping, 18-8 stainless steel Phillips screw (for enclosure mounting panels without through-holes or pems)

III. Requirements

The following equipment and tools required for installation are not provided:

Qty.	Description
1	USB-C to USB-C cable or USB-C to USB-A cable (dependent on computer used for local configuration)
1	T20 Pin-in Torx bit for #10 screw
1	Phillips screwdriver
1	Adjustable wrench

IV. Power Requirements

The **Cellular Gateway** has the following power requirements:

- 9-16VDC
- 1.7W (nominal), 3.5W (maximum)

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V. Cellular Service Requirements

Prior to installation and setup, the **ETP-CGW-4G-GSM-V2** Cellular Gateway should have an activated **4G nano-SIM (4FF) card with Voice over LTE (VoLTE) service** provided by AT&T, T-Mobile, or Verizon.

Please provide this document and reference this page to the AT&T, T-Mobile, or Verizon service provisioning representative prior to service order and activation.

The carrier should carefully review the following and check the configured plan, provisioning, and SIM cards.

For AT&T. The copper-to-cellular (C2C) interface is an AT&T-certified IoT device—here is the model information listed under AT&T's Certified IoT Device Catalog:

Manufacturer:	Peplink
Model Name/Number:	POTS-ADP-LTE-US-T-PRM
Device Type:	Router
Radio Technology:	4G LTE,3G
LTE Technology:	CAT 4
5G Technology:	
Certification Type:	IoT
FirstNet:	FirstNet Capable

For T-Mobile. The copper-to-cellular (C2C) interface is a T-Mobile-certified IoT device—here is the model information listed under T-Mobile's Certified IoT Device Catalog:

Manufacturer:	Peplink
Model Name/Number:	POTS-ADP-LTE-US-T-PRM
TAC:	86163004
Network Category:	LTE-CAT-4
Speed:	Up 50Mbps Down 150Mbps
LTE Band Support:	2, 4, 5, 12, 66, 71
Feature:	GPS: No SMS: No VoLTE: Yes
Contact Info:	Email: sales@peplink.com Phone: 650-450-9668

For Verizon. The copper-to-cellular (C2C) interface is a T-Mobile-certified IoT device—here is the model information listed under Verizon's Open Development Certified Devices Showcase:

Manufacturer:	Peplink
Model Name/Number:	POTS-ADP-LTE-US-T-PRM
Device Type:	Router with Voice Terminal
Network Technology:	LTE Only
LTE Category Support:	Cat 4

For All Carriers. On the VoLTE network side, the Cellular Gateway requires provisioning on the VoLTE network—the provisioning must enable voice capability and it **CANNOT** be blocked or have **ANY** restrictions.

Please check with your Cellular Carrier Representative for available plans in your local area.

NOTE: Prepaid AT&T and T-Mobile SIM cards are also available through Talkaphone—more information can be found here:

https://talkaphone.com/hubfs/documents/Prepaid_SIM_Card_Ordering_Info_Rev_1_0_2025_04_07.pdf

VI. Installing the Antenna

The **Cellular Gateway** includes a remote-mounting MIMO LTE antenna which should be attached to the Talk-A-Phone enclosure (e.g., ETP-MTE-W, ETP-MTE-WP, ETP-MT/R-SOLAR, ETP-MT/R-PCS, etc.) via the built-in antenna mounting through-hole. To install the remote-mounting MIMO LTE antenna, please follow the separate antenna mount instructions included with the antenna.

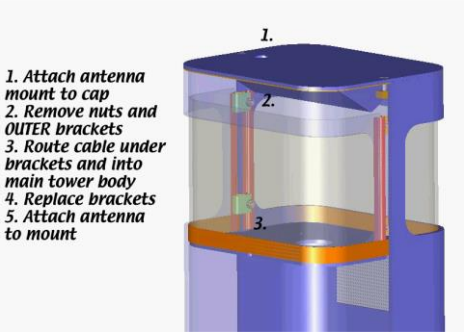

Figure 1. An example of mounting the remote-mounting MIMO LTE antenna onto the cap of an ETP-MT/R-PCS tower.

The antenna will be connected to the **Cellular Gateway** through the ports listed in **Section VII.2**.

VII. Installing the Cellular Gateway

1. The front panel of the **Cellular Gateway** provides the following:
   (1) RJ11 ***Phone*** port for connecting to an ETP-120 or ETP-520 Series Analog Call Station;
   (2) USB-C port for local web configuration/programming;
   (3) LED indicators for ***Status, Phone***, and ***Cellular***;
   (4) DC input terminal for 12VDC.

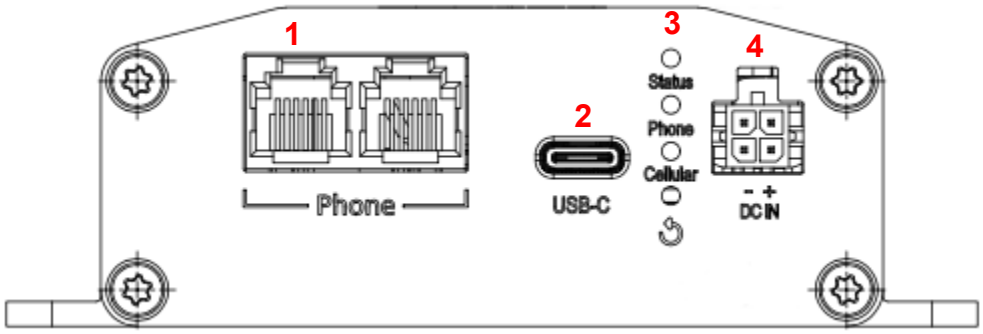

Figure 2. Front panel of the **ETP-CGW-4G-GSM-V2** Cellular Gateway.

Below is a table that defines the various LED indicator states:

LED Name Label	Status	Indication
Status	Off	Powered off
	Red	Booting up
	Steady Green	Ready
	Blinking Green	Upgrading firmware
Phone	Off	Powered off or no SIM card inserted
	Blinking Green	Connecting to network(s)
	Steady Green	Connected to network(s)
Cellular	Off	Powered off
	Steady Green	Device is registered successfully and ready for a call

2. The rear panel of the **Cellular Gateway** provides the following:
   (1) ***Aux*** connector for remote-mounting MIMO antenna;
   (2) ***Main*** connector for remote-mounting MIMO antenna;
   (3) ***SIM*** slot for nano-SIM (4FF) card—with screw-secured cover.

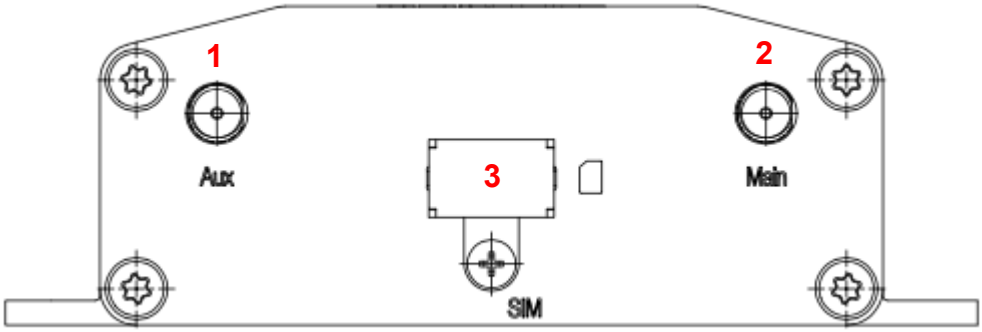

Figure 3. Rear panel of the **ETP-CGW-4G-GSM-V2** Cellular Gateway.

3. Untighten the screw of the cover for the SIM slot.
4. Insert the nano-SIM card (4FF) into the SIM slot (see ***Figure 4***).

   Push the nano-SIM card into the slot until a click is heard. To remove the nano-SIM card, push the card until a click is heard and the card springs out of the slot.

IMPORTANT NOTE: The orientation of the nano-SIM card should be angled notch entering the slot first with the metal contacts facing down toward the mounting flanges.

Figure 4. Removing the cover for the SIM slot and inserting the nano-SIM card into the Cellular Gateway.

5. On the remote-mounting MIMO LTE antenna, there should be two (2) ends marked in red and labeled as ***LTE***—connect these cables to the ***Aux*** and ***Main*** connectors on the **Cellular Gateway** (see ***Section VII.2***). Any of the two ***LTE*** cables can connect to either connector.

6. Connect the RJ11 cable from the ETP-520 or ETP-120 Series Analog Call Station to the leftmost ***Phone*** port (see ***Figure 5***).

Figure 5. Connecting the RJ11 cable from the ETP-520 / ETP-120 Analog Call Station to the Cellular Gateway.

7. Connect the included DC power cable assembly to the ***DC IN*** terminal on the **Cellular Gateway**.
8. If the gateway is being powered by an SLR Series (solar) kit, connect the ***LOAD*** terminals of the solar controller to the DC power cable assembly (12VDC input) of the **Cellular Gateway**.
    - The **black** wire of the DC power cable assembly connects to negative (-).
    - The **red** wire of the DC power cable assembly connects to positive (+).
    - The **brown** and **orange** wires of the DC power cable assembly are not used and should not be connected.

    Otherwise, connect a 12VDC power source appropriately with respect to polarity.
9. Using the built-in mounting flanges, attach the **Cellular Gateway** onto the internal mounting panel of the Talk-A-Phone enclosure (e.g., ETP-MTE-W, ETP-MTE-WP, ETP-MT/R-SOLAR, ETP-MT/R-PCS, etc.) by fastening four (4) screws through the holes on the integrated mounting flanges.

    The **Cellular Gateway** should be mounted so that the 12VDC input terminal is on the lower right corner (i.e. toward the Earth).

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VIII. Configuring the Cellular Gateway Locally

1. Connect the **Cellular Gateway** to a computer with a web browser via the USB-C port (see ***Figure 6***).

Figure 6. Connecting a USB-C cable to the Cellular Gateway.

IMPORTANT NOTE: The **Cellular Gateway** utilizes the Remote Network Driver Interface Specification (RNDIS) to establish a connection with a web browser. The RNDIS driver creates a virtual Ethernet link on the connected computer. Please make sure that the RNDIS driver is installed on the computer being used to access the **Cellular Gateway**. Please note that the RNDIS driver is available for Windows and Linux only. macOS is not supported.

2. Using a web browser, enter https://192.168.50.1 into the address bar—a login page will load:

IMPORTANT NOTE: The default IP address of the **Cellular Gateway** could already be used by the upstream router of the computer. If this is the case, change the gateway IP address of the upstream router.

3. Log into the **Cellular Gateway** with the following default credentials.

   Default username: **admin**
   Default password: **admin**

4. Click on **Modem Settings** in the left navigation bar.
5. Under the **LTE Setup** section, configure the following:
   (1) Set **Auto APN** to **Disabled**.
   (2) For the **APN** field, please enter one of the following text strings:
   - If a VoLTE SIM card is being provided by others, please contact the carrier or provider for the APN string to enter.
   - If an AT&T SIM card is provided by Talkaphone, enter: **37208.mcs**
   - If a T-Mobile SIM card is provided by Talkaphone, enter: **iot.tmowholesale**
6. Click the **Save** button at the bottom of the page.

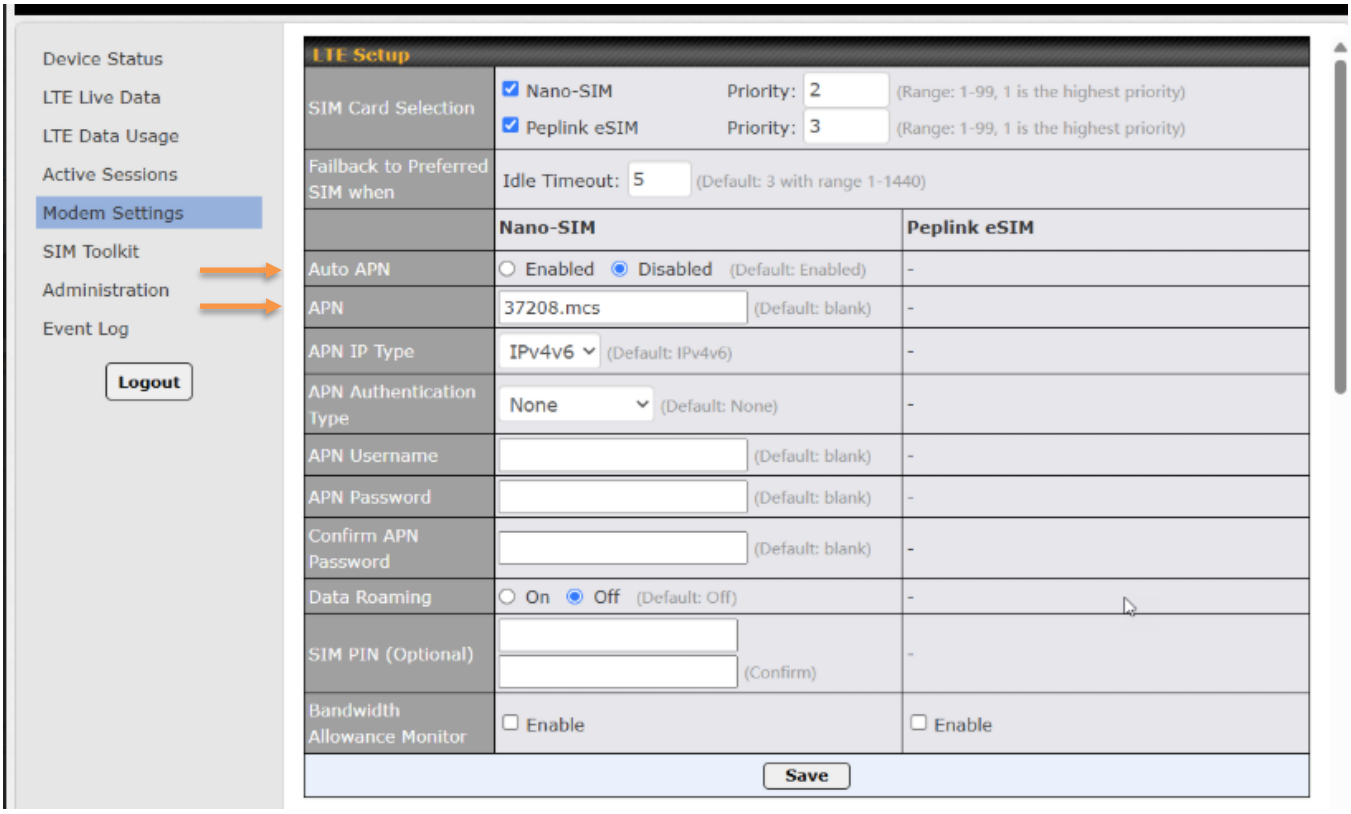
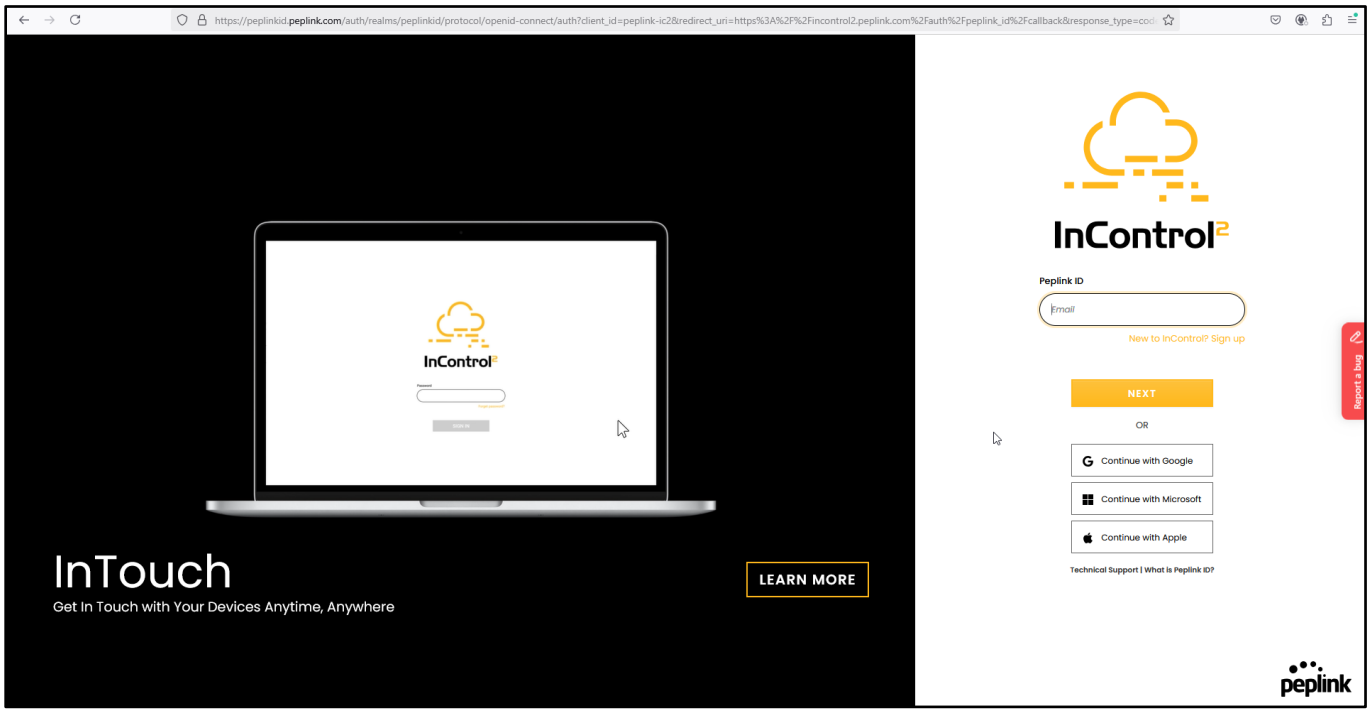


Figure 7. Modem Settings presented through the web browser configuration interface of the **Cellular Gateway**.

7. Click on **Administration** in the left navigation bar—click on the **Reboot** button at the bottom of the page that loads.
8. When all three (3) LEDs turn **steady green**, the **Cellular Gateway** will be ready to place and accept phone calls.

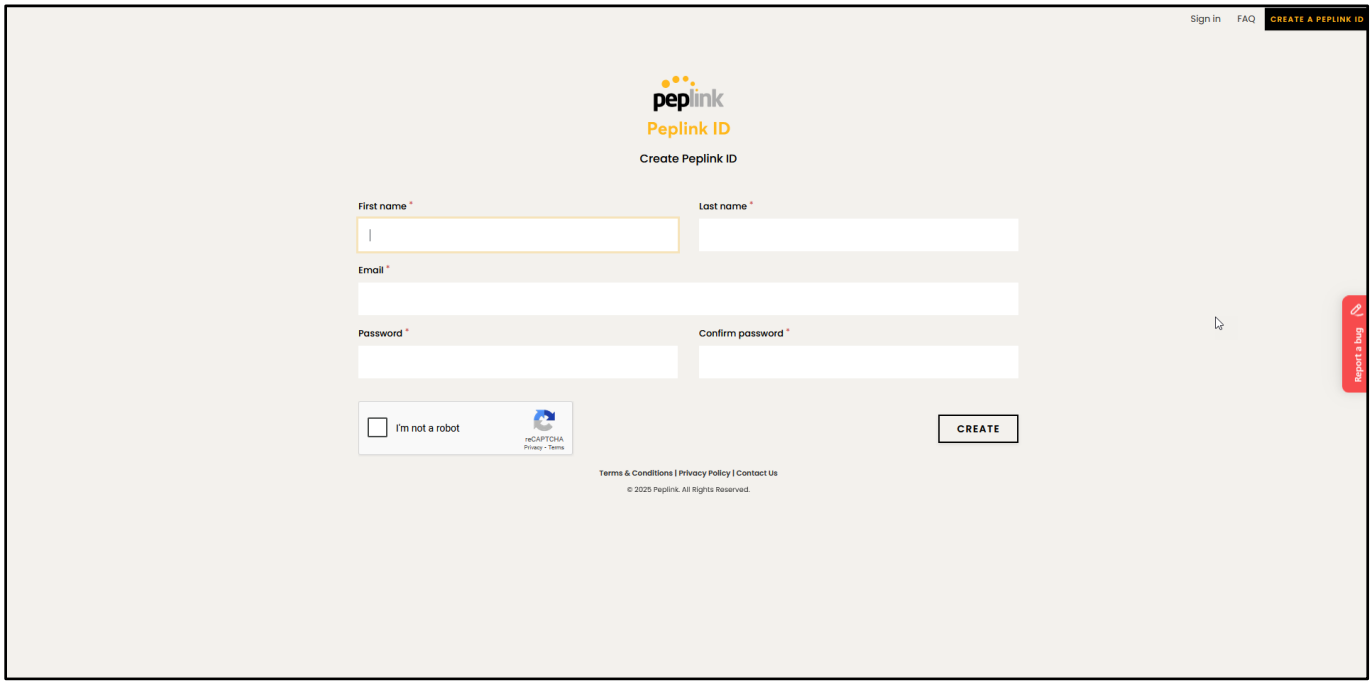
IX. Setting Up an Account – Cloud Device Management / Supervision Service

1. Using a web browser, visit: **https://incontrol2.peplink.com**
2. Click on **New to InControl? Sign up**.

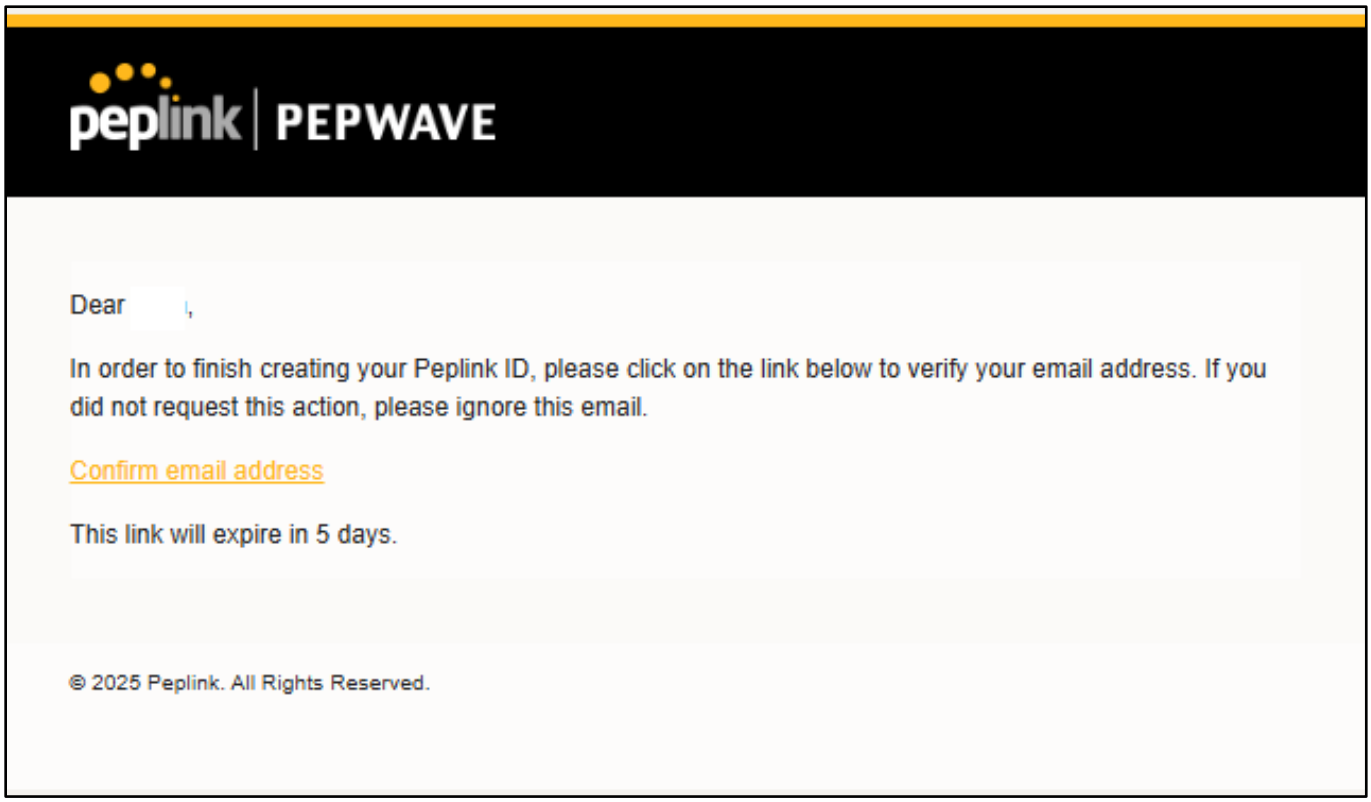


3. Fill in your contact information and create a password.

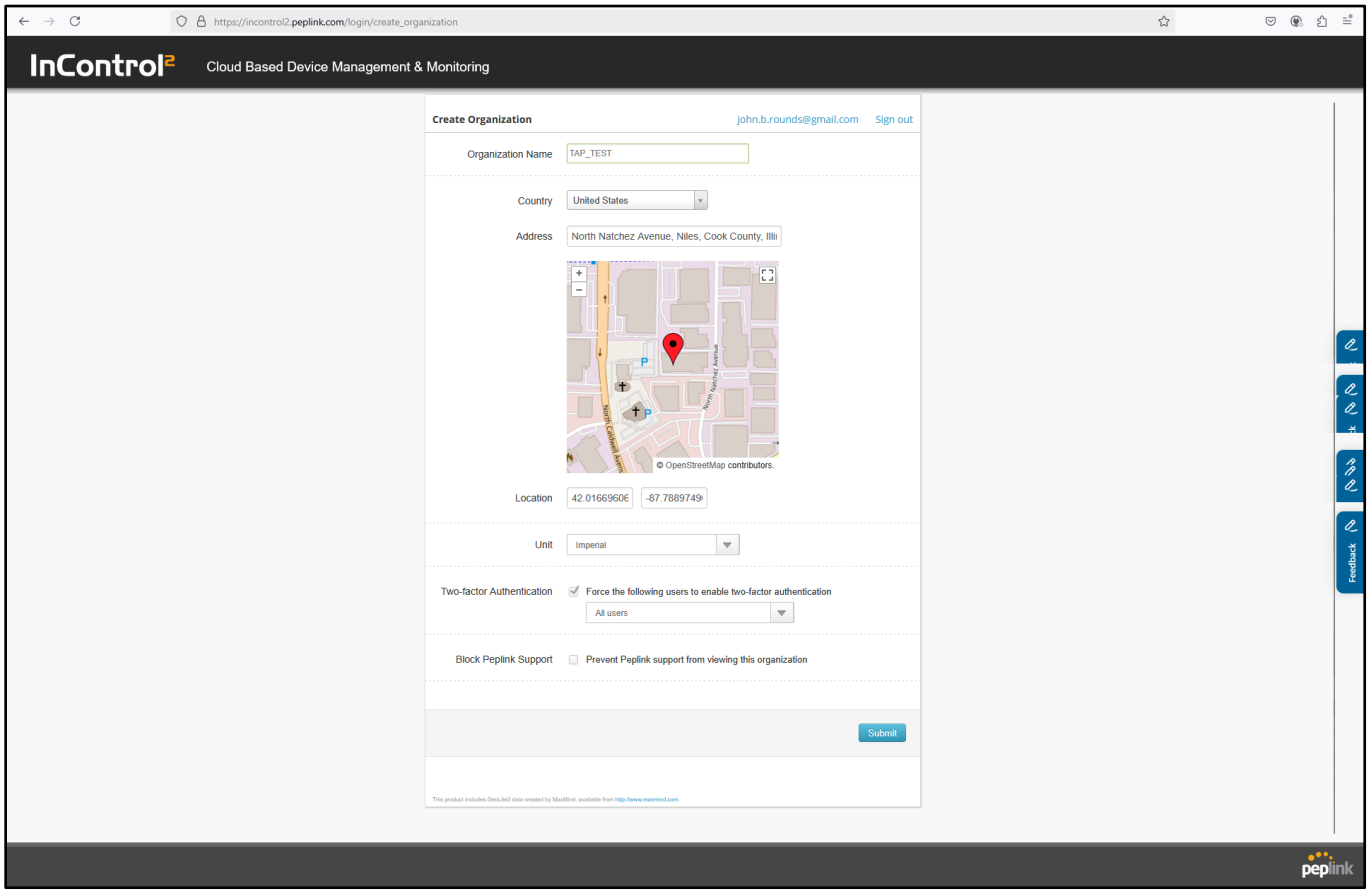
   Check **I'm not a robot** and click on the **CREATE** button.



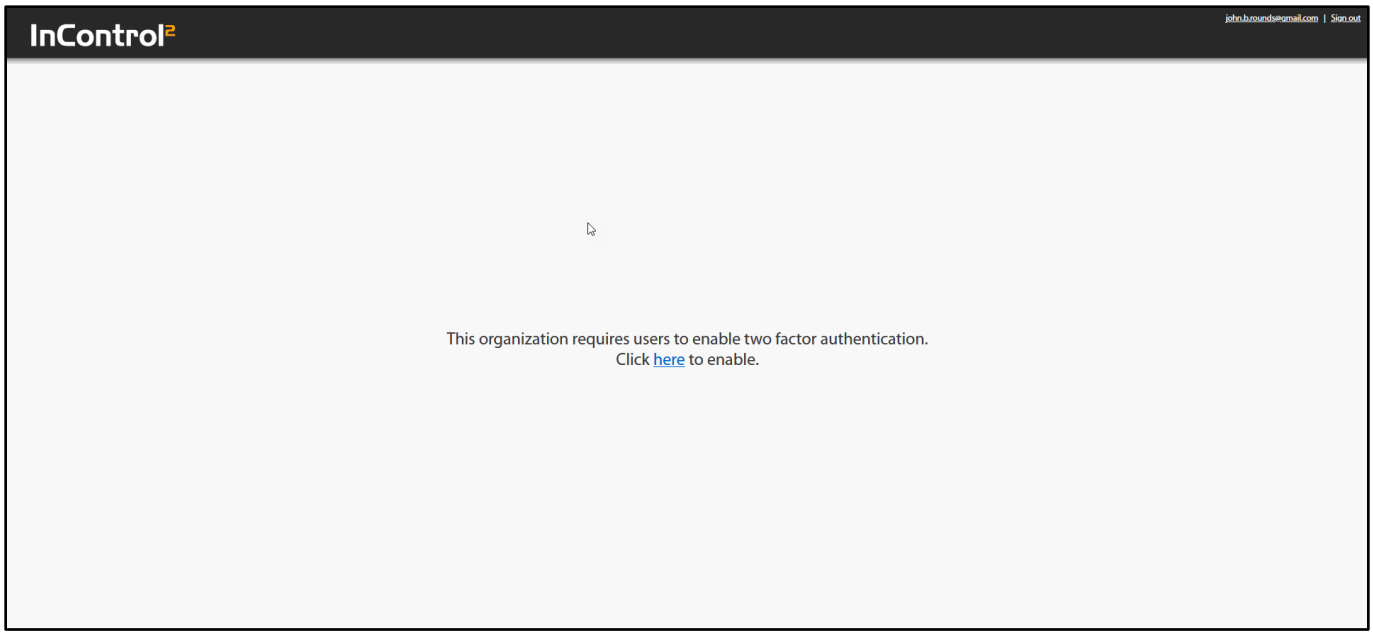
4. Check your email for a confirmation link. This email can take several minutes to receive. Once received, click on the **Confirm email address** hyperlink.



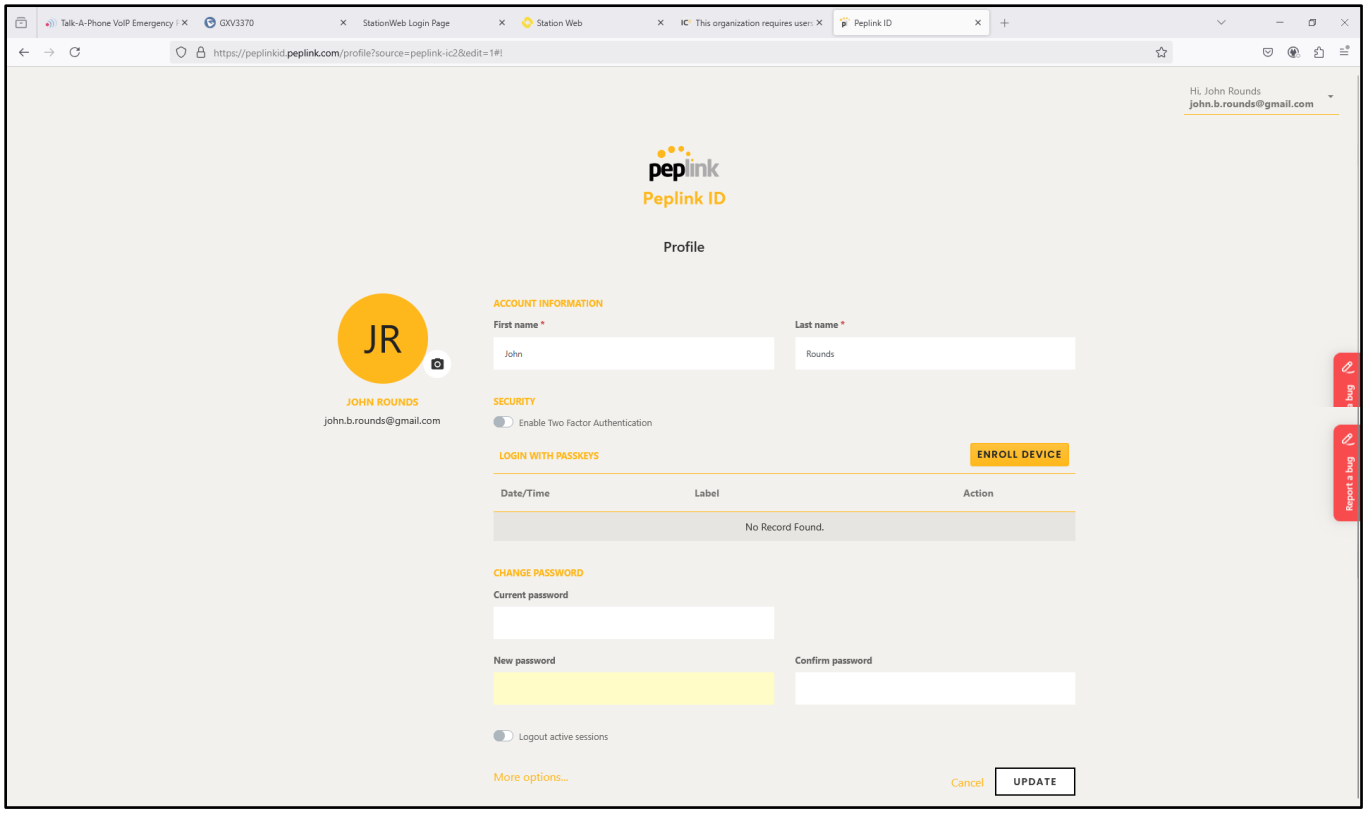
5. Enter name and location information for the installation site and/or end user organization.



6. Click on the **here** hyperlink to enable two-factor authentication.

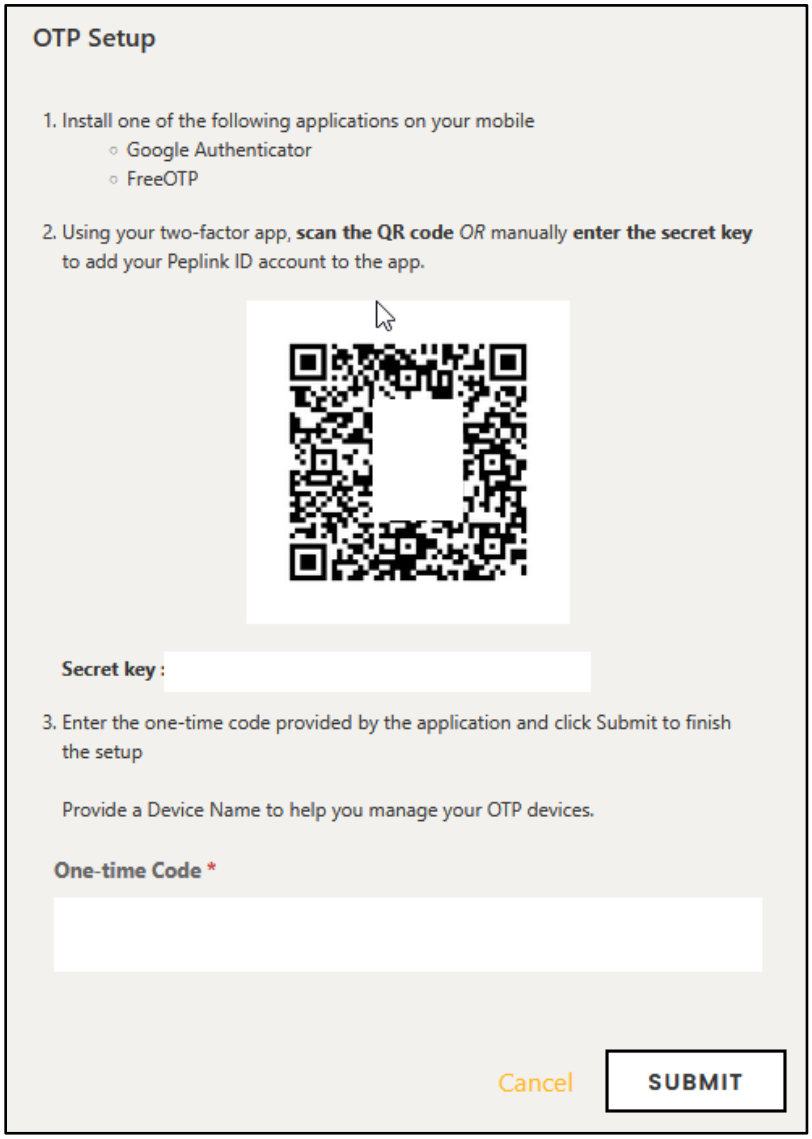


7. Enable two-factor authentication and complete the remainder of your Peplink ID account information. Click on the **UPDATE** button once completed.



8. Complete two-factor authentication setup by scanning the QR code with an authenticator app such as FreeOTP, Google Authenticator, or Microsoft Authenticator.

   Enter the **One-time Code** generated by the authenticator app and click on the **SUBMIT** button.



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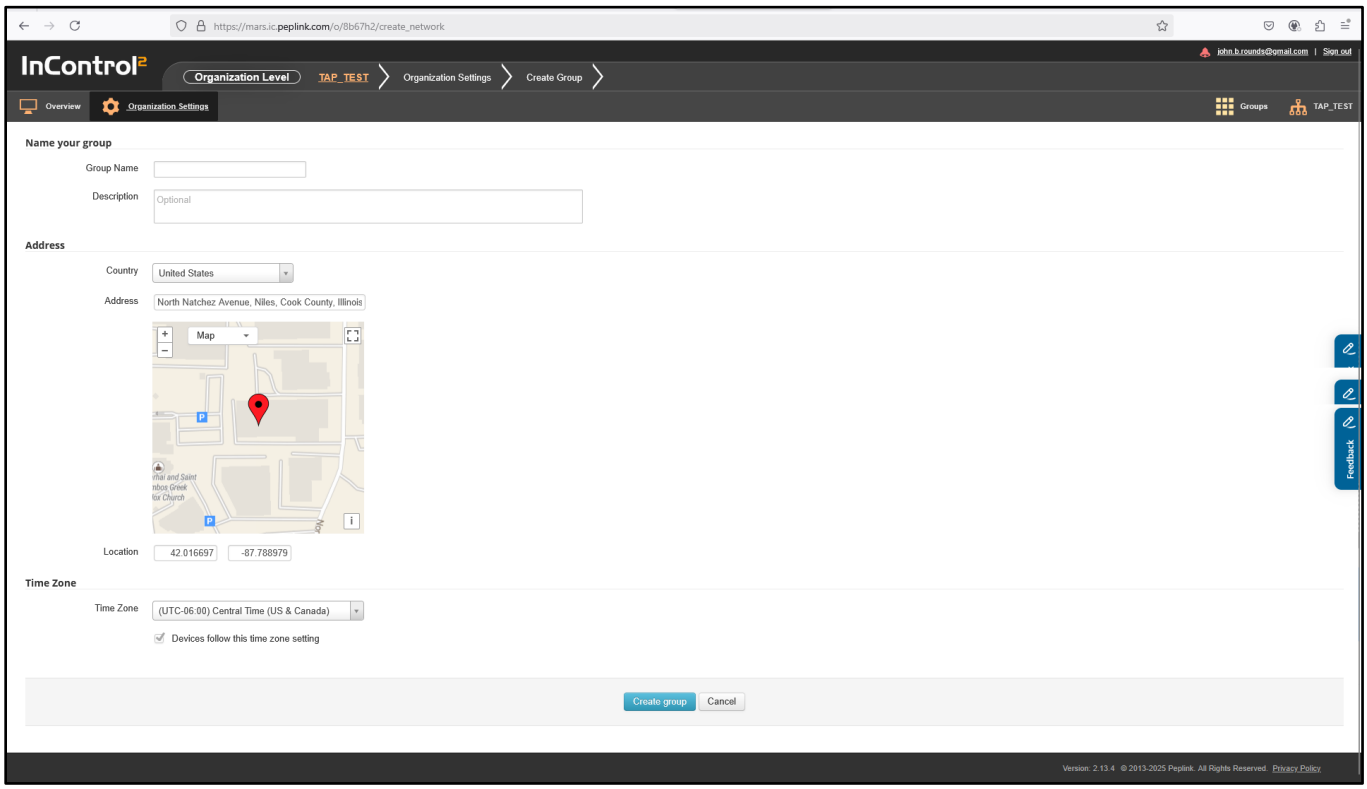
X. Adding a Cellular Gateway – Cloud Device Management / Supervision Service

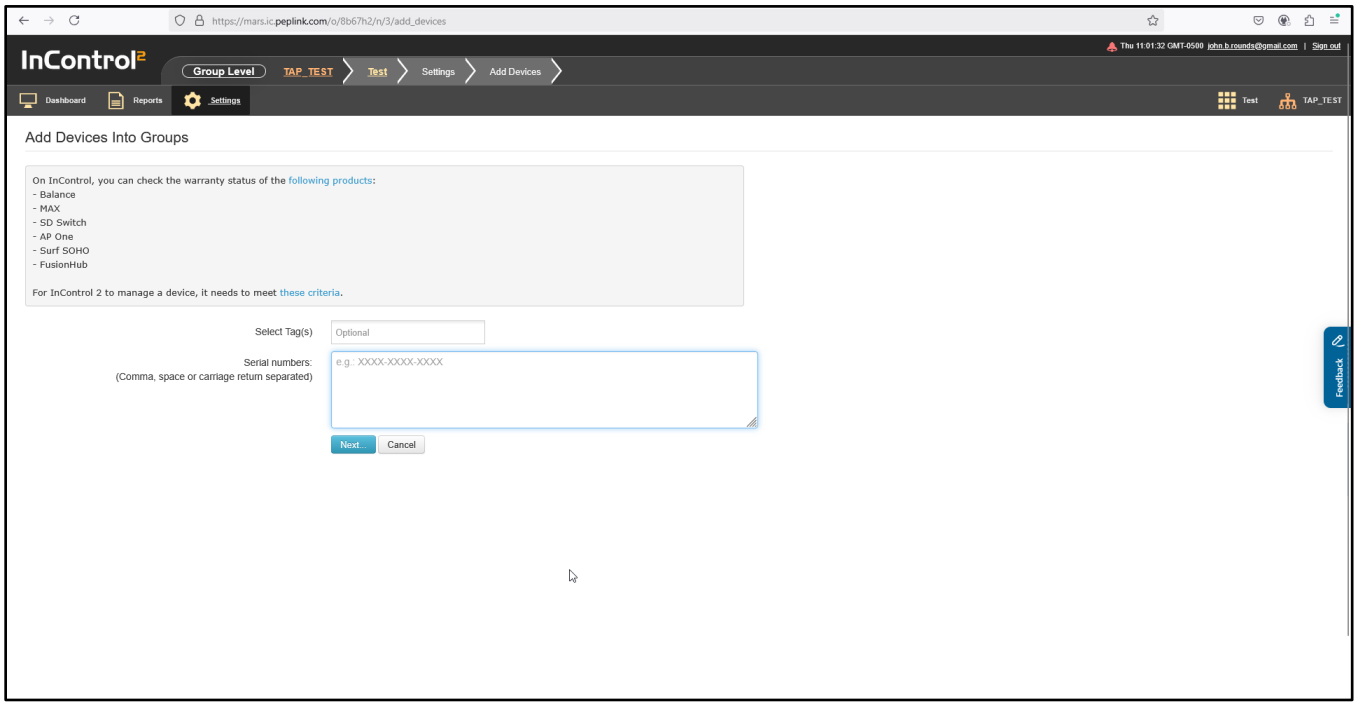
1. Create a group for the installation site and/or end user organization.

   Enter the site/organization name, physical location information, and time zone.

   Click on the **Create group** button.

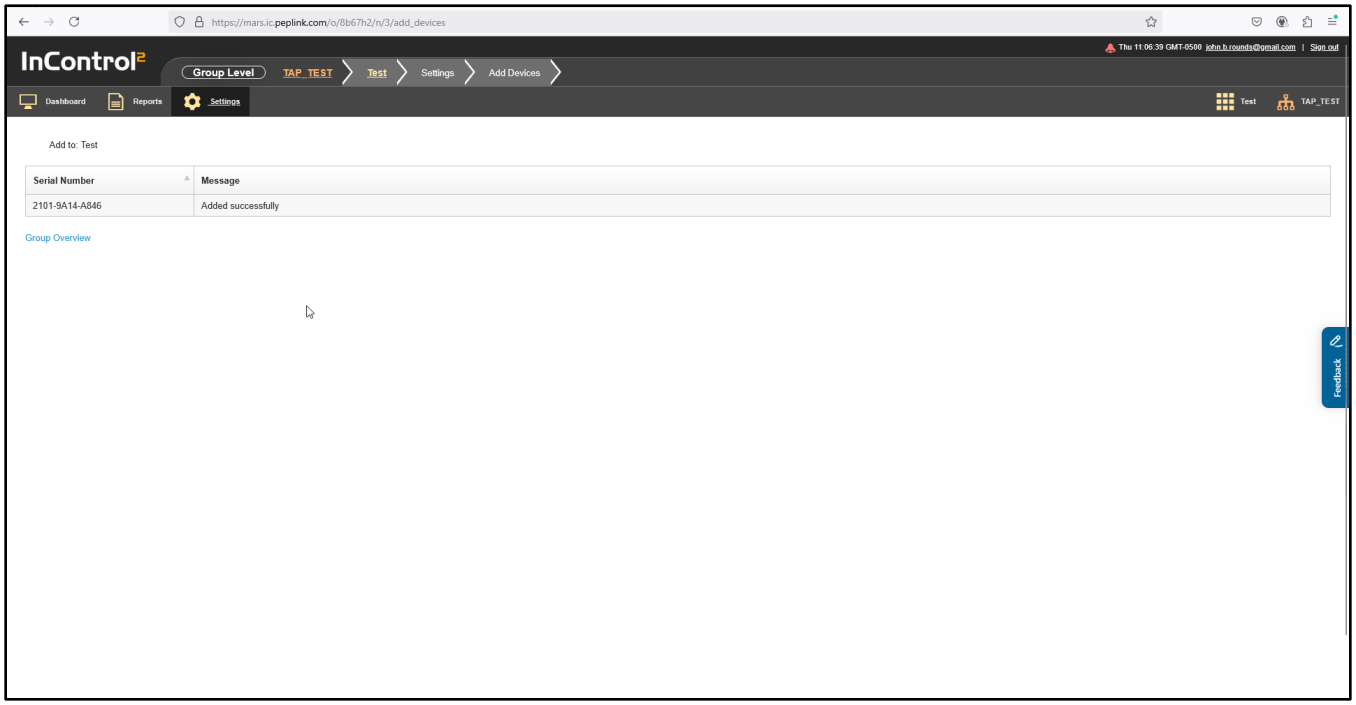


2. Enter the serial number(s) of the **Cellular Gateway(s)** to be added to the InControl2 account.
   Text tags can also be entered to facilitate searching across numerous **Cellular Gateways**.
   Click on the **Next** button once finished to add devices to your InControl2 account.

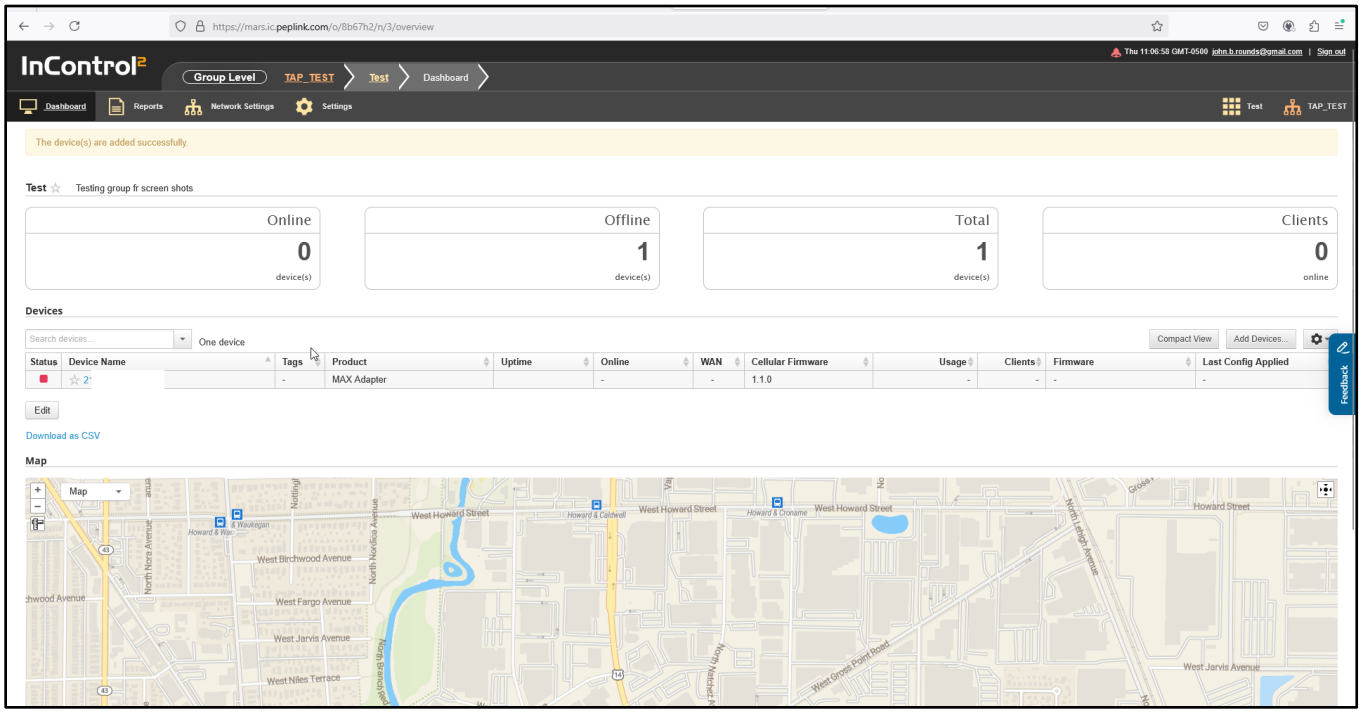


3. A page will be presented to confirm the information entered for each **Cellular Gateway** device.
   Click on the pencil icon on the right-side for each entry that needs editing.
   Or click on the **Confirm** button if all information has been correctly entered.

4. Once confirmed, a summary page will be displayed for all **Cellular Gateway** devices that have been added.



5. Click on the **Dashboard** button in the upper horizontal navigation bar to view the status of all devices for the installation site or end user organization.



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XI. Setting Up Email Notifications – Cloud Device Management / Supervision Service

1. Using a web browser, go to the InControl2 portal (https://incontrol2.peplink.com).
2. In the upper horizontal navigation bar, go to **Settings > Notifications**.
3. Configure the following:

General

- **Enabled:** Checked
- **Devices Notify for:** All devices in this group

E-mail Notification Subscriptions

- **Enabled:** Checked
- **Device Online / Offline:** Checked
  - **Recipients:** All organization and group admins
- **WAN Up / Down:** Checked
  - **Recipients:** All organization and group admins
- **POTS and MAX Adapter Power Supply Changes:** Checked
  - **Recipients:** All organization and group admins

4. Click on the **Save Changes** button at the bottom of the page.

XII. Programming the ETP-120 / ETP-520 Series Analog Call Station

Please refer to the **Installation & Operation Manual** for the ETP-120 Series or ETP-520 Series Analog Call Stations for information on how to program the autodial phone number list, pre-recorded voice message, relay output trigger, and other necessary key functions.