

# Installation and configuration guide

## Panoramic Power – advanced cellular bridge For firmware version 2x (Build 107)

Version 2: January 2018



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## Regulatory Compliance

Conforms to UL Std 61010-1, certified to CAN/CSA Std C22.2 No. 61010-1



The bridge complies with the following certification requirements:

Power supply	Certified AC/DC adapter marked Limited Power Source (LPS), or NEC Class 2, suitably rated for voltage, current and ambient temperature
Electrical rating	5VDC, maximum 1A
Environmental rating	Maximum ambient temperature 60°C Pollution degree 2 Indoor use Relative humidity up to 80%

### Product end of use handling (WEEE) - Waste of Electrical and Electronic Equipment:



Centrica Business Solutions is committed to protect the global environment and helping our customers with recycle responsibilities. Disposal of electrical and electronic products must be done according with the local and national regulations. You can return your product to a local collection point. For information about your disposal or collection points, call your distributor or vendor.

# Contents

Advanced Cellular Bridge .....	<b>Error! Bookmark not defined.</b>
Installation and Configuration Guide .....	<b>Error! Bookmark not defined.</b>
For Firmware Version 2.x (Build 107).....	<b>Error! Bookmark not defined.</b>
Panoramic Power and the Bridge .....	4
Unpacking the Hardware .....	6
Attaching the Antennas.....	6
Mounting the Bridge .....	6
Connecting the Bridge.....	7
Configuring the Bridge .....	8
Accessing the Bridge Web Interface .....	8
Entering Credentials .....	9
Configuring the Bridge for Wi-Fi Connection.....	9
Configuring the Bridge for Cellular Connection .....	12
Configuring the Bridge for Wired LAN .....	14
Loading the Bridge Configuration from a Configuration File .....	15
Modifying the Bridge Administration Settings.....	15
Modifying the Default URL and/or Port of the Panoramic Power Server.....	15
Modifying the Default Credentials for the Bridge Web Interface.....	16
Resetting the Bridge Configuration to Factory Defaults .....	16
Viewing the Configuration Status .....	16
Understanding the Bridge LEDs.....	17
Verifying the Wi-Fi or Cellular Connectivity .....	18
Upgrading the Firmware Version .....	19
Troubleshooting .....	21

## Panoramic Power and the Bridge

The Panoramic Power System monitors electrical energy consumption at the individual circuit level and detects excess usage, allowing organizations to identify and reduce energy and maintenance expenses.

The Panoramic Power System consists of wireless, self-powered sensors engineered to allow for rapid, non-invasive installation, with almost no disturbance to operations. Sensors are easily attached to circuit breakers by just snapping them on to the outgoing electrical cable. They monitor the flow of electricity through the magnetic field it creates and also use it as power source. The sensors do not require any maintenance.

Sensors report the power consumption to the bridge, which, in turn, transfers the information to PowerRadar, the solution's cloud-based analytics platform. A single bridge can collect data from up to 250 sensors and multiple bridges can be used in a single site to increase coverage.



Two models of bridge are available:

- Basic Bridge (PAN-2-H-US/EU)
- Advanced Cellular Bridge (PAN-2-H-3G-US/EU), featuring a SIM card slot.

The table below lists the key features of each bridge.

Key Features	Basic Bridge	Advanced Cellular Bridge
Plug and Play Installation	✓	✓
Flexible Mounting Options	✓	✓
Wi-Fi / Ethernet connectivity	✓	✓
Cellular (3G GSM) connectivity	Via external USB dongle	Via SIM card slot
Store capability in case of network loss	X	✓
Field-upgradable firmware	X	✓
Initial configuration	Via the Bridge Configuration Tool (Windows application)	Via built-in web interface

The Advanced Cellular Bridge provides store-and-forward capability. In case of a network loss that impacts connectivity with the PowerRadar™cloud platform, the bridge stores measurements until communication is resumed.

The bridge storage capacity is shown in the table below:

# Connected Sensors	# Days Stored
10	10
20	5
100	1
200	0.5

This guide explains how to install and configure the Advanced Cellular Bridge. For information on the Basic Bridge, see the Installation and Configuration Guide for Panoramic Power® Basic Cellular Bridge, version 4.21.

## Unpacking the Hardware

We recommend that you follow these unpacking instructions.

### How to proceed

1. Check the box. If any damage occurred during shipment, contact your sales representative.
2. Open the box. It must include the following items:
  - Bridge
  - Cellular antenna
  - RF antenna, labeled Rx-1 (Europe) or Rx-2 (USA)
  - 5V DC wall adapter
  - 4-Piece reclosable fastener with adhesive
3. Keep the box in case you need to repack the bridge.

### Attaching the Antennas

Before performing any connections, mount the antennas onto the bridge as follows:

1. (European model) Screw the RF antenna labeled **Rx-1** to the connector marked **Rx-1**, as shown below. (US model) Screw the RF antenna labeled **Rx-2** to the connector marked **Rx-2**.



4. Screw the cellular antenna to its connector.
5. Position the antennas as shown below.



### Mounting the Bridge

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Revision 1. 2 November 2017

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Page 6 of 22

You can install the bridge on a flat horizontal surface or mount it on a wall using screws or the reclosable fastener.

### How to proceed

1. Configure the bridge as explained in this guide.
2. Position the bridge at a distance of:
  - Up to 2 meters from the electrical panel, if the panel is covered with a metallic cover.
  - Up to 5 meters, if the panel is not covered.
3. Choose a clean and even surface, located near a power source.
4. Make sure the bridge side vents are not blocked.
5. (Attaching with screws). Use the template on the back of the bridge to measure the distance between the two screws.
6. (Taping to the wall) Peel the adhesive backing off two pieces of the reclosable fastener and attach them to the back of the bridge.
  - In the same way, attach the two remaining pieces of the reclosable fastener to the wall, making sure they are aligned with the pieces on the bridge.

### Connecting the Bridge

Depending on the required network configuration, you can connect the bridge to the Internet using Wi-Fi, cellular network, or wired LAN.



### Prerequisites

- An Ethernet cable for configuring the bridge.
- An Ethernet cable if you connect to the Internet via wired LAN

- A SIM card from your service provider, if you connect to the Internet via a standard GSM network.
- A cellular stick from your service provider if, for example, you connect to the Internet using a CDMA network.

### IMPORTANT

Only use a cellular stick approved by Panoramic Power.

## Configuring the Bridge

This section assumes you are familiar with networking procedures.

### Accessing the Bridge Web Interface

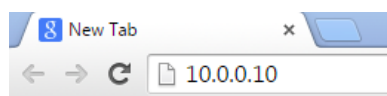
This section describes how to access the bridge web interface for configuring the relevant data communication mode.

#### Prerequisite

Use Internet Explorer 9.0 (and up), Google Chrome, or Firefox to access the bridge web interface.

#### How to proceed

1. On your PC, disable your Wi-Fi and disconnect the LAN cable.
2. Connect the bridge to the power source.
3. Once the bridge powers up, connect the bridge to the PC using the LAN cable. The bridge performs a self-test where all LEDs light in sequence. For information on LED status, see [Understanding the Bridge LEDs](#).
4. Press the **Configuration** button for approximately 5 seconds, until the **Rx** LED lights solid red.
5. Activate your web browser. In the address bar, enter IP address *10.0.0.10*.

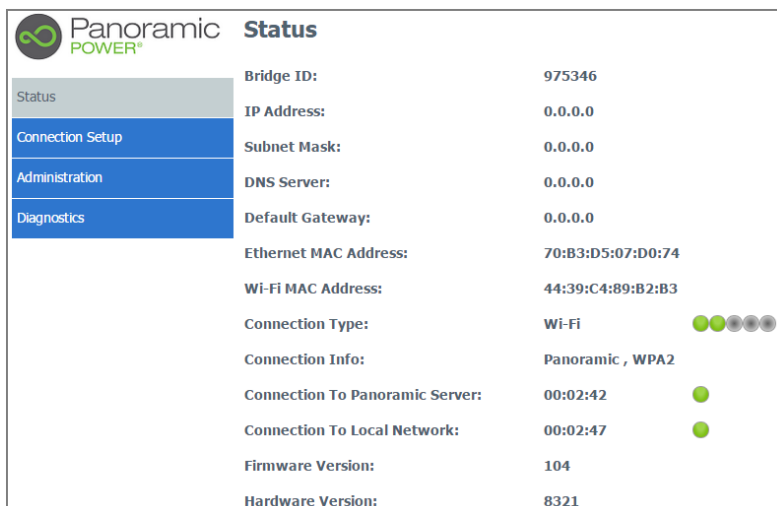


The **Status** page appears. It displays the current configuration.



## Note

In some cases, the first-time loading can take several minutes. If the **Status** page does not appear, wait a few more seconds and refresh the page in the browser.



Panoramic POWER		Status
Status	Bridge ID:	975346
Connection Setup	IP Address:	0.0.0.0
Administration	Subnet Mask:	0.0.0.0
Diagnostics	DNS Server:	0.0.0.0
	Default Gateway:	0.0.0.0
	Ethernet MAC Address:	70:B3:D5:07:D0:74
	Wi-Fi MAC Address:	44:39:C4:89:B2:B3
	Connection Type:	Wi-Fi <span style="color: green;">●●●●●●</span>
	Connection Info:	Panoramic , WPA2
	Connection To Panoramic Server:	00:02:42 <span style="color: green;">●</span>
	Connection To Local Network:	00:02:47 <span style="color: green;">●</span>
	Firmware Version:	104
	Hardware Version:	8321

## Entering Credentials

You need to enter your credentials only once for accessing any of the pages (except **Status**).

### How to proceed

1. Select the required page in the side menu.
2. Enter the **Username** and **Password** in the **Authentication Required** screen.

By default, both are *panpwr*. We recommend changing them once you access the tool. See [Modifying the Default Credentials for the Bridge Web Interface](#).

3. Select **Login**.

## Configuring the Bridge for Wi-Fi Connection

If the bridge communicates with the server over Wi-Fi, you need to configure which Wi-Fi network and settings to use.

### Prerequisites

Ask your network administrator for the following information:

- SSID and Password to access the network
- Username, certificate text, and RSA private key for networks requiring certificates.
- For Wi-Fi and Ethernet connections, verify that the system administrator has opened port 8051 for inbound/outbound TCP/IP traffic.

### How to proceed

1. In **Connection Type** select **Connect via Wi-Fi**.
2. To let the system find the **SSID** (network name) and **Security** (encryption method used), click **Find networks**.

Otherwise, enter these values manually.

The screenshot shows a configuration form with the following fields:
 

- Connection type**: A dropdown menu set to "Connect via Wi-Fi".
- SSID\***: An empty text input field.
- Security\***: A dropdown menu.
- Password\***: An empty text input field.
- A blue **Find networks** button is positioned to the right of the SSID field.

The display shows a list of networks in your vicinity.

The screenshot shows a list of detected networks:
 

- CONNECT-1 WI FI,AP,24:0A:64:4C:47:3F,WPA|WPA2,6,76
- linksys,AP,00:1D:7E:55:9E:44,WPA2,6,84
- QA\_TEST,AP,D8:5D:4C:FA:85:F6,WPA,8,78
- Panpwr\_TP-LINK,AP,B0:48:7A:F8:E6:64,WPA\_ENT,9,61

 A blue **Apply** button is located at the bottom right of the list.

3. Select the network you want to use and click **Apply**.

The screenshot shows the configuration form after selecting a network:
 

- Connection type**: "Connect via Wi-Fi".
- SSID\***: "Panpwr\_TP\_LINK".
- Security\***: "WPA2".
- Password\***: An empty text input field, highlighted with a red border.
- A blue **Find networks** button is present.
- A green notice below the Security dropdown reads: "Notice: WPA available".

If the network supports a mixed encryption mode, the **WPA available** notice appears on the screen.

4. For Open, WEP, and WPA security, enter the password in the field shown in Step 3.
5. For enterprise WPA and enterprise WPA2 security, enter your password in the field shown below. (This is for use with RADIUS server authentication.)

Connection type	Connect via Wi-Fi ▼		
SSID*	Panoramic	Find networks	
Security*	WPA2 Enterprise ▼	Password	<input type="text"/>
<input checked="" type="checkbox"/> Use SSL3/TLS1 Certificate			
Username	<input type="text"/>	Password	<input type="text"/>
Certificate	<input type="text"/>	RSA Private Key	<input type="text"/>

- For a network using certificates, select **Use SSL3/TLS1 Certificate**, and enter the **Username, Certificate, and RSA Private Key**.
- In **IP Settings**, select whether you want the bridge to get an IP address automatically (DHCP) or to assign an IP address yourself.

IP settings	DHCP (Automatic IP Configuration) ▼		
IP address*	<input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>	DNS server 1*	<input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>
Subnet Mask*	<input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>	DNS server 2	<input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>
Gateway*	<input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>		

If you select to enter the IP address manually, a number of fields become active (**IP Address, Subnet Mask**, etc.). Fill them in according to your required network settings.

- To save the configuration to the bridge, click **Save Settings**.

### IMPORTANT

If you leave this page before saving your settings, they are lost.

Modem init string*	<input type="text"/>	Dialup number*	<input type="text"/>	Save settings
Load configuration from Bridge				
Load configuration from file				
Save configuration to file				
Load configuration from Bridge ▼		Apply		

- To discard changes made to an unsaved configuration and return to the saved settings, select **Load Configuration from Bridge**.
- To use settings displayed on the screen to configure another bridge, select **Save Configuration to File**.

This allows you to create different settings only on the screen and save them to a file, without updating the bridge configuration.

For more information, see [Loading the Bridge Configuration from a Configuration File](#).

11. To exit configuration mode, disconnect the bridge from the power source.
12. Install the bridge as explained in [Mounting the Bridge](#).
13. Reconnect the bridge to the power source.

### Configuring the Bridge for Cellular Connection

Use a SIM card if you connect to the Internet via a standard GSM network.

Use a cellular stick if, for example, you connect to the Internet using a CDMA network.

#### IMPORTANT

Only use a cellular stick approved by Panoramic Power.

### Prerequisites

For some SIM cards, the system fills details automatically in the **Connection Setup** page. For others, you need to get the information from the SIM card supplier or the service provider.

### How to proceed

1. In **Connection Type** select **Connect via Cellular**.
2. Depending on the connection hardware (SIM card or cellular stick) you are using, select **Internal GSM Modem** or **External GSM Modem**. The parameters change according to the option selected.

Internal GSM Modem  External GSM Modem

APN:

MNC:  MCC:

PPP authentication type:  PAP  CHAP  None

PPP Username:  PPP Password:

Modem init string\*:  Dialup number\*:

3. (**Internal GSM Modem**) Use the **View cellular networks** button to verify reception of the relevant cellular network (could take up to 30 seconds). Then enter the **APN** you received from the cellular network operator. If required, enter PPP details.

4. **(External GSM Modem)** Enter the **Modem init string** and **Dialup number**. It takes approximately two minutes to connect to the cellular network.
5. To save the configuration to the bridge, click **Save Settings**.

### IMPORTANT

If you leave this page before saving your settings, they are lost.



The screenshot shows a configuration interface with two input fields: "Modem init string\*" and "Dialup number\*". To the right of these fields is a blue "Save settings" button. Below the fields is a dropdown menu with the following options: "Load configuration from Bridge" (highlighted), "Load configuration from file", "Save configuration to file", and "Load configuration from Bridge". To the right of the dropdown menu is a blue "Apply" button.

6. To discard changes made to an unsaved configuration and return to the saved settings, select **Load Configuration from Bridge**.
7. To use settings displayed on the screen to configure another bridge, select **Save Configuration to File**.

This allows you to create different settings only on the screen and save them to a file, without updating the bridge configuration.

For more information, see [Loading the Bridge Configuration from a Configuration File](#).

8. To exit configuration mode, disconnect the bridge from the power source.
9. Install the bridge as explained in [Mounting the Bridge](#).
10. When using the Internal GSM Modem, insert the SIM card to the slot with the truncated end as shown below.



11. Reconnect the bridge to the power source.

## Configuring the Bridge for Wired LAN

If you use a wired connection to access the Internet, there are two methods to allocate an IP address: automatically (DHCP) or manually (Static IP).

### Prerequisites

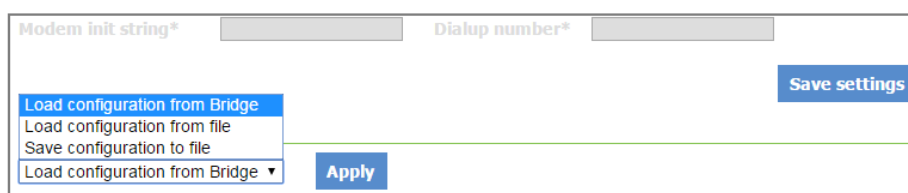
If you need a static IP address for the bridge, make sure to have the network setting information ready before starting the procedure.

### How to proceed

1. In **Connection Type** select **Connect via LAN**.
2. In **IP Settings**, select whether you want the bridge to get an IP address automatically (DHCP) or to assign an IP address manually (Static IP).
3. If you select to enter the IP address manually, a number of fields become active (**IP Address, Subnet Mask**, etc.). Fill them in according to your required network settings.
4. To save the configuration to the bridge, click **Save Settings**.

### IMPORTANT

If you leave this page before saving your settings, they are lost.



The screenshot shows a configuration window with two input fields at the top: 'Modem init string\*' and 'Dialup number\*'. Below these is a dropdown menu with the following options: 'Load configuration from Bridge' (highlighted), 'Load configuration from file', 'Save configuration to file', and 'Load configuration from Bridge' with a downward arrow. To the right of the dropdown is a blue 'Apply' button. Further to the right is a blue 'Save settings' button.

5. To discard changes made to an unsaved configuration and return to the saved settings, select **Load Configuration from Bridge**.
6. To use settings displayed on the screen to configure another bridge, select **Save Configuration to File**.

This allows you to create different settings only on the screen and save them to a file, without updating the bridge configuration.

For more information, see [Loading the Bridge Configuration from a Configuration File](#).

7. To exit configuration mode, disconnect the bridge from the power source.
8. Install the bridge as explained in [Mounting the Bridge](#).
9. Reconnect the bridge to the power source.

## Loading the Bridge Configuration from a Configuration File

You can use the configuration file for configuring other bridges that have similar configuration requirements. For example, if bridges in a chain of stores share the same Internet connection type and access points, you can prepare one configuration file and have it used for configuring other bridges in these locations.

You can also load the configuration file onto the same bridge if its configuration gets corrupted.

### Note

If the bridge is configured to connect via secured Wi-Fi, the configuration file does not include passwords for security reasons. You must enter passwords manually for each bridge.

### How to proceed

1. Access the bridge web interface.
2. Access the **Connection Setup** page.
3. Select **Load Configuration from File**.
4. Select the relevant file and click **Apply**.
5. (Optional) Enter password manually (for example, Wi-Fi password, SSL Password, RSA Private Key).

## Modifying the Bridge Administration Settings

You can modify the bridge default settings or reset all settings, including connections, to factory defaults.

### Modifying the Default URL and/or Port of the Panoramic Power Server

#### IMPORTANT

Do not change the pre-configured address of the Panoramic Power server (*col.panpwrws.com*) and/or port number (*8051*) without explicit instructions from Panoramic Power customer support, as the bridge uses these settings to transmit sensor data to the Panoramic Power cloud.

To access these fields, select **Administration** in the bridge web interface.



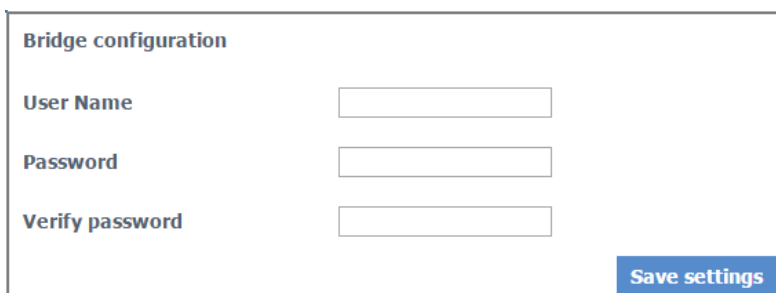
The screenshot shows the 'Administration' settings page. It contains two rows of input fields. The first row has 'Main Panoramic server host' with the value 'col.panpwrws.com' and 'Port' with the value '8051'. The second row has 'Second Panoramic server host' and 'Port' fields, both of which are currently empty. Below these fields is a checkbox labeled 'Enable remote firmware update' which is unchecked. A blue 'Save settings' button is located at the bottom right of the form.

## Modifying the Default Credentials for the Bridge Web Interface

You can change the default user name and password required to access the bridge configuration and **Diagnostics** pages.

### How to proceed

1. Access the bridge web interface.
2. Select **Administration**.



The screenshot shows a web interface titled "Bridge configuration". It contains three input fields: "User Name", "Password", and "Verify password". A blue button labeled "Save settings" is located at the bottom right of the form.

3. Enter the new **Username** and **Password**.
4. In **Verify Password** enter the new password again.
5. Select **Save settings**.

## Resetting the Bridge Configuration to Factory Defaults

### IMPORTANT

Restoring to factory defaults erases all your connection settings!

### How to proceed

1. Access the bridge web interface.
2. Select **Administration**.
3. Click **Reset to factory default** at the bottom of the page.
4. At the prompt, click **OK**.

## Viewing the Configuration Status

Access the **Status** page to view information such as:

- Bridge versions (if asked by the support team)
- Configured interface
- Connection details (allocated IP, etc.)



- Connection status (for example, if the bridge managed to connect to the local network at all)
- Quality of connections.

Panoramic POWER <sup>®</sup>		Status	
Status	Bridge ID:	975346	
Connection Setup	IP Address:	0.0.0.0	
Administration	Subnet Mask:	0.0.0.0	
Diagnostics	DNS Server:	0.0.0.0	
	Default Gateway:	0.0.0.0	
	Ethernet MAC Address:	70:B3:D5:07:D0:74	
	Wi-Fi MAC Address:	44:39:C4:89:B2:B3	
	Connection Type:	Wi-Fi	
	Connection Info:	Panoramic , WPA2	
	Connection To Panoramic Server:	00:02:42	
	Connection To Local Network:	00:02:47	
	Firmware Version:	104	
	Hardware Version:	8321	

### How to proceed

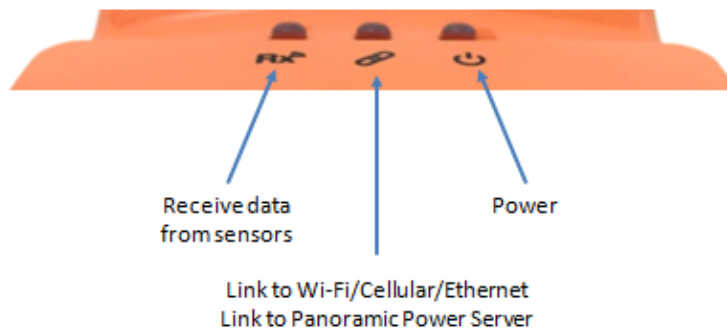
1. (Only if you just saved configuration settings) Disconnect the bridge from the power source and reconnect it.
2. Press the **Configuration** button for approximately 3 seconds, until the **Rx<sup>®</sup>** LED lights solid red.
3. Access the bridge web interface by entering *10.0.0.10* in the browser.
4. Check the status of the configuration.


Green indicators appear in the **Status** page if the bridge connects with the local network and the cloud-based Panoramic Power server.


If the system does not re-establish connection with the Panoramic Power server, access the **Diagnostics** page for further testing.


### Understanding the Bridge LEDs

Use the following information to familiarize with the bridge status during normal operation in Wi-Fi, cellular, or Ethernet.



Power  LED	Bridge status
Solid green	Connected to the power source
Blinking red-green	Firmware upgrade in progress
Solid red	Firmware upgrade has failed

Rx  LED	Bridge status
Blinking orange	Receiving sensor data
Solid red	Configuration mode

Link  LED	Physical Link (Ethernet/Wi-Fi/Cellular)	Panoramic Power Server Connected	Comment
Off	X	X	Can also light solid orange. This indicates the bridge is storing sensor data that will be forwarded to the server, once connected.
Blinking green	✓	X	
Solid green	✓	✓	

## Verifying the Wi-Fi or Cellular Connectivity

You can test the connection to the Panoramic Power server or the Internet as described in this section.

### How to proceed

1. Access the bridge web interface.
2. Select **Diagnostics**.



3. Click **Verify server connection** to make sure the bridge communicates with the Panoramic Power server.

If there is no connection, check the bridge configuration parameters and network settings. The connection to the Panoramic Power server uses port 8051.

#### Note

This method does not work if you configured the bridge to work in LAN, and your PC is connected to the bridge!

4. Click **Ping to google.com** to make sure the Internet connection is working.

If there is no connection, check the bridge configuration parameters and network settings.

#### Note

This method does not work if you configured the bridge to work in LAN, and your PC is connected to the bridge!

5. (For Panoramic Power personnel only) Use technician mode for advanced debugging of the bridge in case of 3G or Wi-Fi connection problems.

Depending on the connection type, select **Cellular Module** or **Wi-Fi Module** for communicating the commands.

## Upgrading the Firmware Version

This section explains how to upgrade the bridge to the latest firmware version.

### Prerequisites

Make sure you have the following items:

- Micro USB adapter cable

- USB flash drive with the upgraded firmware. Or, a FAT-32 formatted USB flash drive if you need to download the firmware from your email account.

### How to proceed


1. (Optional) Download the firmware to the USB flash drive.
2. Connect the adapter cable to the bridge micro USB connector.




3. Connect the USB flash drive to the adapter cable.
4. (Only if the bridge is not yet operational) Boot and wait for the LED self-test sequence to end.

#### Note

If you proceed to Step 5 before the self-test sequence ends, the bridge enters configuration mode rather than upgrade mode.

5. Press the **Configuration** button for 10 seconds approximately.
6. The  LED lights red and green. All other LEDs are off.
7. Wait several minutes for the upgrade process to complete (up to 5 minutes).

After a successful upgrade the bridge reboots. The  LED lights green and the bridge returns to normal operation. A LED self-test sequence occurs, and the bridge returns to normal operation.

8. Disconnect the USB flash drive.
9. Disconnect the micro USB adapter cable.

## Troubleshooting

If you encounter a problem, try the solutions listed in this section. Otherwise, contact Customer Support for help at [support@panpwr.com](mailto:support@panpwr.com).

### Problem

The bridge is not receiving sensor data (Rx<sup>®</sup> LED is off).

### Solutions

- Try moving the bridge closer to the electrical panel.
- Verify the position of the sensors in the electrical panel: make sure they are visible, or try moving them to the front of the panel.
- Make sure the RF antenna is tightly screwed to the antenna connector of the bridge.
- Make sure the bridge is not in configuration mode (Rx<sup>®</sup> LED lights red).

### Problem

The bridge is not connecting to the Panoramic Power server (Tx<sup>®</sup> LED is not solid green).

### Solutions

If you are using Ethernet:

- Look at the LAN port (RJ-45 connector) on the bridge. It contains two small built-in LEDs. One of them should light solid green and the other should be blinking orange. If this is not happening, tighten both ends of the LAN cable or replace it.
- If the Tx<sup>®</sup> LED blinks green but does not turn solid, it means that local network connectivity is established but the bridge can not access the Panoramic Power server. This is often caused by local firewalls blocking TCP port 8051. Please verify this with your system administrator.

If you are using Wi-Fi:

- Verify the wireless network reception strength in the status page. The level should be at least two (out of five), preferably three (out of five).
- If no reception level is showing and “Connecting...” is shown instead, it means that the bridge can not establish Wi-Fi network connectivity. In this case, please verify your Wi-Fi credentials (SSID, Security Type or password).
- If the Tx<sup>®</sup> LED blinks green but does not turn solid, it means that local network connectivity is established but the bridge can not access the Panoramic Power server. This is often caused by local firewalls blocking TCP port 8051. You can verify this using the [Diagnostics](#) tool or with your system administrator.

If you are using Internal Cellular:

- Verify the cellular network reception strength in the status page. The level should be at least three (out of five).
- If no reception level is showing and “Connecting...” is shown instead, it means that the bridge can not establish cellular network connectivity. In this case, please verify your cellular credentials (APN, PPP credentials where needed) and make sure the SIM card has a valid and enabled data plan.
- You can test the cloud connectivity using the [Diagnostics](#) tool.


### Problem

The bridge does not connect to the cellular network when using the SIM card ( LED is off).

### Solutions

- Make sure the SIM card is in place before connecting the bridge to the power source.
- After verifying the SIM card is tightly secured in its slot, disconnect the bridge from the power source and reconnect it.
- Verify with your service provider that a data plan is enabled for your SIM card. The bridge connects to the cellular data network only if the SIM card has a data plan.
- In low reception areas it may take a while for the bridge to connect. Enter configuration mode and check the reception bar in the **Status** page.

### Problem


The bridge does not return to normal operation after firmware upgrade ( LED lights red).

### Solution

Upgrade was unsuccessful, and the bridge rolled back to the previous firmware version.

### How to proceed

1. Disconnect the USB flash drive from the adapter cable.
2. Disconnect the adapter cable from the bridge.
3. Disconnect and reconnect the power cable to the bridge.

The bridge performs a self-test and the  LED lights green. The bridge is ready for normal operation with the rolled back version.

4. Enter configuration mode and check the running firmware version in the **Status** page).
5. Contact Customer Support for further help.