



# Application Note

# Inverter Multi-Communications Configuration

Version 1.0

December 2024

MAN-01-01205-1.0

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## Revision history

Version	Date	Description
1.0	December 2024	Initial version

## Inverter multi-communications configuration overview

This Application Note describes how to configure a SetApp enabled inverter for any combination of LAN, Wi-Fi, and cellular.

If the inverter loses communication with SolarEdge servers, it automatically switches from the highest priority communication option to the next option available. For example, if the Wi-Fi network is unavailable the inverter automatically switches to cellular.

## System requirements

- SetApp enabled inverter
- CPU firmware version 4.22 or higher
- Installed Ethernet cable when using the LAN connection
- Installed Wi-Fi antenna when using the Wi-Fi connection
- Installed cellular modem, active cellular subscription, and cellular antenna when using the cellular connection.

## Device connection priority

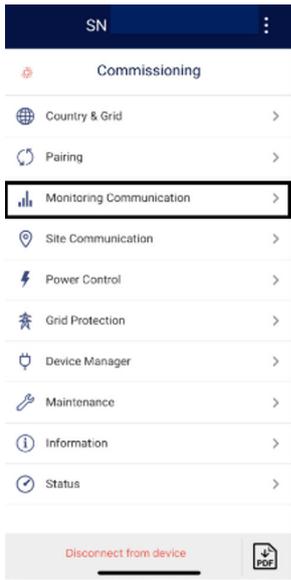
By default, the inverter connects to SolarEdge servers by prioritizing the highest-ranking connection method. If the preferred option is unavailable, the inverter automatically switches to the next best available alternative. The following is a list of connection methods, ranked from highest to lowest priority:

- Ethernet/LAN connection
- Wi-Fi connection
- Cellular connection

When a higher-priority connection becomes available, the inverter switches back to it. For example, if the inverter is connected to cellular and the Wi-Fi network is restored, the inverter reverts back to the Wi-Fi connection.

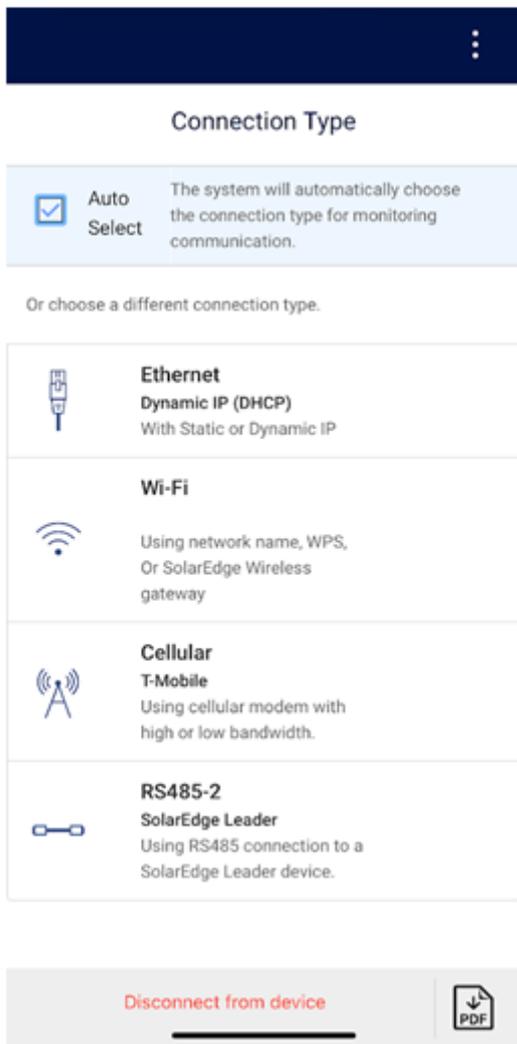
To configure a SetApp enabled inverter for multiple communications:

1. In SetApp, go to the **Commissioning** screen, as displayed below.



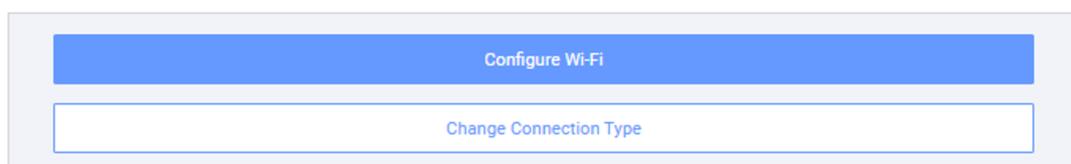
2. Select **Monitoring Communication**.

The **Connection Type** screen is displayed.



3. In **Connection Type**, uncheck **Auto-Select**.
4. If configuring a Wi-Fi connection, tap **Wi-Fi**.

The **Monitoring Communication Wi-Fi** screen is displayed.



5. Tap **Configure Wi-Fi**

The available networks are displayed

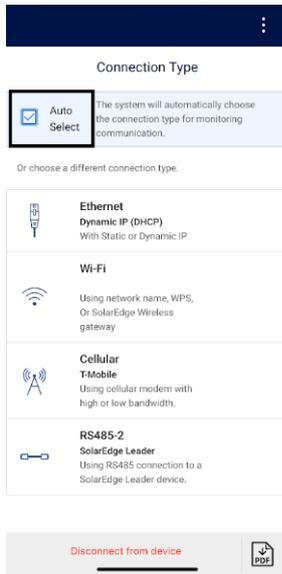
6. Select a network.

7. In the **Password** field, type your password. Click **Join**.

The Monitoring Communication screen is displayed. The Wi-Fi setup is established when the Connected (S OK) status is displayed.

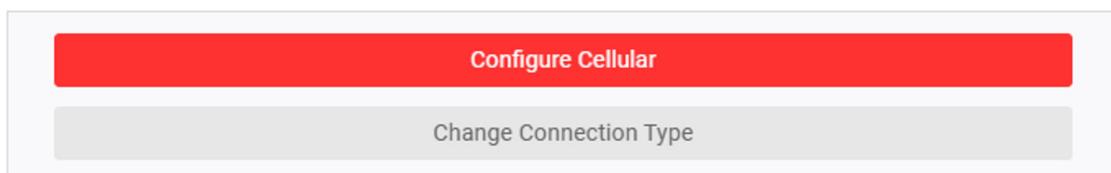
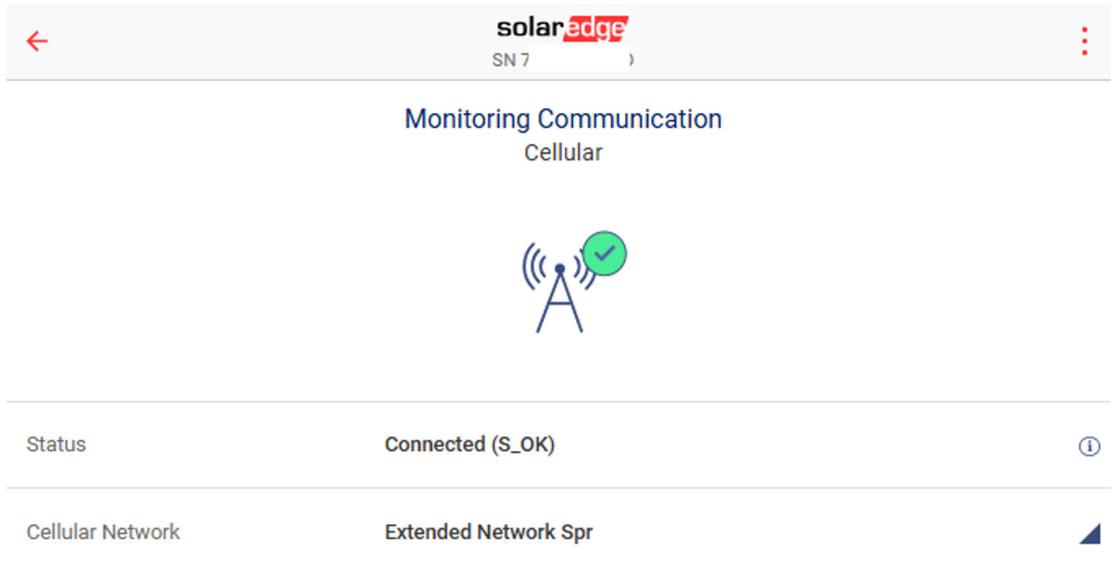
8. To change the type of connection, tap **Change Connection Type**.

**Connection Type** is displayed.



9. To open a Cellular connection, tap **Cellular**.

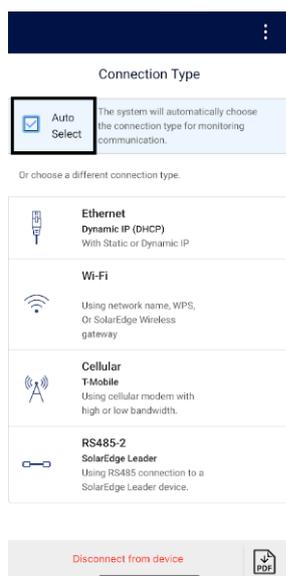
The **Monitoring Communication Cellular** screen is displayed.



The inverter automatically detects and configures the cellular connection. This may take a few minutes. The Cellular connection is established when the **Connected (S\_OK)** status is displayed.

10. To change the type of connection, tap **Change Connection Type**.

**Connection Type** is displayed.



11. To open an Ethernet connection, tap **Ethernet**.

The **Monitoring Communication Ethernet** screen is displayed.

← solar**edge** SN ⋮

### Monitoring Communication

Ethernet (Auto Selected)



Status	Connected (S_OK) ⓘ
Via	Dynamic IP (DHCP)
IP	10.0.0.120

**Configure Ethernet**

Change Connection Type

Most home networks are configured for a DHCP connection. The inverter automatically detects the LAN cable and configures the Ethernet connection. The Ethernet connection is established when the **Connected (S\_OK)** status is displayed.

12. To reselect **Auto Select**, tap **Change Connection Type**.
13. Check **Auto Select**.

**IMPORTANT**

The inverter's internet connection does not automatically switch to the highest-priority connection unless Auto Select is checked.

## FAQ

**Question 1:** Will this work on older inverters?

**Answer:** Yes. As long as they are SetApp enabled inverters and you upgrade to the latest firmware.

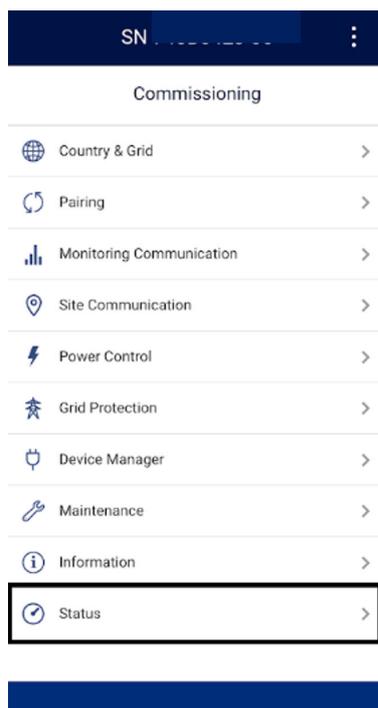
**Question 2:** Do I have to install any additional hardware?

**Answer:** If you have not installed a LAN cable, Wi-Fi antenna, or cellular modem then you will need to install hardware to take advantage of these features. Most customers use a cellular connection so adding a Wi-Fi antenna is optimal.

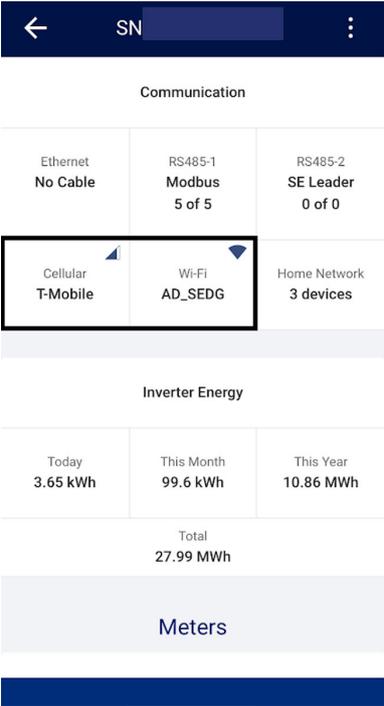
**Question 3:** My financing partner requires proof that I have a cellular modem installed, but I want to install a Wi-Fi antenna to increase the robustness of my internet connection. What are my options?

**Answer:** SolarEdge has contacted several financing partners to inform them of this new feature. Once all the configuration steps are complete, take a screenshot from SolarEdge Go or SetApp showing all the active communication methods. To take a screenshot of active communications do the following:

1. From the Commissioning screen, select **Status**.



The **Communication** screen is displayed.



2. Take a screenshot of the active communications on the Communication screen.