

RAK Setup on Lorient

This guide outlines the steps required to configure a RAK router for use with the Lorient network.

Prerequisites

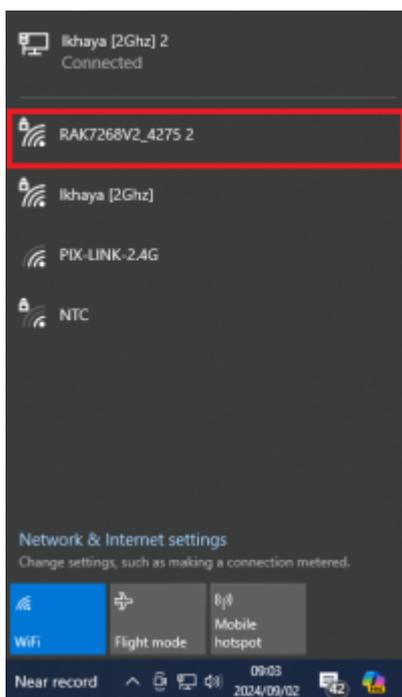
- RAK Router
- LAN cable connected to main router or switch
- A pen
- Dot stickers
- Access to the **location sheet** (or someone with access)
- Access to the **Lorient portal** (or someone with access)

1. Unboxing and Connecting

1. Unbox the router and connect the included **LoRa antenna**.
2. Connect the RAK to **power** and to **LAN** using the cable.
3. Wait for the RAK to power up. The LED indicator should be **solid blue or green**.

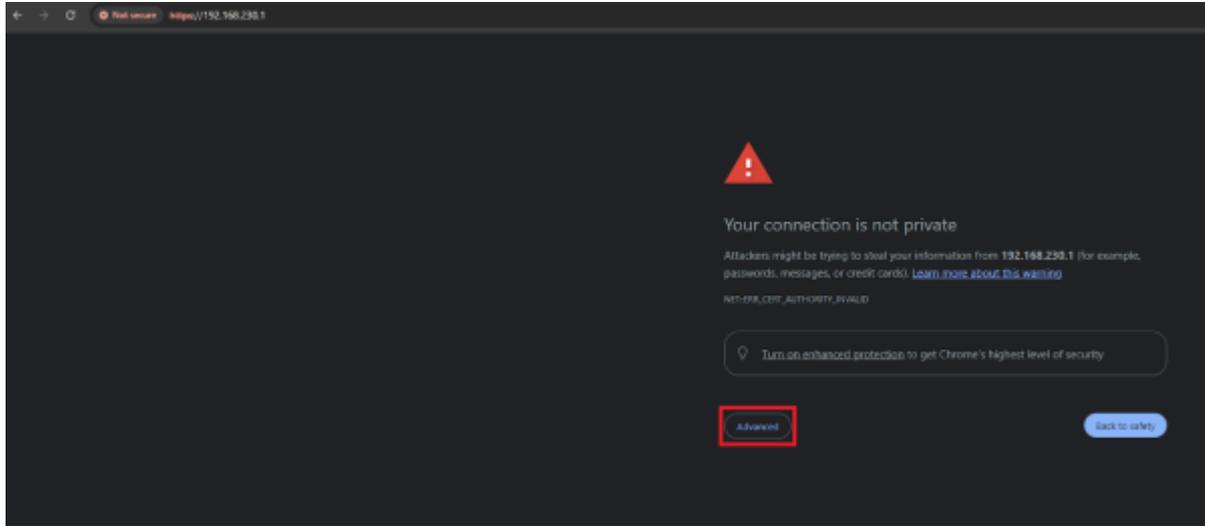
2. Wi-Fi Connection

1. On your PC, go to available networks and find the **RAK router Wi-Fi**.
2. Connect to the router.

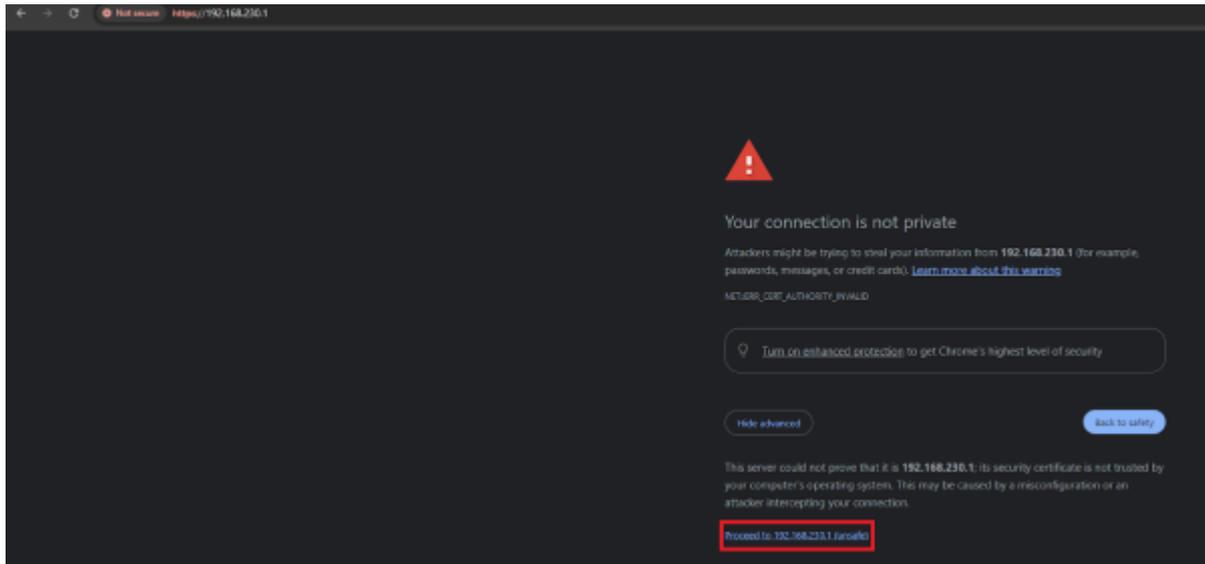


3. Access the RAK Console

1. In a web browser, go to: <https://192.168.230.1/>
2. If prompted with a security warning:
 1. Click **Advanced**



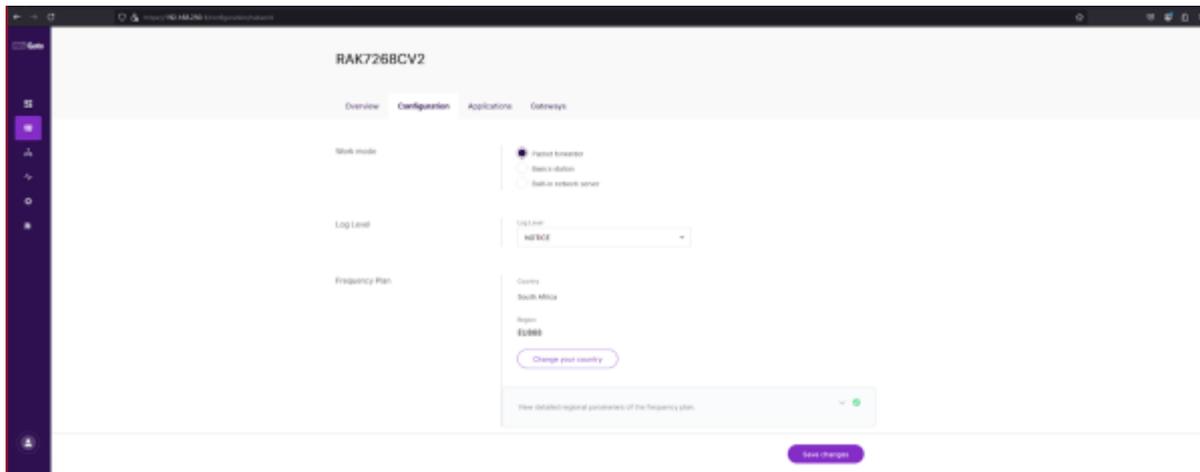
1. Click **Proceed**



1. Enter a password:
 1. Use **LastPass password generator** to generate a strong password.
 2. Enter and **record this password** in the **location sheet**.

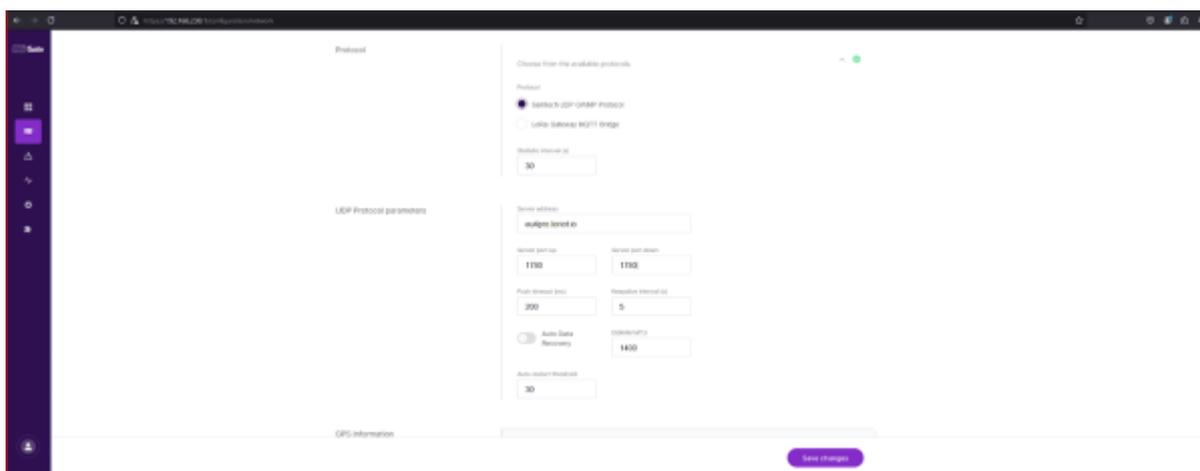
4. Region and Work Mode Configuration

1. Once logged into the RAK console:
 1. Set the **region**: Select **South Africa** and the **default frequency**.
 2. Under the **Configuration** tab → **Work Mode** section:
 1. Select **Packet Forwarder**.



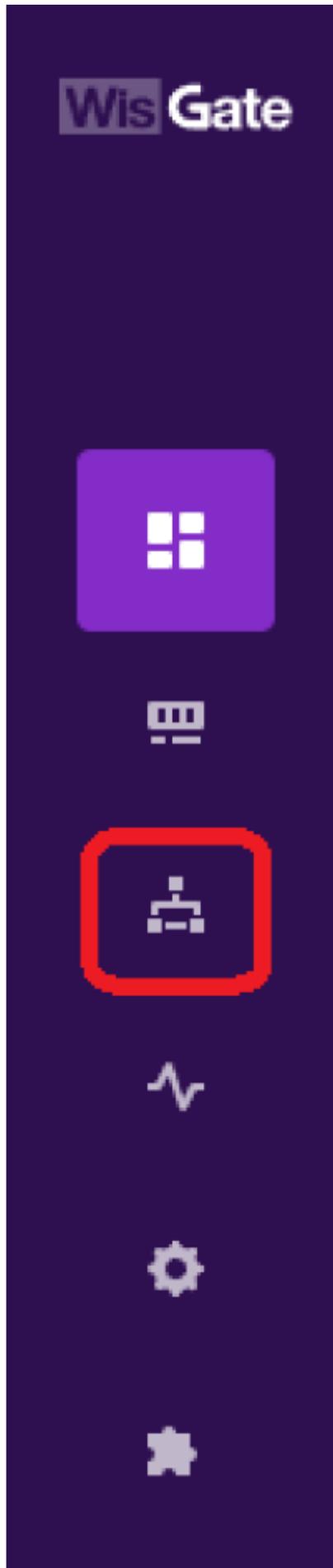
5. Protocol Configuration

1. Under the **Configuration** tab → **Protocol** section:
 1. Set **Server Address** to: `eu4pro.loriot.io`
 2. Set **Server Port Up** to: `1780`
 3. Set **Server Port Down** to: `1780`
2. Click **Save Changes**



6. Gateway Details

1. Navigate to the **Dashboard Overview** tab:



1. Copy the **EUI** and paste it into the **location sheet**

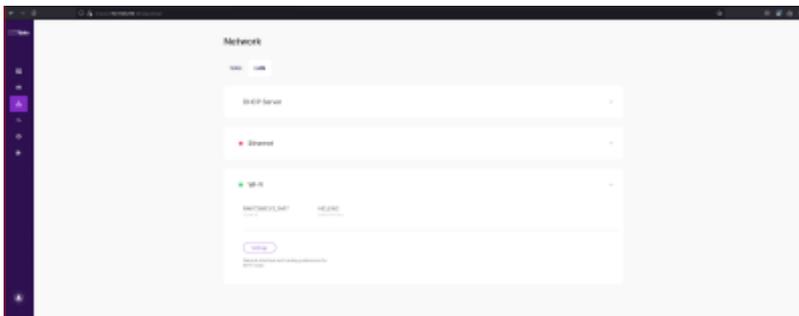
2. Copy the **MAC Address** and paste it into the **location sheet**

7. Register Gateway on Lorient

1. Register the RAK gateway on the **Lorient portal** using the gathered details.
2. Confirm that the gateway is **communicating successfully**.

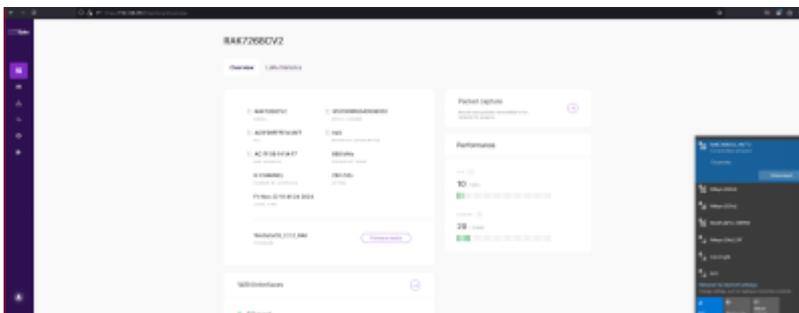
8. Secure Wi-Fi Access

1. Navigate to **Network** on the left-hand navigation bar.
2. Under the **LAN** tab, open the **Wi-Fi** dropdown.
3. Click **Settings** and:
 1. Change **Encryption** to `WPA2-PSK`
 2. Set the **Key** using the same password generated by LastPass
4. Save the changes.



9. Final Verification

1. The router will **restart**.
2. Once restarted, verify that the **network requires the password**.
3. **Take a screenshot** of the Wi-Fi access showing it is locked (for reference).



10. Repack and Record

1. Repackage the router.
2. Place a **sticker on the top of the box**.
3. Write the **setup date** on the sticker to indicate completion.

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Last update: **2025/05/14 10:22**

