Reconfiguring Ground Station Wi-Fi (Groove)

Technical Bulletin

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Introduction

The purpose of this document is to demonstrate how to reconfigure the settings on a Groove Wi-Fi Antenna for use with a ground station computer from Phoenix LiDAR Systems. This reconfiguration is required if you need the module to connect to a different WiFi network, e.g. when you switch between multiple rover systems.

During this procedure, the Wi-Fi module and antenna must be powered and connected locally to the laptop used for acquisition via an ethernet cable. Ensure the navigation box is powered on (CPU light is on) and the 5.8 GHz Wi-Fi antenna is connected to the navigation box. Provide power to the rover with the included AC adapter.

Pre-Procedure

After connecting the WiFi module to the notebook, ensure the notebook's ethernet adapter shows an IP address of 192.168.200.X and a DHCP server of 192.168.200.1. If that's not the case, please configure your ethernet settings as shown in the section titled Wired Ethernet Network Card Setup in the Phoenix LiDAR Systems User Manual.

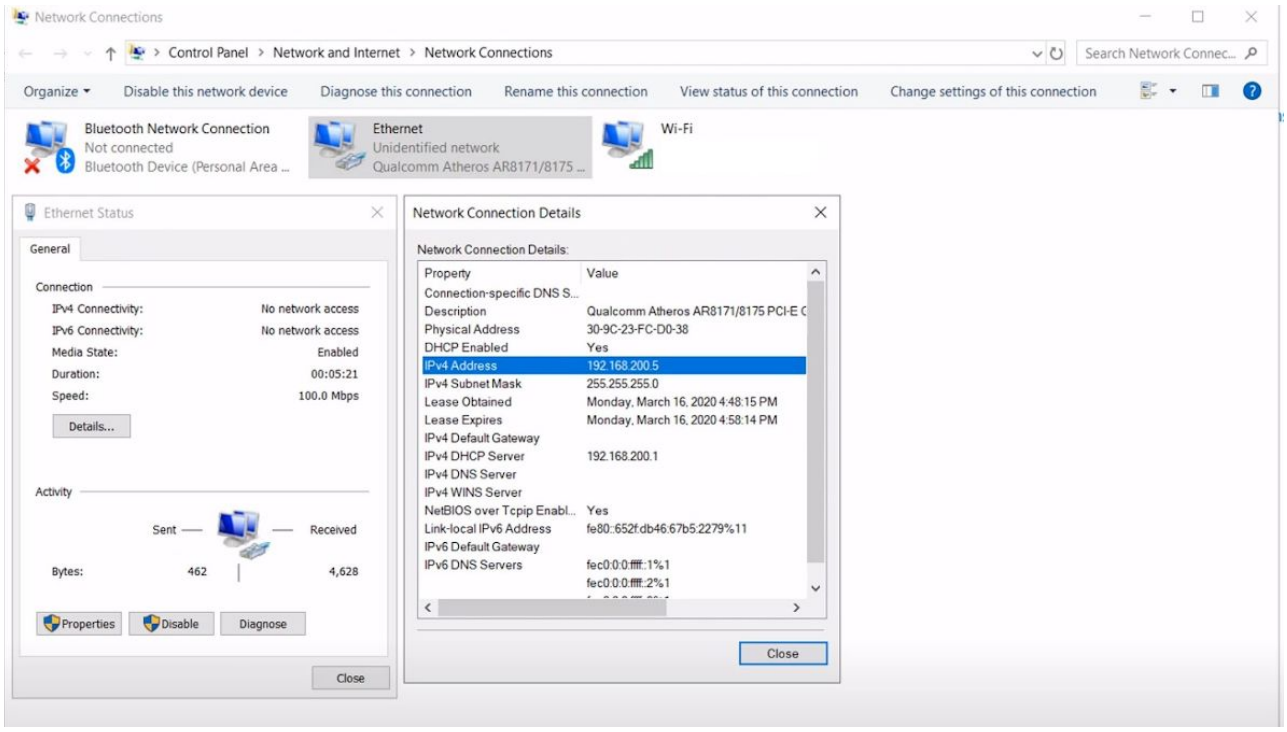

Figure 1: Verify Network settings

Procedure

1. Launch a web browser from the computer connected to the Groove Wi-Fi antenna. To access the Groove Web UI, enter the address: **192.168.200.1**. If a privacy error warning appears, select the option to proceed to the address.

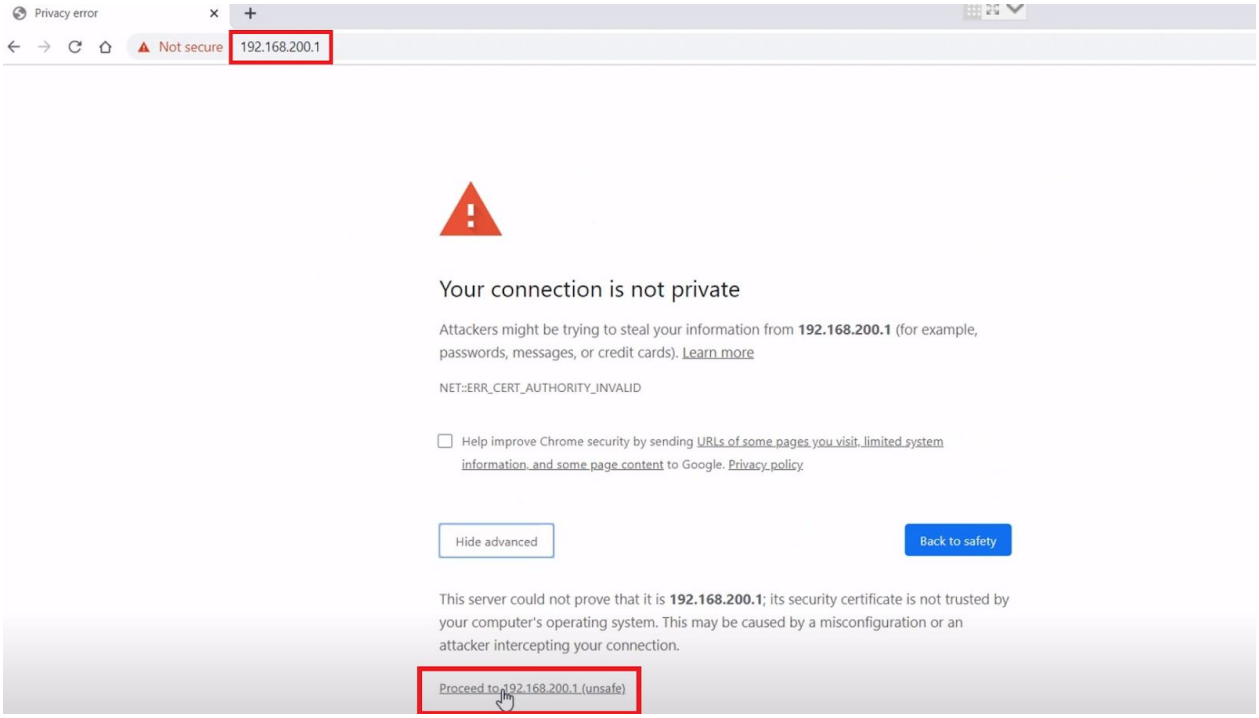

Figure 2: Enter address into browser

2. Login with **username**: phoenix and **password**: aeriallidar

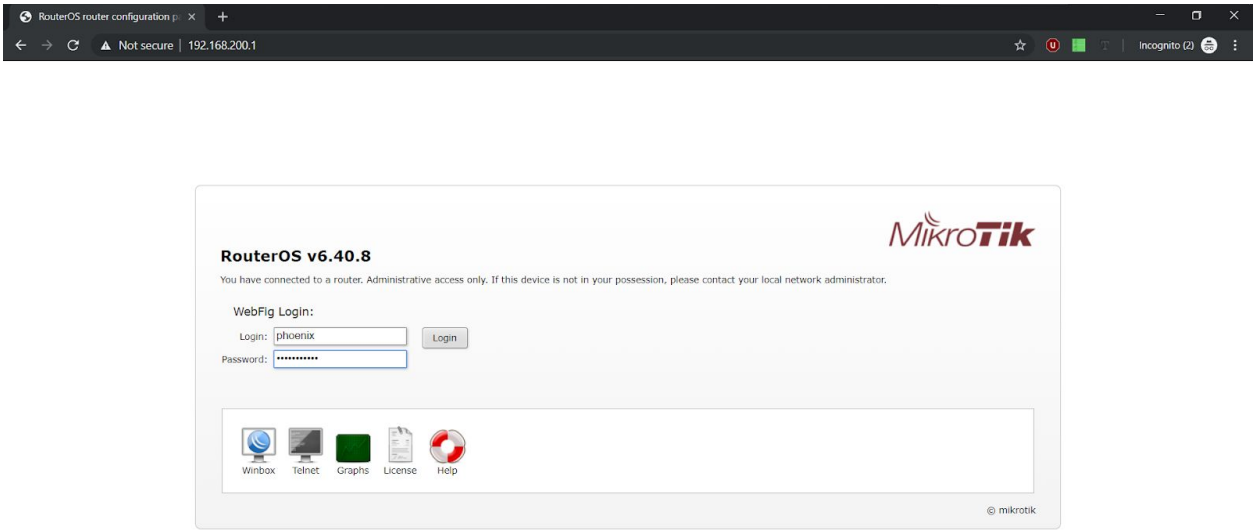

Figure 3: Login to the Groove Web UI

3. Select the **WebFig tab** of the web interface.

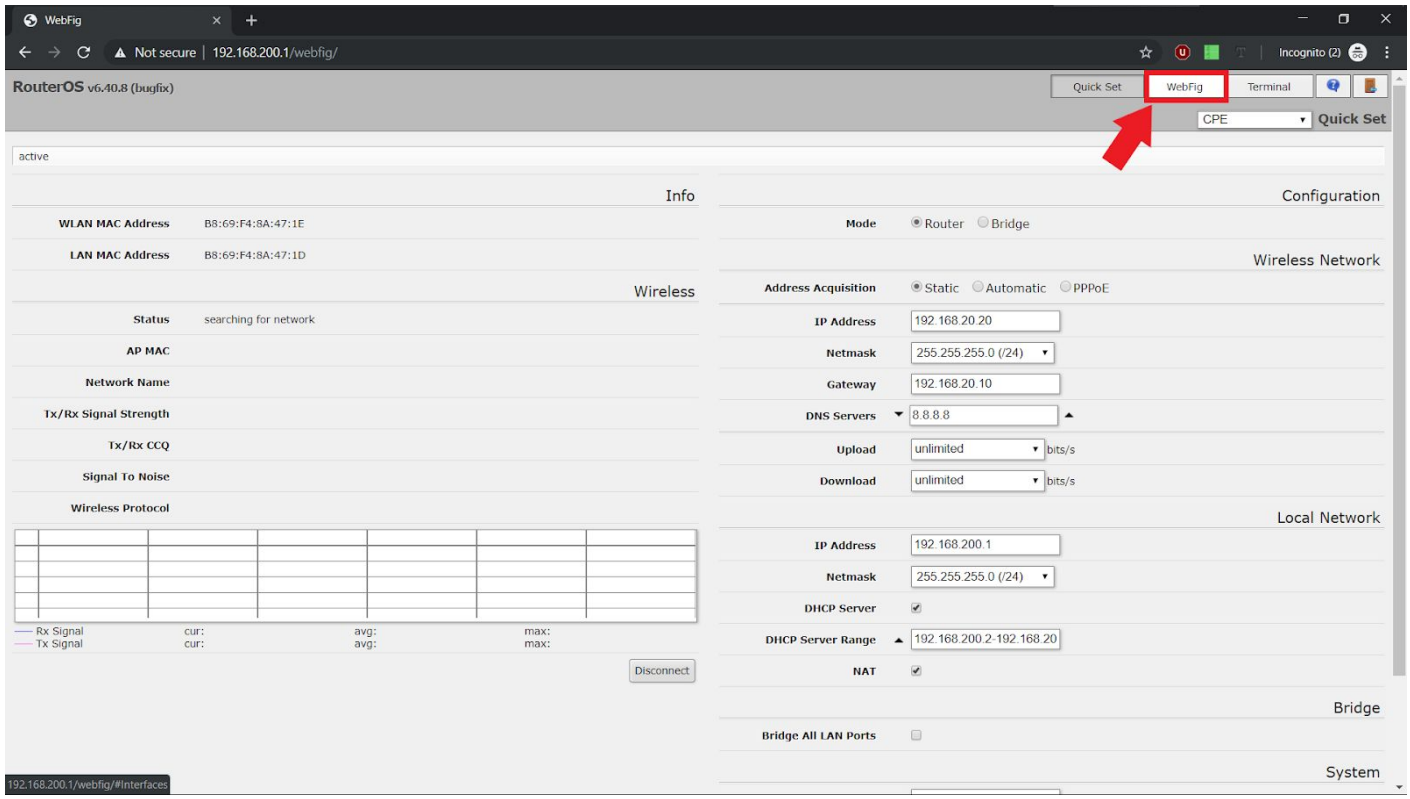

Figure 3: Main Landing Page (Quick Set)

4. In the **WebFig** page, select the **Interface** tab and click on "**wlan1**"

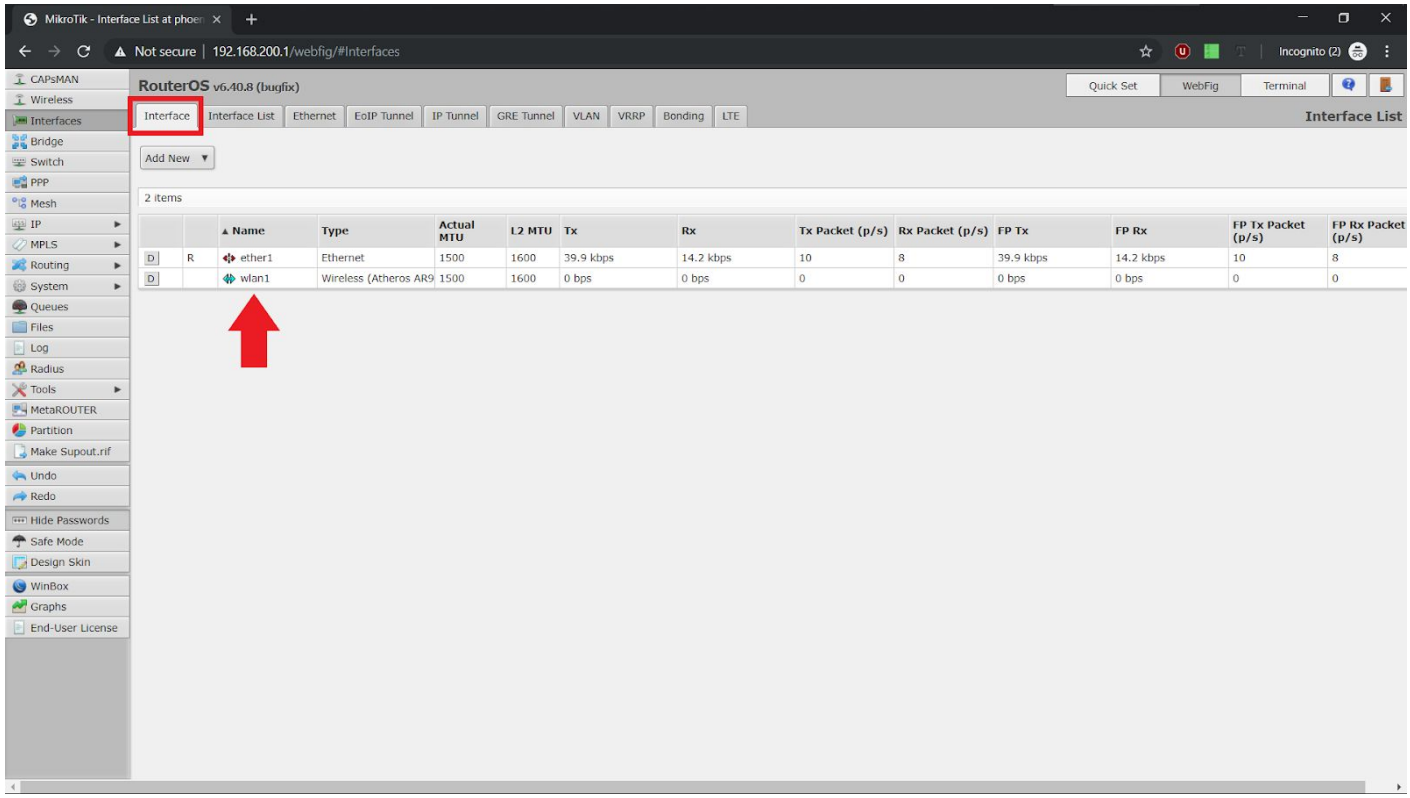

Figure 4: Select the wlan1 interface

5. Enter the new **SSID** in the text field. The correct SSID will be **phoenix___** ending in the last 3 digits of your system's serial number.

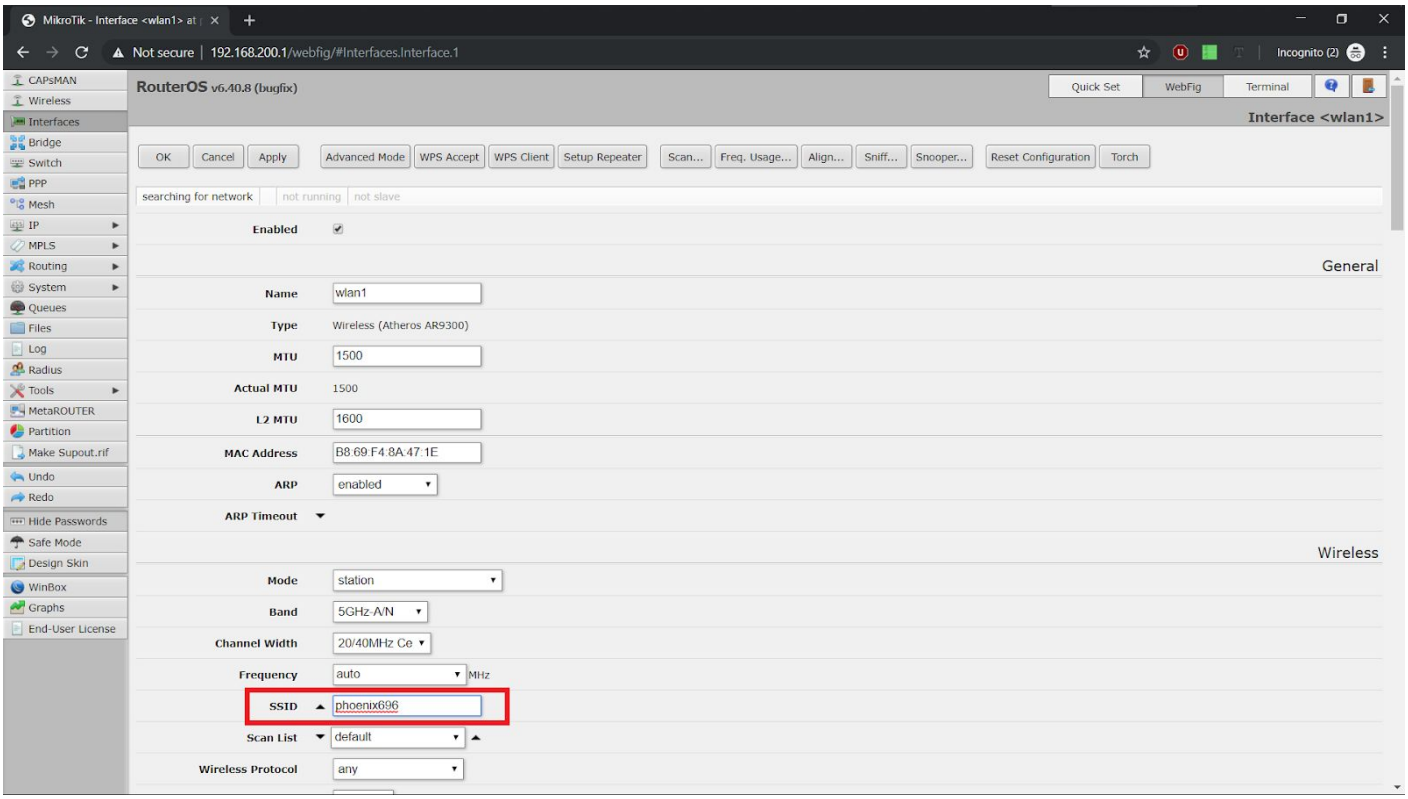

Figure 5: Enter new SSID

6. Select the **Apply** button after making any changes.

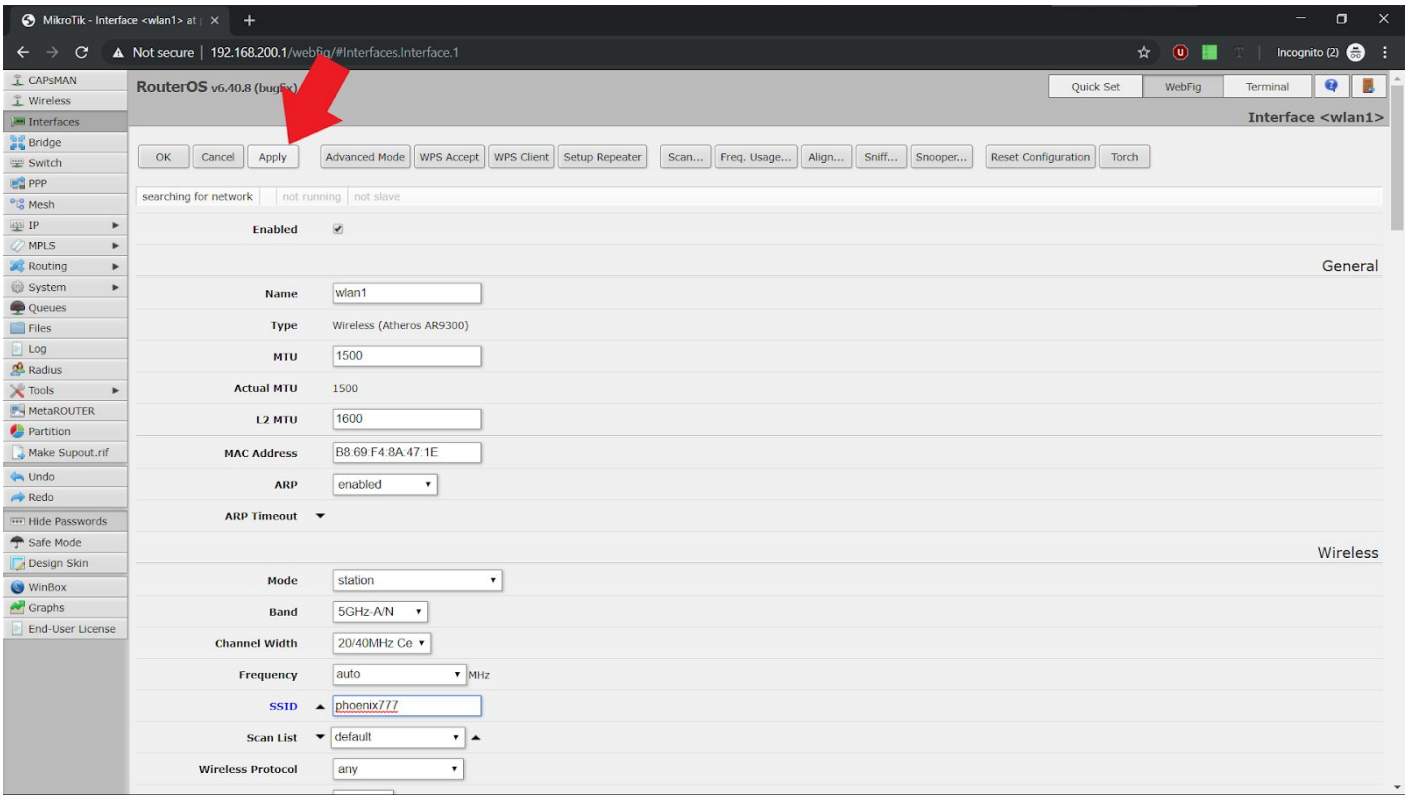

Figure 6: Click the Apply button

7. Navigate back to the **Quick Set** page to verify a connection to the nav box.

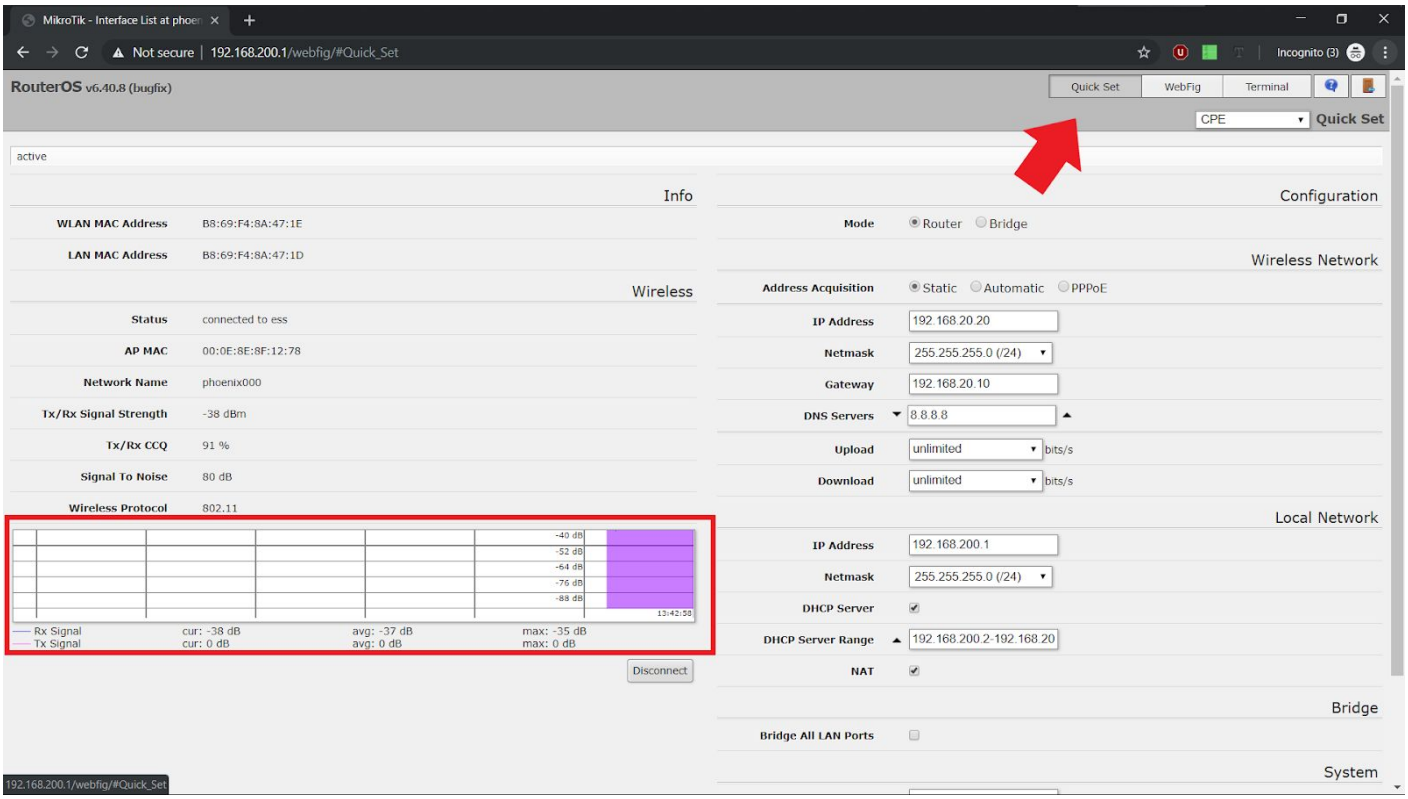

Figure 7: Check for connection

8. To verify setup further, a SpatialExplorer connection to the nav box with the IP address **192.168.20.10** or the hostname **rover-wifi** can be used to test the Groove. A successful connection to the rover via Wi-Fi connection concludes the test and reconfiguration.

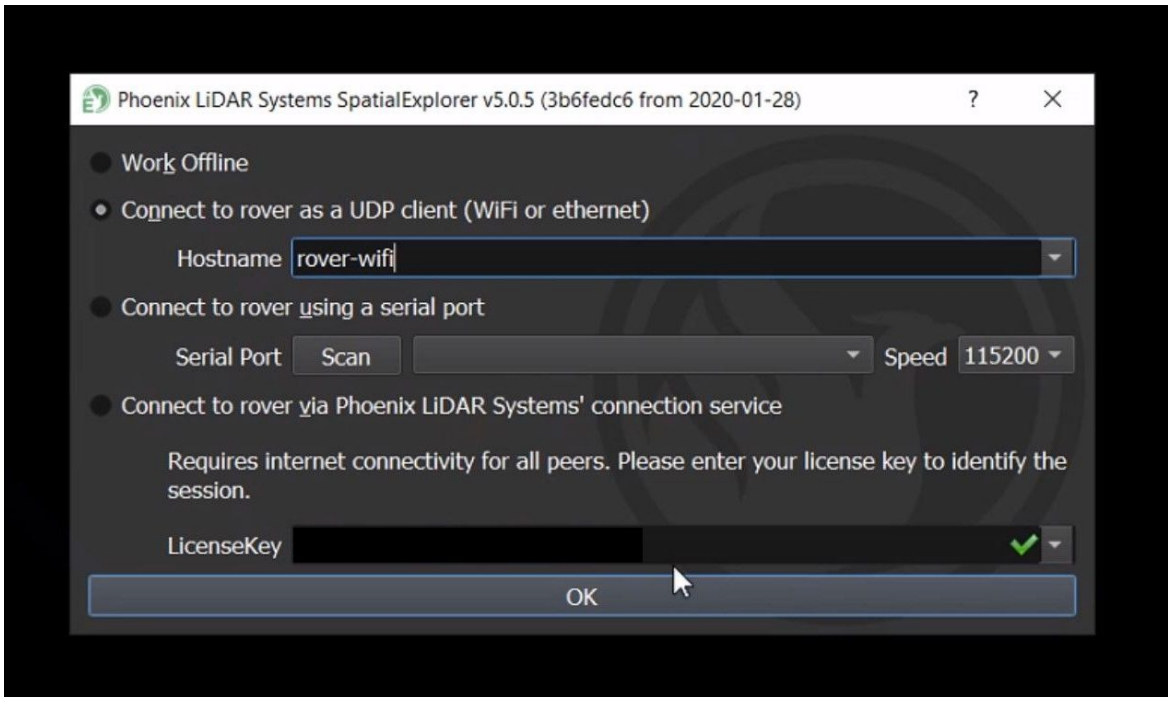

Figure 8: Connect to rover via wifi to test

This content is subject to change.

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