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Outdoor Micro Gateway
User Guide
OPDK

Revision History

Revision	Date	Description
.001	Mar. 16, 2021	Browan first release

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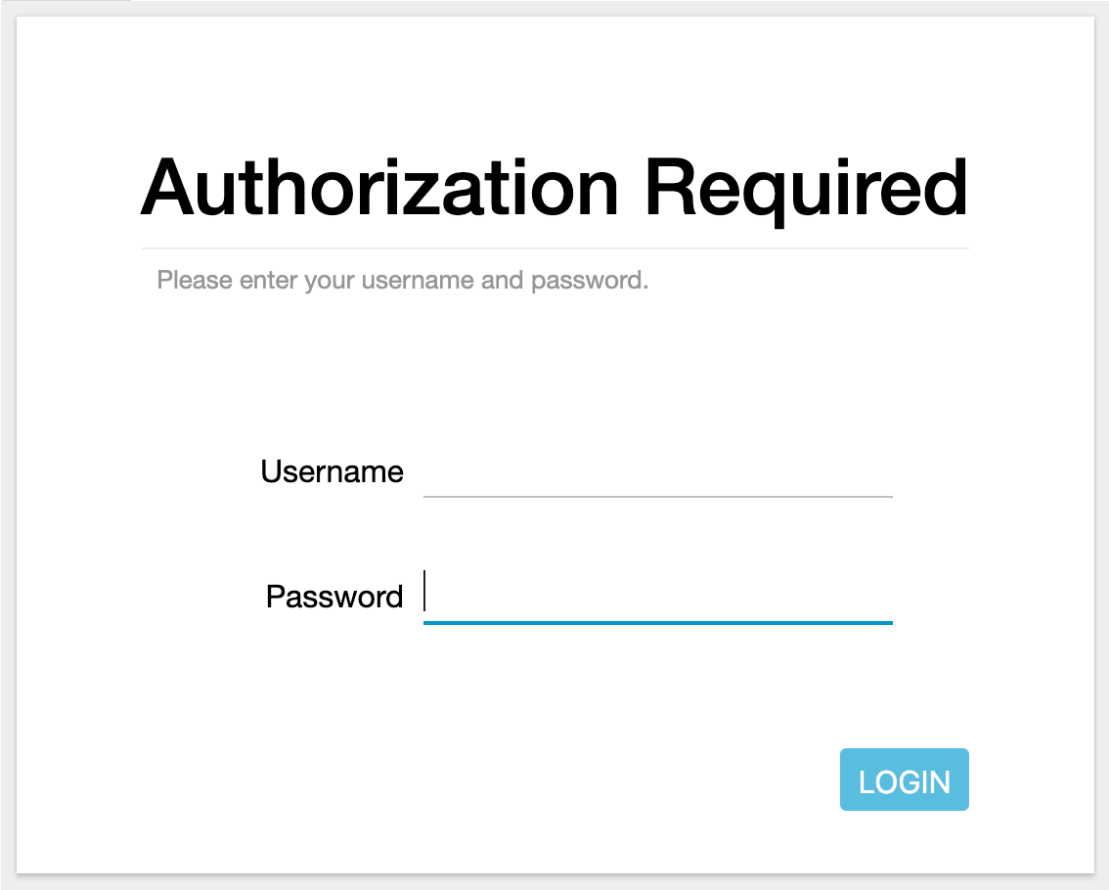
1 GUI Access

1.1 Open Admin GUI

Access ODU-LBT WebUI via WAN IP address assigned by DHCP.
The default username is “*admin*” and the password is "*admin*”(or you can check the back label to see the access password).

Figure 1.1 Login



The ODU-LBT OPDK firmware version will be displayed on the upper-left corner after login.

1 Packet Forward

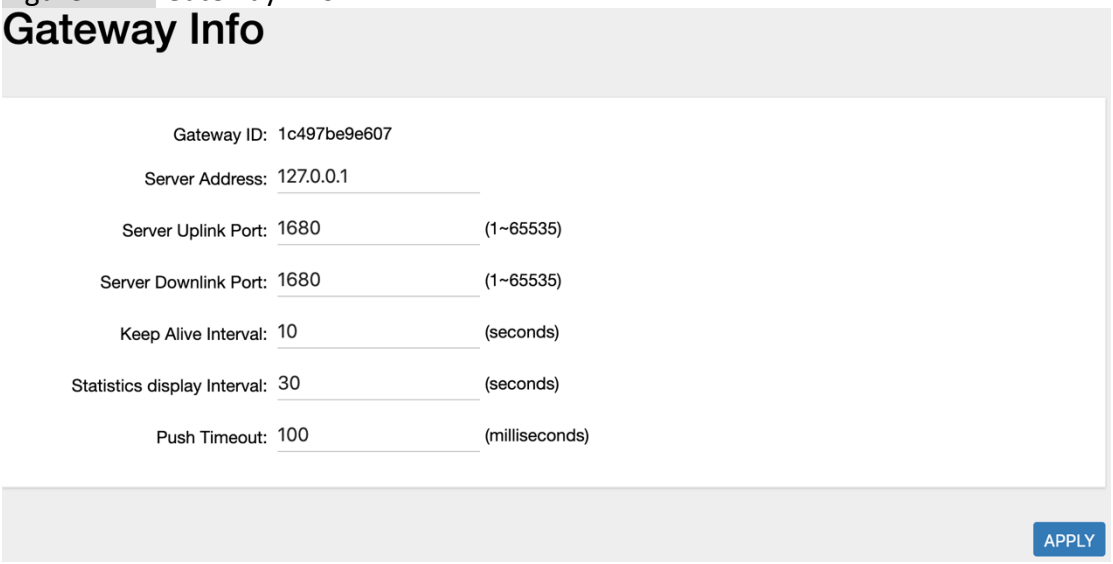
The purpose of this category is to view current Packet Forward settings.
ODU LBT supports 2 LoRa modules in which the configuration methods are the same. Here we only take module 1 as an example.

1.1 Module 1 Settings

1.1.1 Gateway Info

This page is to set up LoRa configuration, which includes: Gateway ID, Server Address, Server Uplink Port, Server Downlink Port, Keep-Alive Interval, Statistics display Interval, and Push Timeout.

Figure 1.1.1 Gateway Info



1.1.2 Gain

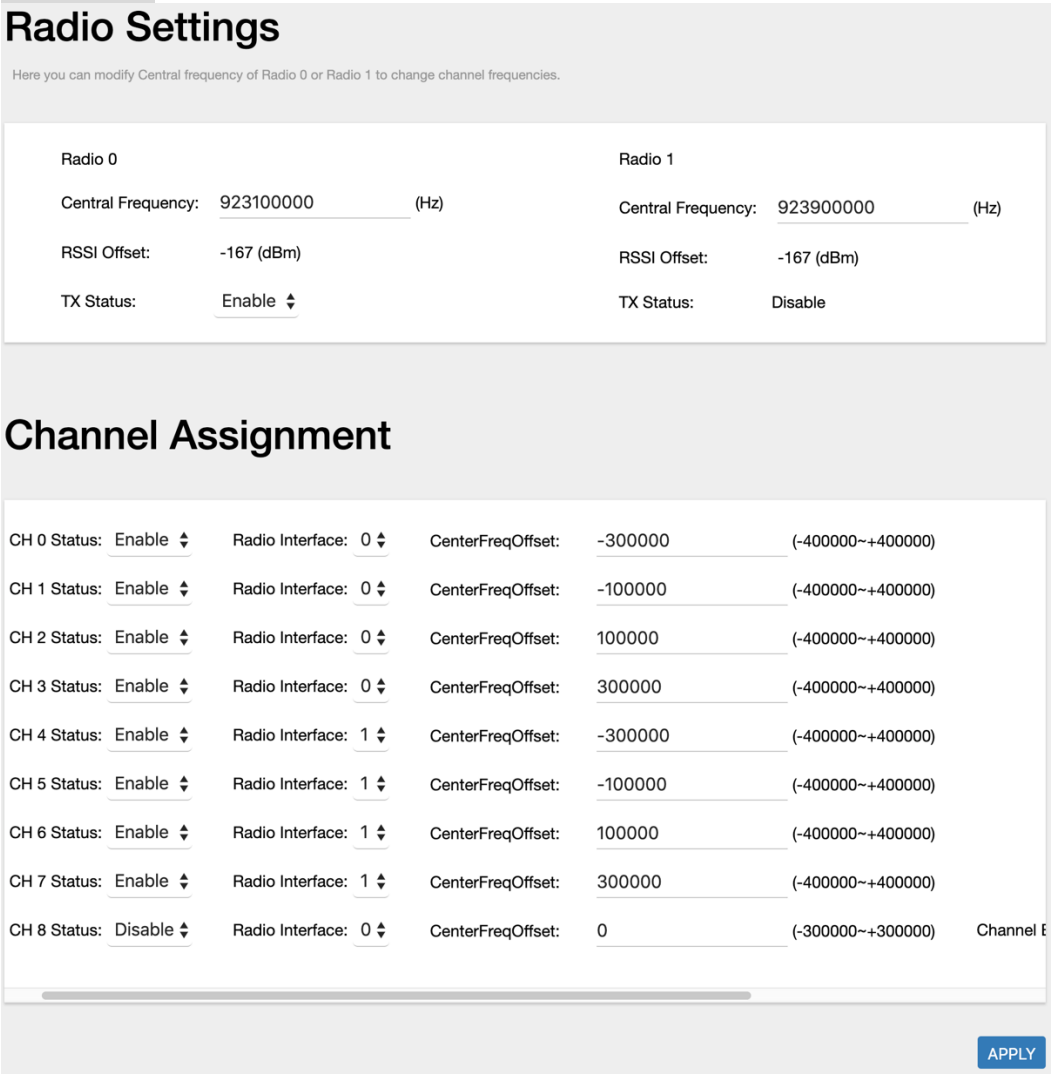
This page is to set up the antenna gain value.

Figure 1.1.2 Gain

1.1.3 Radio and Channel Settings

This page is to set up the Radio 0/1 configuration of LoRa, which includes: Central Frequency, RSSI Offset, TX Status, Channel Status, and Channel offset.

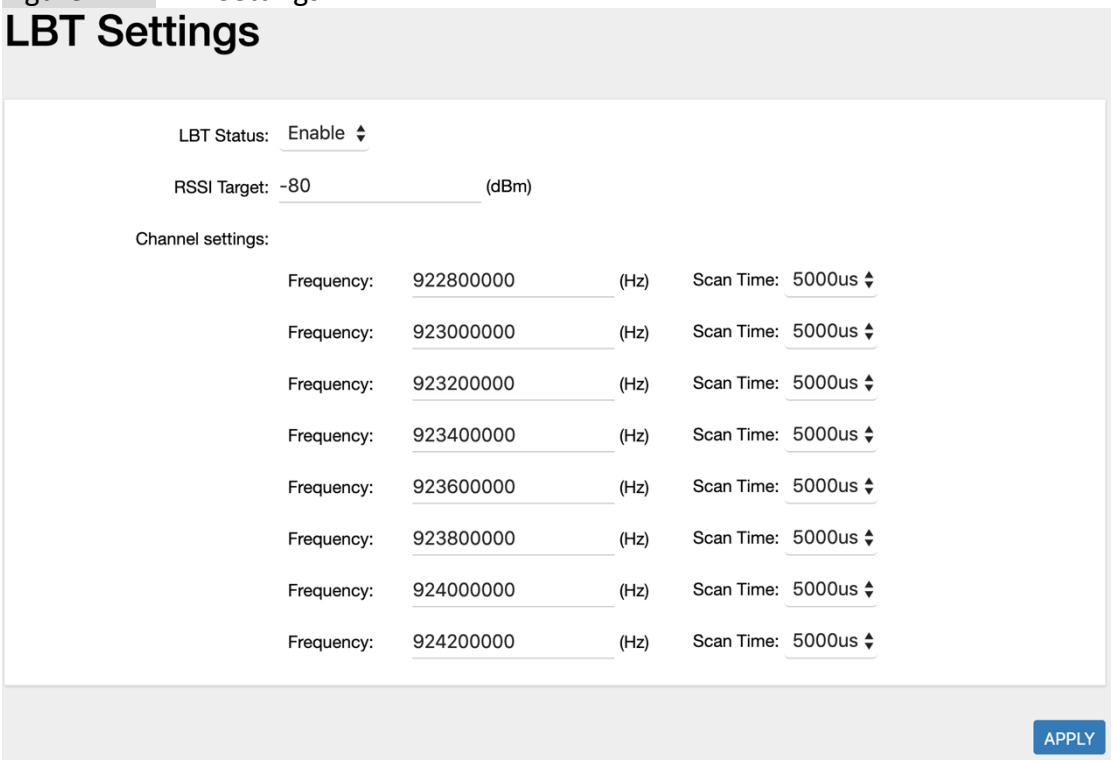
Figure 1.1.3 Radio and Channel settings



1.1.4 LBT Settings

This page is to set up the LBT configuration of LoRa, which includes: LBT Status, RSSI Target, Channel settings.

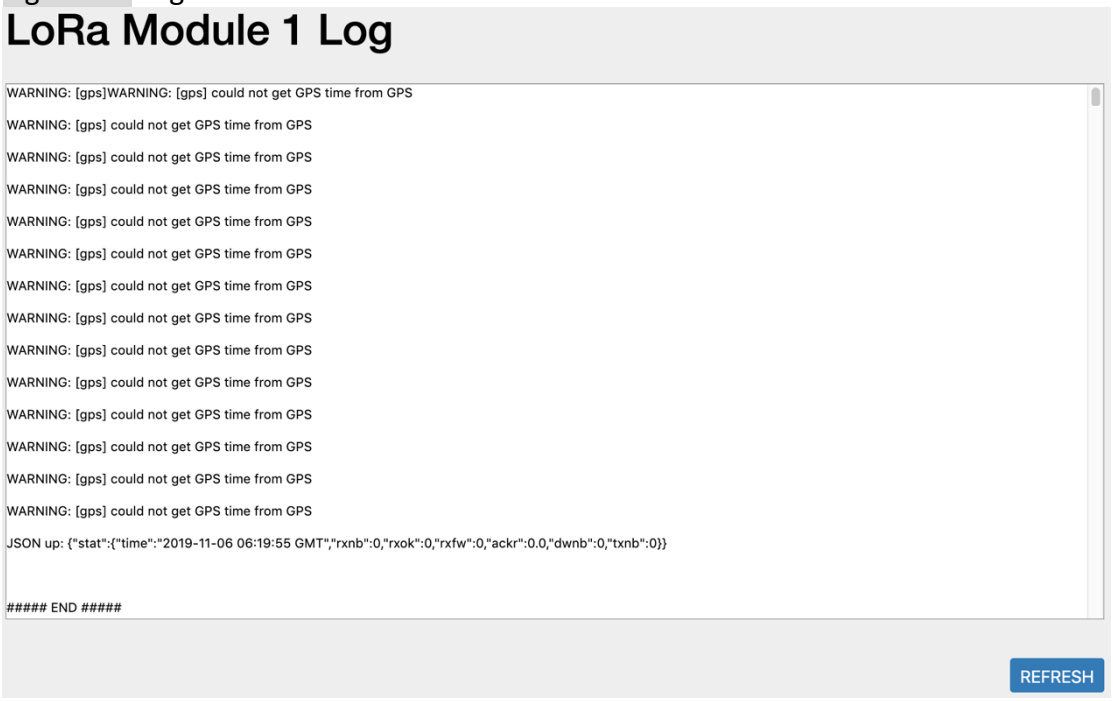
Figure 1.1.4 LBT Settings



1.2 Log

This page shows the LoRa module log.

Figure 1.2 Log

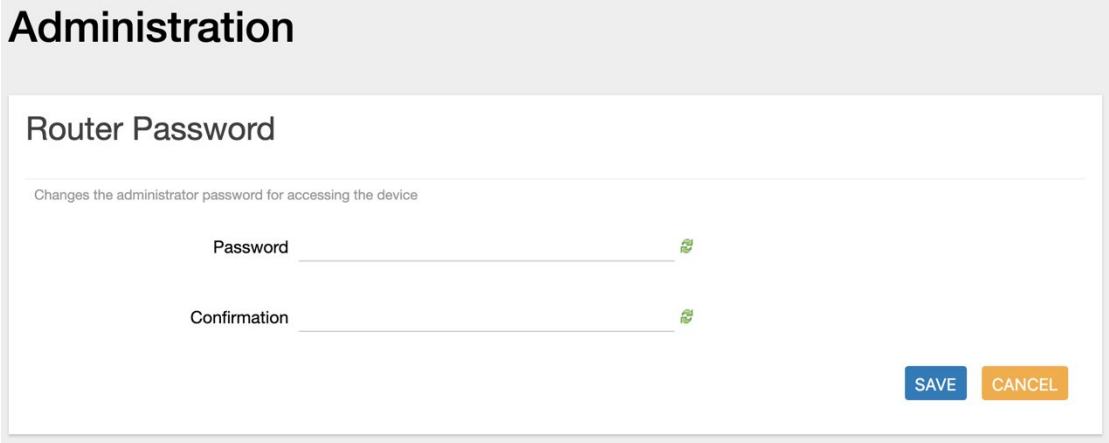


2 System

2.1 Administration

ODU-LBT GUI login password can be configured on this page.

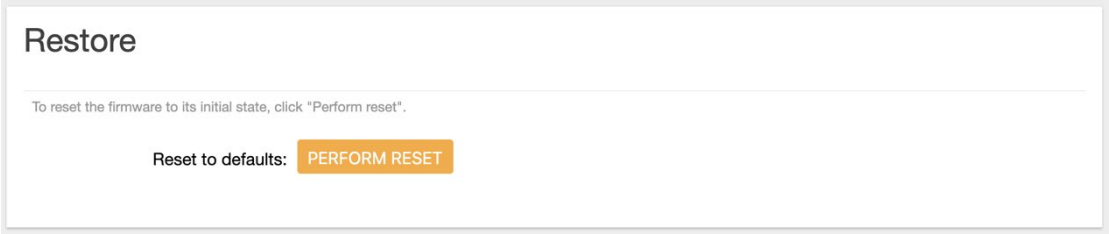
Figure 2.1 Administration



2.2 Restore

This page will allow you to reset the ODU-LBT to default status. Files and configurations you uploaded/modified will be erased or cleared to their default state.

Figure 2.2 Administration



2.3 System Firmware

This page will allow the user to upgrade ODU-LBT firmware.

Figure 2.3-A System Firmware

Figure 2.3-B Running upgrade process

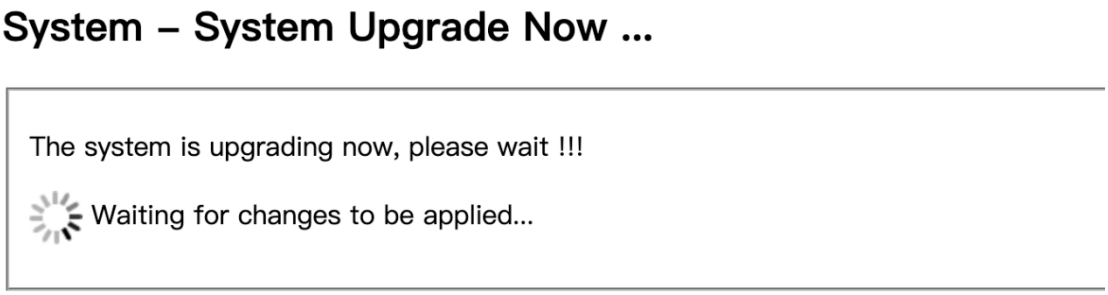
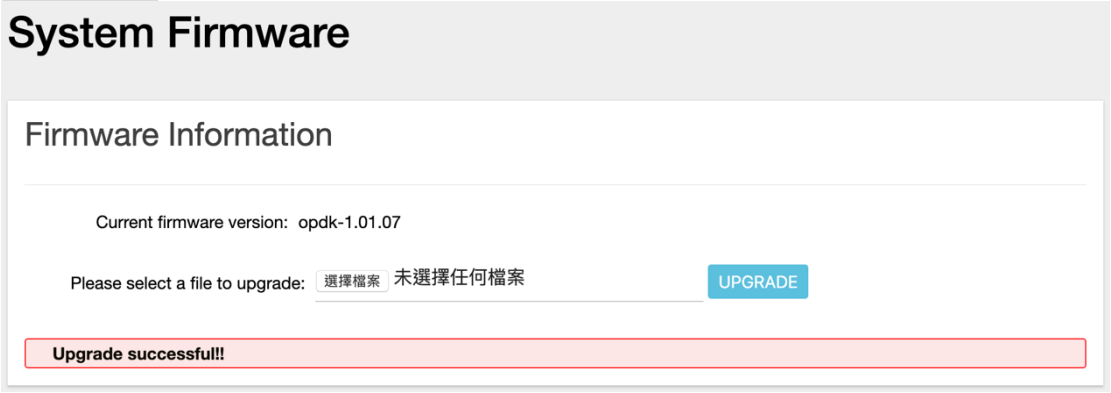


Figure 2.3-C Upgrade finished



3 Network

Here you can config WAN connection type and VPN (OpenVPN) settings.

3.1 WAN

By default, the WAN connection is “Ethernet WAN” DHCP mode, 3G/4G LTE mode is disabled.

3.1.1 WAN Status

Here will show the current WAN status, but in default, due to the WAN type is “Ethernet WAN” mode only, so, 3G/4G status will not be updated. In this FW, the dual-WAN mode is supported, and the user can check the “(main outgoing interface)” information to know which WAN interface is using as the main route.

Figure 3.1.1-A WAN status - default

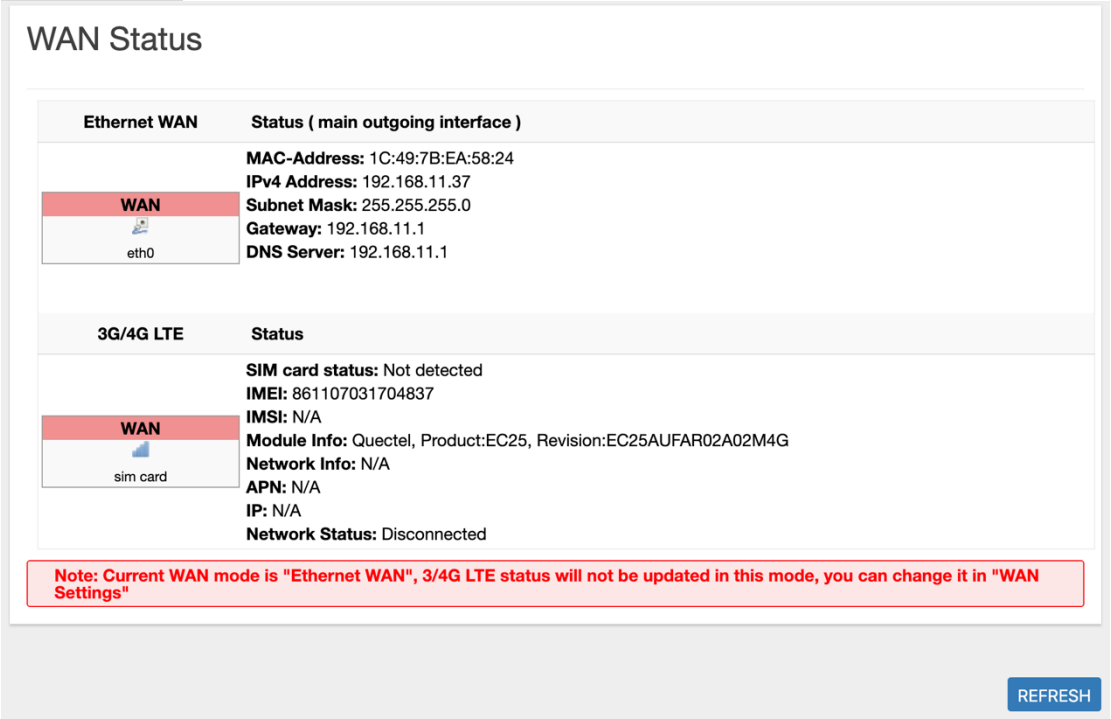
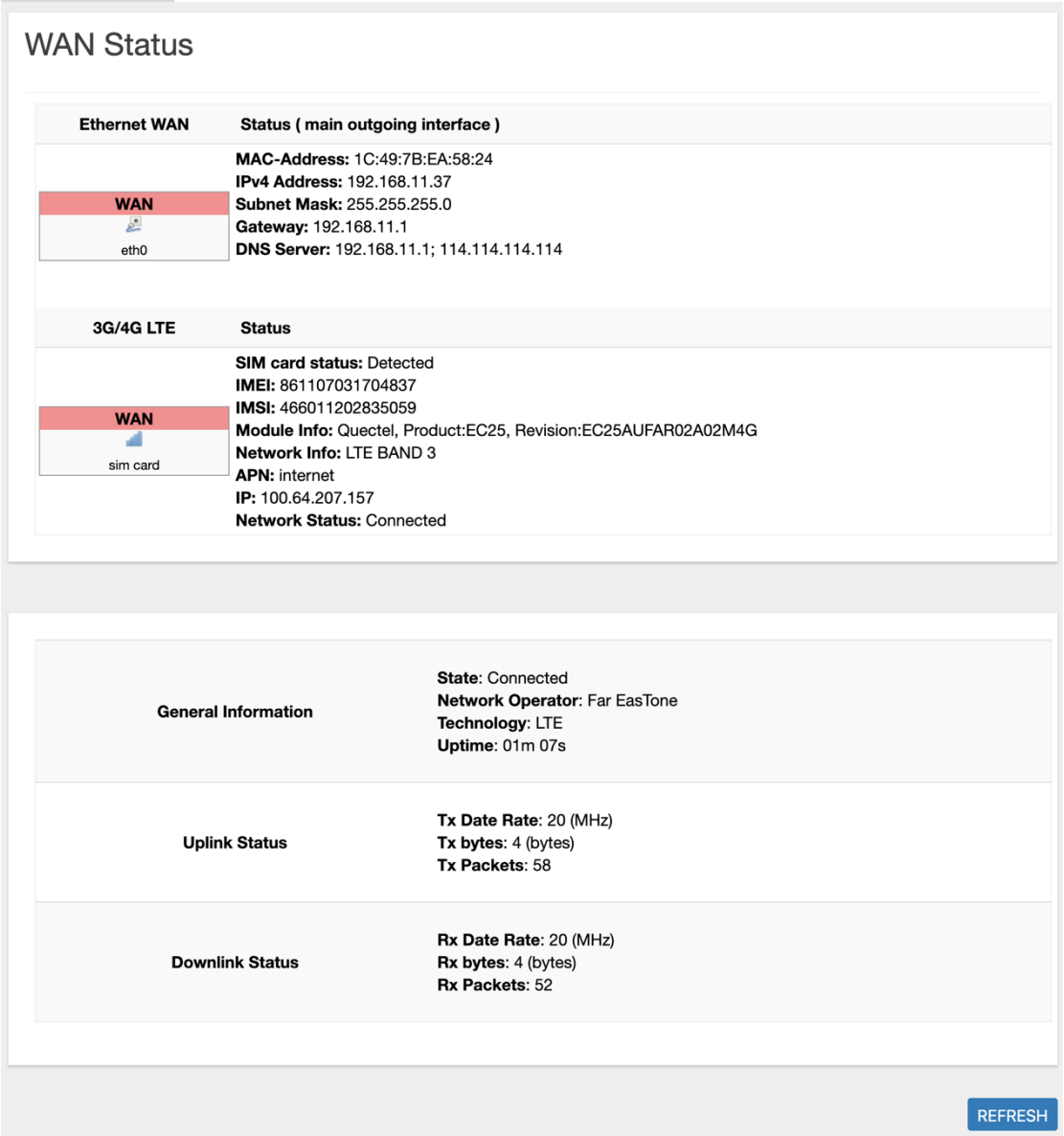


Figure 3.1.1-B WAN status – dual-WAN mode



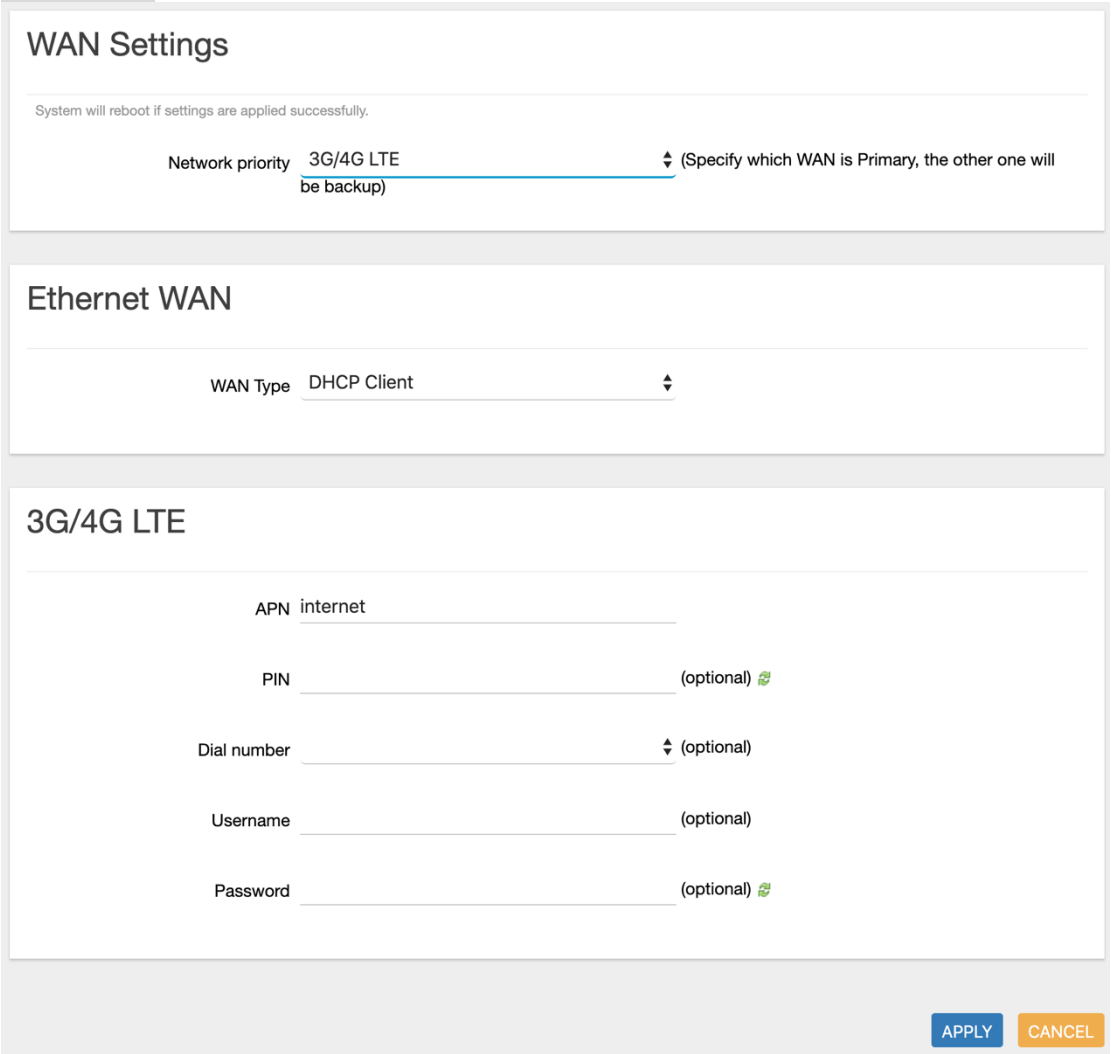
3.1.2 WAN Settings

In the “WAN Setting” section, you can specify which interface is the main outgoing interface, and the other will turn to be the backup, the default is “Ethernet WAN”.

In the “Ethernet WAN” section, you can specify the Ethernet WAN connection type, DHCP and static mode is supported, default is “DHCP”.

In the “3G/4G LTE” section, you can configure your mobile data connections.
After all, configurations are done, click the “Apply” button, the system will reboot to take effect.

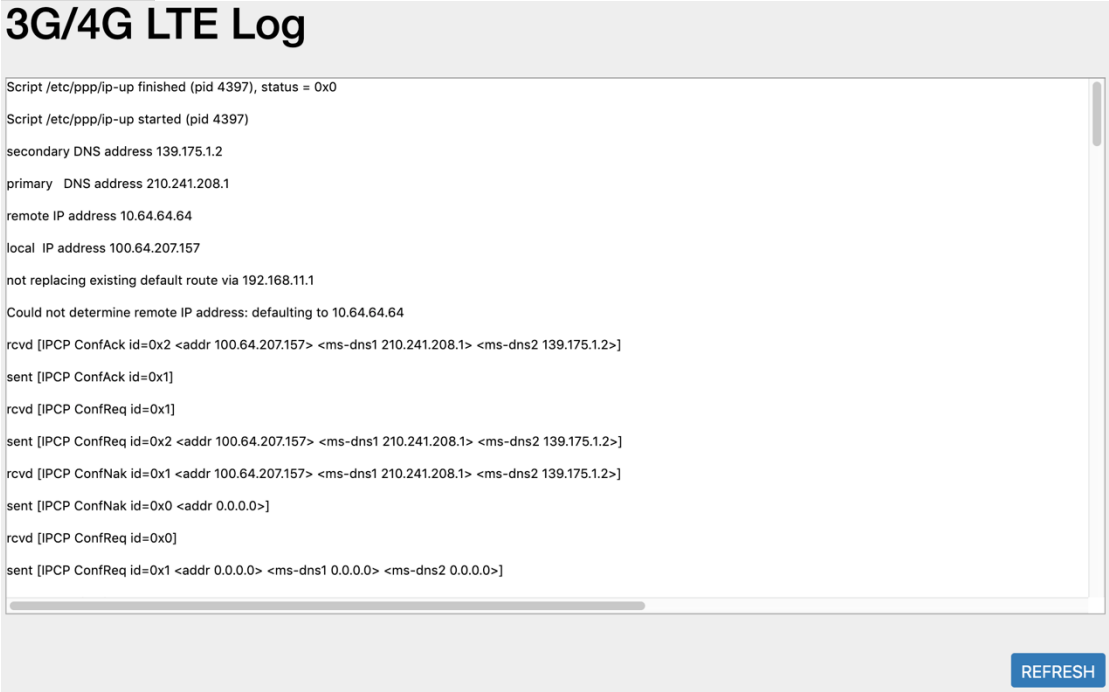
Figure 3.1.2 WAN Settings



3.1.3 3G/4G LTE Log

Here will show 3G/4G connection logs.

Figure 3.1.3 3G/4G LTE Log



3.2 VPN

OpenVPN client is supported and you can either import a config or manually config your VPN settings via GUI. Due to dual WAN mode is supported in this firmware, to avoid chaos, gateway information pushed from the VPN server will be ignored.

3.2.1 OpenVPN Client Settings

Figure 3.2.1-A VPN service - disabled

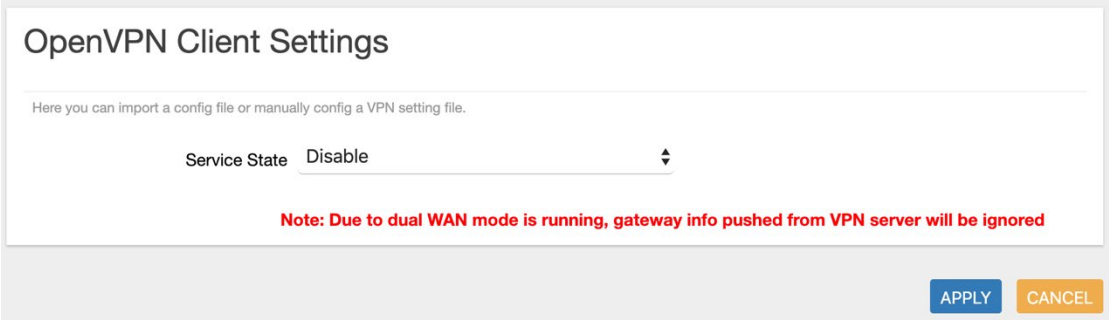


Figure 3.2.1-B VPN service – enabled/import file

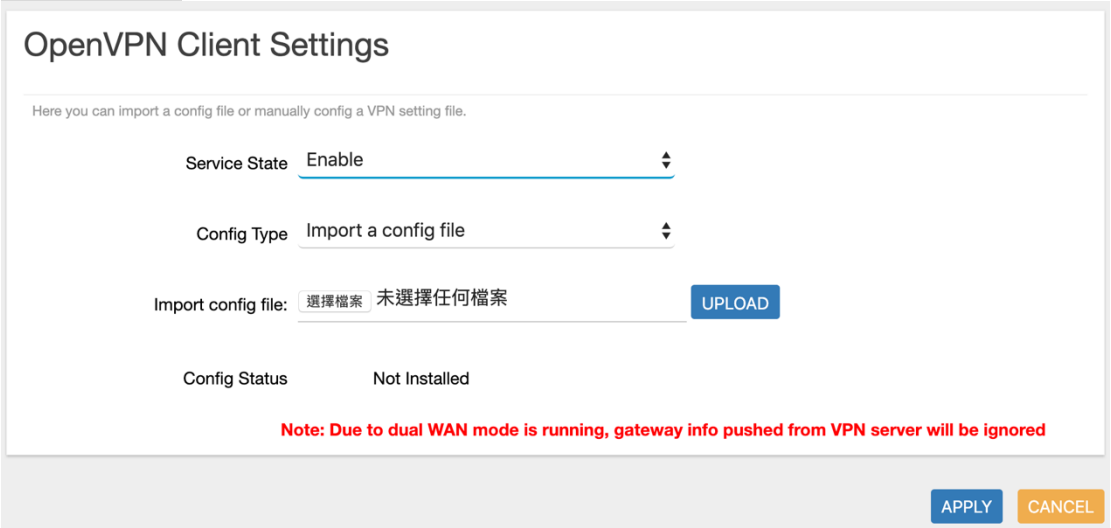


Figure 3.2.1-C VPN service – enabled/customize a file

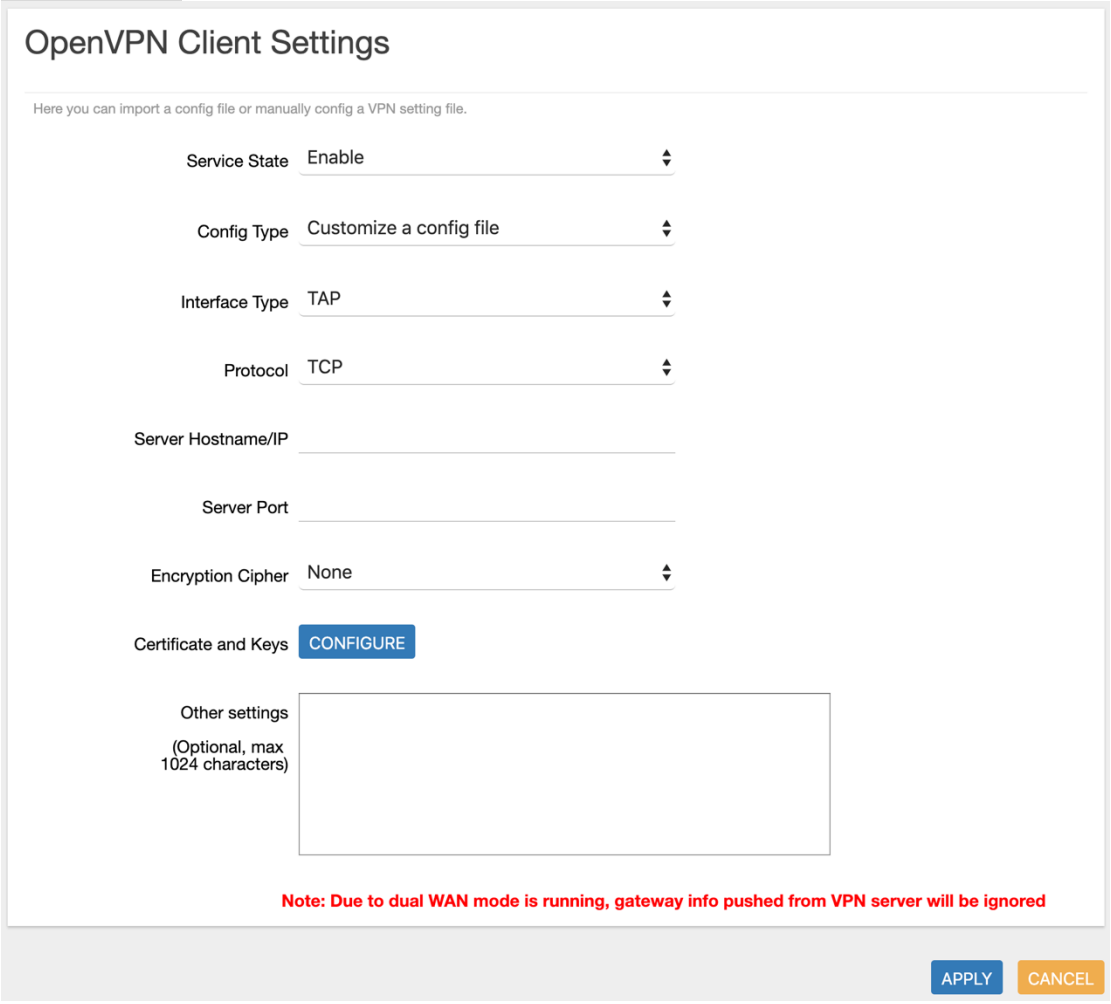
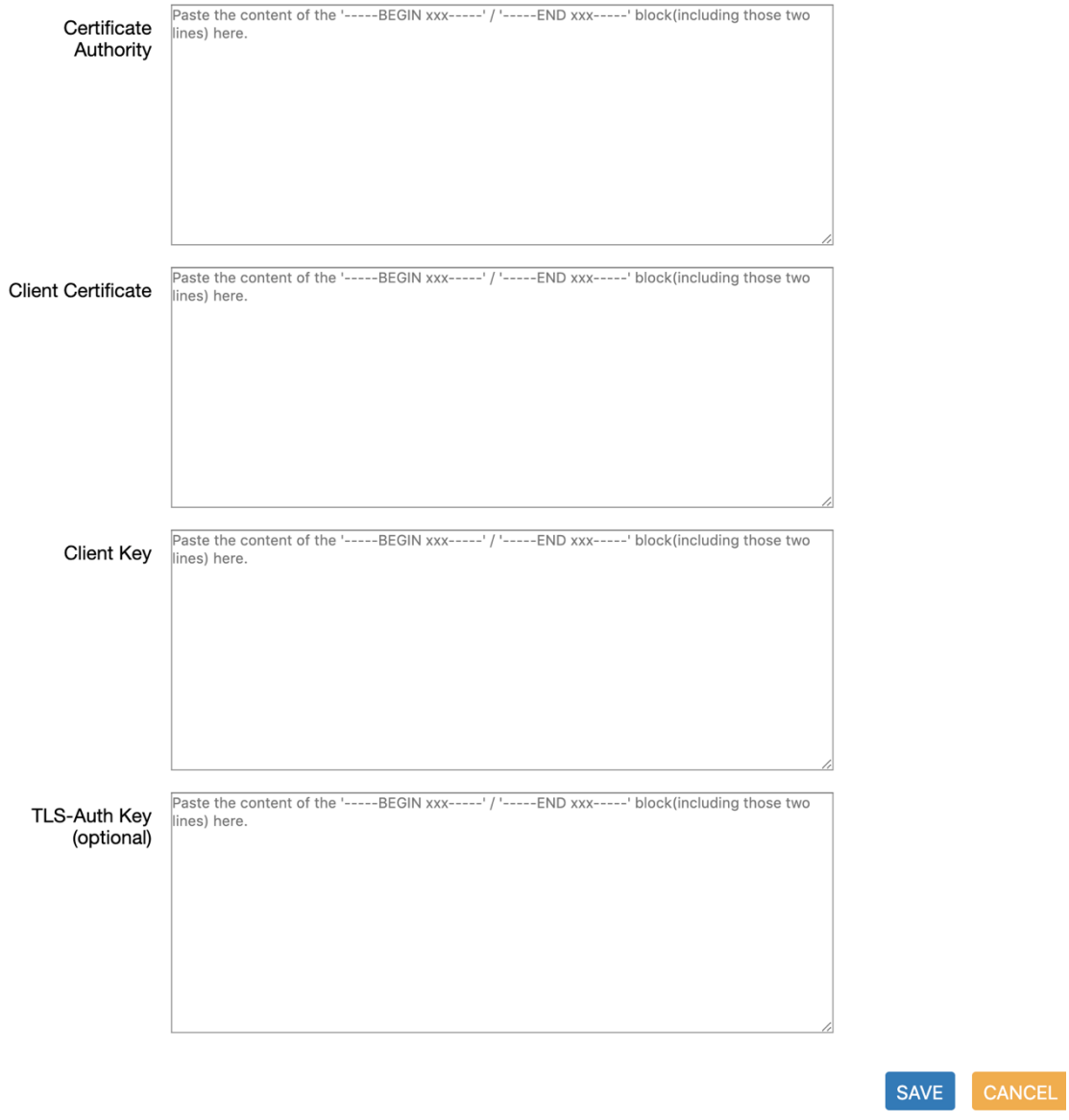


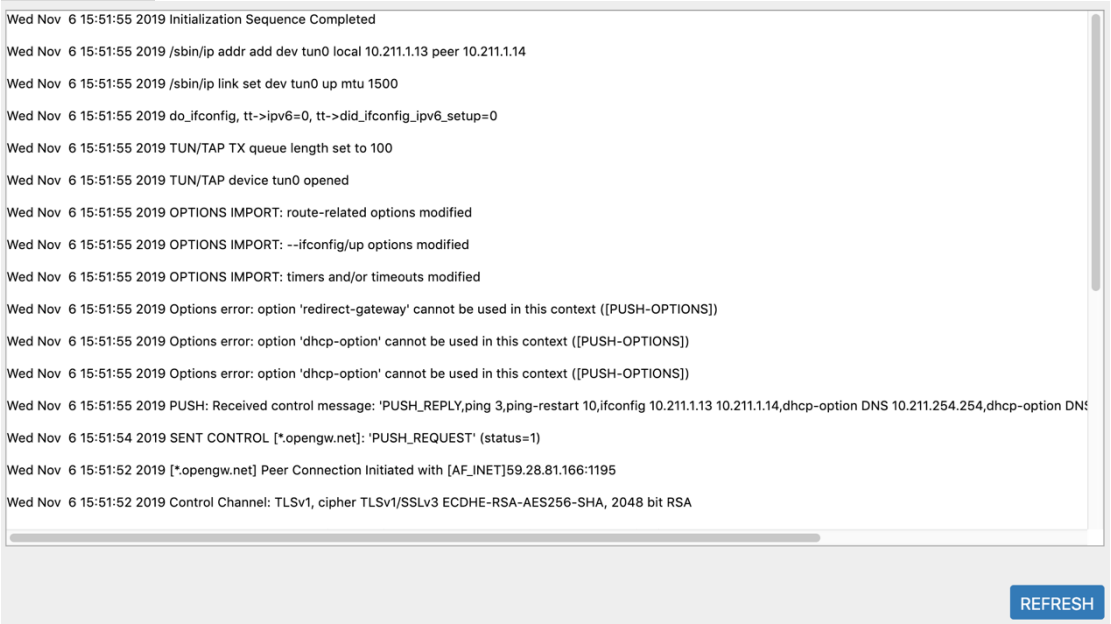
Figure 3.2.1-D VPN service – enabled/customize a file/CA keys



3.2.2 VPN Log

Here will show the detailed negotiation information between client and server.

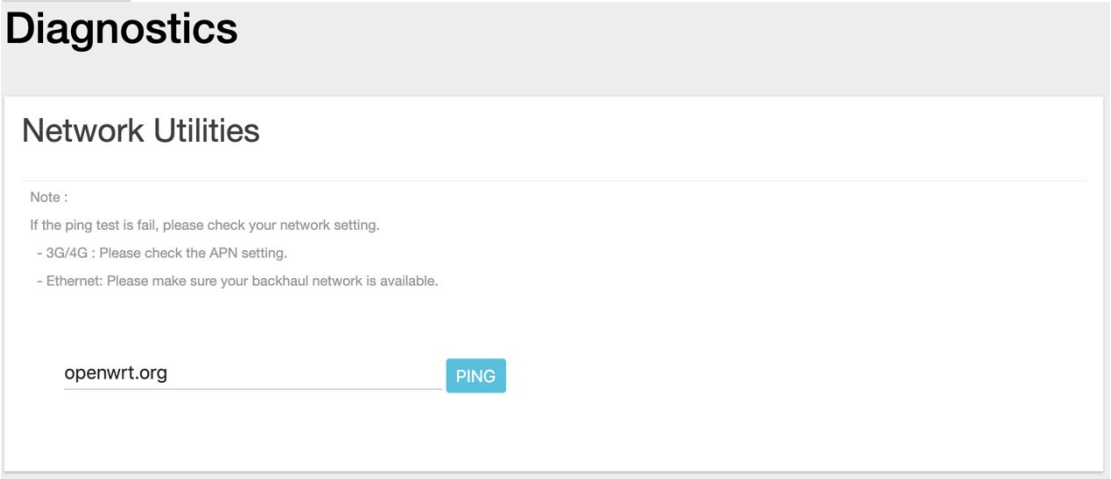
Figure 3.2.2 VPN Log



3.3 Diagnostics

This page provides the user to use the “ping” command from the ODU-LBT device to target the hostname/IP address to check the Internet connectivity.

Figure 3.3 Diagnostics



4 Logout

This will logout from web GUI.