

Automated Probing of Ports for information

Goal: Probe a port for information on that port.

We will learn how to use a script to probe a port for more information. We will also look at the output from the GUI, JSON response, and the script itself. Use the `port_probe.py` script as a reference.

Using the Script

1.

A. Command Line Options

A. `--port_eid portEID`

Specifies the eid of the port to be probed, if this option is used, the name will default to `1.1.eth0`.

B. Running the script

A. As an example, we can run the script using:

`./sta_probe_test.py --port_eid 1.1.wlan1`

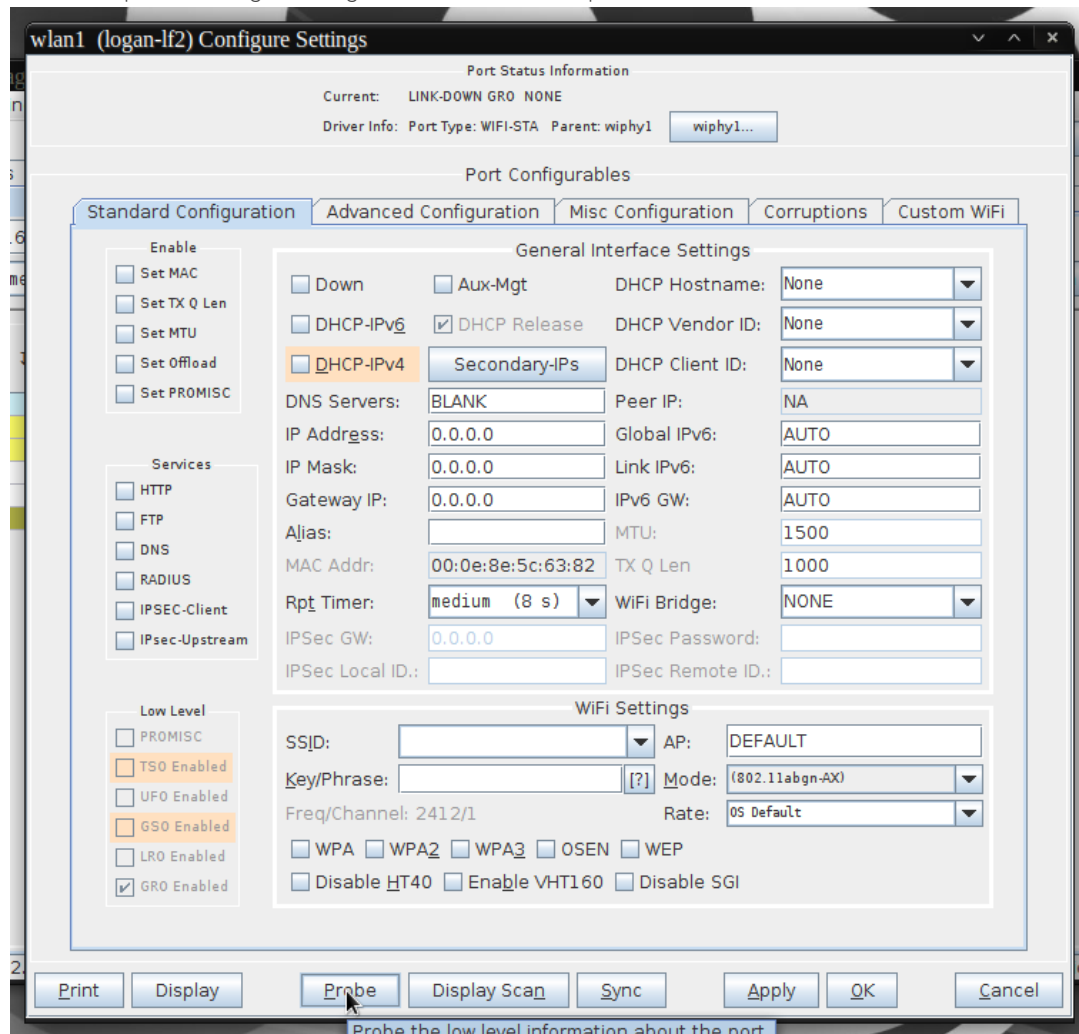
This example will probe the existing wlan1 port

2.

Probe Results From the GUI

A. In order to view this page we will need to choose a port to use and start probing.

A. First we will open the configure settings window for our chosen port:



```

Message from LANforge-Server

[[ You may Select and Copy to capture the text below. ]]

Support Key: Support 1 LF7VqE4/p/vSo system-builders-2021 1641417900

Date: Tue 21 Sep 2021 11:38:14 AM PDT

Device: wlan1    Parent-Device: wiphy1
Local-AID: 0

Radio information:
Wiphy wiphy1

    wiphy index: 1
    max # scan SSIDs: 4
    max scan IEs length: 2257 bytes
    max # sched scan SSIDs: 0
    max # match sets: 0
    max # scan plans: 1
    max scan plan interval: -1
    max scan plan iterations: 0
    Fragmentation threshold: 2346
    Retry short limit: 7
    Retry long limit: 4
    Coverage class: 0 (up to 0m)
    Device supports RSN-IBSS.
    Device supports AP-side u-APSD.
    Device supports T-DLS.
    Supported Ciphers:
        * WEP40 (00-0f-ac:1)
        * WEP104 (00-0f-ac:5)
        * TKIP (00-0f-ac:2)
        * CCMP-128 (00-0f-ac:4)
        * CCMP-256 (00-0f-ac:10)
        * GCMP-128 (00-0f-ac:8)
        * GCMP-256 (00-0f-ac:9)
        * CMAC (00-0f-ac:6)
        * CMAC-256 (00-0f-ac:13)
        * GMAC-128 (00-0f-ac:11)
        * GMAC-256 (00-0f-ac:12)

    Available Antennas: TX 0x7 RX 0x7
    Configured Antennas: TX 0x7 RX 0x7
    Supported interface modes:
        * IBSS
        * managed
        * AP
        * AP/VLAN
        * WDS
        * monitor
        * mesh point
        * P2P-client
        * P2P-GO
        * outside context of a BSS

Band 1:
  
```

3.

A. Another way of viewing the same information is to access the /probe/ page from LANforge. This can be done by going to the page at your LANforge ip using port 8080. Ex: 192.168.10.20:8080/probe. We will also need the shelf number, the resource number, and the port name.

[illegible]