

## 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.

### 1. Using the Script

#### 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:

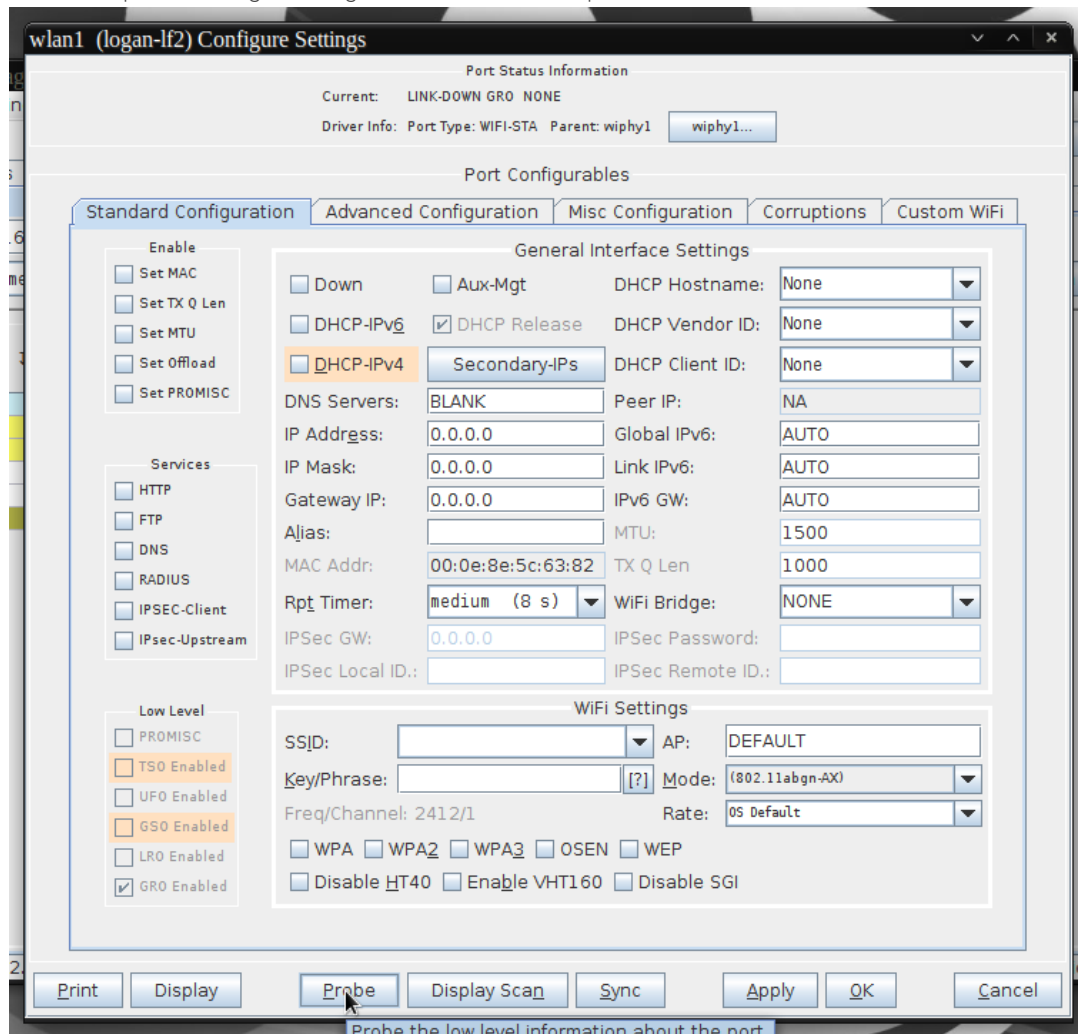
`./sta_probe_test.py --port_eid 1.1.wlan1`

This example will probe the existing wlan1 port

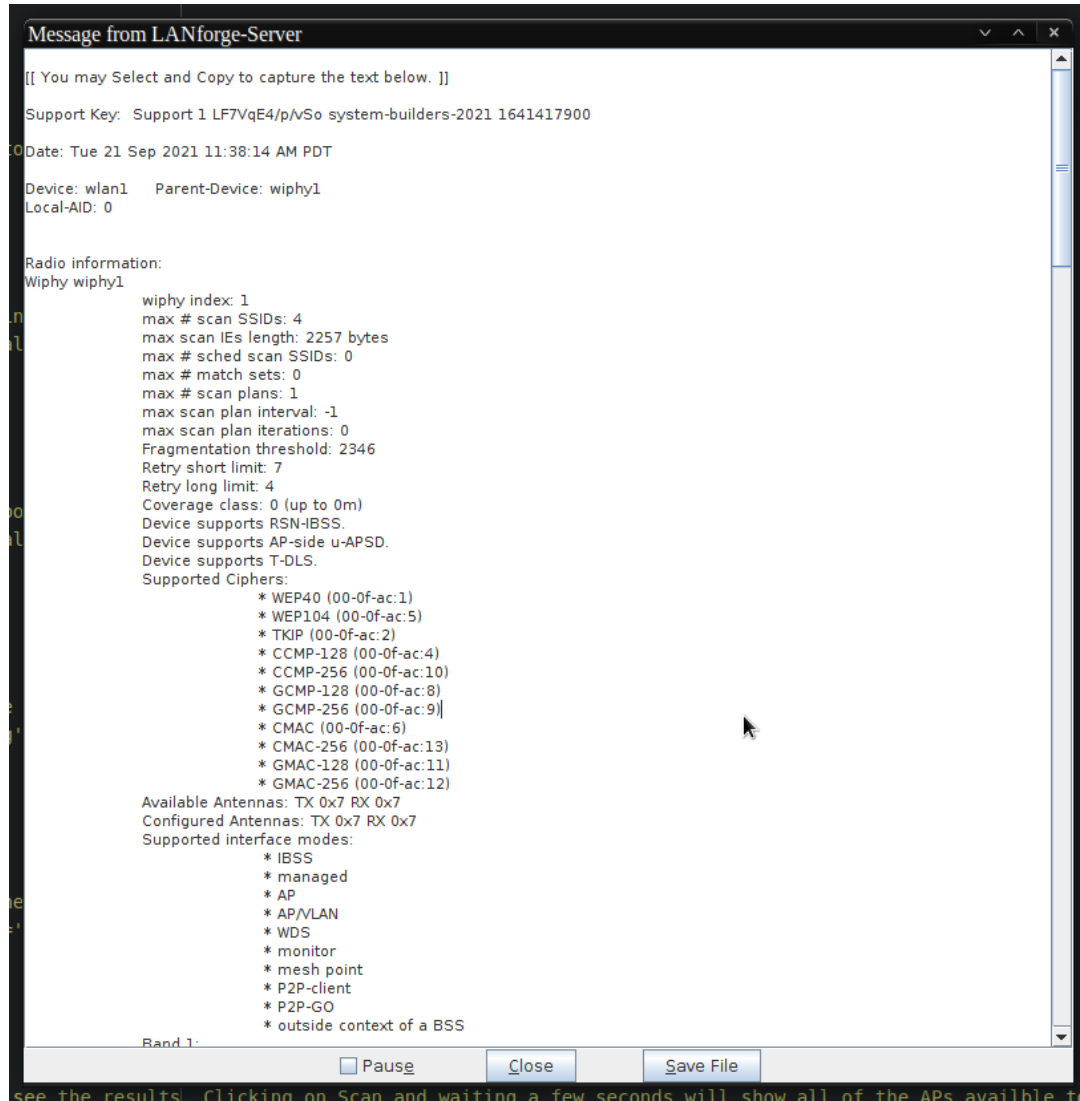
### 2. Probe Results From the GUI

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:



B. Next we will click the probe button at the bottom of the window and another window will popup with the probe information:



This information is the formatted version of the probe. The other methods of accessing probe results will be unformatted JSON.

3.

## JSON Response from /probe/

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.

The final URL would look like this: **192.168.10.20:8080/probe/1/1/wlan1** and the page will look similar to this:

```
• 1.1.wlan1:
  entity id: NA
  probe results: 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: Capabilities: 0x11ef RX LDPC HT20/HT40 SM Power Save disabled RX HT20 SGI RX HT40 SGI TX STBC RX STBC 1-stream Max AMSDU length: 3839 bytes DSSS/CCK HT40 Maximum TX/RX MCS rate indexes supported: 0-23 Bitrates (non-HT): * 1.0 Mbps * 2.0 Mbps (short preamble supported) * 5.5 Mbps (short preamble supported) * 11.0 Mbps (short preamble supported) * 6.0 Mbps * 9.0 Mbps * 12.0 Mbps * 18.0 Mbps * 24.0 Mbps * 36.0 Mbps * 48.0 Mbps * 54.0 Mbps Frequencies: * 2412 MHz [1] (23.0 dBm) * 2417 MHz [2] (23.0 dBm) * 2422 MHz [3] (23.0 dBm) * 2427 MHz [4] (23.0 dBm) * 2432 MHz [5] (23.0 dBm) * 2437 MHz [6] (23.0 dBm) * 2442 MHz [7] (23.0 dBm) * 2447 MHz [8] (23.0 dBm) * 2452 MHz [9] (23.0 dBm) * 2457 MHz [10] (23.0 dBm) * 2462 MHz [11] (23.0 dBm) * 2467 MHz [12] (disabled) * 2472 MHz [13] (disabled) * 2484 MHz [14] (disabled) Band 2: Capabilities: 0x11ef RX LDPC HT20/HT40 SM Power Save disabled RX HT20 SGI RX HT40 SGI TX STBC RX STBC 1-stream Max AMSDU length: 3839 bytes DSSS/CCK HT40 Maximum TX/RX MCS rate indexes supported: 0-23 Bitrates (non-HT): * 1.0 Mbps * 2.0 Mbps (short preamble supported) * 5.5 Mbps (short preamble supported) * 11.0 Mbps (short preamble supported) * 6.0 Mbps * 9.0 Mbps * 12.0 Mbps * 18.0 Mbps * 24.0 Mbps * 36.0 Mbps * 48.0 Mbps * 54.0 Mbps Frequencies: * 5180 MHz [36] (20.0 dBm) * 5200 MHz [40] (20.0 dBm) * 5220 MHz [44] (20.0 dBm) * 5240 MHz [48] (20.0 dBm) * 5260 MHz [52] (20.0 dBm) (no IR, radar detection) * 5280 MHz [56] (20.0 dBm) (no IR, radar detection) * 5300 MHz [60] (20.0 dBm) (no IR, radar detection) * 5320 MHz [64] (20.0 dBm) (no IR, radar detection) * 5340 MHz [68] (20.0 dBm) (no IR, radar detection) * 5360 MHz [72] (20.0 dBm) (no IR, radar detection) * 5380 MHz [76] (20.0 dBm) (no IR, radar detection) * 5400 MHz [80] (20.0 dBm) (no IR, radar detection) * 5420 MHz [84] (20.0 dBm) (no IR, radar detection) * 5440 MHz [88] (20.0 dBm) (no IR, radar detection) * 5460 MHz [92] (20.0 dBm) (no IR, radar detection) * 5480 MHz [96] (20.0 dBm) (no IR, radar detection) * 5500 MHz [100] (20.0 dBm) (no IR, radar detection) * 5520 MHz [104] (20.0 dBm) (no IR, radar detection) * 5540 MHz [108] (20.0 dBm) (no IR, radar detection) * 5560 MHz [112] (20.0 dBm) (no IR, radar detection) * 5580 MHz [116] (20.0 dBm) (no IR, radar detection) * 5600 MHz [120] (20.0 dBm) (no IR, radar detection) * 5620 MHz [124] (20.0 dBm) (no IR, radar detection) * 5640 MHz [128] (20.0 dBm) (no IR, radar detection) * 5660 MHz [132] (20.0 dBm) (no IR, radar detection) * 5680 MHz [136] (20.0 dBm) (no IR, radar detection) * 5700 MHz [140] (19.0 dBm) (no IR, radar detection) * 5720 MHz [144] (19.0 dBm) (no IR, radar detection) * 5740 MHz [148] (19.0 dBm) (no IR, radar detection) * 5760 MHz [152] (19.0 dBm) (no IR, radar detection) * 5780 MHz [156] (19.0 dBm) (no IR, radar detection) * 5800 MHz [160] (19.0 dBm) (no IR, radar detection) * 5820 MHz [164] (19.0 dBm) (no IR, radar detection) * 5840 MHz [168] (19.0 dBm) (no IR, radar detection) * 5860 MHz [172] (19.0 dBm) (no IR, radar detection) * 5880 MHz [176] (19.0 dBm) (no IR, radar detection) Supported commands: * new interface * set interface * new key * start_ap * new station * new mpath * set mesh config * set bss * authenticate * associate * deauthenticate * join bss * join mesh * remain on channel * set tx bitrate mask * frame * frame wait cancel * set wiphy netns * set channel * set wds peer * tds mgmt * tds oper * probe client * set noack map * register beacons * start p2p device * set mcast rate * testmode * connect * disconnect * channel switch * set qos map * set multicast to unicast Supported TX frame types: * IBSS: 0x00 0x10 0x20 0x30 0x40 0x50 0x60 0x70 0x80 0x90 0xa0 0xb0 0xc0 0xd0 0xe0 0xf0 * managed: 0x00 0x10 0x20 0x30 0x40 0x50 0x60 0x70 0x80 0x90 0xa0 0xb0 0xc0 0xd0 0xe0 0xf0 * AP: 0x00 0x10 0x20 0x30 0x40 0x50 0x60 0x70 0x80 0x90 0xa0 0xb0 0xc0 0xd0 0xe0 0xf0 * AP/VLAN: 0x00 0x10 0x20 0x30 0x40 0x50 0x60 0x70 0x80 0x90 0xa0 0xb0 0xc0 0xd0 0xe0 0xf0 * P2P-client: 0x00 0x10 0x20 0x30 0x40 0x50 0x60 0x70 0x80 0x90 0xa0 0xb0 0xc0 0xd0 0xe0 0xf0 * P2P-GO: 0x00 0x10 0x20 0x30 0x40 0x50 0x60 0x70 0x80 0x90 0xa0 0xb0 0xc0 0xd0 0xe0 0xf0 Supported RX frame types: * IBSS: 0x40 0xb0 0xc0 0xd0 * managed: 0x40 0xd0 * AP: 0x00 0x20 0x40 0xb0 0xc0 0xd0 * AP/VLAN: 0x00 0x20 0x40 0xb0 0xc0 0xd0 * mesh point: 0x00 0x20 0x40 0xb0 0xc0 0xd0 * P2P-client: 0x40 0xd0 * P2P-GO: 0x00 0x20 0x40 0xb0 0xc0 0xd0 * P2P-device: 0x40 0xd0 0x10 software interface modes (can always be added): * AP/VLAN * monitor valid interface combinations: * # [ managed ] <= 2048, # [ AP, mesh point ] <= 32, # [ P2P-client, P2P-GO ] <= 1, # [ IBSS ] <= 1, total <= 2048, #channels <= 1, STA/AP BI must match, radar detect width: { 20 MHz (no HT), 20 MHz, 40 MHz } * # [ WDS ] <= 2048, total <= 2048, #channels <= 1, STA/AP BI must match HT Capability overrides: * MCS: ff ff ff ff ff ff ff ff * maximum A-MSDU length * supported channel width * short GI for 40 MHz * max A-MPDU length exponent * min MPDU start spacing Device supports TX status socket option. Device supports HT-IBSS. Device supports SAE with AUTHENTICATE command Device supports low priority scan. Device supports scan flush. Device supports per-vid TX power setting P2P GO supports CT window setting Driver supports full state transitions for AP/GO clients Driver supports a userspace MPM Device supports active monitor (which will ACK incoming frames) Driver/device bandwidth changes during BSS lifetime (AP/GO mode) Device supports ACK timeout estimation. Device supports configuring vdev MAC-addr on create. Supported extended features: * [ RRM ]: RRM * [ FILS_STA ]: STA FILS (Fast Initial Link Setup) * [ CQM_RSSI_LIST ]: multiple CQM_RSSI_THOLD records * [ CONTROL_PORT_OVER_NL80211 ]: control port over nl80211 * [ TXQS ]: FC-CoDel-enabled intermediate TXQs * [ AIRTIME_FAIRNESS ]: airtime fairness scheduling * [ SCAN_RANDOM_SN ]: use random sequence numbers in scans * [ SCAN_MIN_FREQ_CONTENT ]: use probe request with only rate IEs in scans Regulatory information: global country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA) (5170 - 5250 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#0 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#1 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#2 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#3 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#4 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#5 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#6 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#7 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#8 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#9 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#10 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#11 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#12 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#13 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#14 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#15 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#16 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#17 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#18 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#19 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#20 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#21 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#22 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#23 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#24 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#25 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#26 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#27 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#28 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#29 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#30 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#31 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#32 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#33 country US: DFS-FCC (2402 - 2472 @ 40), (NA, 30), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (NA), AUTO-BW (5250 - 5330 @ 80), (NA, 23), (0 ms), DFS, AUTO-BW (5490 - 5730 @ 160), (NA, 23), (0 ms), DFS (5735 - 5835 @ 80), (NA, 30), (NA) (57240 - 71000 @ 2160), (NA, 40), (NA) phy#34 country US: DFS-FCC (2402 - 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