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6GHz Packet Capture

Goal: 6GHz Packet Capture Using LANforge Radios in Monitor Mode.

Depending on the NIC, there are different steps required in order to capture on 6GHz frequencies.
Intel AX210/BE200 - Require a station on the parent interface to scan and determine that it is in a US regulatory domain before a monitor mode interface can be assigned a 6GHz frequency.
Mediatek 7921/7922 - No regulatory domain restriction at this time.

1. Clone and get latest copy of lanforge-scripts.
   A. cd /home/lanforge
   B. git clone https://github.com/greearb/lanforge-scripts
   C. cd /home/lanforge/lanforge-scripts/py-scripts

2. Run lf_sniff_radio.py script.
   A. Run the lf_sniff_radio.py script with the --help argument to understand your options or pip install any missing modules as needed.

```
[root@ibase-i5-f36 py-scripts]# ./lf_sniff_radio.py --help
 usage: ./lf_sniff_radio.py
         --mgr localhost
         --mgr_port 8080
         --radio wiphy0
         --outfile /home/lanforge/test_sniff.pcap
         --duration 1
         --channel 36
         --channel_bw 40
         --center_freq 5190
         --radio_mode AUTO
         --monitor_name Sniffer0

         AX210 sniff command
         ===================

         ./lf_sniff_radio.py
         --mgr 192.168.0.104
         --mgr_port 8080
         --radio wiphy7
         --outfile /home/lanforge/sniff_6G_80.pcap
         --duration 20
         //--channel 1e
         --channel_bw 80
         --channel_freq 5955
         --center_freq 5985
         --radio_mode AUTO
         --monitor_name SNIFF_6G_80
```

   B. Run the script with arguments for your test case.
   To sniff on 6GHz with an AX210 NIC on resource 1, wiphy2:

```
./lf_sniff_radio.py --mgr 192.168.101.197 --radio "1.wiphy2" \
--outfile sniff_6G-AX210.pcapng --duration 10 --channel 37e --ax210 \
--num_stations 1 --ssid test --ax210_scan_time 20
```

   To sniff on 6GHz with an MTK7921/MTK7922 NIC on resource 6, wiphy0:

```
./lf_sniff_radio.py --mgr 192.168.100.193 --radio "6.wiphy0" \
--outfile sniff_6G-MTK.pcapng --duration 10 --channel 133e
```

   C. For more information, see this guide: sniffer_manual.pdf

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