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T E C H N O L O G I E S   Network Testing and Emulation Solutions

Scripting: Modify Wiphy Radio Spatial Streams

Goal: Use lf_modify_radio.py to set a wiphy radio's spatial streams

Using lf_modify_radio.py

1. Start the LANforge GUI, if not already running
   - Navigate to `/home/lanforge/LANforgeGUI_5.5.1`
   - Run `./lfclient.bash`
   - Select **Connect** to connect to `localhost:4002 Local Machine Address`
2. Navigate to `/home/lanforge/scripts/py-scripts`
3. Run `./lf_modify_radio.py` with the necessary arguments:
   - `--host`: specify the GUI host IP to connect to.
   - `--radio`: specify the name of the radio to modify.
   - `--channel`: specify the channel of the radio (this will default to AUTO).
   - `--antenna`: **Specify the desired number of spacial streams using the following selection:**
     - `0 : Diversity (All)`
     - `1 : Fixed-A (1x1)`
     - `4 : AB (2x2)`
     - `7 : ABC (3x3)`
     - `8 : ABCD (4x4)`
     - `9 : (8x8)`

Example Usage: `$ ./lf_modify-radio.py --host 192.168.0.1 --radio "wiphy0" --antenna 7`