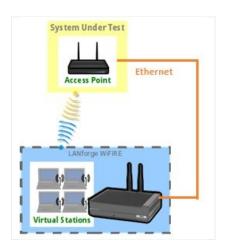


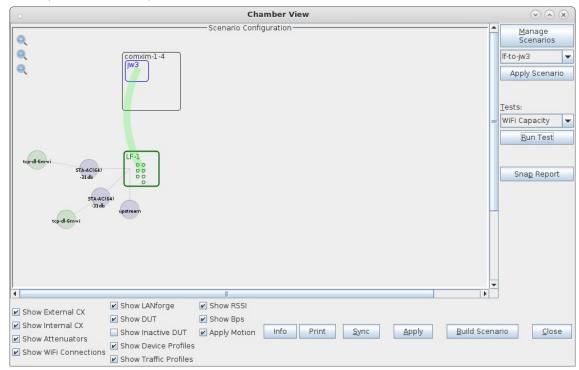
## Automate WiFi Capacity and other GUI tests.

**Goal**: Use a command-line script to have the LANforge-GUI run the WiFi Capacity test and generate a pdf automatically.

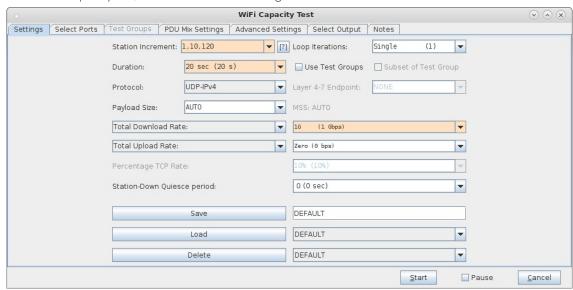
In this test scenario, a script is used to bring up the WiFi Capacity test with a pre-configured configuration. The capacity test is then started and a report is generated. All of this is automated, and other tests such as Dataplane are also supported. This feature requires LANforge version 5.4.1 or higher.



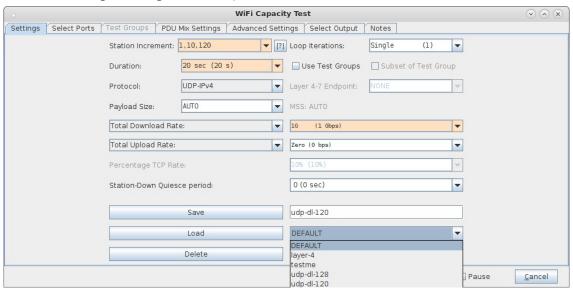
- 1. Configure WiFi Capacity Test for automated run.
  - A. For this to work, the LANforge GUI must be started with the **-cli-socket 3990** argument. This causes it to open a socket to listen for text commands.
  - B. Open Chamber View by clicking on the 'Chamber View' button in the LANforge-GUI. Create an appropriate scenario and DUT if you have not already done so. Other cookbook examples have more details of how to do this, please see those if you are unfamiliar with Chamber View.



C. Select WiFi Capacity test, and click **Run Test** to configure it as desired.



D. Enter a name in the 'Save' field, click save, and make sure it shows up as a loadable configuration. In this case, we are saving the configuration as 'udp-dl-120'



2. Use the If\_gui\_cmd.pl script to launch the WiFi Capacity Test.

A. Open an ssh session or terminal window and log into the LANforge system, or some other system with the LANforge scripts/ repository. On a LANforge system, this will usually be /home/lanforge/scripts In this case, the directory name is called If scripts

```
greearb@ben-t530:~/btbits/x64 btbits/server/lf scripts
File Edit View Search Terminal Help
[greearb@ben-t530 lf_scripts]$
[greearb@ben-t530 lf_scripts]$
[greearb@ben-t530 lf_scripts]$
[greearb@ben-t530 lf_scripts]$
[greearb@ben-t530 lf_scripts]$
                                                                                                                                                               lf_parse_tshark_log.pl
lf_portmod.pl
lf_port_walk.pl
lf_show_events.pl
lf_staggered_dl.sh
lf_sta_name.pl
lf_stress1.pl
lf_stress2.pl
                                                                                                                                                                                                                                      README.md
  ttenuator_series_example.csv
                                                                                      lf gul cmd.pl
lf_icemod.pl
lf_ice.pl
lf l4_auth.pl
lf_l4_random_speeds.bash
lf_l4_reset.sh
        n__snowport.sn
c_autn.pl
ate_file_assortment.bash
ate-mounts.sh
sorter.sh
p-lease-list.pl
                                                                                                                                                                                                                                      show-port-from-json.pl
                                                                                                                                                               lf stress4.pl
lf verify.pl
lf_voip.pl
lf_voip_test.pl
lf_vue mod.sh
lf_wifi_dotlx.bash
lf_wifi_fire.bash
lf_wifi_portal.bash
lf_wifi_rest_example.pl
lf_zlt_binary.pl
lib vff.bash
                                                                                                                                                                                                                                      strongswan-config
          ry_vrf.sh
ry_vrf.sh
rtl_lf0312.pl
r_million.pl
r_million.sh
·upload.pl
                                                                                      IT_14_reset.sn
|f_log_parse.pl
|f_loop_traffic.sh
|f_macvlan2.pl
|f_macvlan3.pl
|f_macvlan_14.pl
|f_macvlan_pl
                                                                                                                                                                                                                                      track_call_end.sh
                                                                                                                                                                license.txt
                                                                                                                                                              list_phy_sta.sh
mem-info.sh
min_max_ave_station.pl
multi_endp.bash
                                                                                                                                                                                                                                     wait_on_ports.pl
wifi_diag
wifi_event-histo.sh
wifi-roaming-times.pl
WlanPro.desktop
wlanpro_test.pl
wpro.sh
                                                                                       lf_monitor.pl
lf_netoptics.pl
lf_nfs_io.pl
                                                                                                                                                               ocean-text.csv
lf_auto_wifi_cap.pl
[greearb@ben-t530 lf_scripts]$
```

B. Run the If\_gui\_cli\_cmd.pl script with appropriate arguments. Use --help for details. Once you run this, the WiFi Capacity test should be automatically opened and the test will be started. The script will end when the capacity test has completed. You may copy the results to some easily found location, such as a web server directory.

```
greearb@ben-t530:~/btbits/x64_btbits/server/lf_scripts

File Edit View Search Terminal Help

>>>Sending:cv get 'mytest' 'Report Location:'
Copy test results: cp -ar /home/greearb/tmp/reports/wifi-capacity-2019-11-04-06-13-12 /tmp/
[greearb@ben-t530 lf scripts]s
[greearb@ben-t530
```

C. For details on what GUI-CLI commands are supported, please see the screen-shot below and look at the contents of the If\_qui\_cmd.pl script.

```
Mate Terminal
                                                                                                  (V) (A) (X)
 File Edit View Search Terminal Help
[greearb@ben-dt4 ~]$ telnet localhost 3990
Trying ::1...
telnet: connect to address ::1: Connection refused
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Connected to LANforgeGUI version: 5.4.1
lfgui# help
Available commands:
  cli: Send LANforge CLI command. This can be useful for requesting the GUI update
  its data, for instance: cli show_ports flush_ss: Flush spread-sheet info to the file system immediately.
  set reporting <start | stop>   stor of means best> <"save-to-direct
  ## For automating chamber-view tests (plugins, etc)
   cv set 'instance-name' 'object' 'value'
   cv create 'instance-name' 'instance-name'
cv click 'instance-name' 'object'
cv load 'instance-name' 'config-name'
cv get 'instance-name' 'object'
cv apply scenario
   cv build
   cv delete 'instance-name'
               Give this help message.
  help:
  exit:
               Log out of this command session
lfgui#
```

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