

# **FTP Test**

**PREPARED FOR** Netgear

**PREPARED BY** 

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## **EXECUTIVE SUMMARY**

This FTP test is used "Verify that Number of connected clients on Specified band and can simultaneously download/upload some amount of file from FTP server and measuring the time taken by client to download/upload the file."

User will give pass/fail time for this test. If all clients are able to Download/ Upload within threshold time then test will pass otherwise fail. FTP test will give individual client (Download/Upload) time in seconds.

#### **Netgear Scripting Project:**

[22-07-2021]]

### 1. Project Overview

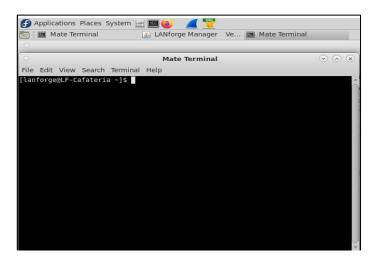
The FTP Test is designed to test the Performance of the Netgear Access Point. The goal of this test is verify Download/Upload time of number of clients when clients are connected to specified band and Downloading/Uploading some amount of file from FTP server.

### 2. Test Procedure

- 1. Based on the user inputs script will create stations on port manager and run the traffic on I4-7
- 2. Script will calculate the traffic duration of each station and plot on the graph
- 3. Script also calculates the individual throughput of each station.

### 3. How to use Script?

1) Open the Mate terminal in your lanforge.



2) Change the directory to "cd home/lanforge/CandelaAutomationScripts/ftp"

3) Cli to execute the python test eg -

#### For 5G band :-

```
For Download
```

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --fiveg_radio wiphy0 --bands 5G --directions Download --file_sizes 2MB --num_stations 40
```

#### For Upload

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --fiveg_radio wiphy0 --bands 5G --directions Upload --file_sizes 2MB --num_stations 40
```

#### For 2.4G band :-

#### For Download

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --twog_radio wiphy1 --bands 2.4G --directions Download --file_sizes 2MB --num_stations 40
```

#### For Upload

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --twog_radio wiphy1 --bands 2.4G --directions Upload --file_sizes 2MB --num_stations 40
```

#### For Both band :-

#### For Download

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --twog_radio wiphy1 --fiveg_radio wiphy0 --bands Both --directions Download --file_sizes 2MB --num_stations 40
```

```
For Upload
```

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --twog_radio wiphy1 --fiveg_radio wiphy0 --bands Both --directions Upload --file_sizes 2MB --num_stations 40
```

#### For all combinations with multiple file sizes :-

```
~ python3 ftp_test.py --mgr localhost --mgr_port 8080 --ssid ftp_test --passwd [BLANK] --security open --ap_name WAC505 --ap_ip 192.168.212.1 --twog_radio wiphy1 --fiveg_radio wiphy0 --bands 5G 2.4G Both --directions Download Upload --file_sizes 2MB 500MB 1000MB --num_stations 40
```

```
Here
```

- --ap\_ip AP ip
- --ap\_name AP Name
- --mgr LANforge ip address but if you are running script inside lanforge use "localhost"
- --mgr\_port port Lanforge GUI HTTP service is running on
- --ssid ssid for clients
- --passwd password to connect to ssid if open security use [BLANK]
- --security security type used by ssid
- --twog\_radio radio at which 2.4G clients will be connected
- --fiveg\_radio radio at which 5G clients will be connected
- --bands bands by default ["5G","2.4G","Both"]
- --directions directions by default ["Download","Upload"]
- --file\_sizes Download/Upload file size by default ["2MB","500MB","1000MB"]
- --num\_stations number of stations to create by default 40

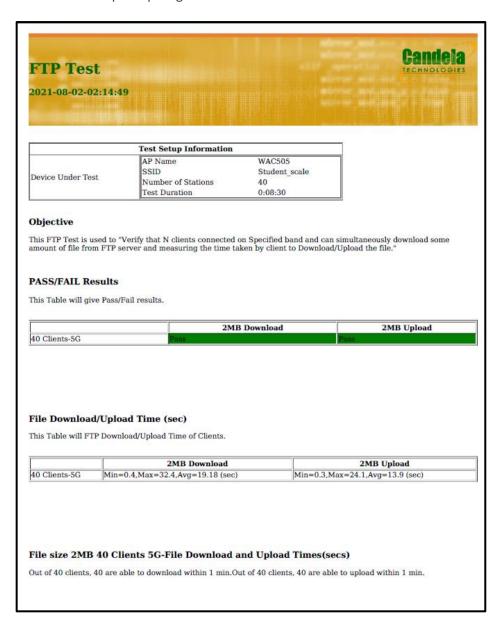
4) After execution of script results can be seen on the html-reports directory

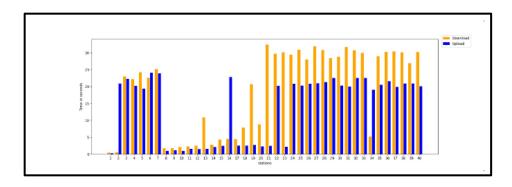
`~ /home/lanforge/html-reports/FTP-Test

Pdf report (report.pdf) and html reports (report.html) can be found inside execution date folder

### 4. Results

Screenshot of pdf report generation is shown below





## 5. Contact

Visit - <a href="https://www.candelatech.com/">https://www.candelatech.com/</a>

For any support related help contact - <a href="mailto:support@candelatech.com">support@candelatech.com</a>