

Following are the check points for verifying TP Link radio link parameters

> On Home page following parameters can be seen.

- Radio Firmware
- Frequency
- Channel Width
- Output Power

Radio Firmware

The firmware of TP link Radio must be updated as following

✓First Login the radio and go to System Tab showing in Firmware Update option.

Current Firmware

For TPLink 510 Latest Firmware “**CPE510-ID-3.0-up-ver2-1-6-P1-20190712-rel55120**”

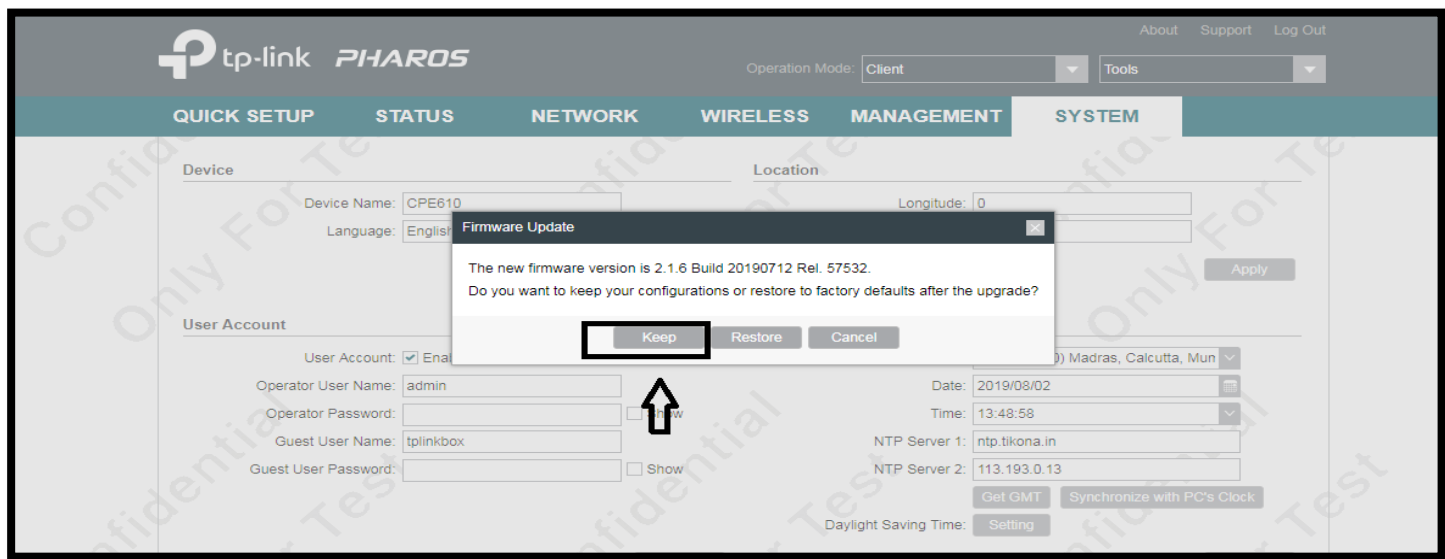
For TPLink 610v1 Latest Firmware “**CPE610-ID-1.0-up-ver2-1-6-P1-20190712-rel57532**”

For TPLink 610v2 Latest Firmware “**CPE610-ID-2.0-up-ver2-1-6-P1-20190712-rel54092**”

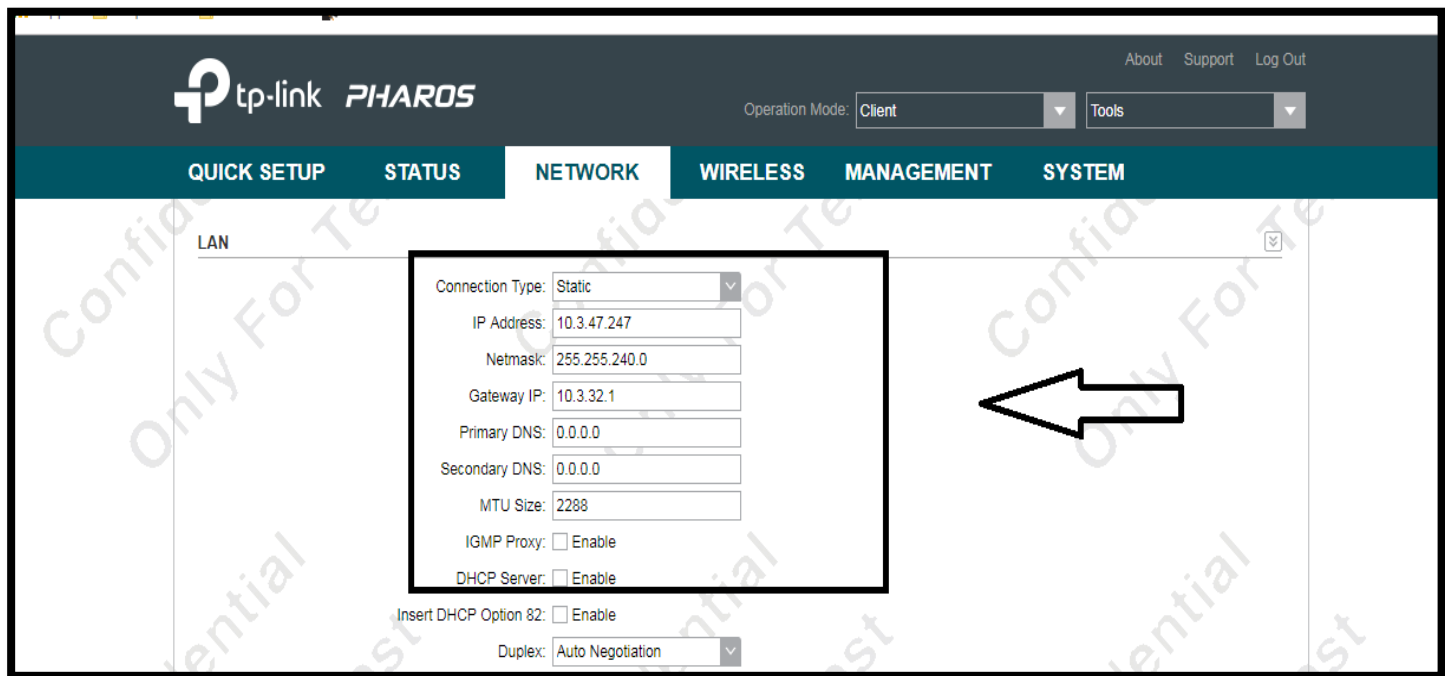
The screenshot displays the TP-Link radio configuration web interface with the **SYSTEM** tab selected. The interface is divided into several sections:

- Device:** Includes fields for Device Name (CPE610) and Language (English), with an **Apply** button.
- Location:** Includes fields for Longitude (0) and Latitude (0), with an **Apply** button. An arrow points to this section.
- User Account:** Includes a checkbox for **User Account: Enable**, and fields for Operator User Name (admin), Operator Password, Guest User Name (tplinkbox), and Guest User Password, with **Show** and **Apply** buttons.
- Time Setting:** Includes a **Time Zone** dropdown, **Date** and **Time** dropdowns, **NTP Server 1** and **NTP Server 2** fields, **Get GMT** and **Synchronize with PC's Clock** buttons, and a **Daylight Saving Time** **Setting** button.
- Firmware Update:** Includes a **Firmware Version** field showing "2.1.1 Build 20190524 Rel. 57259 (0000)", an **Upload Firmware** field, and **Browse** and **Upload** buttons. An arrow points to this section.

✓ At the time of up gradation it will ask 3 Options (Keep/Restore/Cancel) **Click on Keep.**



✓ Deployment of TP Link Radio Near End should be configured as Access point & Far End Radio as Client, in network mode configure IP address, Net mask, Gateway IP on both end.



Please select Management Interface VLAN ID 96 on both End Radio in all City except **Mumbai City**

QUICK SETUPSTATUSNETWORKWIRELESSMANAGEMENTSYSTEM

LAN

Connection Type:Static

IP Address:10.3.47.247

Netmask:255.255.240.0

Gateway IP:10.3.32.1

Primary DNS:0.0.0.0

Secondary DNS:0.0.0.0

MTU Size:2288

IGMP Proxy:☐ Enable

DHCP Server:☐ Enable

Insert DHCP Option 82:☐ Enable

Duplex:Auto Negotiation

Management VLAN Interface

Management Interface:☒ Enable

VLAN ID:96

Apply

Apply

Frequency Change

✓ **Far end (Client)Radio**

Select Channel Width and Frequency Tab

>At the time of frequency change to check on Client end scan range should be disable, Power Should be 10 dbm, Channel width 20/40 MHz.

QUICK SETUPSTATUSNETWORKWIRELESSMANAGEMENTSYSTEM

Basic Wireless Settings

Region:Tikona India

Mode:802.11a/n

Channel Width:20/40MHz

Max TX Rate:MCS15 - 270/300 Mbps

Channel/Frequency:Auto

Antenna:23dBi

EIRP Limit:☒ Enable

Transmit Power:10 dBm

MAXtream:☐ Enable

MAXtream Station Mode:Auto Adjust

Wireless Client Settings

Wireless Radio:☒ Enable

SSID of AP:m1-mallesh_00d0d0

Scan Range:☐ Enable

MAC of AP:BU-BE-76-34-61-6A

☒ Lock to AP

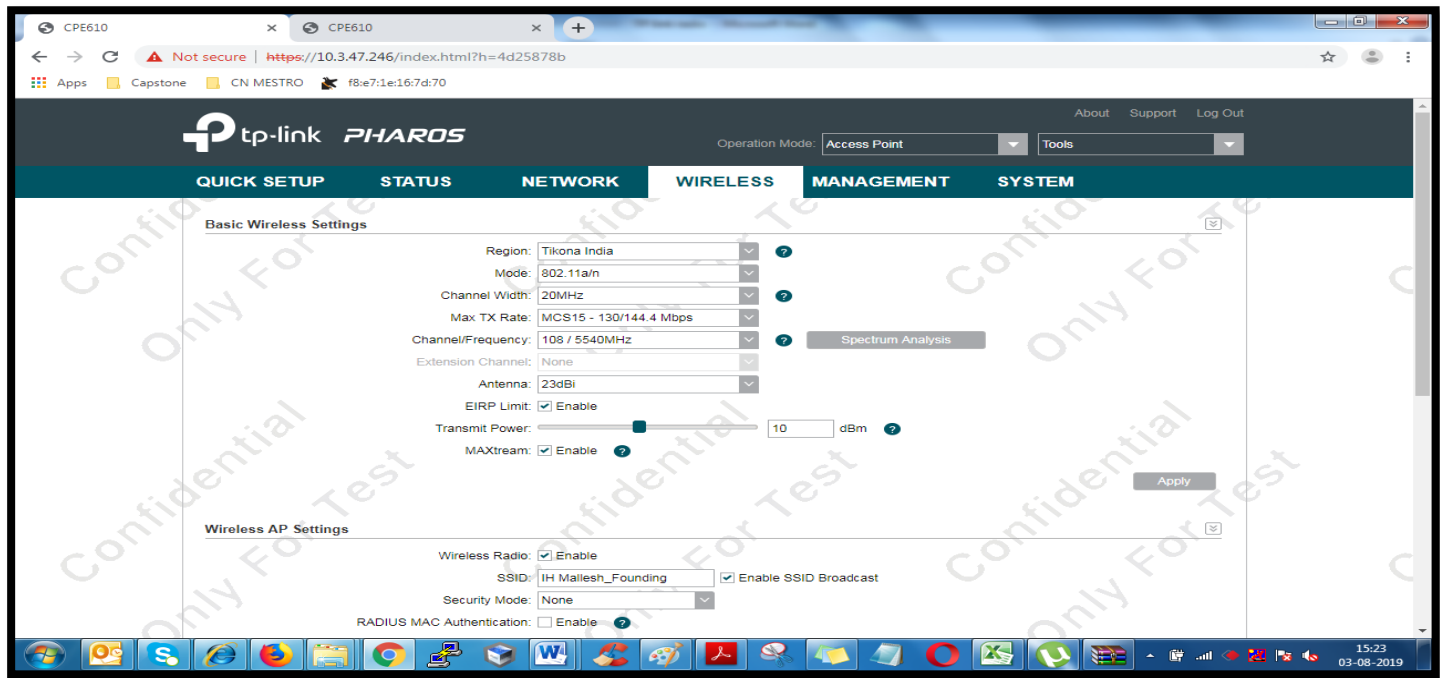
Apply

Survey

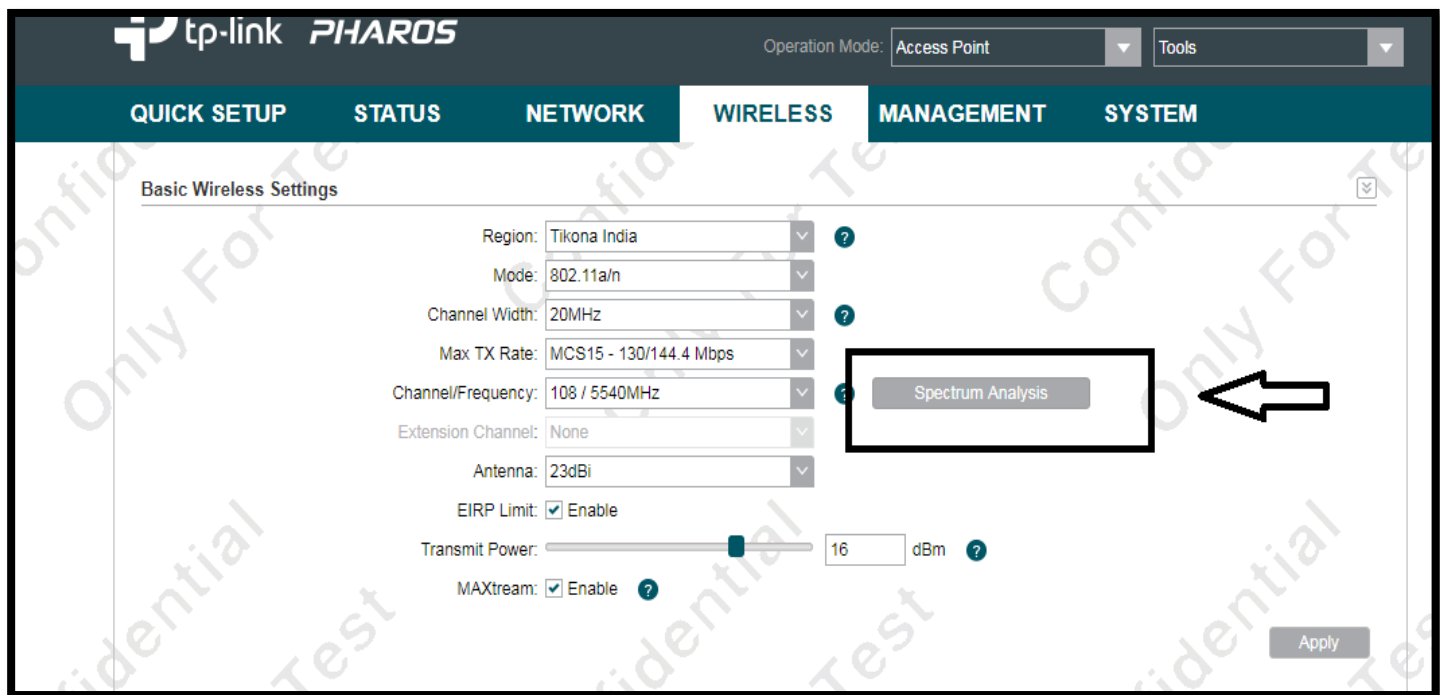
✓ **Near End Radio**

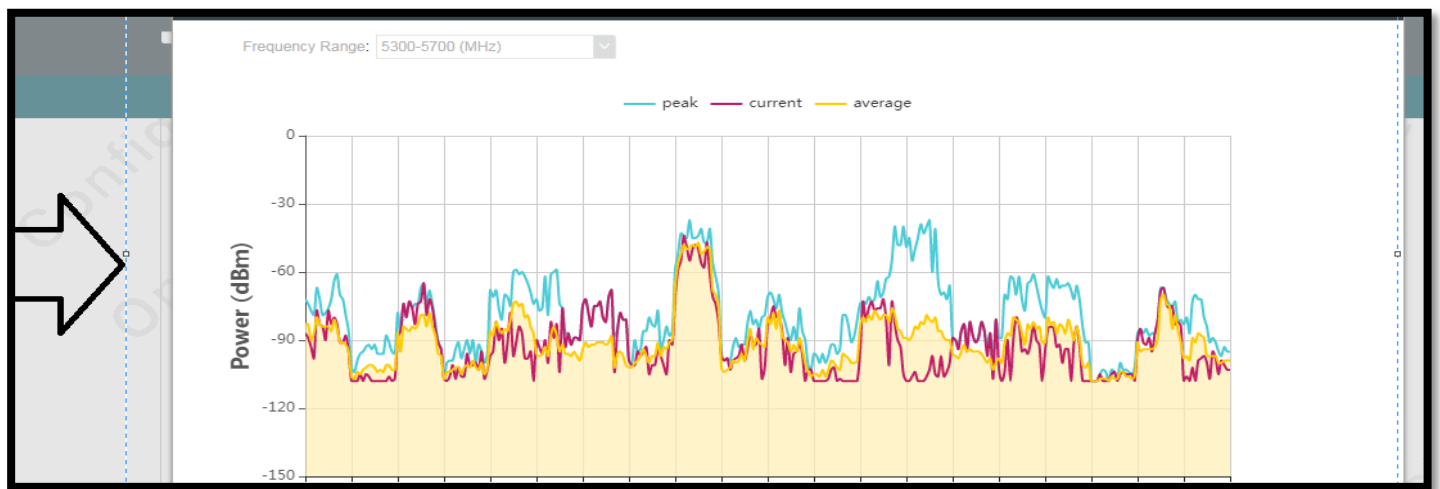
Select Channel Width and Frequency Tab

On Frequency changing time to check Channel width is 20 MHz on Access point then change frequency.
ENT Frequency range **5470 to 5570** (point to point only).



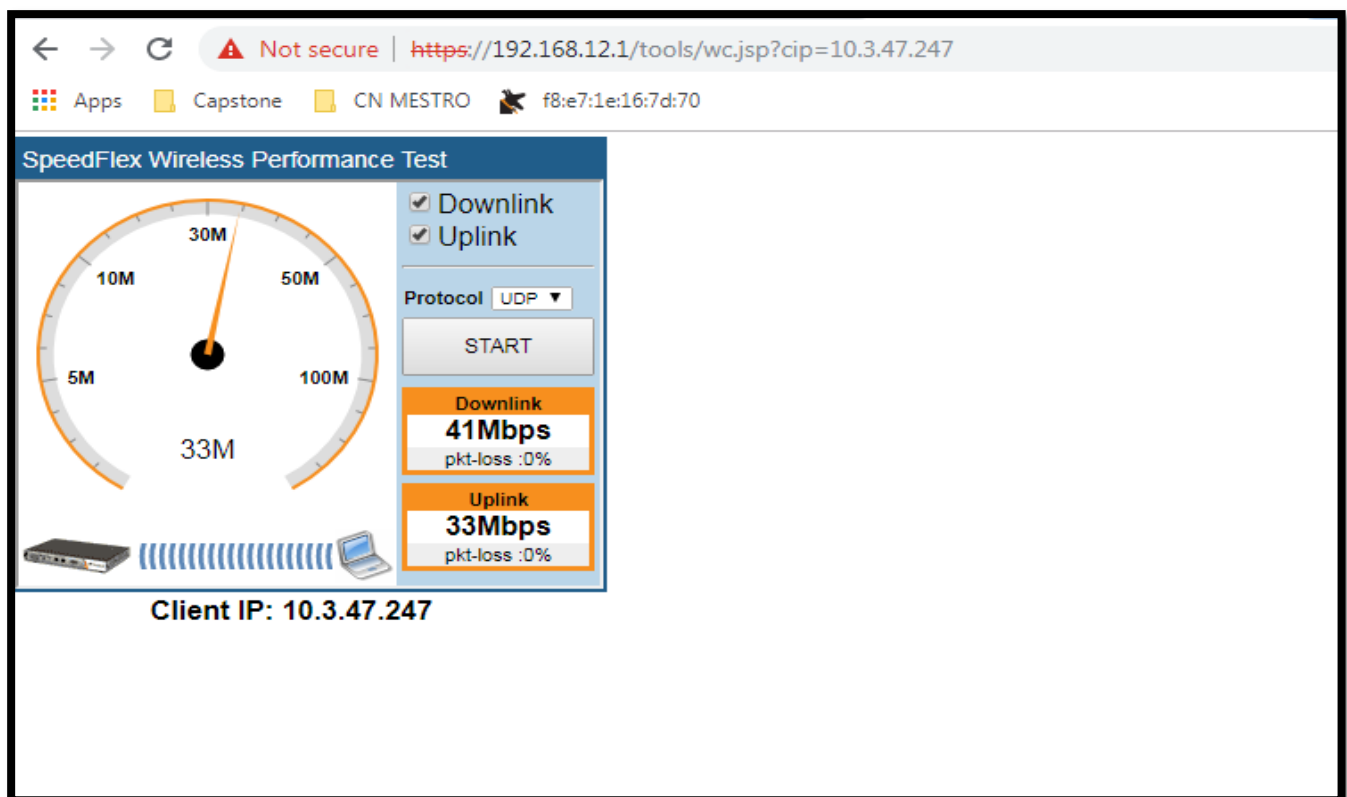
✓ Before Frequency changing to check free band by using Spectrum Analyser To select Enterprise band 5470 to 5570 and learn Spectrum Analyser





Note –In graph Shows power below -80 dbm is better Frequency

✓after changing radio parameter to check radio speed test by using ZDE Link (City wise).



Vlan Tagged

✓ Add Vlan Tagging.

Kindly note :-Select **VLAN Tagged** option in all city except Mumbai City.
Kindly select **Wifi** option on Mumbai City

QUICK SETUPSTATUSNETWORKWIRELESSMANAGEMENTSYSTEM

Basic Wireless Settings

Region: Tikona India

Mode: 802.11a/n

Channel Width: 20/40MHz

Max TX Rate: MCS15 - 270/300 Mbps

Channel/Frequency: Auto

Antenna: 23dBi

EIRP Limit: ☒ Enable

Transmit Power: 10 dBm

MAXtream: ☐ Enable

MAXtream Station Mode: Auto Adjust

Spectrum Analysis

Apply

Other City-

MAC of AP2:

MAC of AP3:

AP Scan Interval: 15 (2-600min)

Beacon Miss/Timeout Count: 90 (90-600s)

VLAN ID: 103

Management Over Wireless: **VLAN Tagged**

WDS: Auto

Security Mode: None

Backup SSID of AP:

Fallover Timeout: 0 (0-720)min

Scan Range: ☐ Enable

MAC of AP: Lock to AP

VLAN ID: 0

Management Over Wireless: Disable

WDS: Auto

Security Mode: None

Apply

Mumbai City-

SSID of AP:

Scan Range: ☐ Enable

MAC of AP1:

MAC of AP2:

MAC of AP3:

AP Scan Interval: (2-600min)

Beacon Miss/Timeout Count: (90-600s)

VLAN ID:

Management Over:

WDS:

Security Mode:

Backup SSID of AP:

Fallover Timeout: (0-720)min

Scan Range: ☐ Enable

MAC of AP:

VLAN ID:

Management Over:

WDS:

Basic Parameter

✓Enter DNS 1 & DNS 2 (Respective City wise DNS).

tp-link

PHAROS

Operation Mode: Client Tools

QUICK SETUPSTATUSNETWORKWIRELESSMANAGEMENTSYSTEM

LAN

Connection Type: Static

IP Address: 10.3.47.247

Netmask: 255.255.240.0

Gateway IP: 10.3.32.1

Primary DNS: 0.0.0.0

Secondary DNS: 0.0.0.0

MTU Size: 2288

IGMP Proxy: Enable

DHCP Server: Enable

Insert DHCP Option 82: Enable