




Configuring a TPLINK Router

TP Link **TL-WR740N** / **TL-WR741ND** Basic Configuration
Steps

Configuring Your Router

STEP 1 (a): Connect Your PC to the Router

- Unbox the router and power up the router.
- Connect the Act internet cable to the WAN/Internet port(different coloured port) of the router.
- An extra LAN cable will be available with the router, take LAN cable connect one end to the LAN port(1-4) of the router(any one port) and one end to the PC or Laptop.
- In the system press  key & R key together  +  to open Run dialog box.
- Type ipconfig on the command prompt(Black screen) . The default gateway of the LAN or Ethernet adapter will be the Router address. (Ex:192.168.0.1)

```
C:\Users\USER>ipconfig
Windows IP Configuration

Wireless LAN adapter Wireless Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . : ATRIA

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . :
    IPv4 Address. . . . . : 192.168.1.101
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1
```



STEP 1 (b): Connect Your Mobile

- Switch on the router and connect ACT internet cable to the WAN/Internet port of the router
- Go to setting in the Mobile, turn on Wi-Fi and wait until the mobile detects router name press the router name to connect.
- If the router is already configured and the Wi-Fi password is known then go to settings in the Mobile
- Under “Wireless and Networks”, press Wi-Fi make sure "Wi-Fi" is turned on.
- Wait until the mobile detects router name press the router name if prompted enter the Wi-Fi password and press Connect.

NOTE

- Every Router Configuration has two parts
 - Configuring the Internet Part, where we tell the Router how to connect to the internet.
 - Configuring the Wi-Fi Part, where we decide the name and password with which we connect to the Router
- Internet Configuration shown here will guide to Configure the Router in PPPoE.
 - This will enable you to browse internet directly, every time you connect to the router. No need to login again and again.
- Wi-Fi Configuration has also been given, in order to ease the process of you connecting to the Router
 - SSID and Password Creation have been explained\
 - Few high end routers have two bands to work on – 2.4 GHz and 5 GHz
 - 2.4 GHz band provides higher range, but lesser speed.
 - 5 GHz band provides lower range, but higher speed.
 - Changing Different Wi-Fi Channels – Helps in reducing Slow Speed Issues.

STEP 2: Logging into the Router

- Open a browser → Enter the below IP Address in the Address Bar. A login page appears. The usual usernames and passwords are given in the table below.

Router Name	IP Address	Username	Password
Cisco or Linksys	192.168.1.1	admin	admin
D-Link	192.168.0.1	admin	(blank)
TP-Link	192.168.0.1	admin	admin
Net gear	192.168.1.1	admin	password
Belkin	192.168.2.1	Click on Login in Home	(blank)
Tenda	192.168.0.1	admin	admin
i-Ball Baton	192.168.1.1	admin	admin
Digisol	192.168.2.1	admin	1234 or admin
Asus	192.168.1.1	admin	admin

- If all the above credentials do not work, please check the back of the router where the username and password will be mentioned.

STEP 3(a): Internet Connectivity – PPPoE Configuration

Step 1 : Open any web browser

Step 2 : Type Router page address on the address bar(192.168.0.1)

Step 3 : Login with credentials

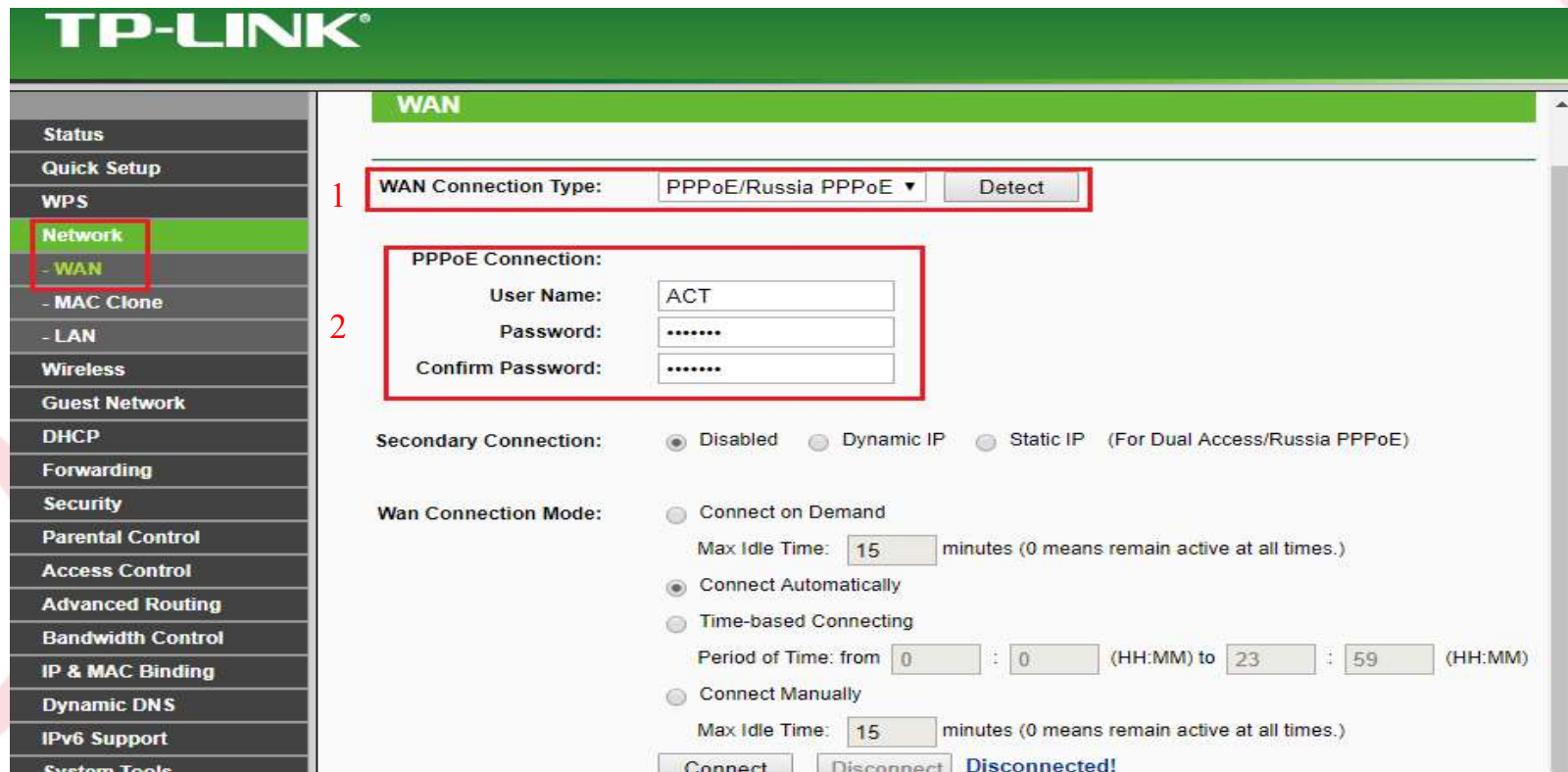


STEP 3(b): Internet Connectivity – PPPoE Configuration

Step 1: Enter the portal username in the PPPoE username field

Step 2: Enter the portal password in the PPPoE password

Step 3: Click on ok



The screenshot shows the TP-LINK WAN configuration page. The left sidebar contains a menu with the following items: Status, Quick Setup, WPS, Network (highlighted in green), - WAN (highlighted in red), - MAC Clone, - LAN, Wireless, Guest Network, DHCP, Forwarding, Security, Parental Control, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, Dynamic DNS, IPv6 Support, and System Tools. The main content area is titled 'WAN' and contains the following configuration options:

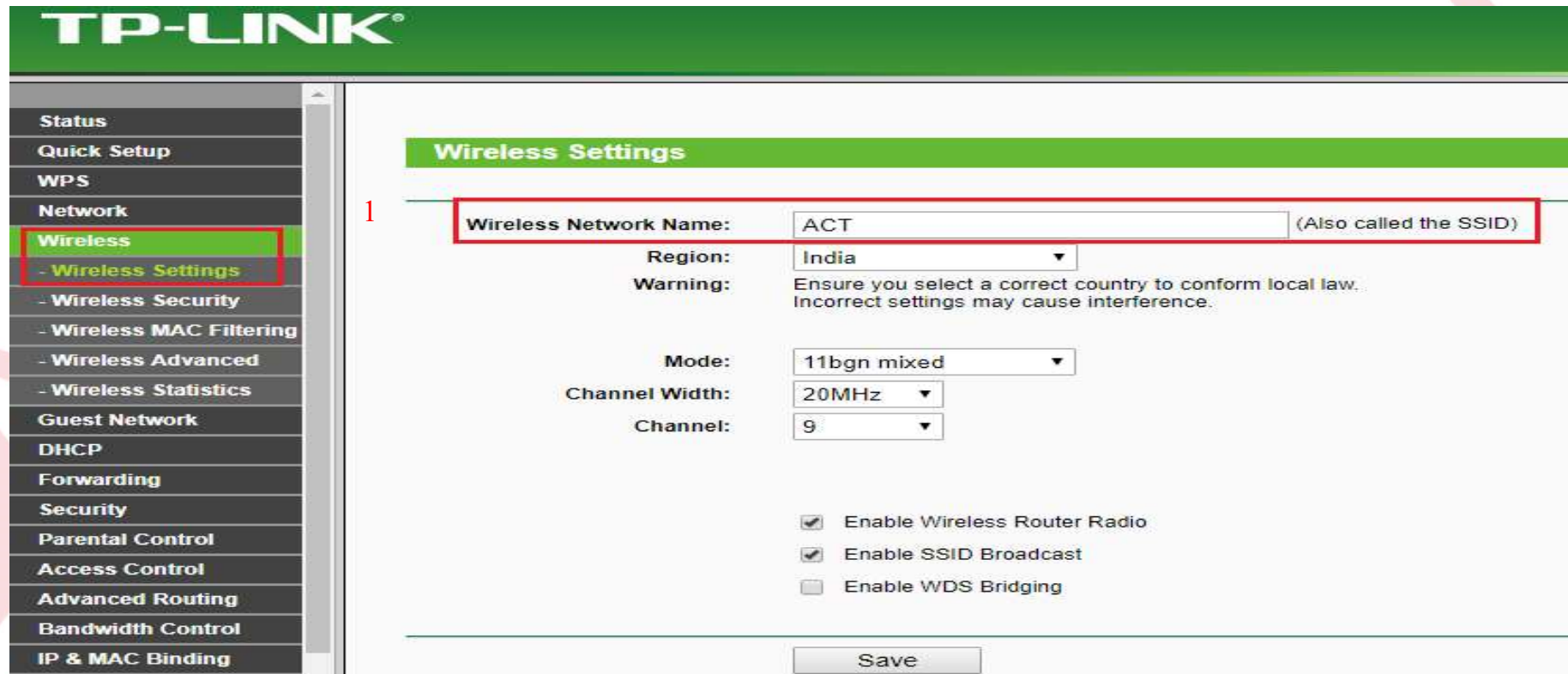
- WAN Connection Type:** A dropdown menu is set to 'PPPoE/Russia PPPoE' and is highlighted with a red box and the number '1'. A 'Detect' button is next to it.
- PPPoE Connection:** A section highlighted with a red box and the number '2' containing three input fields: 'User Name' (containing 'ACT'), 'Password' (containing '*****'), and 'Confirm Password' (containing '*****').
- Secondary Connection:** Radio buttons for 'Disabled' (selected), 'Dynamic IP', and 'Static IP' (For Dual Access/Russia PPPoE).
- Wan Connection Mode:** Radio buttons for 'Connect on Demand', 'Connect Automatically' (selected), and 'Time-based Connecting'. Below 'Connect on Demand' is a 'Max Idle Time' field set to '15' minutes. Below 'Time-based Connecting' is a 'Period of Time' field set to 'from 0 : 0 (HH:MM) to 23 : 59 (HH:MM)'. Below 'Connect Manually' is another 'Max Idle Time' field set to '15' minutes.
- At the bottom, there are 'Connect' and 'Disconnect' buttons, and the status is shown as 'Disconnected!'.

STEP 4(a): Wi-Fi Connectivity – Router SSID/Password Configuration

Step 1: Type in your preferred Wi-Fi name in SSID(Network name dialog box)

Step 2: All the remaining field are set by default

Step 3: click on ok



The image shows the TP-LINK router configuration interface. The left sidebar contains a menu with the following items: Status, Quick Setup, WPS, Network, **Wireless**, - Wireless Settings, - Wireless Security, - Wireless MAC Filtering, - Wireless Advanced, - Wireless Statistics, Guest Network, DHCP, Forwarding, Security, Parental Control, Access Control, Advanced Routing, Bandwidth Control, and IP & MAC Binding. The 'Wireless' menu item is highlighted in green, and the '- Wireless Settings' sub-item is highlighted in red. The main content area is titled 'Wireless Settings' and contains the following fields and options:

- Wireless Network Name:** ACT (Also called the SSID)
- Region:** India
- Warning:** Ensure you select a correct country to conform local law. Incorrect settings may cause interference.
- Mode:** 11bgn mixed
- Channel Width:** 20MHz
- Channel:** 9
- Enable Wireless Router Radio
- Enable SSID Broadcast
- Enable WDS Bridging

A red box highlights the 'Wireless Network Name' field, and a red number '1' is placed to its left. A 'Save' button is located at the bottom of the configuration area.

STEP 4(b): Wi-Fi Connectivity –Password Configuration

Step 1: Click on security mode dialog box and select WPA2–PSK(Recommended).

Step 2: To configure a wireless Password

Step 3: Click OK



The screenshot shows the TP-LINK web interface for configuring wireless security. The left sidebar contains a navigation menu with the following items: Status, Quick Setup, WPS, Network, **Wireless**, - Wireless Settings, **- Wireless Security**, - Wireless MAC Filtering, - Wireless Advanced, - Wireless Statistics, and Guest Network. The main content area is titled "Wireless Security" and features three radio button options: "Disable Security", "WPA/WPA2 - Personal(Recommended)", and "WPA/WPA2 - Enterprise". The "WPA/WPA2 - Personal(Recommended)" option is selected and highlighted with a red box labeled "1". Below this, the "Version:" dropdown is set to "WPA2-PSK" and the "Encryption:" dropdown is set to "AES". The "Wireless Password:" field contains the text "tplinkpassword" and is highlighted with a red box labeled "2". A note below the password field states: "(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)". At the bottom, the "Group Key Update Period:" is set to "0" seconds.

TP-LINK®

Wireless Security

Disable Security

1 **WPA/WPA2 - Personal(Recommended)**

Version: WPA2-PSK ▼

Encryption: AES ▼

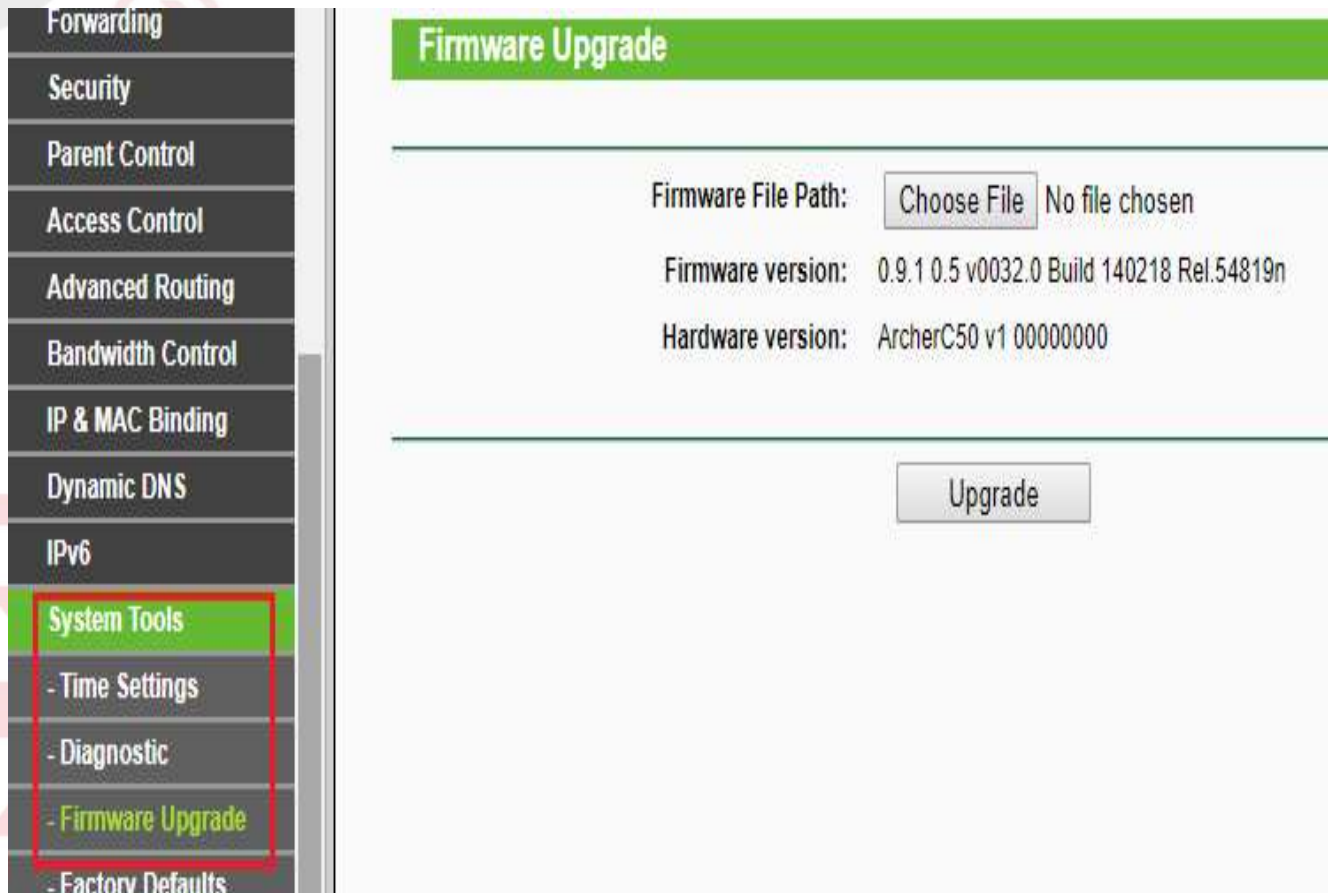
2

(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: Seconds

STEP 5 (As and when required): Firmware upgrade

System Tools > firmware upgrade > upload the new firmware file > upgrade firmware



The screenshot shows a web interface for firmware upgrade. On the left is a sidebar menu with the following items: Forwarding, Security, Parent Control, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, Dynamic DNS, IPv6, System Tools (highlighted in green), - Time Settings, - Diagnostic, - Firmware Upgrade (highlighted in green), and - Factory Defaults. The main content area is titled "Firmware Upgrade" and contains the following information:

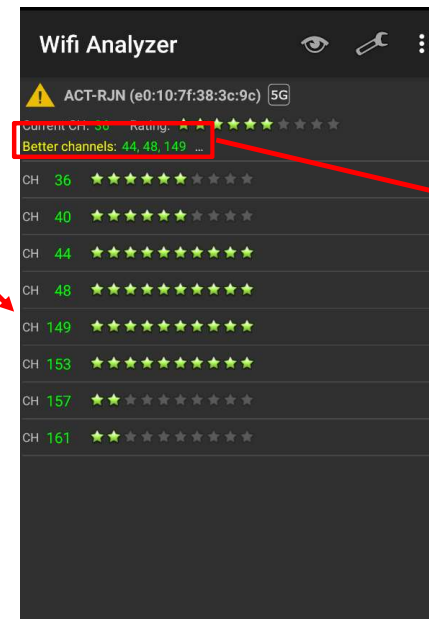
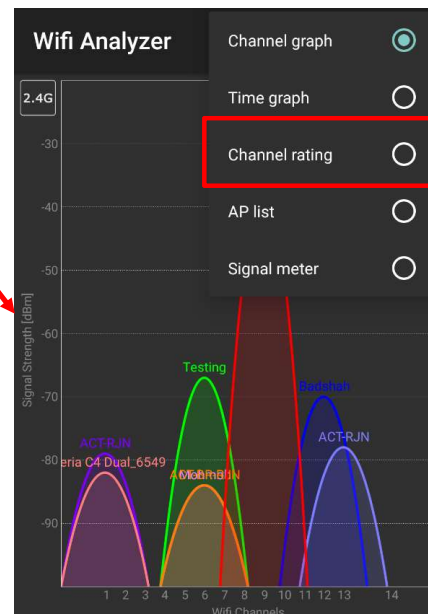
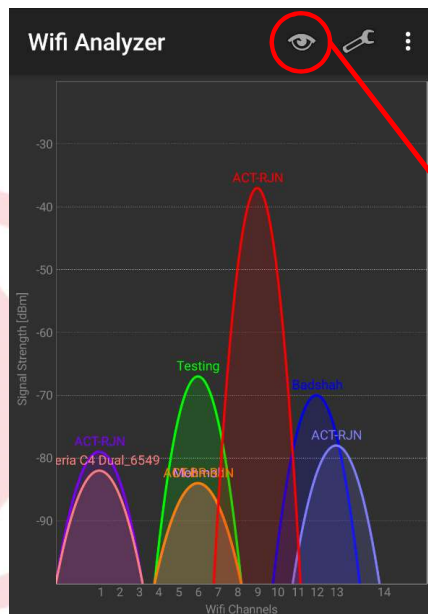
- Firmware File Path: No file chosen
- Firmware version: 0.9.1 0.5 v0032.0 Build 140218 Rel.54819n
- Hardware version: ArcherC50 v1 00000000

At the bottom of the main content area is an button.

You can choose to download a Firmware version and then upload it offline or choose to download directly from internet itself.

STEP 6: Channel Change (As and when required)

- Channels are the mediums through which your router transmits signals to other devices.
- There are several channels that one can choose from, based on the Frequency at which your router works (Bands – 2.4 GHz) and the premises.
 - Step A: Download any Wi-Fi Analyzer software from Internet (It is a Freeware).
 - Step B: Choose to view different channels. We have provided an Example for better understanding.
 - Step C: Channel numbers for 2.4 GHz will be in the range of 1 to 14
 - Step D: Wi-Fi analyzer will show which channel is being utilized most and which one the least. Refer the example in the next slide. Choosing a channel with least utilization will give maximum advantage.



More Stars implies Lesser Utilization of Channel

Changes to be Made After Configuration

- If the Wi-Fi password is changed, we need to update the password in all the devices to get connected to the Internet.
- Changes in PC
 - **Windows 7:** Click on Windows button → click on Control Panel → click on Network and Internet → click on Network and Sharing Centre.
 - In the Tasks pane(Left side of screen), click Manage wireless networks
 - Right-click the router name → click Remove network → click on OK.
 - Click on Network icon(right bottom corner next to system Time), click on Router name and enter the new Wi-Fi password and Connect.

- Changes in PC

- **Win 8,8.1:** Click on Network icon(right bottom corner next to system Time), Right click on Router name click on “Forget this network”. Again click on Router name, enter the new Wi-Fi password and Connect.
- **Win 10:** Click on Network icon(right bottom corner next to system Time), click on Network settings under Wi-Fi click on Manage known Networks → Click on your Router name and Click on Forget, and again click on Network icon → click on Router name enter the new Wi-Fi password and Connect

- Mobile or Tablet

- Go to ‘Settings’ in Mobile, turn on Wi-Fi and long press on your Router name and press “Forget network”. Again press the router name. You will be prompted to enter the Wi-Fi password . Enter the Password and Connect.