DG-WA1102NPLV2

DIGISOL 2.4GHZ OUTDOOR ACCESS POINT

User Manual

V1.1
2018-12-18

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User Manual can be downloaded from www.digisol.com

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1 Product Information

Thank you for purchasing this Outdoor AP DG-WA1102NPLV2. This manual will instruct you how to configure and manage this AP, enable you to use it in a perfect status. After installing this AP, you will be able to enjoy surfing freely.

Please check the Package Contents before you use it:

DG-WA1102NPLV2

POE Adapter

Metal strap*1

Patch Cord

1.1 Hardware installation

1St: How to connect and power on the AP

- Interface Description

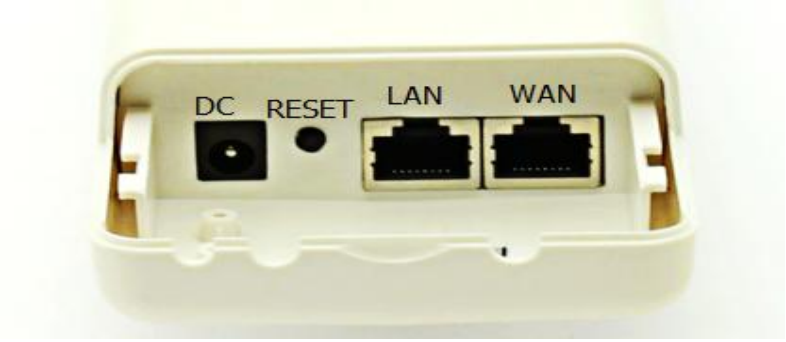

Fig. 1 Interfaces

Item	Description
Reset	Press it for 10-15 seconds, the AP will restore to factory default.
WAN	Connect with internet cable, in Wi-Fi Repeater, bridge, WISP operation mode, it change to LAN port.
LAN	Connect the AP with computer by LAN cable.
DC	For Power supply, the DC's electronic standard is 12V/24V.

- POE: This equipment can be powered over Ethernet, Connect AP's WAN/LAN Port with PoE adapter's POE port by LAN Cable (AP's LAN port and WAN port support the 12V/24V PoE.)

- Please refer **Fig. 2** for PoE Power and AP configuration

DG-WA1102NPLV2

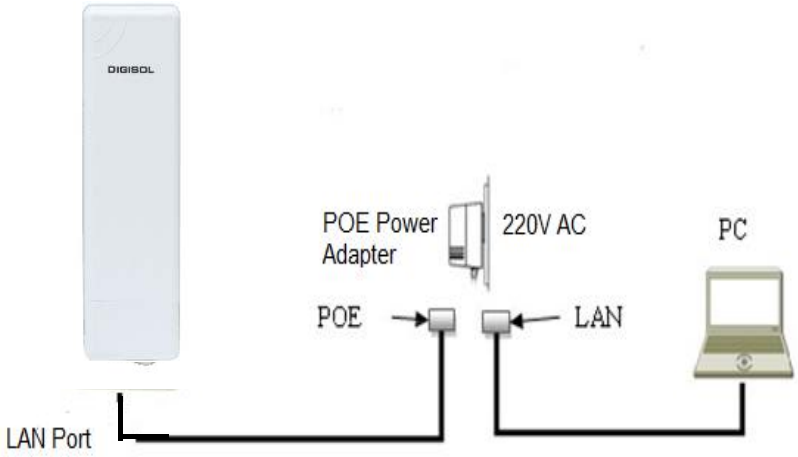

Fig. 2 Diagram of PoE Power and AP configuration

Attention	Please make sure our AP is working with included Power adapter or PoE adapter, and under right connection way, or the device will be damaged.

2nd: AP Start and Login

1) Power the AP as shown in Fig. 2

2) Set a fixed IP address for this computer: The default operation mode of this outdoor AP is Wireless AP, end users should set an IP address for the computer, then they can access the Outdoor AP by it's IP. Set the computer's IP address as 192.168.1.X (X is number between 1-252), make it same as AP's network segment, then set Subnet mask as 255.255.255.0, Default gateway leave it blank, and click OK.

A.: Please follow **Fig. 3** and **Fig. 4** for wired configuration.

Fig. 3 Configure the computer's IP address (by wired)

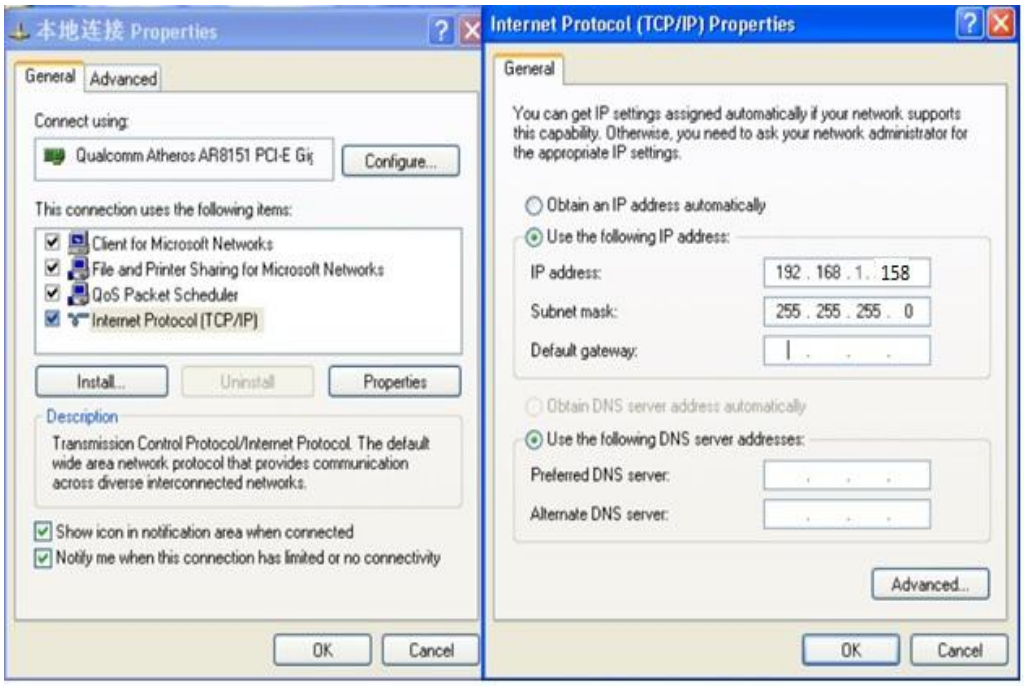

Fig. 4 Configure the computer's IP (by wired)

B. Please follow **Fig. 5** to configure the computer's IP address wirelessly.

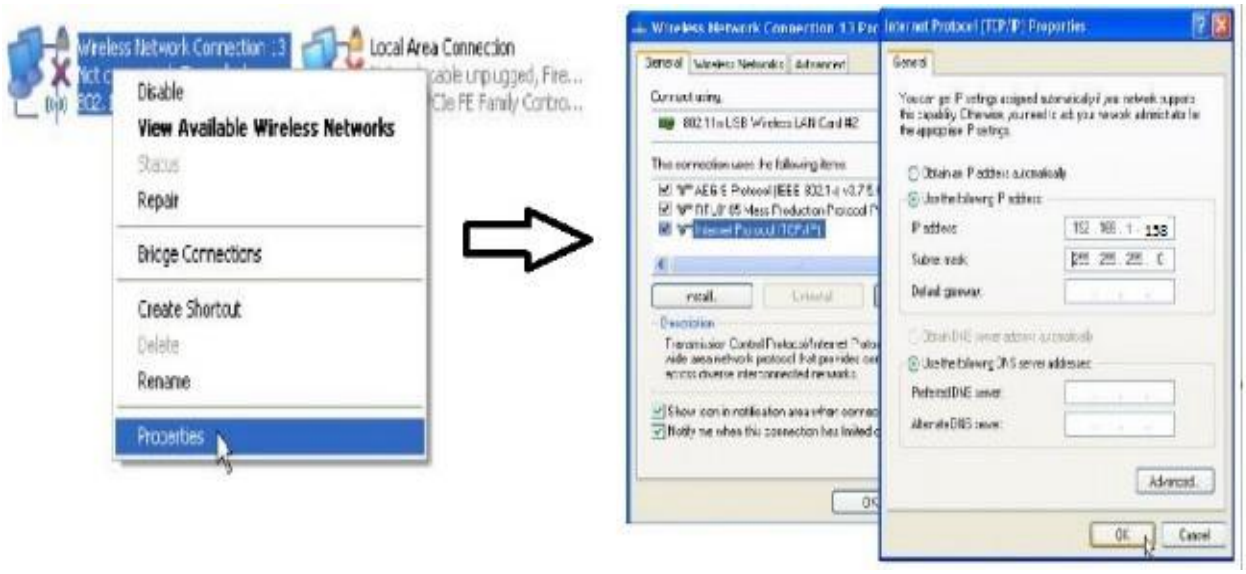

Fig. 5 Configure the computer's IP Address wirelessly

If you want to connect our AP wirelessly after IP address configuration, please right click on Wireless networking Connection, then View Available Wireless Networks. The default SSID is DG-WA1102NPLV2. Click Refresh network list, double click the correct SSID and input the password, if you have, then connect. Please refer to **Fig. 6** and **Fig. 7**

Fig. 6 AP Wireless Connection

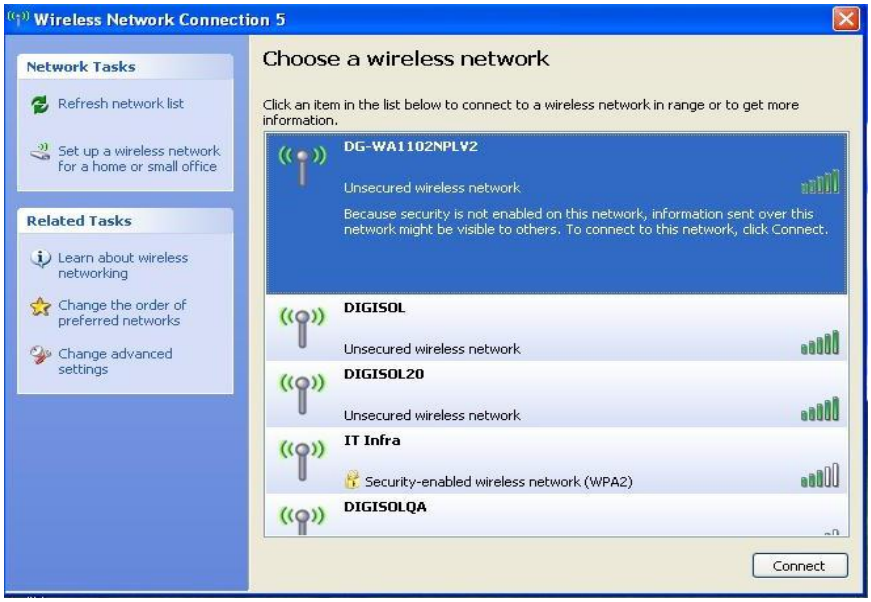

Fig. 7 AP Wireless Connection

Indicator

If your computer has built in 802.11b/g/n wireless adapter, but can't search the available wireless networking after refreshing, please contact the computer supplier or after-sale department after going through the following points:

Right click My Network Places, select Properties, appear Local Area Connection or Other Connection, No Wireless Network Connection

There is Wireless Network Connection in My Network Places, Show General and Advanced after right click Wireless Network Connection and select Properties, but no Wireless Network

Log in the AP: Open your web browser, type in **192.168.1.200** in the address bar, enter **admin** in password field to login.

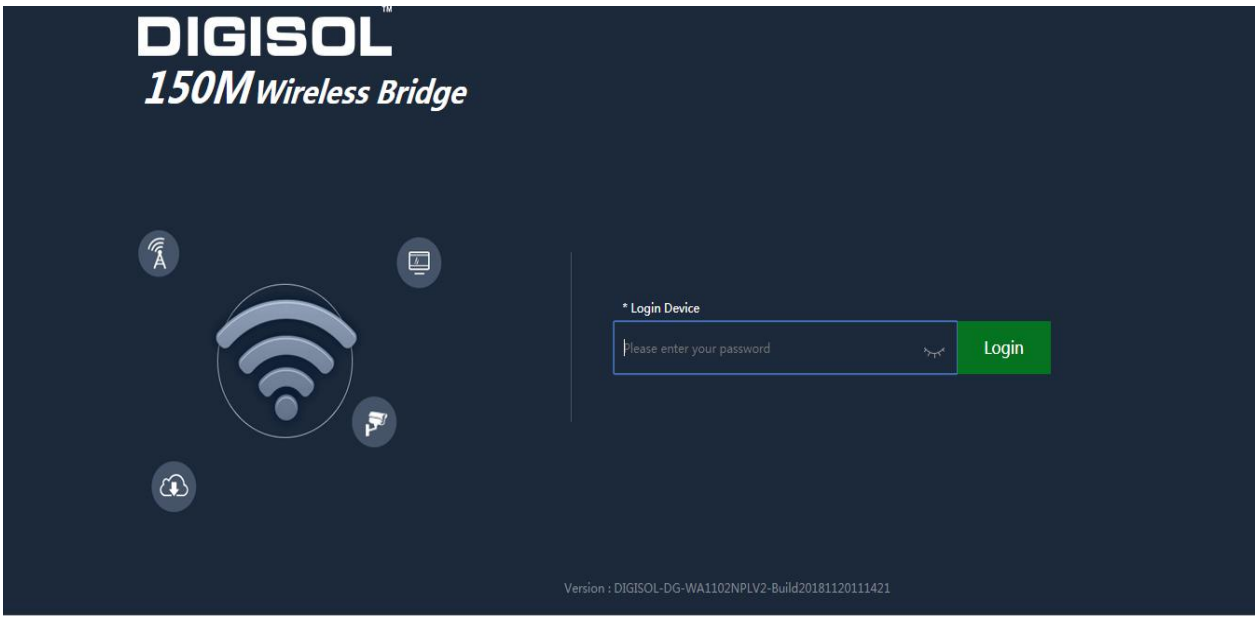

Fig. 8 Login

3rd: WEB GUI interface Setting:

1) Home

After login, as shown in **Fig. 9** Home page will be displayed. This page, will show the outdoor AP's Default Operation Mode, AP's Flow (Up Stream/ Down Stream), Device Information, Device Description, Lan Information, WiFi Information and AP's Hardware/Firmware Version.

Fig. 9 Status

In this Outdoor AP, the default operation mode is AP mode.

In Device Information you can find the CPU and Memory Usage of the AP as shown in **Fig. 10**

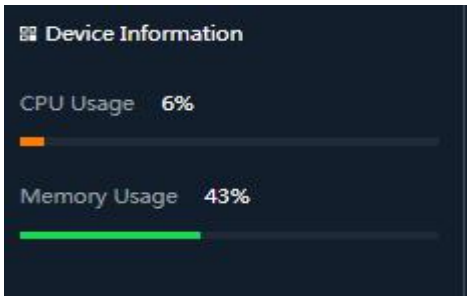

Fig. 10 Device Information

In Device Description you can add the APs description by clicking on Click Settings as shown **Fig. 11**

Fig. 11 Device Description

In LAN Information you can find the IP Mode, IP and MAC Address of the AP as shown in **Fig. 12**

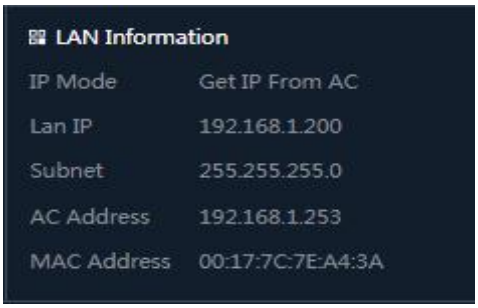

Fig. 12 Lan Information

In WiFi Information you can find the Status, SSID, Channel, Encryption and MAC Address of AP as shown in Fig 13

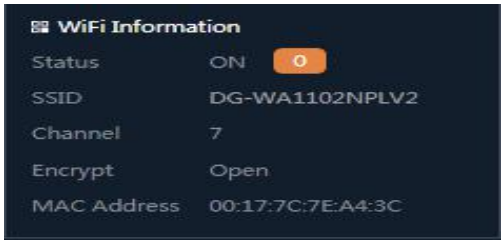

Fig. 13 WiFi Information

In Flow (2G Wifi) bps you can find the AP's Upstream and Downstream as shown in **Fig. 14**

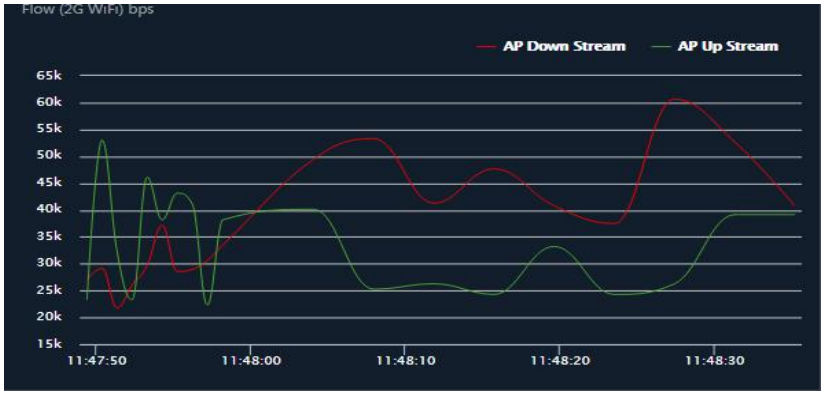

Fig. 14 Flow (2G Wifi) bps

2) Wizard Configuration:

Click on Wizard where you can choose among the five operation modes, explanation for each operation mode is provided for better application.

Fig. 15 Operation modes

I. Gateway Mode:

Click Gateway mode, the following pictures will pop up:

Please choose the right WAN setting mode, then click next to continue.

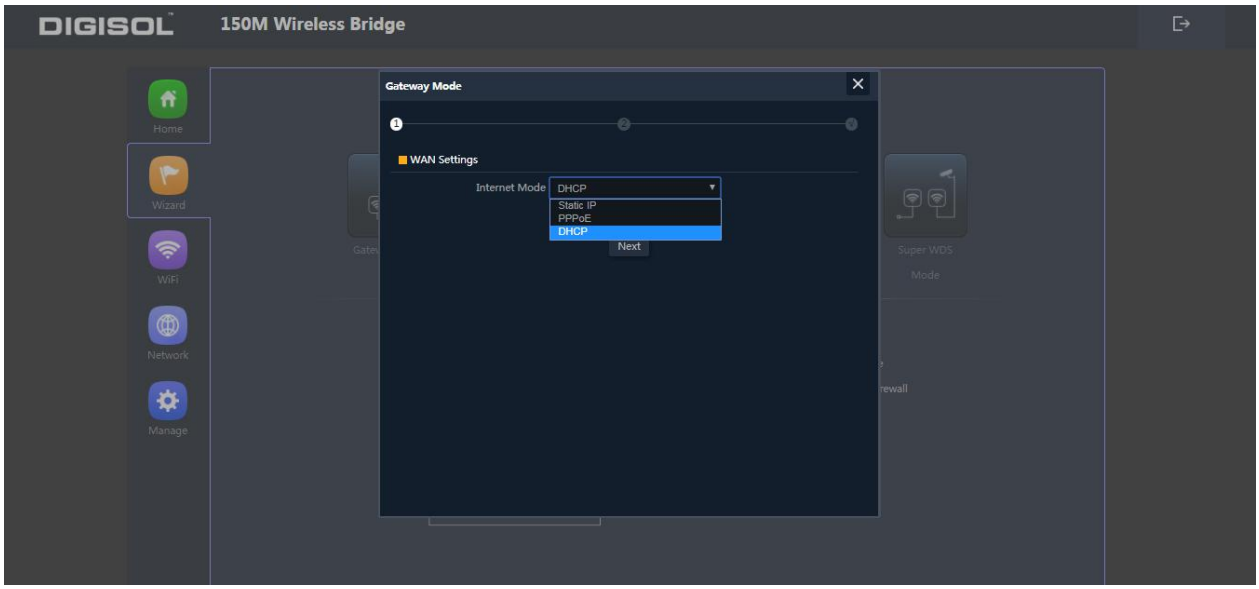

Fig 16. WAN setting in Gateway Mode

In next step you can disable/enable WiFi status, set the SSID, channel, encryption and set the timing.

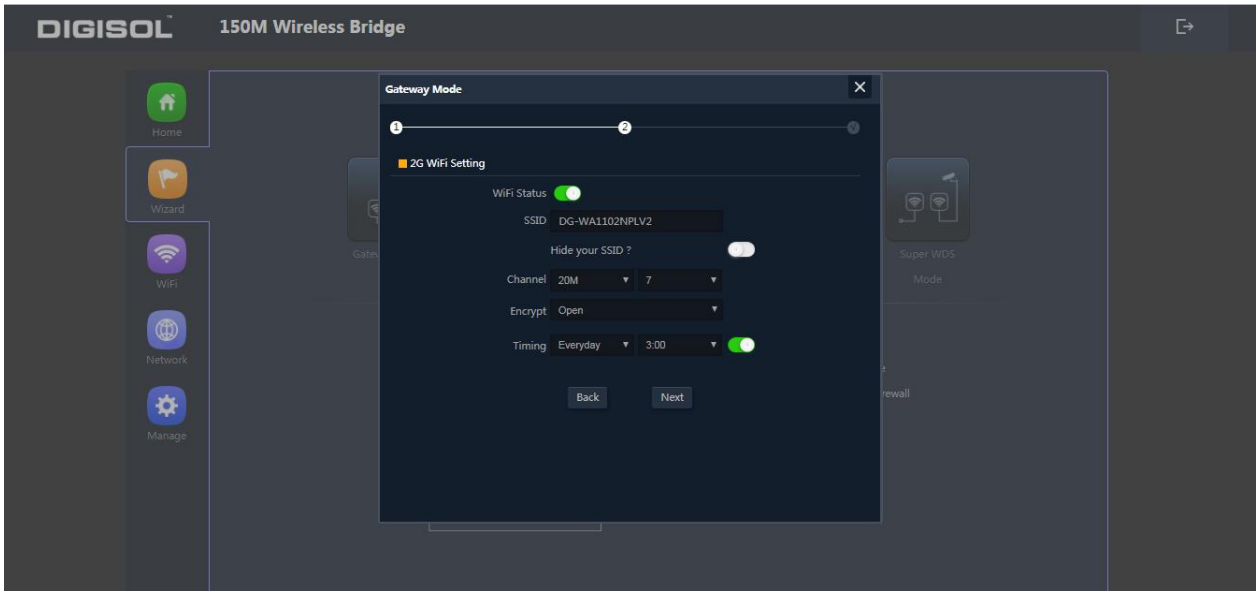

Fig. 17 Wireless Setting in Gateway Mode

When you click on Next the wizard for the Gateway mode is completed and the AP will reboot to apply the changes as shown below .

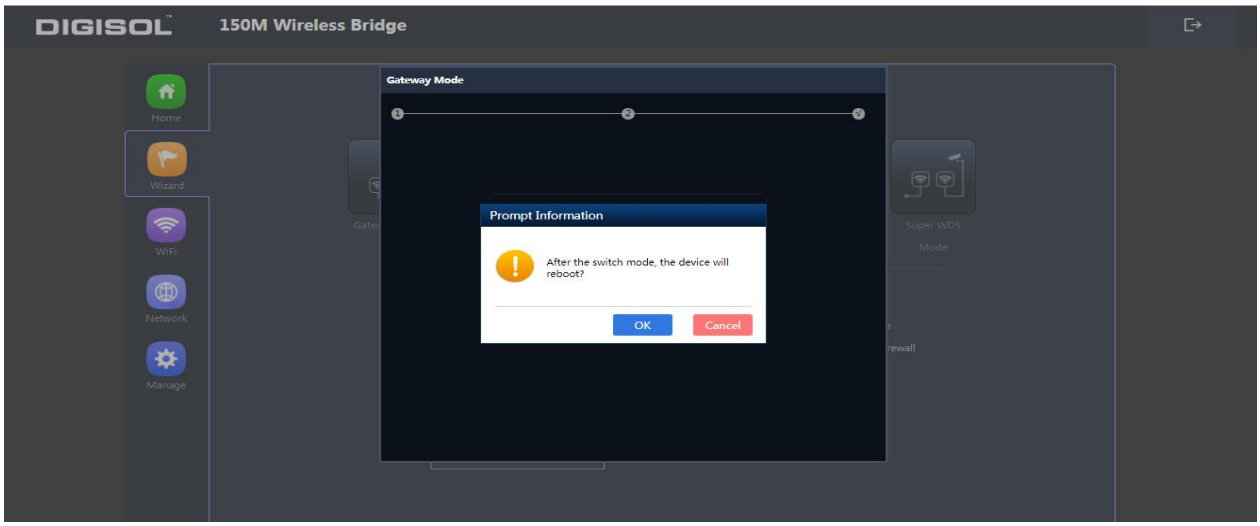

Fig. 18 Complete the setting in Gateway Mode

When you return to Home, the page as shown below appears:

Fig. 19 Status in Gateway Mode

II. Wi-Fi Repeater mode

Click Wi-Fi Repeater operation mode in Wizard, then following page will pop up, click on scan and choose the right SSID to bridge, then click next to setup the SSID this AP will broadcast. Once the SSID is setup click on next to complete the wizard.

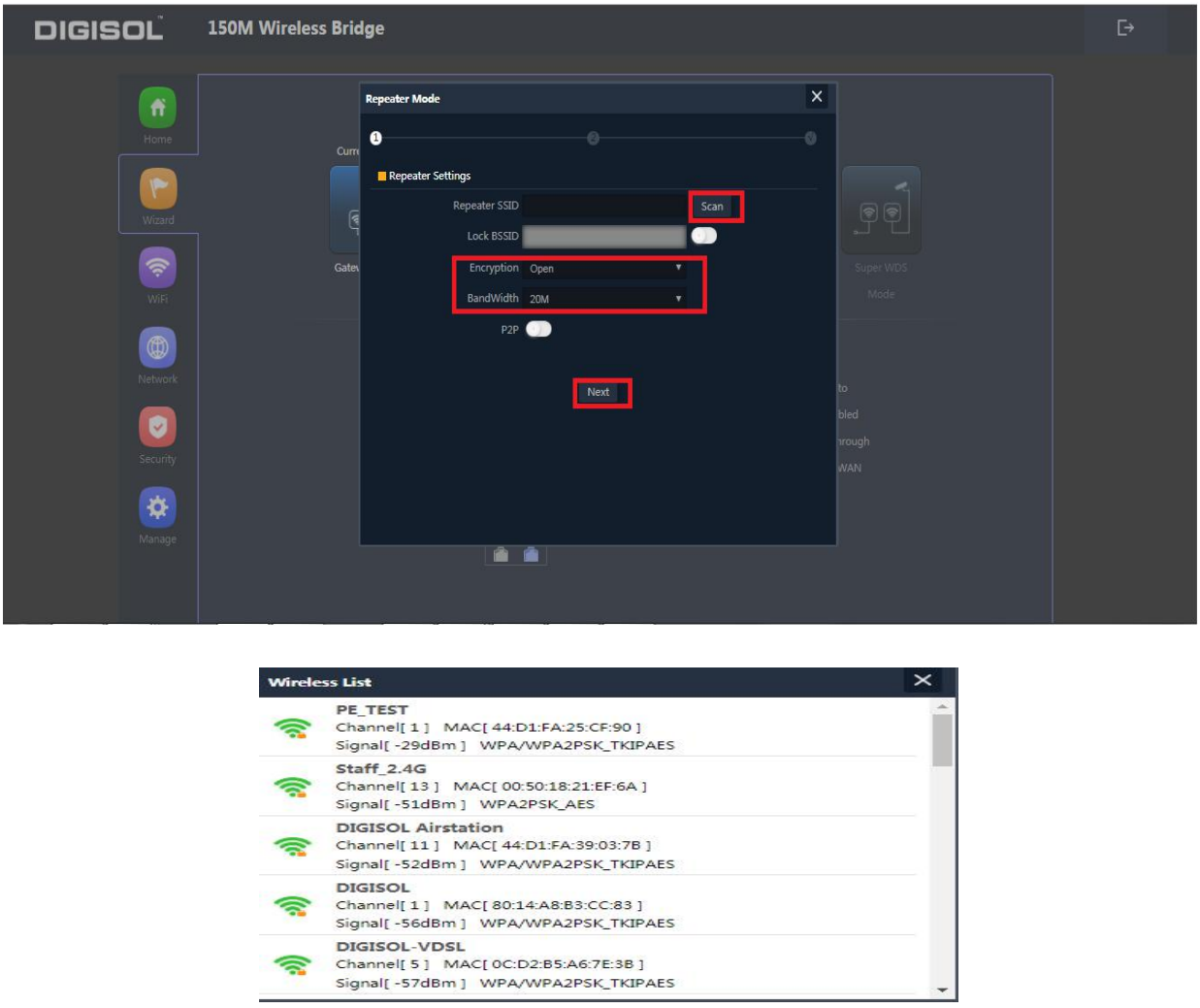

Fig. 20 Repeater Mode

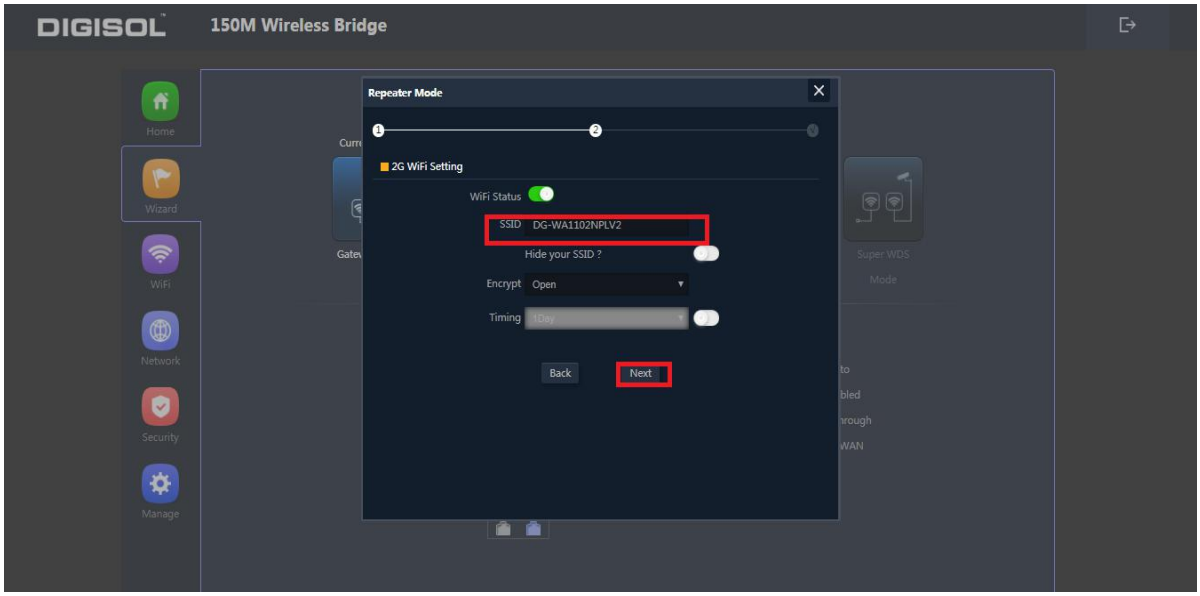

Fig. 21 Wireless Setting in Repeater Mode

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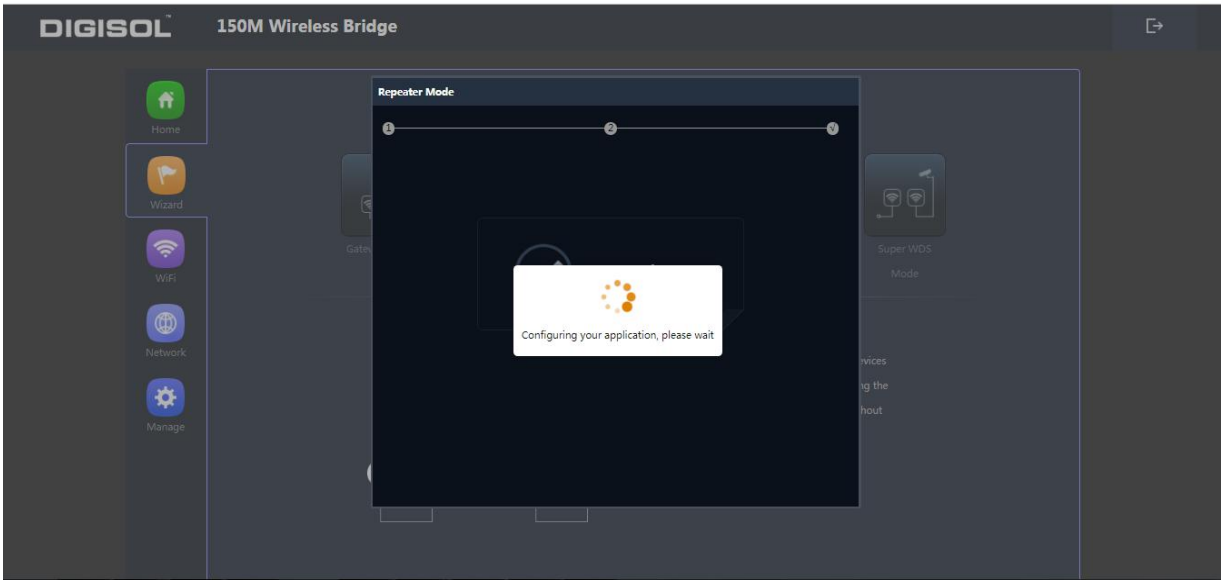

Fig. 22 Complete the setting in Repeater Mode

Once the configuration is completed it will redirect back to login page. You can see the status in Home page as shown below.

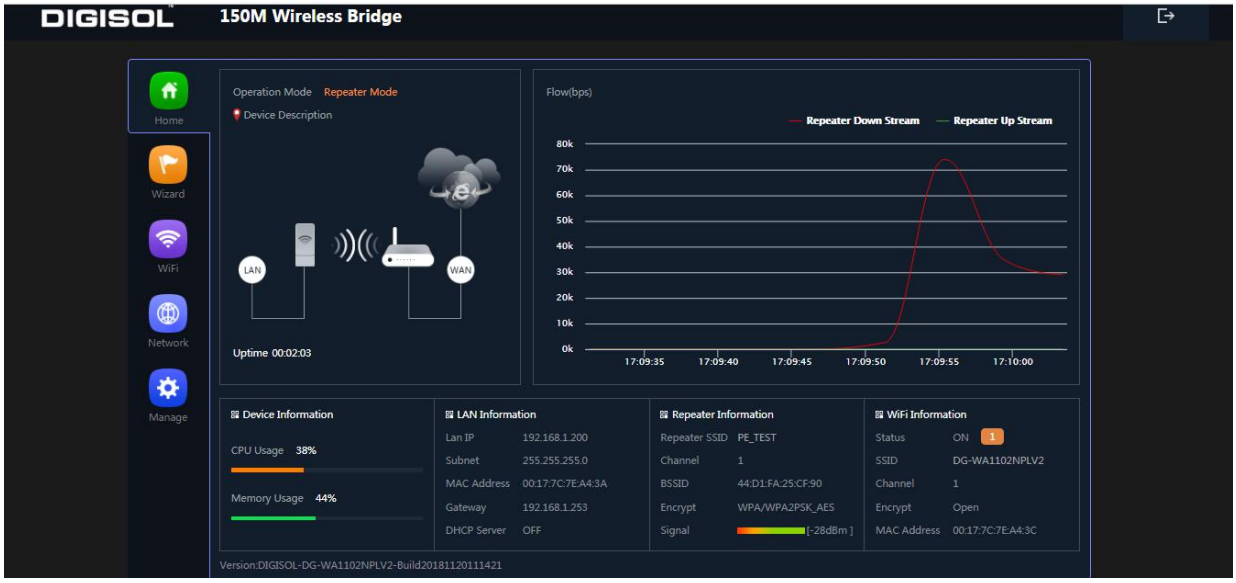

Fig. 23 Status in Repeater Mode

III. WISP Operation mode:

Click WISP operation mode in Wizard, then a pop up will appear where you can configure the AP. Please set the WISP operation mode based on the steps shown below:

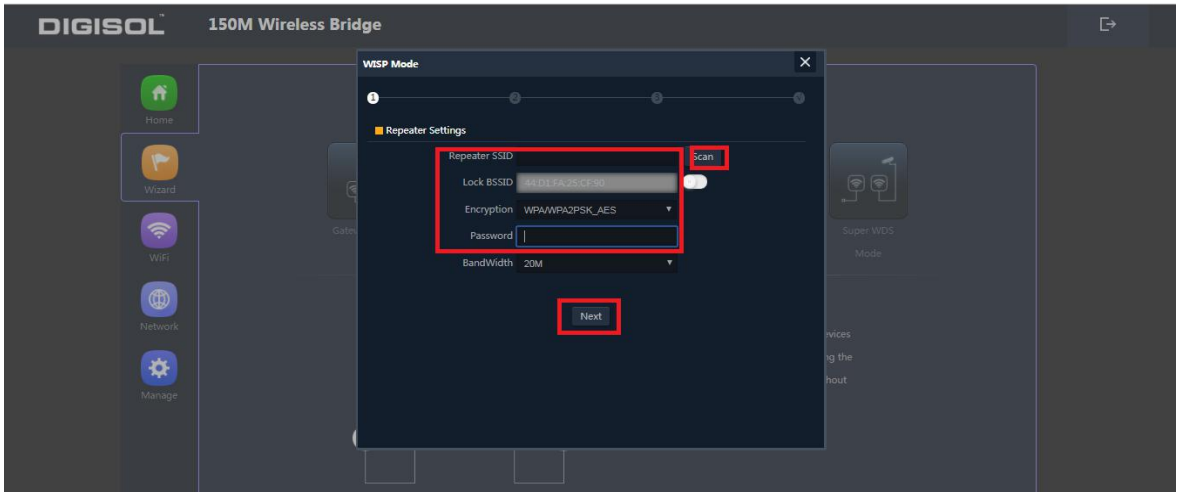

Fig. 24 WISP setting

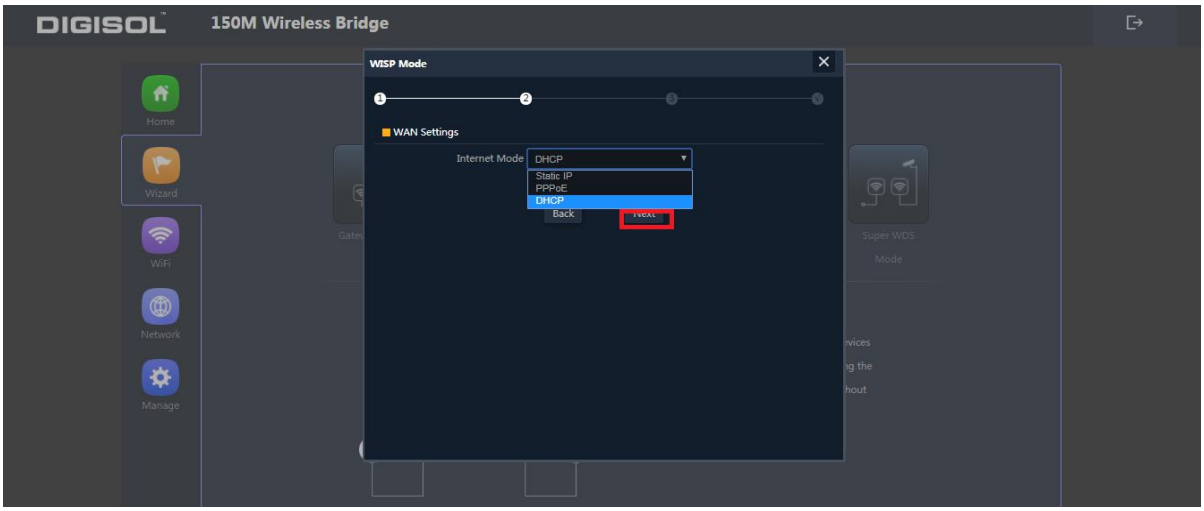

Fig. 25 WAN setting in WISP Mode

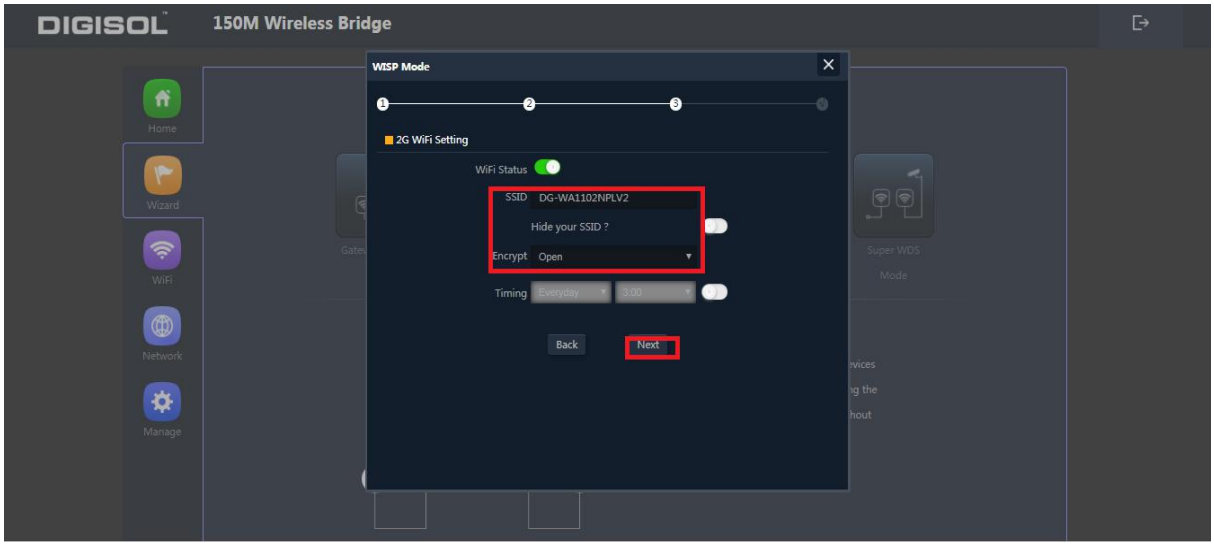

Fig. 26 Wireless Setting in WISP Mode

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Scan the WISP AP you want to connect to as shown in **Fig. 24**, then click on next where you can configure the WAN setting in WISP operation mode, in next tab set the SSID this AP will broadcast.

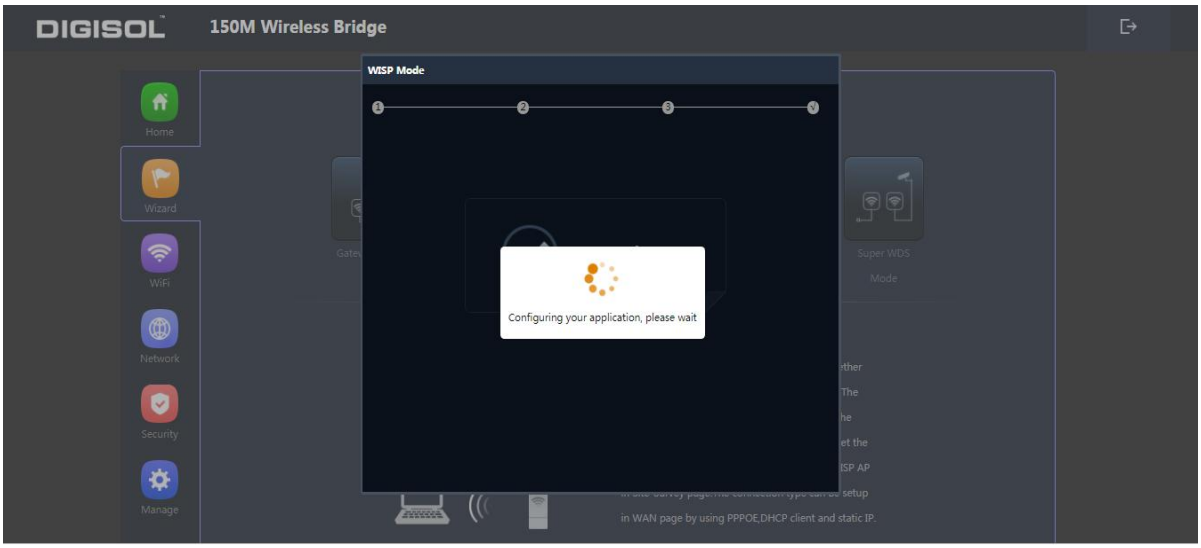

Fig. 27 Complete the setting in WISP Mode

Once the configuration is completed it will redirect back to login page. You can see the status in Home page as shown below.

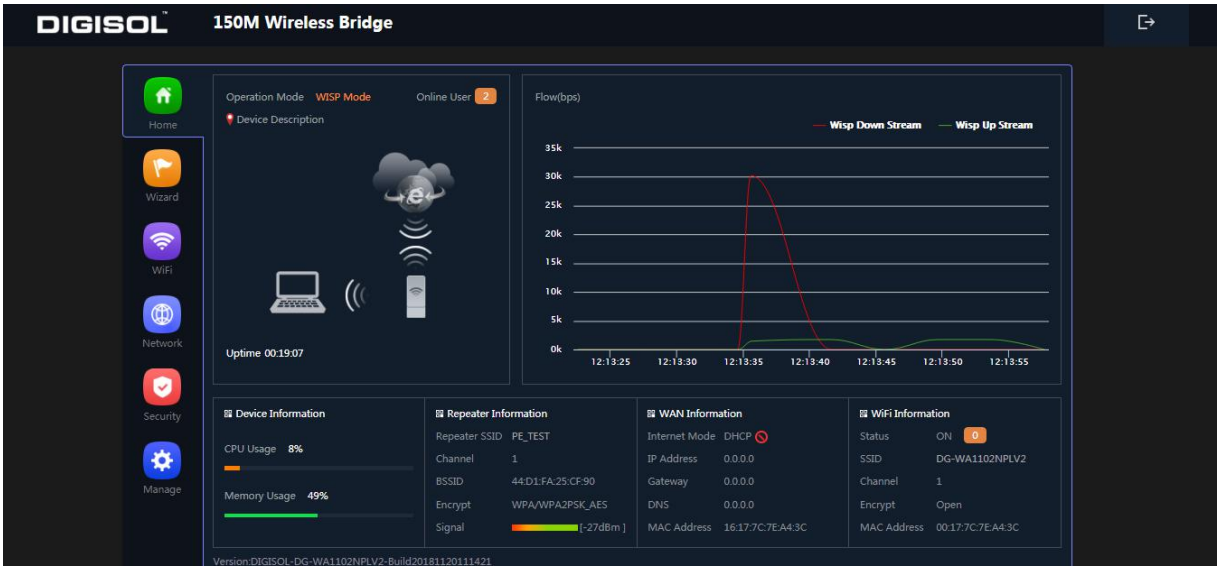

Fig. 28 Status in WISP Mode

IV. AP Operation mode:

Click AP operation mode in Wizard, then a pop up will appear where you can configure the AP. Please set the AP operation mode based on the steps shown below:

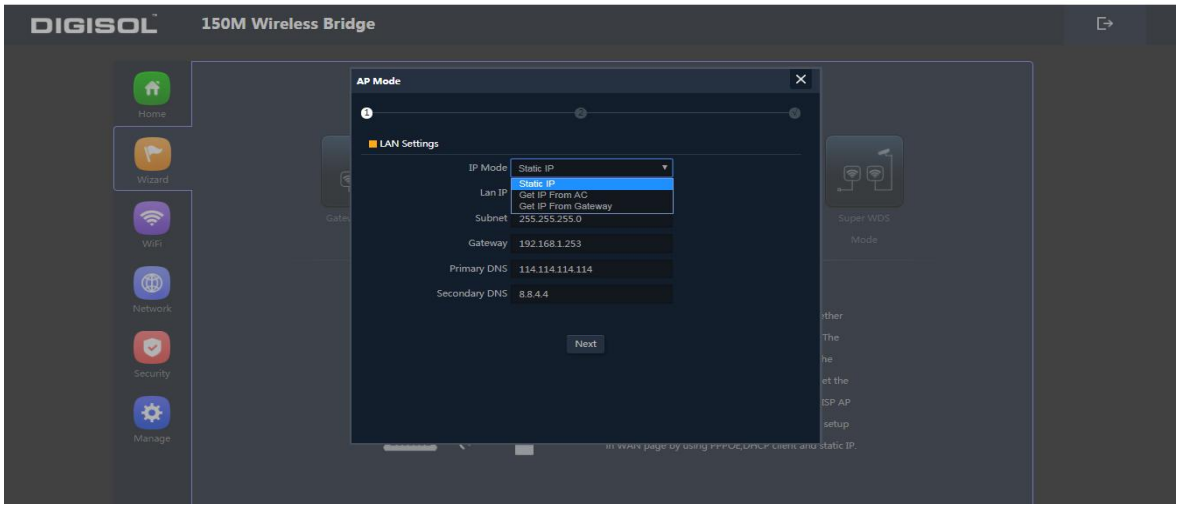

Fig. 29 LAN setting in AP Mode

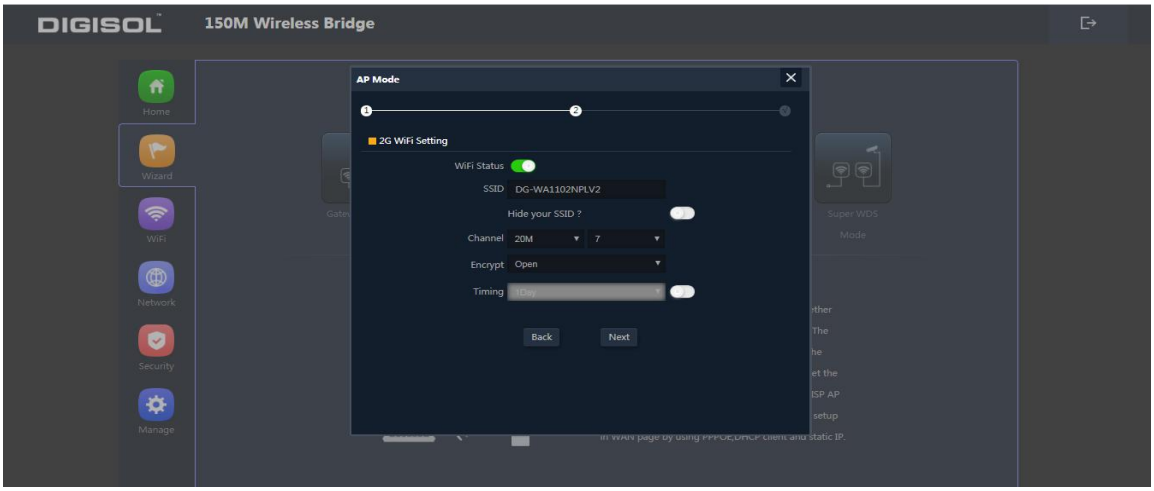

Fig. 30 Wireless setting in AP Mode

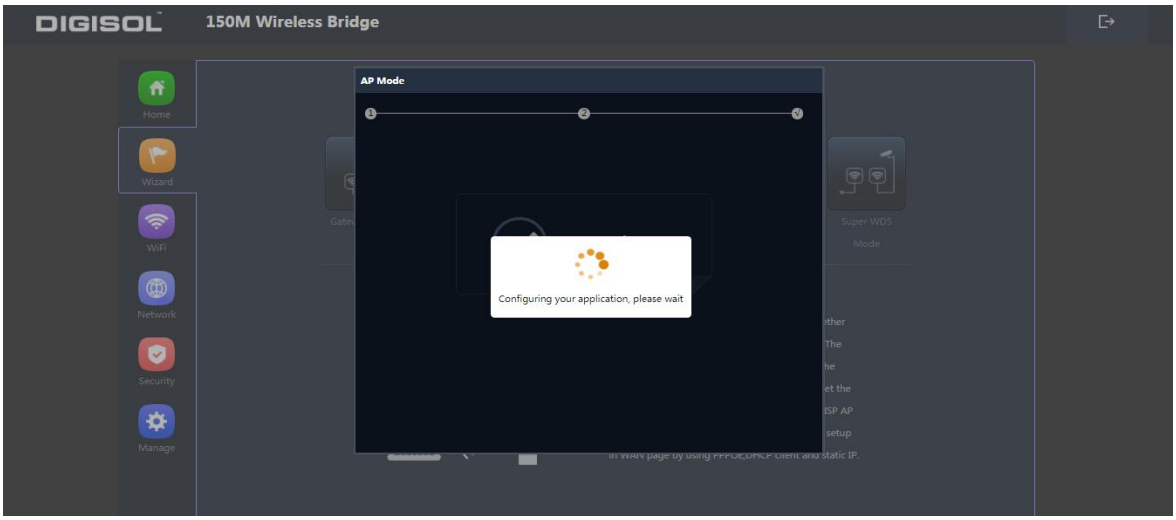

Fig. 31 Complete the setting in AP Mode

Set the LAN IP as shown in **Fig. 29** and click on next where you can set the SSID this AP will broadcast. Once the configuration is completed it will redirect back to login page. You can see the status in Home page as shown below.

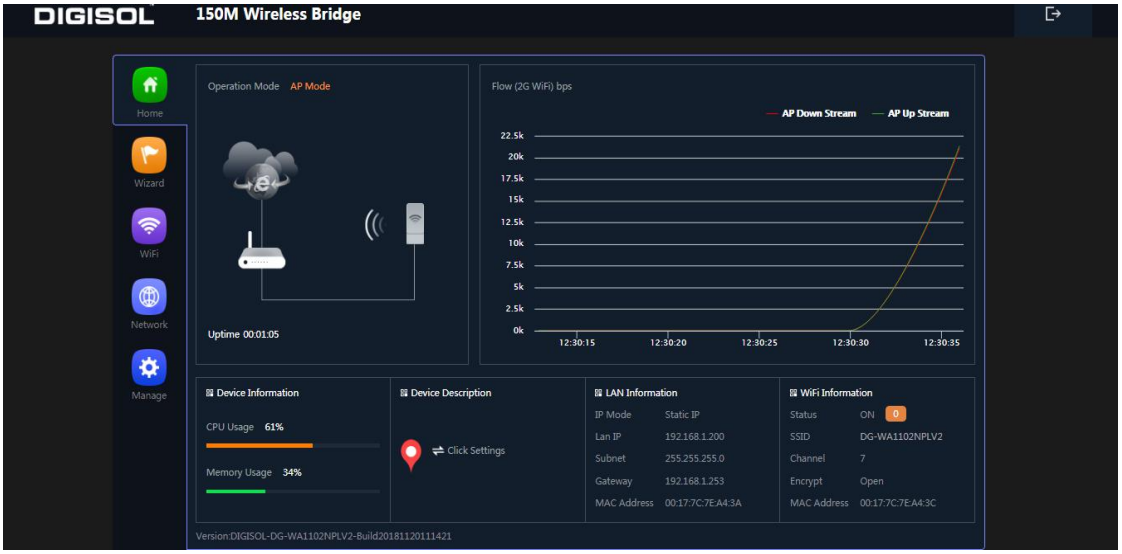

Fig. 32 Status in AP Mode

V. Super WDS operation mode

For Super WDS setting you will require atleast two AP's.

A. Access 1st AP's GUI page, Click Wizard and choose SUPER WDS mode, input the SSID.

For example, the SSID is Wireless2.4G_WDS.

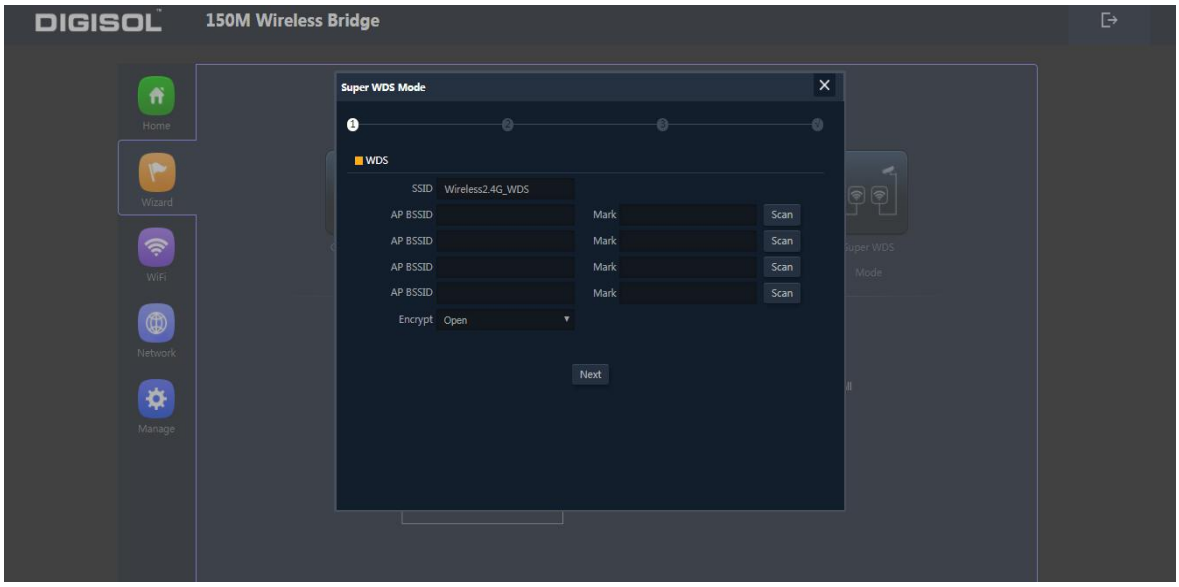

Fig. 33 Super WDS Mode

B. Access 2nd AP's GUI page, click Wizard and choose Super WDS function.

In this page, click scan AP to choose 1st AP's SSID i.e Wireless2.4G_WDS .

In this page, user can set 2nd AP's SSID as Wireless 2.4G-Test.

Note: These SSID's are used while scanning as shown below

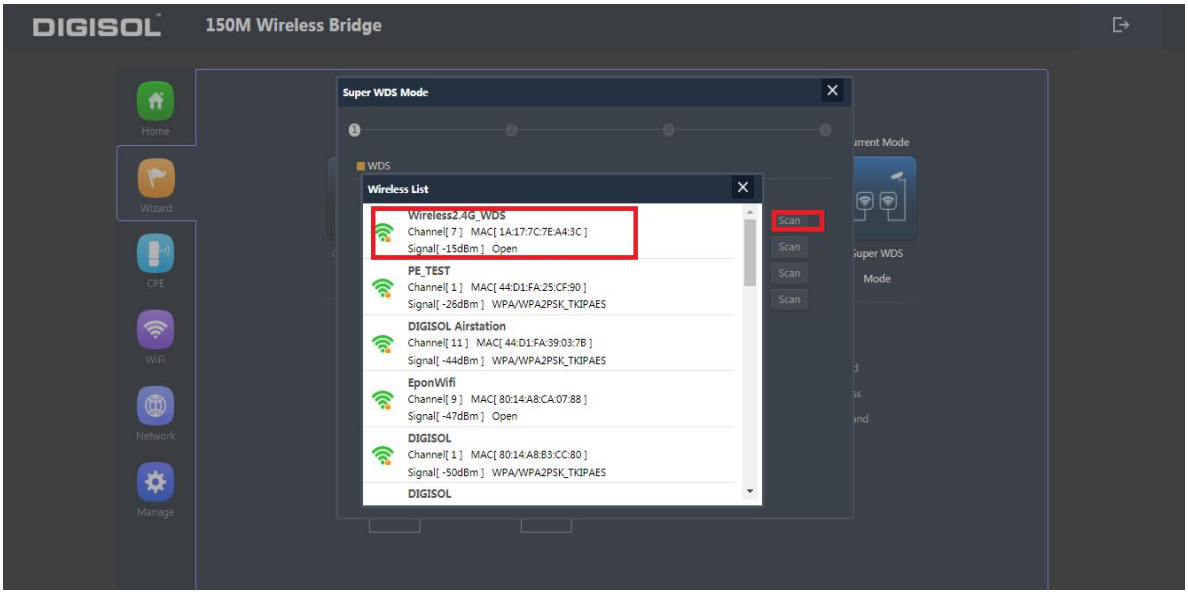

Fig. 34 Scan the SSID

C. Click next to set the SSID this AP will broadcast.

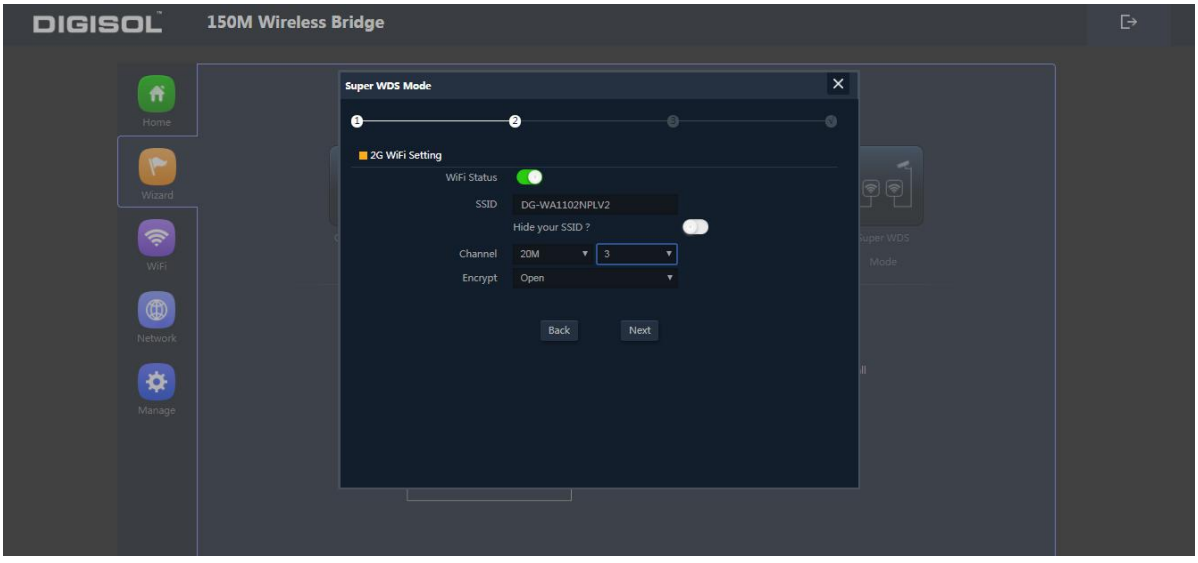

Fig. 35 Wireless setting in Super WDS Mode

D. Click next to set the LAN IP of the AP.

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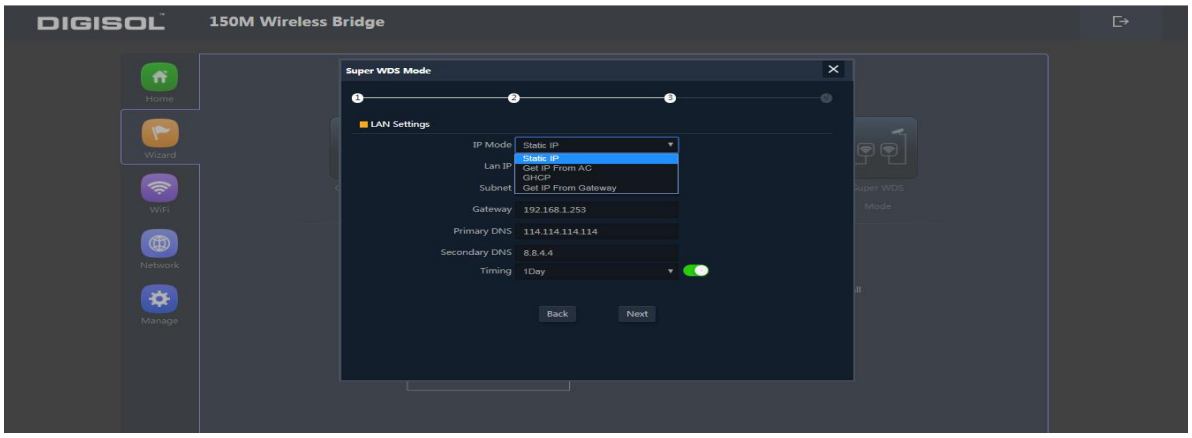


Fig. 36 LAN Setting in Super WDS Mode

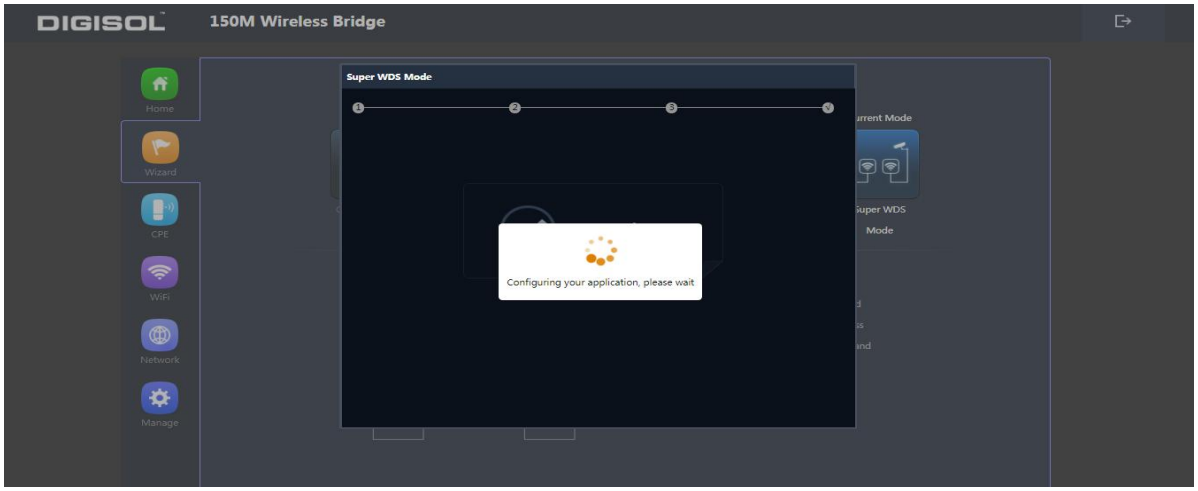


Fig. 37 Complete the setting in Super WDS Mode

E. Go back to 1st AP, Wizard--- Super WDS--- Scan AP--- Choose 2nd AP's SSID, then 1st AP will work with 2nd AP.

F. Once the configuration is completed it will redirect back to login page. You can see the status in Home page as shown below in **Fig. 38**.

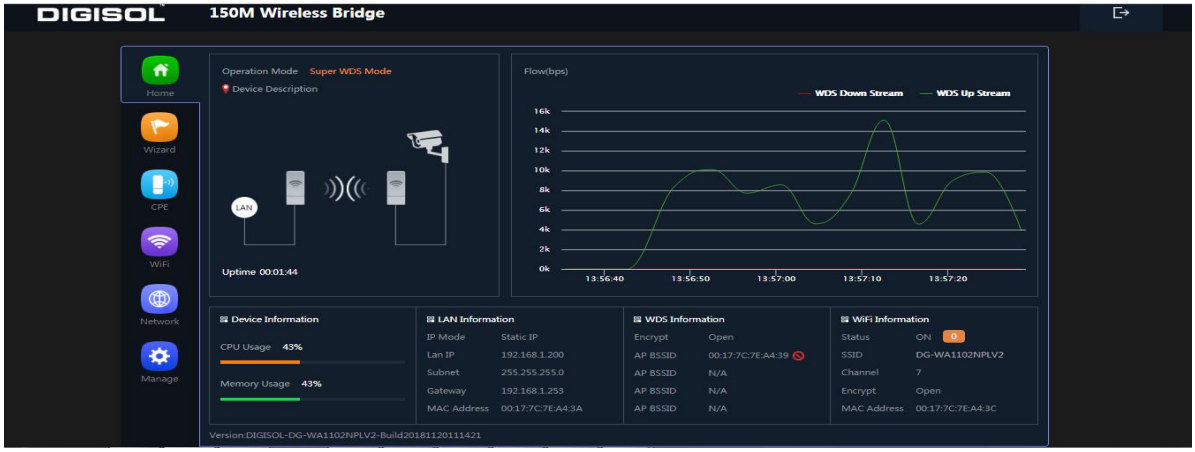


Fig. 38 Status in Super WDS Mode

E. If you want to connect 3rd AP with 1st AP, scan 1st AP's SSID in 3rd AP and vice versa to make 3rd AP work with 1st AP.

3) WiFi

This part, will show the 2G Wifi Setting, WDS, MAC ACL, WiFi Timer off and Advanced Setting:

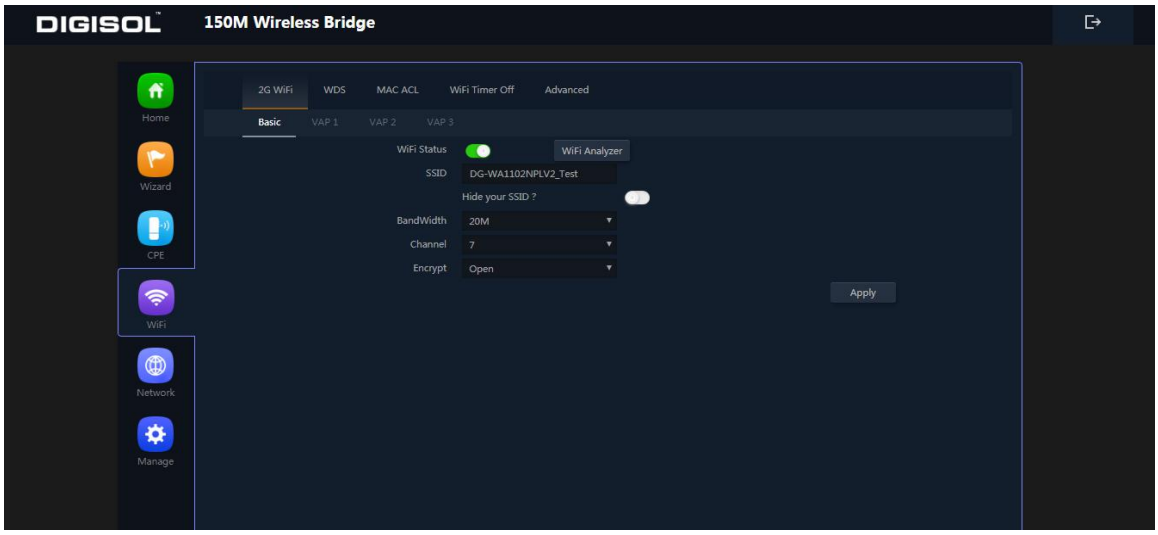


Fig. 39 2G Wifi (Basic Wifi setting)

There are 3 virtual AP in this outdoor AP, if needed virtual SSID then users can configure it as shown in the following picture:

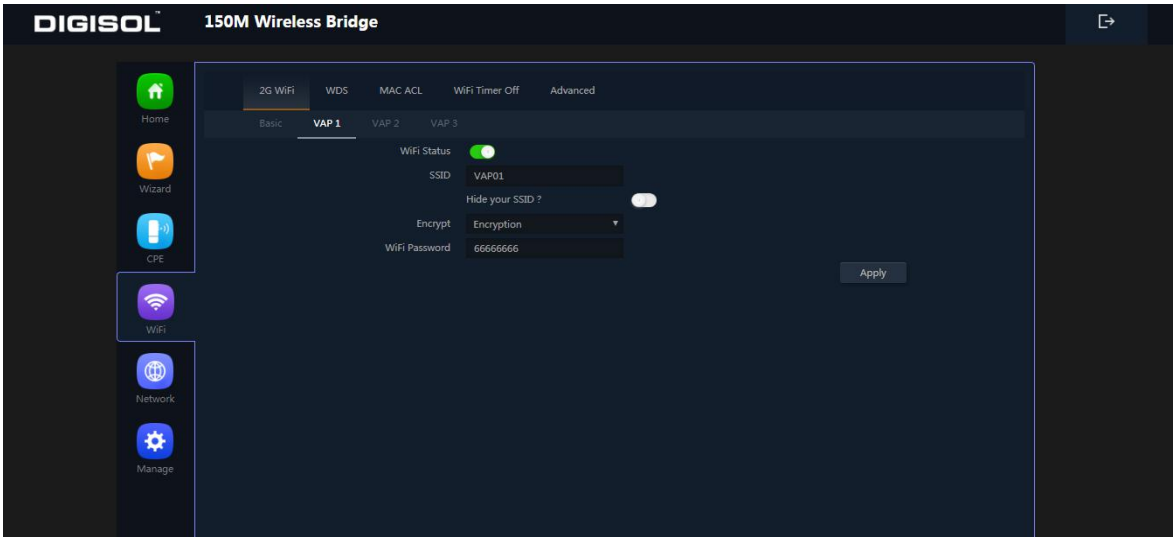


Fig. 40 2G Wifi (VAP setting)

MAC ACL: User can allow or deny a particular MAC. Click on Add select whether to allow/deny the particular MAC and click on Apply.

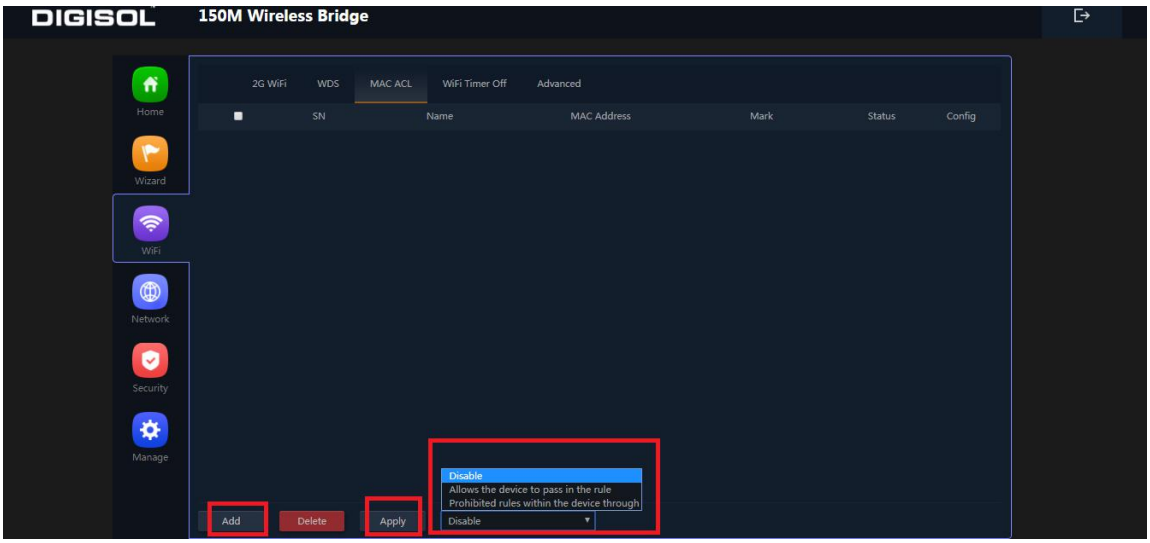


Fig. 41 MAC ACL

WiFi Timer Off: User can enable WiFi Timer Off to turn off the SSID in the specified time.

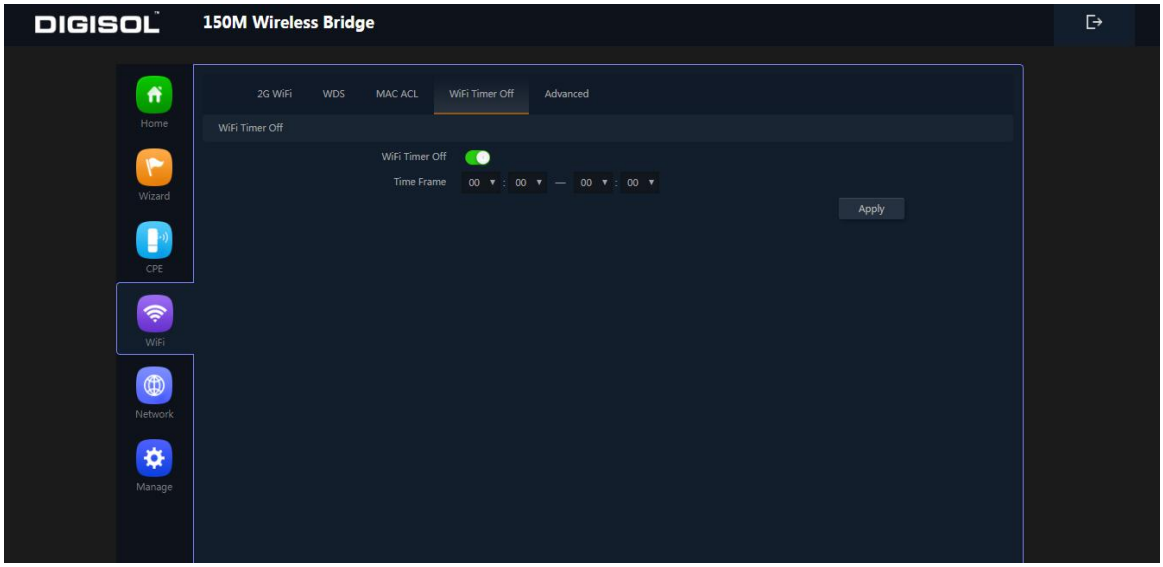


Fig. 42 WiFi Timer Off

Advanced: This page will allow the user to change the Country Region, 2G Mode, Coverage Threshold, Tx Power, 2G Distance, Maximum for per AP the regional, enable/disable Multicast Fast and Short GI.

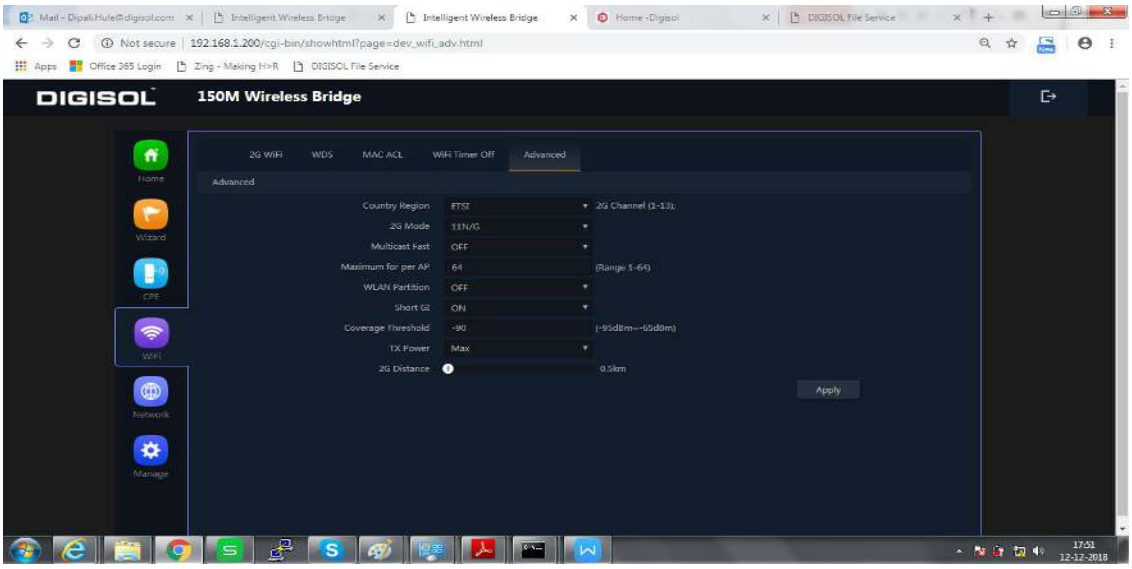


Fig. 43 Advanced

4) Network:

This page mainly shows the LAN setting of the AP and user can also enable DHCP Server as shown in **Fig. 44**:

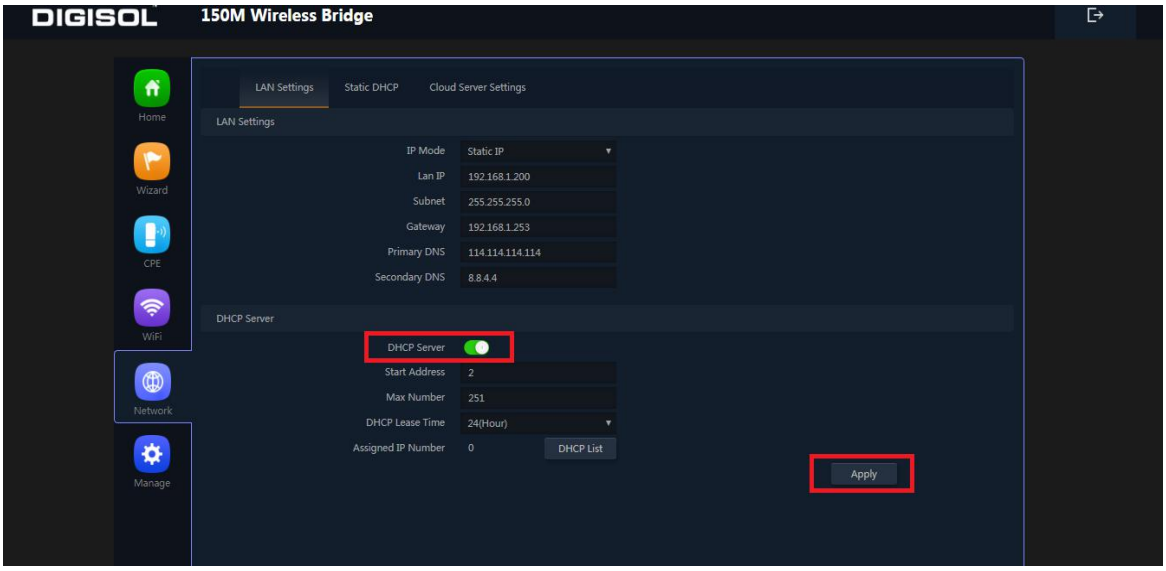


Fig. 44 LAN Settings

Static DHCP: User can assign Static IP to the client devices, click on add where you can scan the client device using the Mac address and click on apply as shown in **Fig. 45**

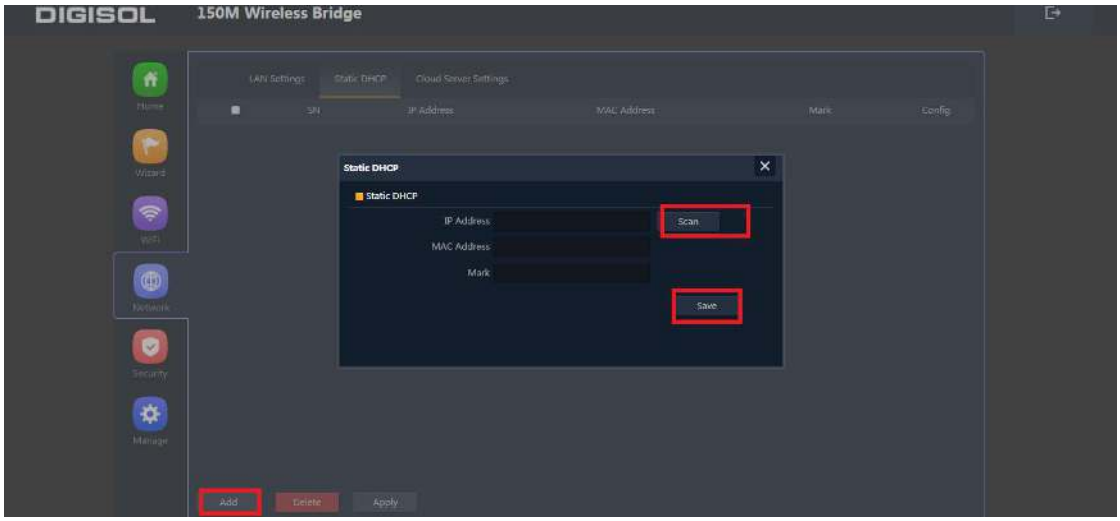


Fig. 45 Static DHCP

Cloud Server Setting: By enabling Cloud Server user can link the AP to the Cloud Account.

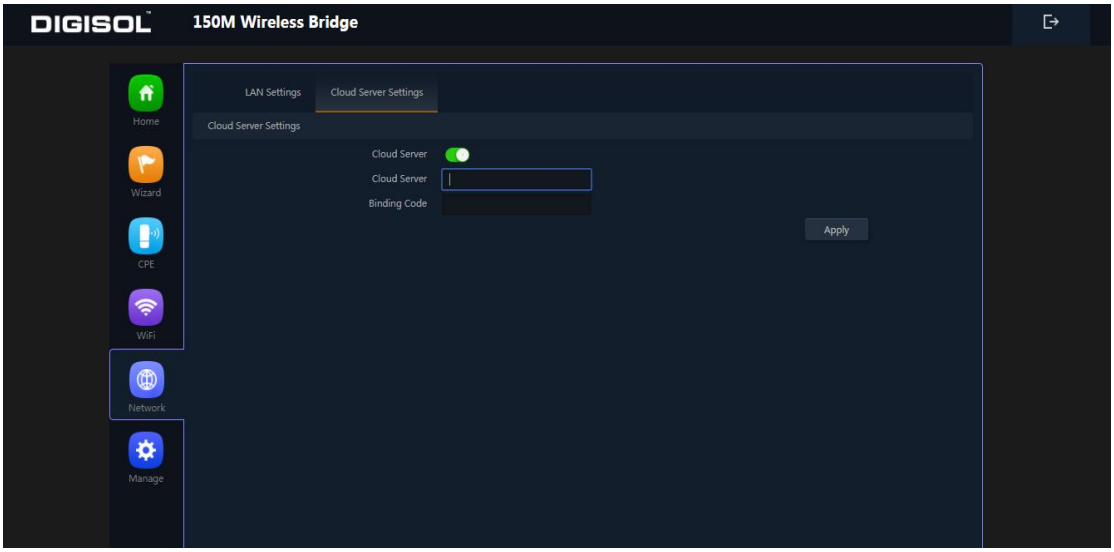


Fig. 46 Cloud Server Setting

5) Manage:

This part shows how to configure, reboot, modify password, upgrade, set time and Logs.

Configure: User can download/restore the backup file. Also, reset the AP to factory default settings and enable Telnet access as shown in **Fig. 47**

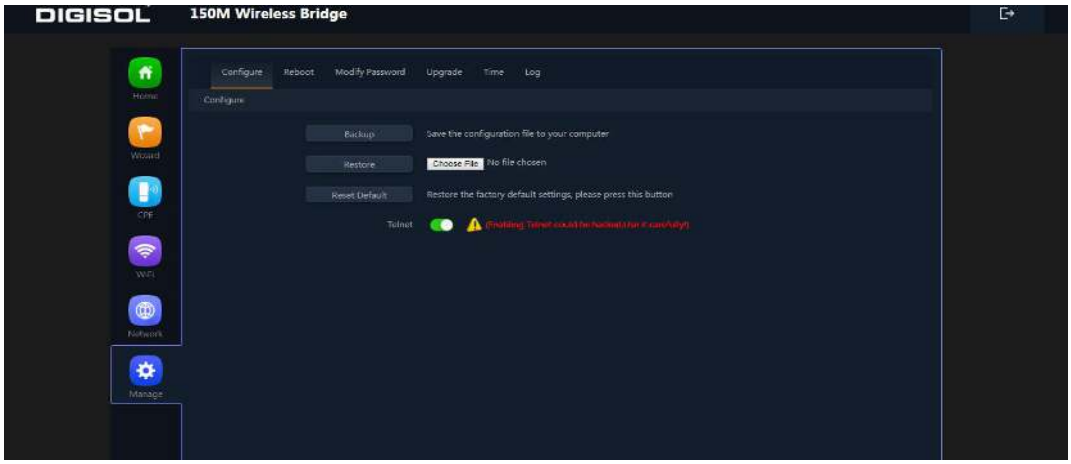


Fig. 47 Configure

Reboot: User can schedule a reboot of the AP as shown in **Fig. 48**

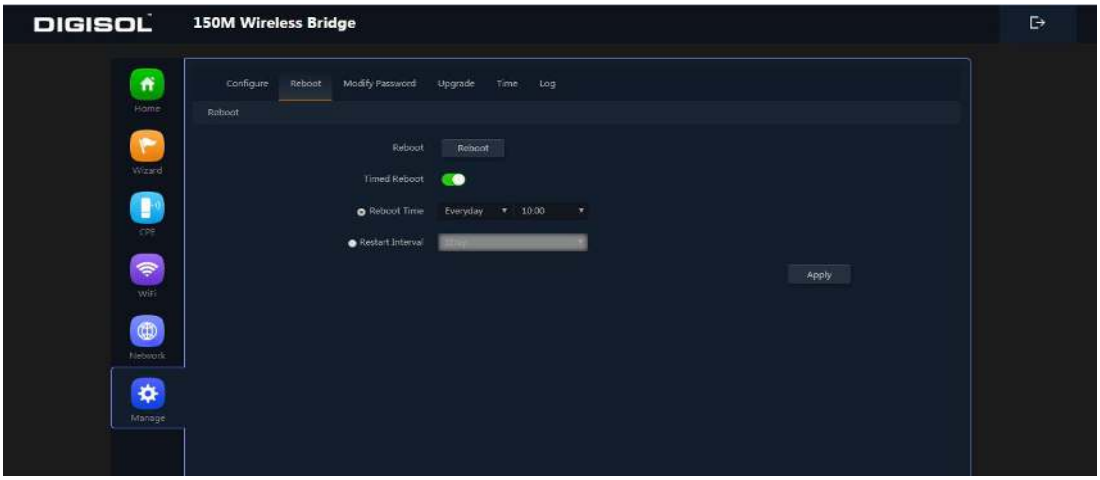


Fig. 48 Reboot

Modify Password: Here you can modify the password. Default password is admin.

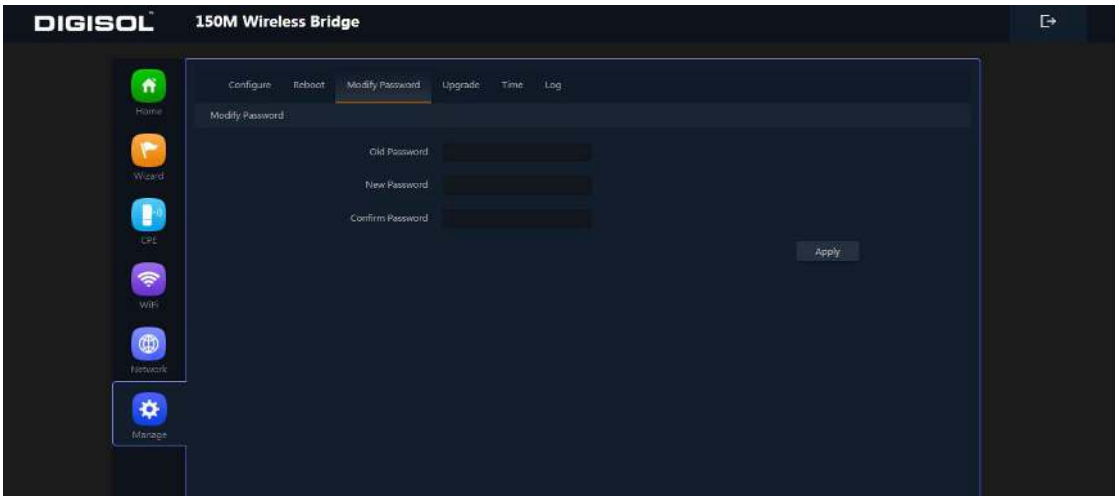


Fig. 49 Modify Password

Upgrade: Select choose file and navigate to proper path where the firmware is downloaded and select upgrade.

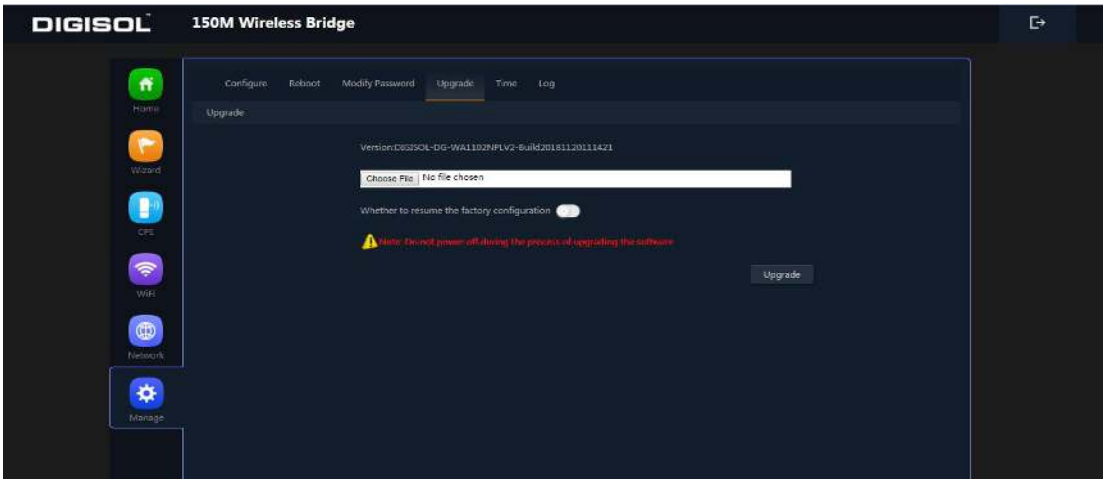


Fig. 50 Upgrade

Time: Here you can check the system time, enable NTP Server and select the Time Zone.

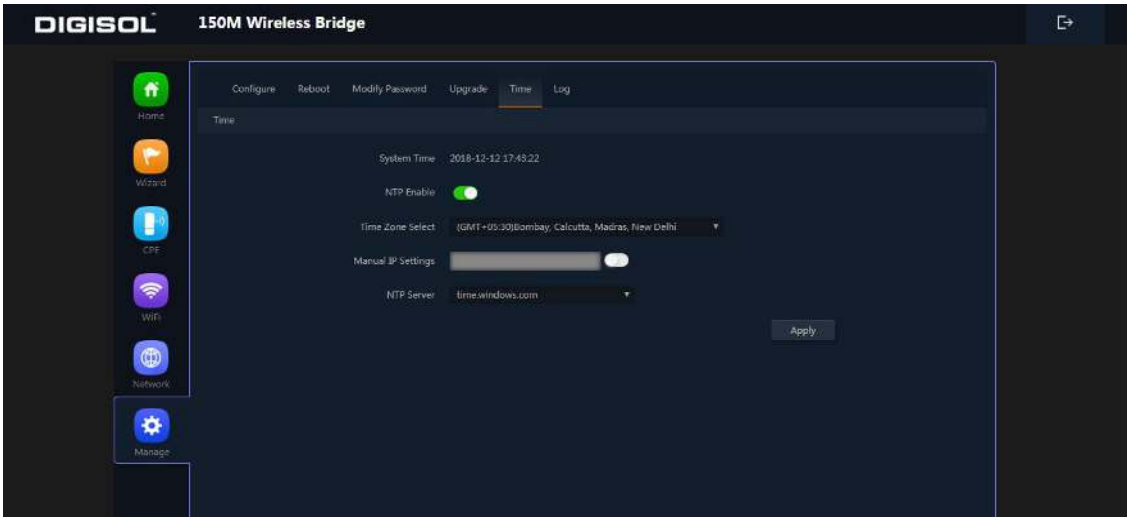


Fig. 51 Time

Log: Here you can find the AP's log, you can also enable Remote Log Service.

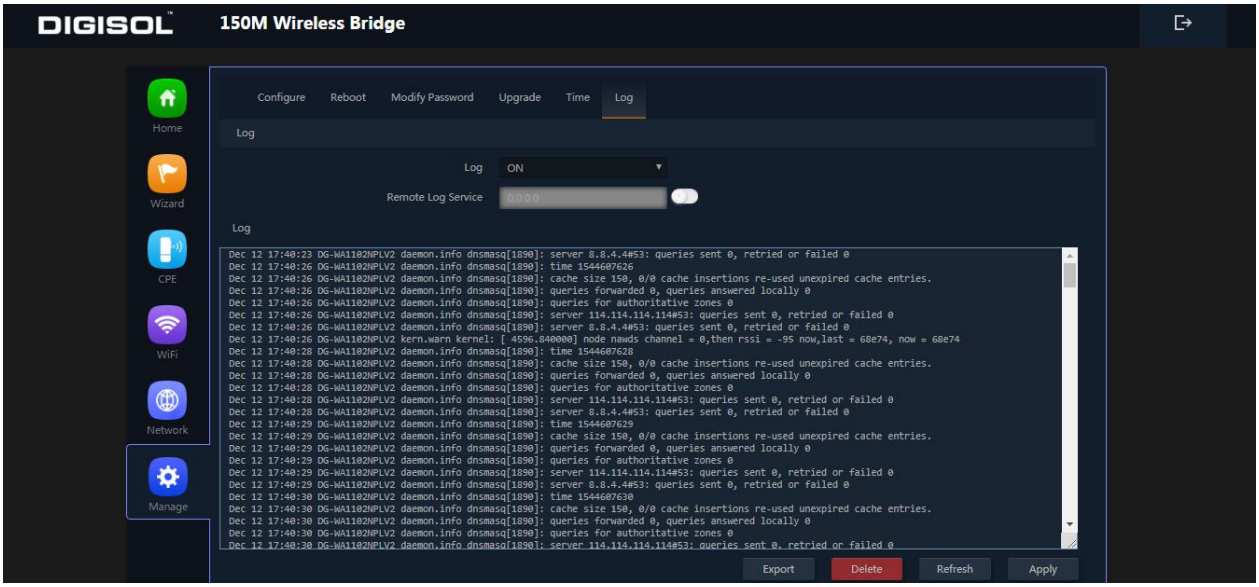
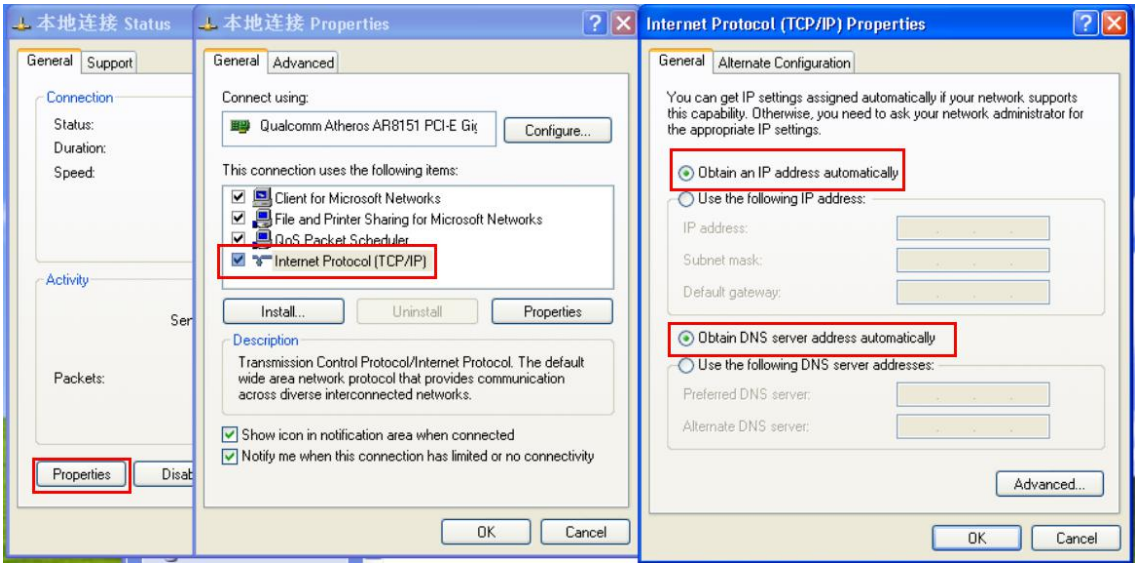


Fig. 52 Log

4th Share Internet and Obtain IP address automatically

Set computer's TPC/IP as Obtain an IP address automatically, Obtain DNS server address automatically as shown in following picture. The computer will obtain the IP address from router or base station to get Internet.



2 Troubleshooting:

The Failure phenomenon and solution

Failure phenomenon	Solution
SYS Indicator off	Please make sure the PoE module connection is right. POE Port connects with AP, LAN port connects with computer.
Can't reach Wireless AP through Web page	Please check the IP address of computer and Wireless AP to see whether they are in same networking segment. The method is click "start"-"Run" input "cmd"，ping 192.168.1.200 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Please make sure the IP address 192.168.1.200 is not occupied by other devices in Wireless AP's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"-"Run" input"cmd" arp –d Clean the IE Brower's temporary files and Cache file.
Wireless AP can't connect with AP （the status display disconnected）	Try to scan the avaliable wireless networking again； Make sure the Wireless AP's wireless standard （11b/g/n, 2.4G）is correct； The Security and passwords are matched between Wireless AP and AP； The signal strength of AP is too weak to connect, should be more than -75dBm.
Can't scan the wireless AP	Scan it several times more； Make sure there are 5G signal existing. Reset the Wireless AP, scan it again after Wireless AP restart.
The connection of Wireless AP and AP is success, but the computer can't share internet	Please Check the computer's IP address and DNS setting. If it is dynamic, set the network card as automatically obtain. If it is static IP, please contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the "Reset" button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

This product comes with One Year warranty. For further details about warranty policy and Product Registration, please visit support section of www.digisol.com

DIGICARE™

Standard Warranty

This Product is covered under DIGICARE Standard Warranty program backed by DIGICARE Service Center. To avail this Standard Warranty offer, customer needs to contact DIGICARE's Technical Assistance Center for the same. You may be asked to provide proof of purchase of product for warranty claim of defective product. Please refer website www.digisol.com for the detailed support terms & conditions and support process.

Warranty Policy

1. Hardware Warranty : Hardware warranty period shall be limited up to One year. External Power Adapter shall carry Three months warranty only against manufacturing defects. Any repair or replacement will be rendered by DIGICARE at its Service Center only.

2. Software Warranty : DIGISOL issues this Limited Software Warranty that the software portion of the product ("Software") will substantially confirm to DIGISOL's then current functional specifications for the software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of one year ("Software Warranty period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation.

3. Governing Law: This warranty shall be governed by Indian Laws.

4. Standard Warranty shall subject to the terms & conditions specified in the DIGISOL PRODUCT WARRANTY policy displayed on www.digisol.com

5. To avail and activate warranty for your product.
Kindly register your product by calling us @18002093444

DIGICARE helpdesk@digisol.com 1800 209 3444

For Warranty Details Please Visit www.digisol.com STANDARD WARRANTY