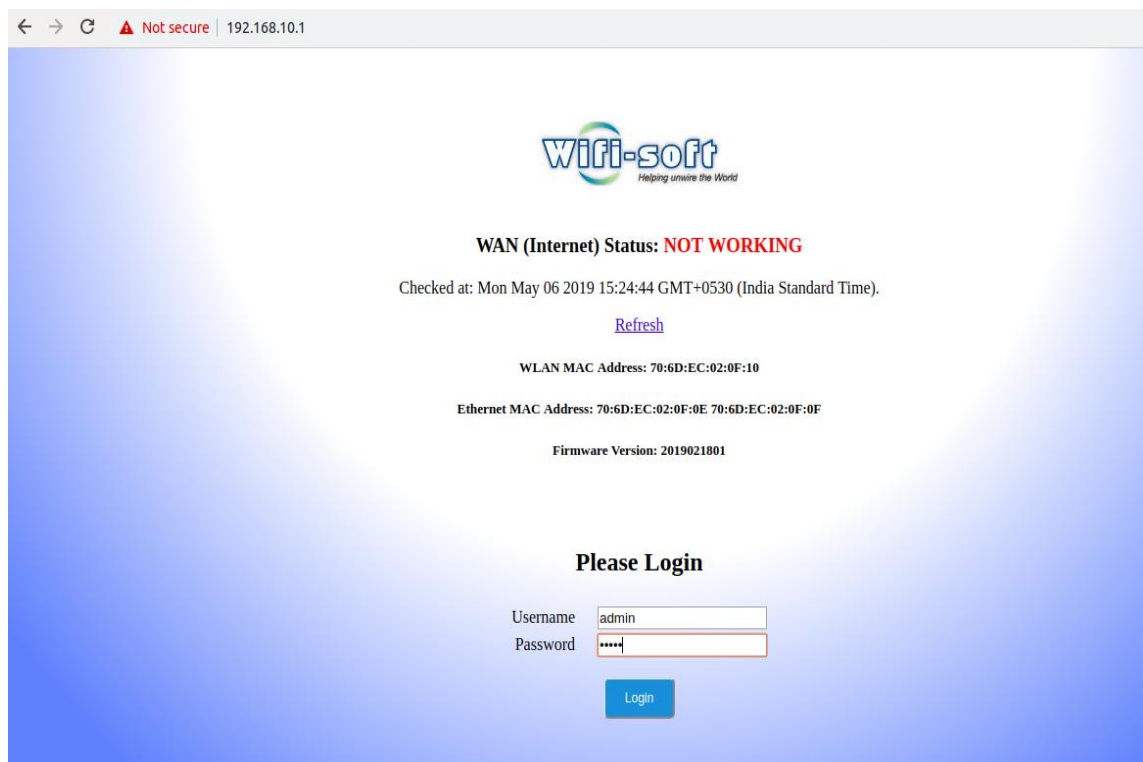
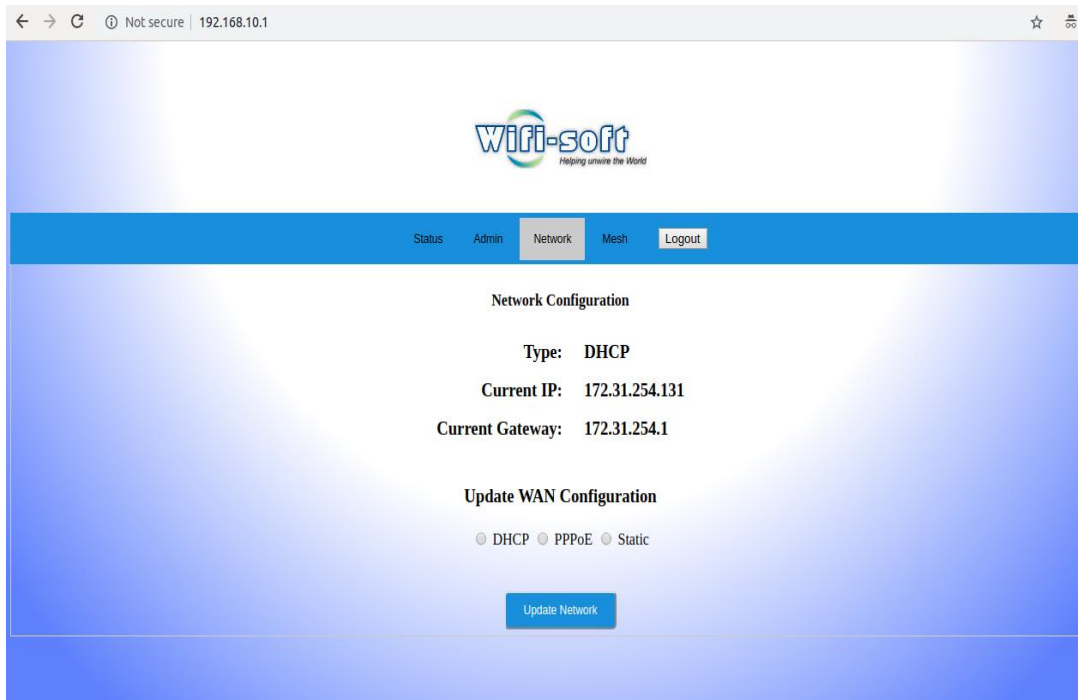


## How to configure cloudmax AP

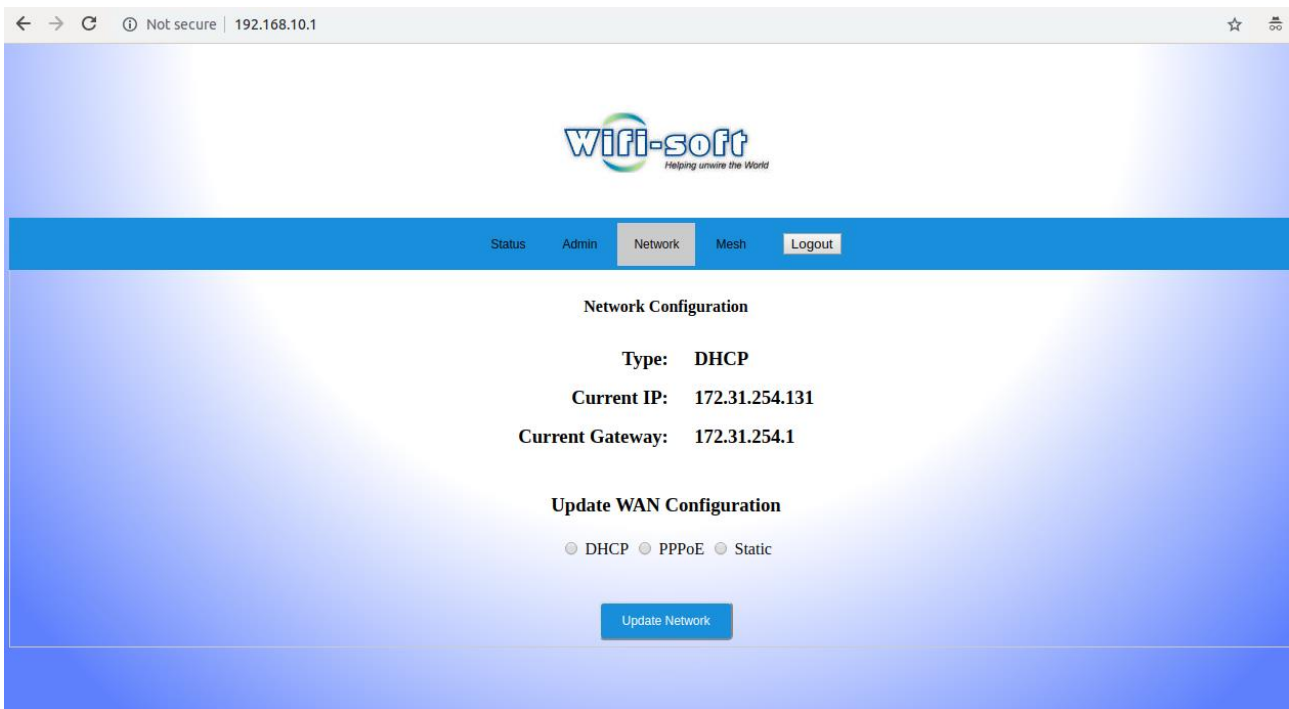
1. Connect one end of the Ethernet Cable to the adaptor port named as **PoE**, and connect the other end of the Ethernet cable to the **WAN** port of CloudMax AP.
2. Connect one end of the Ethernet cable to your internet (Unibox lan port), and the other end to the adaptor port named as **LAN**.
3. Press and hold the **Reset** button, and power off the CloudMax AP. Keep the Reset button pressed, and power on the CloudMax AP. Hold the Resest button for 10 seconds, and leave. The CloudMax AP is reset to default settings.
4. Now go the browser and take the access of AP using default IP address 192.168.10.1
5. Login using default credentials,
6. Username- admin  
Password - admin



7. Now click on network option and update WAN configuration.(Select any one option and submit the details.)



8. After submitting the details below screen will appear.



9. Click on status option and check the status of WAN (Internet)



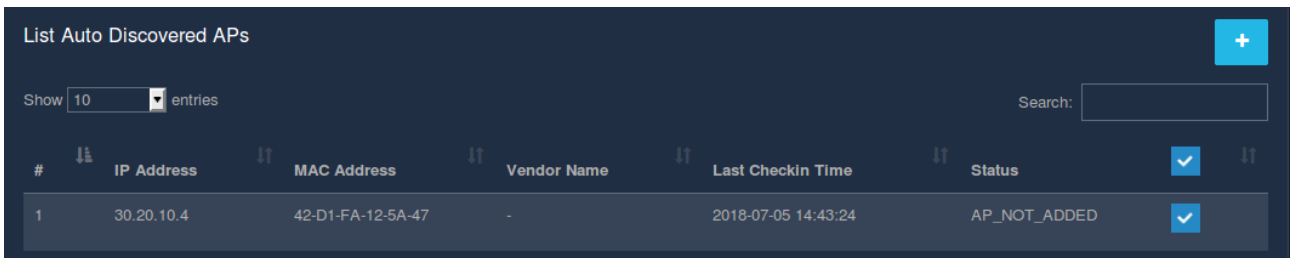
10. Now go to the wireless section in unibox

**Click on manage AP-->**

To add a new access point,

Click on auto discover AP(Search symbol). Unibox will automatically discover the AP.

Now add the AP just clicking on checkbox and '+'option.



OR add the AP manually

click on the '+' icon. A model form will be displayed that collects the information required to create a new AP.

The fields marked with asterisk (\*) are mandatory.

**Add New AP**

AP Name \*

MAC Address \*

Global Configuration \*

Description

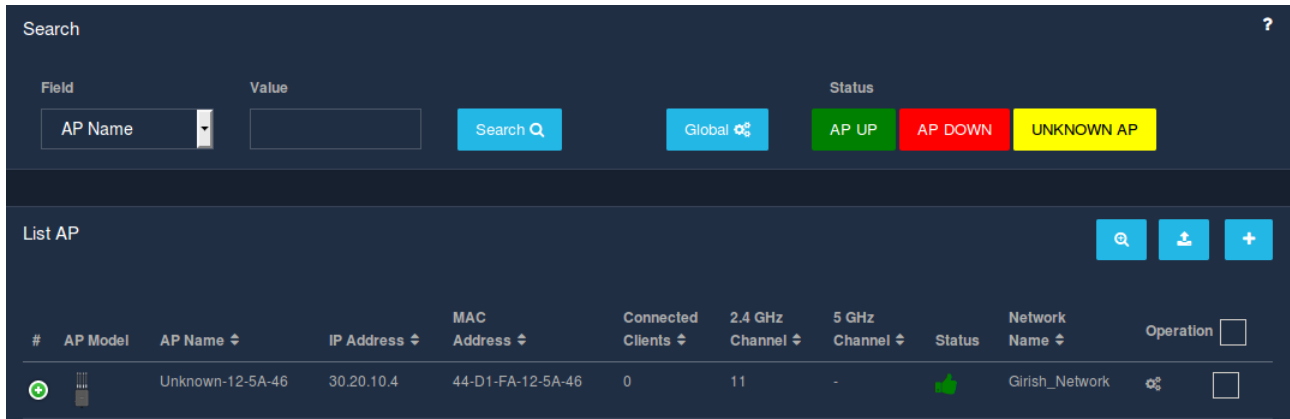
Close Save

<i>Fields</i>	<i>Description</i>
AP Name	Enter the name of AP.
Mac Address	Enter the MAC address of LAN port of the access point.
Global Configuration	Select the configuration to apply to the AP. The AP will get all the settings applied to the global configuration.
Description	Enter the description for AP.

After that go to the edit configuration and edit the access point information.

## LIST AP-

This page displays the list of cloudmax access points that are provisioned for central management



The screenshot shows a search interface for access points. At the top, there is a search bar with a dropdown menu set to 'AP Name' and a search button. Below the search bar, there are three status buttons: 'AP UP' (green), 'AP DOWN' (red), and 'UNKNOWN AP' (yellow). The main area is titled 'List AP' and contains a table with the following columns: #, AP Model, AP Name, IP Address, MAC Address, Connected Clients, 2.4 GHz Channel, 5 GHz Channel, Status, Network Name, and Operation. A single row of data is visible, representing an access point with the name 'Unknown-12-5A-46', IP '30.20.10.4', MAC '44-D1-FA-12-5A-46', 0 connected clients, 11 on the 2.4 GHz channel, and a status of 'UP'.

#	AP Model	AP Name	IP Address	MAC Address	Connected Clients	2.4 GHz Channel	5 GHz Channel	Status	Network Name	Operation
+		Unknown-12-5A-46	30.20.10.4	44-D1-FA-12-5A-46	0	11	-	UP	Glirish_Network	

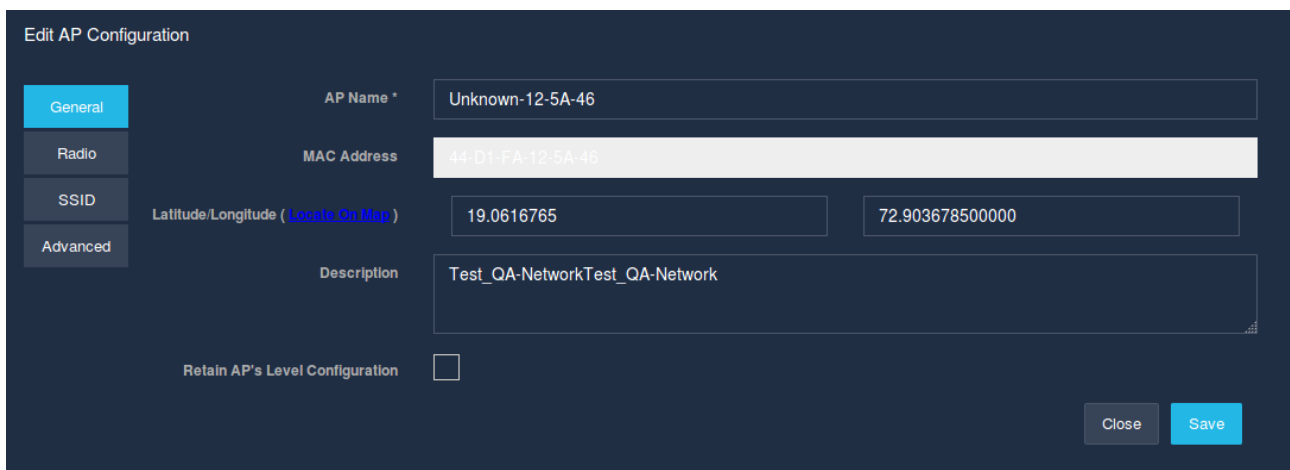
Each line displays the AP information along with the current status of the AP

The first column displays the model of the AP being managed. The name of the AP, private IP and MAC address of the AP are also displayed. The table also displays the number of clients connected to each AP along with the channel information for both 2.4 and 5 GHz radios. It also displays the status and the network name of the AP. The last column, i.e., the 'Operation' column, allows an admin to configure or delete the AP from the management.

## Edit Configuration:-

The edit AP configuration allows the administrator to edit the different subsections in the AP section. The edit AP configuration is sectioned into four sub-sections:

- **General**



The screenshot shows the 'Edit AP Configuration' form with the 'General' tab selected. The form contains the following fields: 'AP Name \*' (Unknown-12-5A-46), 'MAC Address' (44-D1-FA-12-5A-46), 'Latitude/Longitude (Locate On Map)' (19.0616765, 72.90367850000), 'Description' (Test\_QA-NetworkTest\_QA-Network), and 'Retain AP's Level Configuration' (checkbox). The 'Close' and 'Save' buttons are at the bottom right.

*Fig*

<i>Fields</i>	<i>Description</i>
AP Name	Enter/Edit the name of the AP.
MAC Address	Enter the MAC address of the access point. This field is uneditable. To change the MAC address, you need to delete and re-add the AP.
Latitude/Longitude	Enter the latitude and longitude of the AP or select from the google map.
Description	Enter the description for AP.
Retain AP's Local Configuration	Check this box for overriding the default configuration with the AP's configuration.

*Table*

- **Radio**

The screenshot displays the 'Edit AP Configuration' window with the 'Radio Configuration' tab selected. On the left, there are navigation tabs for 'General', 'Radio', 'SSID', and 'Advanced'. The 'Radio' tab is active. The configuration is organized into two sections: 2.4 GHz Radio and 5 GHz Radio.

**2.4 GHz Radio Settings:**

- Country: India (dropdown menu)
- 2.4 GHz Radio:
- Channel: 11 (dropdown menu)
- Tx Power(dBm): 30 (dropdown menu)
- Max Client: 10 (text input field)

**5 GHz Radio Settings:**

- 5 GHz Radio:
- Channel: 36 (dropdown menu)
- Bandwidth: 20 (dropdown menu)
- Tx Power(dBm): 15 (dropdown menu)
- Max Client: 5 (text input field)

At the bottom, there is an 'Enable Meshing' checkbox which is currently unchecked. A note below it states: 'NOTE: Max client limit is set per SSID per Radio'. At the bottom right, there are 'Close' and 'Save' buttons.

*Fig*

<i>Fields</i>	<i>Description</i>
Country	Select the country in which your AP is located. The available channels will change based on the selected country.
2.4GHz	If the AP has 2.4 GHz radio, select this option.
5GHz	If the AP has 5 GHz radio, select this option.
Channel	Set the channel for operating the given radio. If the Auto option is selected, the AP will automatically decide the best channel for operating.
Tx Power	Set transmit power for the selected frequency band in DBm.
Max Client	Enter the maximum number of clients that can connect on the selected band. AP will refuse additional device once this limit is reached.
Bandwidth	Select the desired bandwidth (only in case of 5Ghz).
Enable Meshing	To enable WiFi meshing, check the mesh option. A wireless mesh network (WMN) is a mesh network created through the connection of wireless access points installed in each network user's locale. Generally recommended for dual or higher band radios. It is important that all APs must be on the same frequency band for meshing to work.

- **SSID**

The screenshot displays the 'Edit AP Configuration' window with the 'SSID' tab selected. On the left sidebar, the 'SSID' tab is highlighted in blue. The main configuration area includes the following elements:

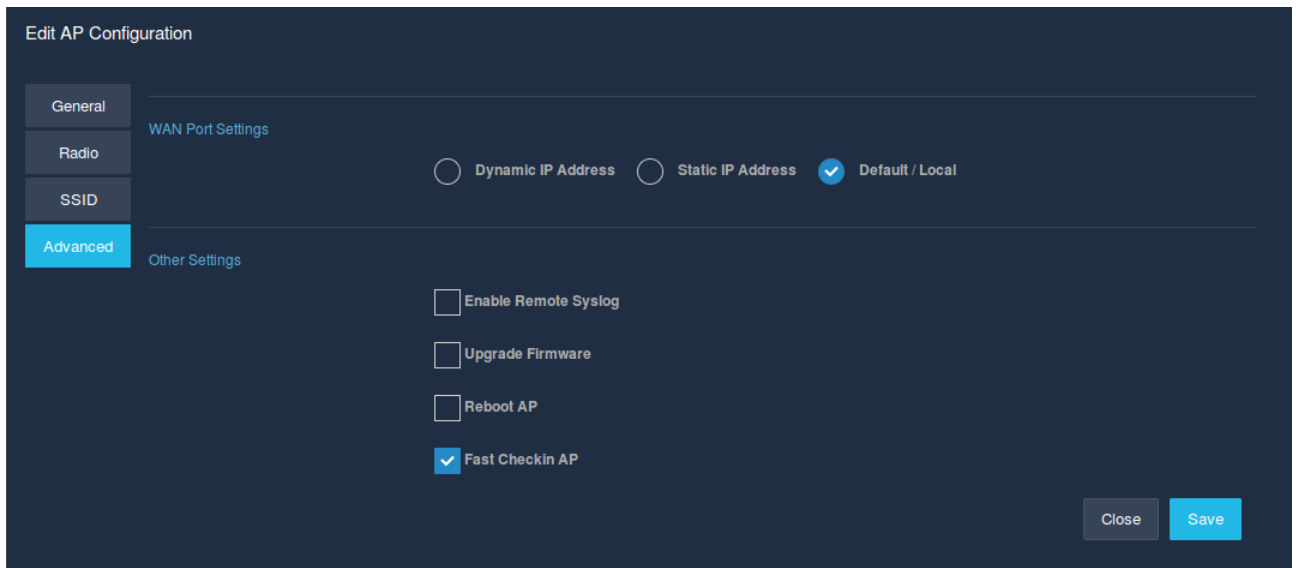
- SSID1**: A dropdown menu with a blue checkmark icon, currently set to 'Both'.
- SSID Name \***: A text input field containing the value 'Girish\_AP(Office)'.
- Hide SSID**: A checkbox that is currently unchecked.
- Secure With Key**: A checkbox that is currently unchecked.
- Broadcasting Bands**: A dropdown menu with a white arrow icon, currently set to 'Both'.
- Enable VLAN**: A checkbox that is currently unchecked.
- SSID2**: A checkbox that is currently unchecked.

*Fig*

<i>Fields</i>	<i>Description</i>
SSID1	On ticking-off the checkbox, the data needed to set the SSID will be captured.
SSID Name	Set the broadcast name of the network.
Hide SSID	If checked, the AP will not advertise the SSID. Clients will have to enter the SSID manually to connect to the AP.
Secure with Key	Check this option to enable WPA2 security key.
WPA2-PSK Key	Enter 8 characters or longer key for securing the network. Only PSK keys are supported.
Broadcasting Bands	Select broadcasting band (2.4, 5 or both) for the SSID
Enable VLAN	Set ID of VLAN for tagging. All the traffic connecting to the AP on the given band will get tagged with the configured VLAN ID.

*Table*

- **Advanced**



*Fig*

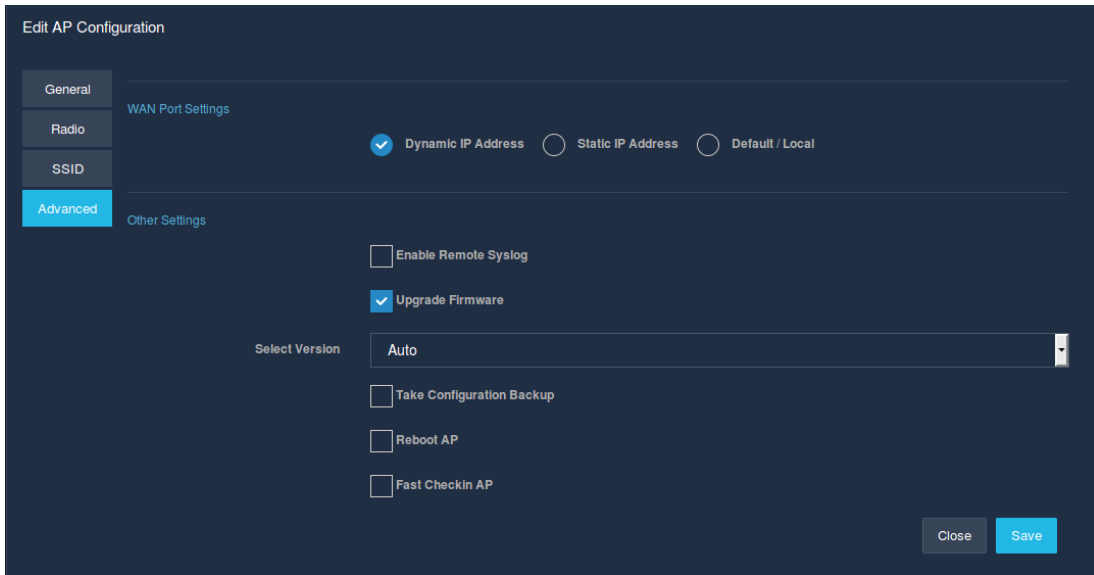
The advanced WAN port settings are categorized into three sections:

- Dynamic IP Address
- Static IP Address
- Default/Local

Select whether the APs WAN port will be on static, dynamic or local IP. Generally it is advisable to leave the AP on a dynamic IP.

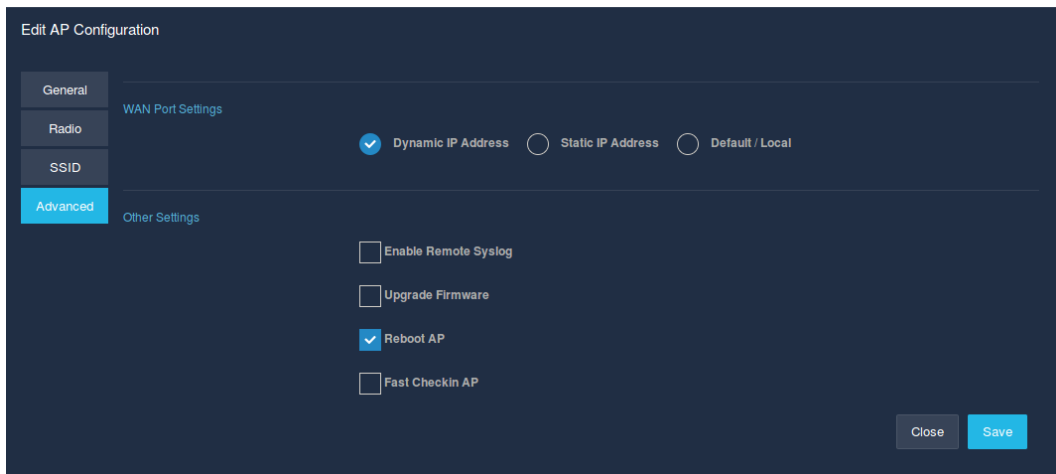


- **Upgrade Firmware**



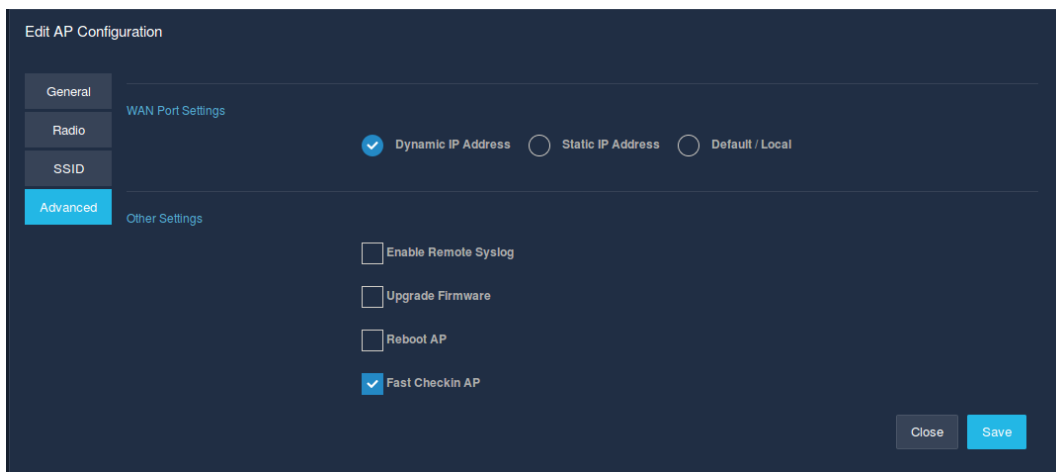
Fig

- **Reboot AP**



Fig

- **Fast Checkin AP**



Fig

Enable this option during troubleshooting the AP. This will enable faster checking of the AP. Revert back the change once the debugging is complete.

When we enable the static IP address, it prompts for entering the data in the following fields which are mandatory:

The screenshot shows the 'Advanced' configuration page for a Wireless LAN (WLAN) interface. At the top, there are three radio buttons: 'Dynamic IP Address', 'Static IP Address' (which is selected), and 'Default / Local'. Below this, there are four mandatory text input fields: 'Controller \*', 'IP Address \*', 'Netmask \*', and 'Gateway \*'. Under the 'Other Settings' section, there are four checkboxes: 'Enable Remote Syslog', 'Upgrade Firmware', 'Reboot AP', and 'Fast Checkin AP' (which is checked). At the bottom right, there are 'Close' and 'Save' buttons.

*Fig*

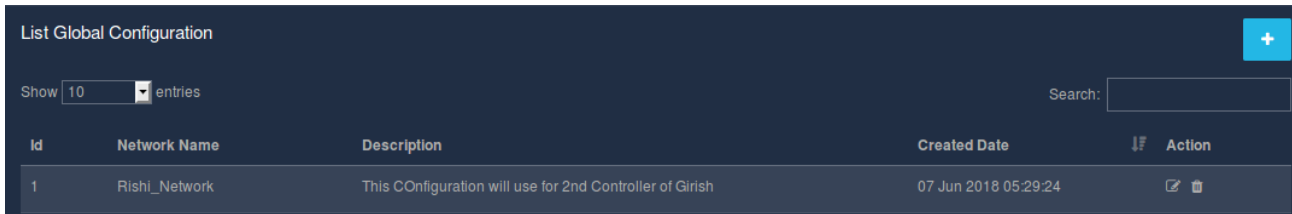
<i><b>Fields</b></i>	<i><b>Description</b></i>
Controller Profile	Select the controller profile for static IP.
IP Address	Enter the IP Address.
Netmask	Select the subnet mask.
Gateway	Enter the gateway IP.

*Table*



Click the 'Save' button to save the new AP configuration.

## Global Configuration

The page provides an option to edit or delete a global configuration. The global configuration contains the default settings that will be applied to all APs under management.



The screenshot shows a table titled 'List Global Configuration' with a search bar and a 'Show 10 entries' dropdown. The table has columns for Id, Network Name, Description, Created Date, and Action. There is one entry with Id 1, Network Name 'Rishi\_Network', and Description 'This COnfiguration will use for 2nd Controller of Girish'.

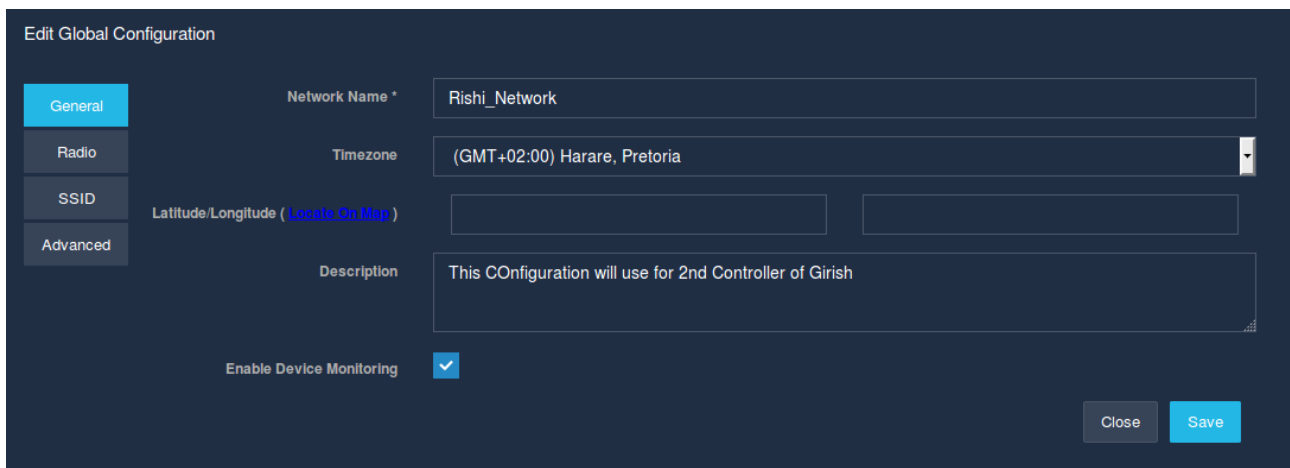
Id	Network Name	Description	Created Date	Action
1	Rishi_Network	This COnfiguration will use for 2nd Controller of Girish	07 Jun 2018 05:29:24	 

*Fig*

### 3.2.6.1 Edit Global Configuration

This page allows the administrator to change an existing global configuration.

The 'Operations' column in the list allows an admin to make changes to the global configuration. To edit a global configuration, click on the edit icon. The changes made will be applied only when the changes are saved. So click on 'Save'.



The screenshot shows the 'Edit Global Configuration' page with a sidebar menu containing 'General', 'Radio', 'SSID', and 'Advanced'. The 'General' tab is active. The form fields are: Network Name \* (Rishi\_Network), Timezone ((GMT+02:00) Harare, Pretoria), Latitude/Longitude (Locate On Map) (two empty input fields), Description (This COnfiguration will use for 2nd Controller of Girish), and Enable Device Monitoring (checked checkbox). There are 'Close' and 'Save' buttons at the bottom right.

*Fig*