

Quick Start Guide for OPEN-MESH Firmware



Version 1.0
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Purpose of this document

1. This document should be used in conjunction with OPEN-MESH guide for configuring your OPEN-MESH firmware in WiFiLAN. Please refer to WiFiLAN administrator guide and OPEN-MESH guide for detail documentation
2. It assumes that the user has basic knowledge of networking including configuring subnet mask, RADIUS setting, default gateway and DNS configuration
3. In order to configure OPEN-MESH you will need a static IP address, subnet mask, default gateway and DNS information given to you by your Internet Service Provider. Please keep this information handy while setting up your gateway
4. Configuring WiFiLAN you will need the WAN MAC address, RADIUS secret and public IP address of your OPEN-MESH gateway
5. Finally, you need an active WiFiLAN account. Please contact Wifi-soft's sales to create your WiFiLAN account

OPEN-MESH Setup

We have assumed that you have properly connected your OPEN-MESH based gateway a broadband connection that has a static or dynamic public IP address. Additionally, your OPEN-MESH gateway admin interface is accessible either via the LAN interface or via the public WAN interface as shown in the figure below.

Log into OPEN-MESH and then go to SSID #1 tab.

The screenshot shows the configuration page for RADIUS and UAM options. It is divided into two main sections: 'Manual RADIUS & Legacy options' (selected) and 'WIFI-CPA Hosted Service'. Under 'Manual RADIUS & Legacy options', there are two sub-sections: 'Other RADIUS Provider' and 'WIFI-CPA Hosted Service'. The 'Other RADIUS Provider' section contains several input fields: RADIUS Server 1 (74.208.147.64), RADIUS Server 2 (69.64.34.236), RADIUS Secret (test123), RADIUS NASID (test01), UAM Server (wifi-soft.com/openmesh/login.php), UAM URL, UAM Secret, and Allowed Domains (www.wifi-soft.com, www.wifi-soft.net). The 'WIFI-CPA Hosted Service' section contains a text box with the following text: 'Hosted solution for user authentication and pay for use. Discontinued. For EXISTING WIFI-CPA hosted customers only.' Below this, there are several text boxes with labels: 'Manually specify your RADIUS and UAM server information.', 'The IP of your first RADIUS server.', 'The IP of your second RADIUS server.', 'The RADIUS Secret (shared key).', 'The NASID assigned to you by your RADIUS provider.', 'The address of the Redirect server (web authentication portal).', 'The location of the login script URL on the UAM Server.', 'The secret password for your UAM server.', and 'A list of domains separated by commas that users can access prior to authentication. Note you should NOT remove default domains from this list or your captive portal may not function. Clear this list to return to'.

(skip the Wifi-soft profile since it is currently configured to work with our Wi-FiLite solution)

From the tab, select the Manual RADIUS & Legacy options. Next select the Other Radius Provider option.

Enter the primary and secondary Radius server IP addresses as shown.

RADIUS Server 1	74.208.78.152
RADIUS Server 2	69.64.34.236

It may be possible that your account has been setup on some other RADIUS server hosted by Wifi-soft. Wifi-soft will provide you explicit instructions if that's the case.

Next, enter the RADIUS secret. The secret should match the Shared Secret entered in Wi-FiLAN. See below.

Give a friendly name for your hotspot under RADIUS NASID section.

Under UAM server, please enter the URL of the login page. The default login page is hosted at

<http://www.wifi-soft.com/portal/openmesh/login>

Please note that the above URL is used for testing only. Please contact Wifi-soft for setting up a separate login URL with custom look and feel.

Leave UAM URL and UAM secret blank.

Lastly, enter the following entries in UAM allowed list (comma separated):

www.wifi-soft.net,www.wifi-soft.com,74.208.78.152,69.64.34.236

You will need to enter the IP address of your DNS server in this list as well.

Save the above settings.

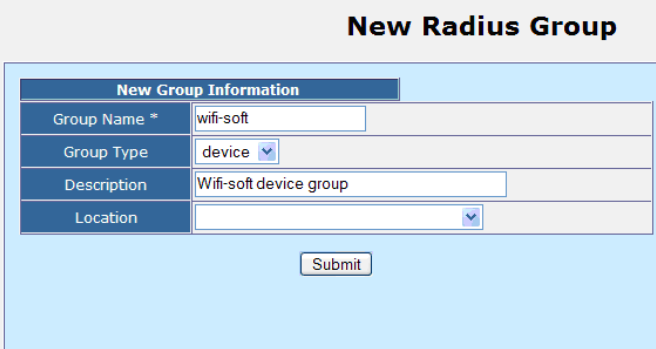
Next connect your open-mesh node to the Internet and make sure that it has correctly registered with the open-mesh dashboard.

Get your laptop and connect to the open-mesh network wirelessly.

If everything works well, you will receive an IP address from the open-mesh and should see the login URL in your browser.

WiFiLAN Setup

1. You need to log into WiFiLAN by pointing your browser to <https://www.wifi-soft.net/wifilan/>
2. Before you add your first gateway in RADIUS section, you need to create a device group to organize your gateways. To create a new device group, click on the RADIUS menu option and then on the Groups submenu.



New Group Information	
Group Name *	wifi-soft
Group Type	device
Description	Wifi-soft device group
Location	

Submit

3. Next you can a location entry for your new hotspot location. Although this step is optional, we highly recommend that you create a location entry since it helps you organize your hotspot locations and generate various location specific reports. To create a new location entry, click on RADIUS menu and then on the Location submenu. You need to click on New Location tab to enter a new location.

New Location

Location Information	
Location Name *	Cafe House
Address	120 Range Hill Road
City-State *	Austin - TEXAS <input type="button" value="Near"/>
Zipcode	76729
Latitude	
Longitude	
Type	Coffee Shop
<input type="button" value="Submit"/>	

- Once the location entry for your hotspot is created, you may proceed to add your first gateway entry. To add a new gateway, click on the RADIUS menu and then on the Gateway submenu. Click on the New Gateway tab to add a new gateway.

The description of each parameter is as follows:

Gateway Information	
Hotspot Name *	Openmesh Test
Device UserName	
Device Password	
IP Address *	45.219.32.98
Secret *	test123
Device Group *	wifi-soft
Device Type *	Openmesh
MAC Address	00:12:CF:09:A7:23
Description	
Location	Test Location

- Device Name: A friendly name for the gateway
- UserName & Password: Leave them blank (not used for open-mesh)
- IP Address: Public IP of the gateway
- Secret: The RADIUS secret configured in the gateway
- Device Group: The device group that we created in the previous step
- Device Type: Type of Device
- MAC Address: The MAC address of the WAN port
- Location: The location where the gateway is installed

That's it. You newly configured OPEN-MESH gateway is ready for RADIUS authentication.

Please make sure that you use [username@realm](#) as username on your login pages so that it would be easier for you to support roaming in the future.

Designing OPEN-MESH login pages

WiFiLAN makes it easy for administrators to design OPEN-MESH compatible login pages using the click-and-customize portals. These login pages are hosted on wifi-soft's web server and administrators can configured the URLs under the Chillispot configuration. Please note that the wifi-soft's servers should be listed in the UAM allowed section for the pages to work correctly.

To create a OPEN-MESH compatible login page, click on the Portal menu and then on Authentication -> Login submenu. Next click on the New Login tab to create a new login page.

Select Template and Device	
<input type="radio"/>	Login Template1
<input type="radio"/>	Login Template2
<input checked="" type="radio"/>	WRT Login Template

- **Template** : Select Template design.
- **Device** : Select device for which to design page.
- **Pagename** : Template name
- **Title** : Title of template window.
- **Has Terms & Conditions** : Whether template has Terms and conditions.
- **Has Ads** : Whether template has Ads.

The third template (WRT login template) is used to create OPEN-MESH login page. For further instructions for creating login page, please refer to WiFiLAN administration guide.

Once the login page is customized and the changes are saved, WiFiLAN will generate a URL for the page. For example:

https://www.wifi-soft.net/portal/chilli_template1.php?pid=43894391112

This URL can be directly configured in the Chillispot configuration of your router.

These instructions will help you get started with OPEN-MESH compatible routers. For advanced configuration, please contact Wifi-soft's support team.