

Configure Media Access Control (MAC) Address Filtering on a Wireless Access Point (WAP)

Objective

Media Access Control (MAC) Address filtering lets you list down the MAC addresses of the wireless clients connected to your network, effectively creating a known-only devices list. You can then grant or deny permission for these devices on the list to connect to the network and its resources, depending on your requirement.

MAC address filtering can be enabled or disabled per Virtual Access Point (VAP) on a wireless router and a wireless access point (WAP). In addition, a VAP can be configured to look at a MAC filter list on an external Remote Authentication Dial-In User Service (RADIUS) server.

In this scenario, a list of MAC addresses will be denied permission to connect to the network and its resources. This means that even if these devices have the correct password, they still cannot establish a connection to the WAP and its wireless network.

This article aims to show you how to configure MAC address filtering on a WAP.

Applicable Devices

- WAP131
- WAP351
- WAP371

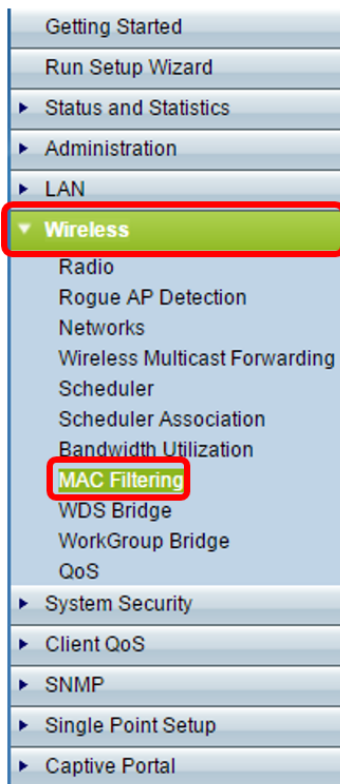
Software Version

- 1.0.2.14 — WAP131, WAP351
- 1.3.0.4 — WAP371

Configure MAC Address Filtering

Add a MAC Address to the List

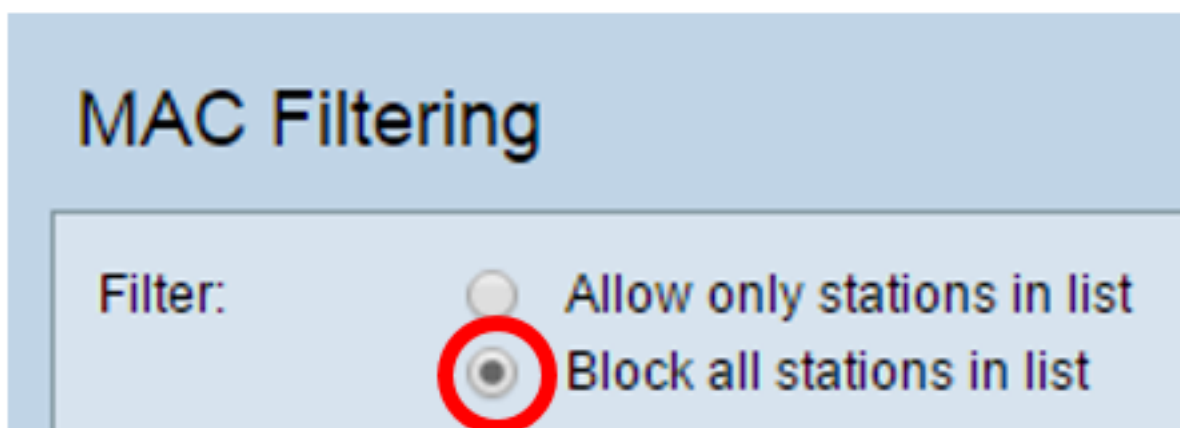
Step 1. Log in to the web-based utility of the access point and choose **Wireless > MAC Filtering**.



Step 2. Choose the appropriate filter to be deployed in the Filter area. The options are:

- Allow only stations in list — This option only lets devices with its MAC address included in the filter list to connect to the network. All others will be blocked.
- Block all stations in list — This option denies connection requests from devices whose MAC addresses are in the filter list. All others will be allowed.

Note: In this example, Block all stations in list is chosen.



Step 3. In the *MAC Address* fields, enter the MAC Address you want to add to the list.

Filter: Allow only stations in list
 Block all stations in list

Stations List:

[Remove](#)

MAC Address: : : : : :

Note: In this example, a device that has the MAC address 28:f0:76:2a:21:92 is added to the list.

Step 4. Click the **Add** button.

Filter: Allow only stations in list
 Block all stations in list

Stations List:

[Remove](#)

MAC Address: : : : : : [Add](#) (xx:xx:xx:xx:xx:xx)

Step 5. Verify that the MAC address you added appears inside the Stations List box and then, click **Save**.

Filter: Allow only stations in list
 Block all stations in list

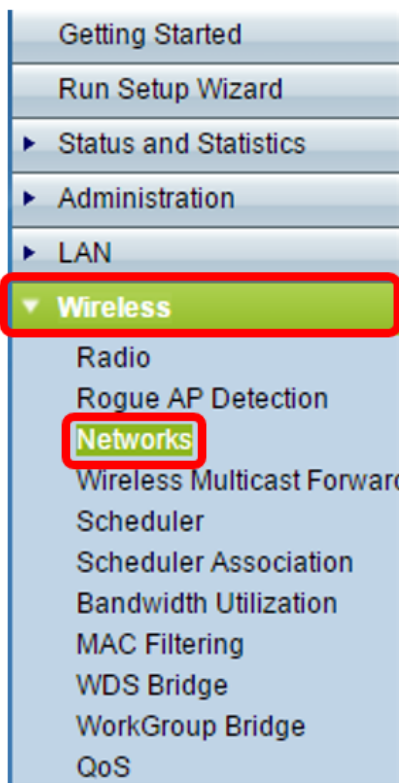
Stations List:

MAC Address: : : : : : (xx:xx:xx:xx:xx:xx)

You now have successfully added a MAC Address to the MAC Filter list.

Apply the MAC Filter List to a VAP

Step 1. Choose **Wireless > Networks**.



Step 2. Choose the Radio for the VAP where the filter list needs to be applied to.

Select the radio interface first, and then enter the configuration parameters.

Radio: Radio 1 (5 GHz)
 Radio 2 (2.4 GHz)

Note: In this example, Radio 1 (5 GHz) is chosen.

Step 3. Choose the SSID where the filter list needs to be applied to.

Virtual Access Points (SSIDs)					
	VAP No.	Enable	VLAN ID	SSID Name	SSID Broadcast
<input checked="" type="checkbox"/>	0	<input checked="" type="checkbox"/>	1	ForMAC	<input checked="" type="checkbox"/>

Note: In this example, the filter will be applied to the ForMAC network.

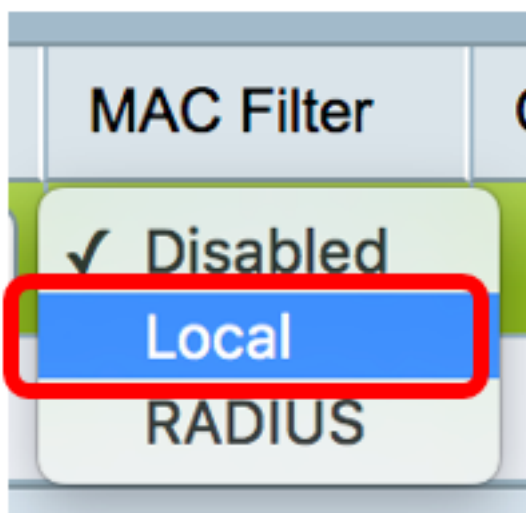
Step 4. Click the **Edit** button.

Virtual Access Points (SSIDs)					
	VAP No.	Enable	VLAN ID	SSID Name	SSID Broadcast
<input checked="" type="checkbox"/>	0	<input checked="" type="checkbox"/>	1	ForMAC	<input checked="" type="checkbox"/>

Add Edit Delete

Step 5. Choose the source of the filter from the MAC Filter drop-down list. The options are:

- Disabled — This option deactivates MAC Filtering on the chosen VAP.
- Local — This option uses the list created in the Access point.
- RADIUS — This option makes use of a RADIUS server for the MAC filter.



Note: In this example, Local is chosen.

Step 6. Click **Save**.

Select the radio interface first, and then enter the configuration parameters.

Radio: Radio 1 (5 GHz)
 Radio 2 (2.4 GHz)

Virtual Access Points (SSIDs)							
	VAP No.	Enable	VLAN ID	SSID Name	SSID Broadcast	Security	MAC Filter
<input checked="" type="checkbox"/>	0	<input checked="" type="checkbox"/>	1	ForMAC	<input checked="" type="checkbox"/>	WPA Personal	Local

[Show Details](#)

You should now have applied MAC filtering to the chosen VAP. The device whose MAC address is listed will not be able to establish a connection to the network even if the correct password is entered.

The Wi-Fi network "ForMAC" requires a WPA2 password.

Password:

Show password
 Remember this network

Connection failed.

Delete a MAC Address from the List

Step 1. In the Stations List area, choose the MAC address that needs to be removed.

Filter: Allow only stations in list
 Block all stations in list

Stations List: 28:f0:76:2a:21:92

Note: In this example, 28:f0:76:2a:21:92 is chosen.

Step 2. Click the **Remove** button.

Filter: Allow only stations in list
 Block all stations in list

Stations List: 28:f0:76:2a:21:92

Remove

Save

Step 3. Click

You now have successfully removed a MAC address from the MAC Filter list.