

# MAC Filtering for an SSID on the RV130W

## Objective

MAC Filtering allows you to permit or deny access to the wireless network based on the MAC (hardware) address of the requesting device. Since the RV130W supports more than one Service Set Identifier (SSID), which is a unique identifier that wireless clients can connect to, you can set MAC Filtering for each SSID. For example, you can enter the MAC addresses of a set of computers and only allow those computers to access the network. As a result, you can effectively manage the members of your network. You can configure MAC Filtering for each wireless network on the RV130W.

The objective of this document is to explain how to configure the MAC Filtering settings on the RV130W.

## Applicable Devices

- RV130W

## Steps of Procedure

Step 1. Log in to the web configuration utility and choose **Wireless > Basic Settings**. The *Basic Settings* page opens:

The screenshot shows the 'Basic Settings' page. At the top, there are several configuration options: 'Radio' is checked and set to 'Enable'; 'Wireless Network Mode' is set to 'B/G/N-Mixed'; 'Wireless Band Selection' has '20MHz' selected; 'Wireless Channel' is set to 'Auto'; 'AP Management VLAN' is set to '1'; and 'U-APSD (WMM Power Save)' is checked and set to 'Enable'.

Below these settings is a table titled 'Wireless Table' with the following columns: 'Enable SSID', 'SSID Name', 'SSID Broadcast', 'Security Mode', 'MAC Filter', 'VLAN', 'Wireless Isolation with SSID', 'WMM', 'Max Associated clients', 'WPS', and 'Captive Portal' (which includes 'Portal Profile' and 'Enable').

Enable SSID	SSID Name	SSID Broadcast	Security Mode	MAC Filter	VLAN	Wireless Isolation with SSID	WMM	Max Associated clients	WPS	Captive Portal
<input checked="" type="checkbox"/>	SSIDName1	<input checked="" type="checkbox"/>	WPA2-Personal	Disabled	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16	<input checked="" type="checkbox"/>	cisco1
<input type="checkbox"/>	ciscosb2	<input type="checkbox"/>	Disabled	Disabled	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	Please select a Profile
<input type="checkbox"/>	ciscosb3	<input type="checkbox"/>	Disabled	Disabled	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	Please select a Profile
<input type="checkbox"/>	ciscosb4	<input type="checkbox"/>	Disabled	Disabled	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	Please select a Profile

Below the table are buttons for 'Edit', 'Edit Security Mode', 'Edit MAC Filtering', 'Time of Day Access', and 'Edit WPS'. At the bottom of the page are 'Save' and 'Cancel' buttons.

Step 2. Check the check box of the Service Set Identifier (SSID) that you want to edit. Click the **Edit MAC Filtering** button to configure MAC Filtering for an SSID.

Basic Settings

Radio: ☒ Enable

Wireless Network Mode: B/G/N-Mixed

Wireless Band Selection: ☒ 20MHz ☐ 20/40MHz

Wireless Channel: Auto

AP Management VLAN: 1

U-APSD (WMM Power Save): ☒ Enable

Wireless Table

<input type="checkbox"/>	Enable SSID	SSID Name	SSID Broadcast	Security Mode	MAC Filter	VLAN	Wireless Isolation with SSID	WMM	Max Associated clients	WPS	Captive Portal	
											Portal Profile	Enable
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ON	SSIDName1	<input checked="" type="checkbox"/>	WPA2-Personal	Disabled	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16	<input checked="" type="checkbox"/>	cisco1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> OFF	ciscosb2	<input type="checkbox"/>	Disabled	Disabled	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	Please select a Profile	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> OFF	ciscosb3	<input type="checkbox"/>	Disabled	Disabled	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	Please select a Profile	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> OFF	ciscosb4	<input type="checkbox"/>	Disabled	Disabled	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	Please select a Profile	<input type="checkbox"/>

Edit

Edit Security Mode

Edit MAC Filtering

Time of Day Access

Edit WPS

Save

Cancel

The *MAC Filtering* page opens:

## Wireless MAC Filter

SSID: SSIDName1

Wireless MAC Filter: ☐ Enable

### Connection Control

- ☐ **Prevent** PCs listed below from accessing the wireless network.  
☒ **Permit** PCs listed below to access the wireless network.

Show Client List

### MAC Address Table

No.	MAC Address	No.	MAC Address	No.	MAC Address
01	<input type="text"/>	23	<input type="text"/>	45	<input type="text"/>
02	<input type="text"/>	24	<input type="text"/>	46	<input type="text"/>
03	<input type="text"/>	25	<input type="text"/>	47	<input type="text"/>
04	<input type="text"/>	26	<input type="text"/>	48	<input type="text"/>
05	<input type="text"/>	27	<input type="text"/>	49	<input type="text"/>
06	<input type="text"/>	28	<input type="text"/>	50	<input type="text"/>
07	<input type="text"/>	29	<input type="text"/>	51	<input type="text"/>
08	<input type="text"/>	30	<input type="text"/>	52	<input type="text"/>
09	<input type="text"/>	31	<input type="text"/>	53	<input type="text"/>
10	<input type="text"/>	32	<input type="text"/>	54	<input type="text"/>
11	<input type="text"/>	33	<input type="text"/>	55	<input type="text"/>
12	<input type="text"/>	34	<input type="text"/>	56	<input type="text"/>
13	<input type="text"/>	35	<input type="text"/>	57	<input type="text"/>
14	<input type="text"/>	36	<input type="text"/>	58	<input type="text"/>
15	<input type="text"/>	37	<input type="text"/>	59	<input type="text"/>
16	<input type="text"/>	38	<input type="text"/>	60	<input type="text"/>
17	<input type="text"/>	39	<input type="text"/>	61	<input type="text"/>
18	<input type="text"/>	40	<input type="text"/>	62	<input type="text"/>
19	<input type="text"/>	41	<input type="text"/>	63	<input type="text"/>
20	<input type="text"/>	42	<input type="text"/>	64	<input type="text"/>
21	<input type="text"/>	43	<input type="text"/>		
22	<input type="text"/>	44	<input type="text"/>		

Save

Cancel

Back

Step 3. In the *Wireless MAC Filter* field, check the **Enable** check box to enable MAC Filtering for the selected SSID.

SSID: SSIDName1

Wireless MAC Filter: ☐ Enable

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**Connection Control**

☐ **Prevent** PCs listed below from accessing the wireless network.

☒ **Permit** PCs listed below to access the wireless network.

**Show Client List**

Step 4. In the **Connection Control** field, choose the radio button corresponding to the type of access you want to the wireless network.

SSID: SSIDName1

Wireless MAC Filter: ☒ Enable

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**Connection Control**

☐ **Prevent** PCs listed below from accessing the wireless network.

☒ **Permit** PCs listed below to access the wireless network.

**Show Client List**

The available options are defined as follows:

- **Prevent** — Prevents devices with the MAC addresses listed in the *MAC Address Table* from accessing the wireless network. Prevent is the default option. Any devices not listed in the *MAC Address Table* will be able to access the network.
- **Permit** — Allows devices with the MAC addresses listed in the *MAC Address Table* to access the wireless network. Any devices not listed in the *MAC Address Table* will not be able to access the network.

Step 5. To show computers and other devices on the wireless network, click **Show Client List**.

SSID: SSIDName1

Wireless MAC Filter: ☒ Enable

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**Connection Control**

☐ **Prevent** PCs listed below from accessing the wireless network.

☒ **Permit** PCs listed below to access the wireless network.

**Show Client List**

The *Client List Table* appears:

SSID: SSIDName1


Wireless MAC Filter: ☒ Enable

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**Connection Control**

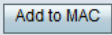
☐ Prevent PCs listed below from accessing the wireless network.

☒ Permit PCs listed below to access the wireless network.

 Hide Client List

You must save before you can edit or delete.

Client List Table				
Client Name	IP Address	MAC Address	Status	Save to MAC Address Filter List
		55:55:55:55:55:55	Connected	<input type="checkbox"/>
		55:55:55:55:55:5A	Connected	<input type="checkbox"/>



Step 6. Check the check box in the *Save to MAC Address Filter List* field for devices you want to add to the *MAC Address Table*. If your device is not listed in the *Client List Table*, make sure you connect it to the wireless network.

SSID: SSIDName1


Wireless MAC Filter: ☒ Enable

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**Connection Control**

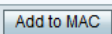
☐ Prevent PCs listed below from accessing the wireless network.

☒ Permit PCs listed below to access the wireless network.

 Hide Client List

You must save before you can edit or delete.

Client List Table				
Client Name	IP Address	MAC Address	Status	Save to MAC Address Filter List
		55:55:55:55:55:55	Connected	<input checked="" type="checkbox"/>
		55:55:55:55:55:5A	Connected	<input type="checkbox"/>



Step 7. Click **Add to MAC** to add the selected devices in the *Client List Table* to the *MAC Address Table*.

SSID: SSIDName1


Wireless MAC Filter: ☒ Enable

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**Connection Control**

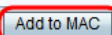
☐ Prevent PCs listed below from accessing the wireless network.

☒ Permit PCs listed below to access the wireless network.

 Hide Client List

You must save before you can edit or delete.

Client List Table				
Client Name	IP Address	MAC Address	Status	Save to MAC Address Filter List
		55:55:55:55:55:55	Connected	<input checked="" type="checkbox"/>
		55:55:55:55:55:5A	Connected	<input type="checkbox"/>



The devices are added to the *MAC Address Table*.

Wireless MAC Filter

SSID: SSIDName1

Wireless MAC Filter: ☒ Enable

Connection Control

☐ Prevent PCs listed below from accessing the wireless network.
 ☒ Permit PCs listed below to access the wireless network.

You must save before you can edit or delete.

Client List Table

Client Name	IP Address	MAC Address	Status	Save to MAC Address Filter List
		55:55:55:55:55:55	Connected	<input checked="" type="checkbox"/>
		55:55:55:55:55:5A	Connected	<input type="checkbox"/>

Add to MAC

MAC Address Table

No.	MAC Address	No.	MAC Address	No.	MAC Address
01	55:55:55:55:55:55	23		45	
02		24		46	
03		25		47	
04		26		48	
05		27		49	

Step 8. (Optional) If you want to add devices that are currently not connected to your SSID, enter the MAC Address of the device into the *MAC Address Table*.

Step 9. Click **Save** to save your settings.

06		28		50	
07		29		51	
08		30		52	
09		31		53	
10		32		54	
11		33		55	
12		34		56	
13		35		57	
14		36		58	
15		37		59	
16		38		60	
17		39		61	
18		40		62	
19		41		63	
20		42		64	
21		43			
22		44			

Save

Cancel

Back