

Configure Static Dynamic Host Configuration Protocol (DHCP) on an RV Series Router

Objective

Static Dynamic Host Configuration Protocol (DHCP) or DHCP Reservation, lets the DHCP server of the router assign the same Internet Protocol (IP) address to a host in your Local Area Network (LAN). This is done by associating one IP address to one Media Access Control (MAC) address. Although it requires additional configuration, employing static DHCP makes it easy to troubleshoot the network. Static DHCP also helps devices on a LAN connect to each other easier. A classic example of using static DHCP is when setting up a web server that is accessible outside the network.

This article aims to show you how to configure static DHCP settings on an RV Series Router.

Applicable Devices

- RV Series

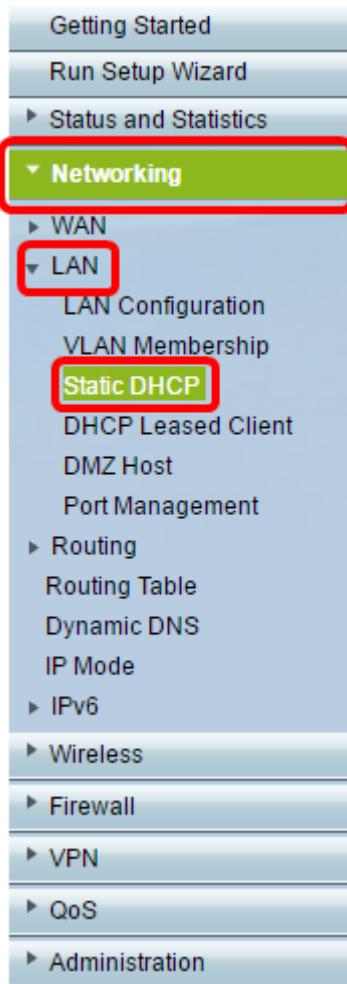
Software Version

- 1.2.1.7 — RV110W
- 1.0.3.16 — RV130, RV130W
- 1.0.0.17 — RV132W
- 1.0.0.21 — RV134W

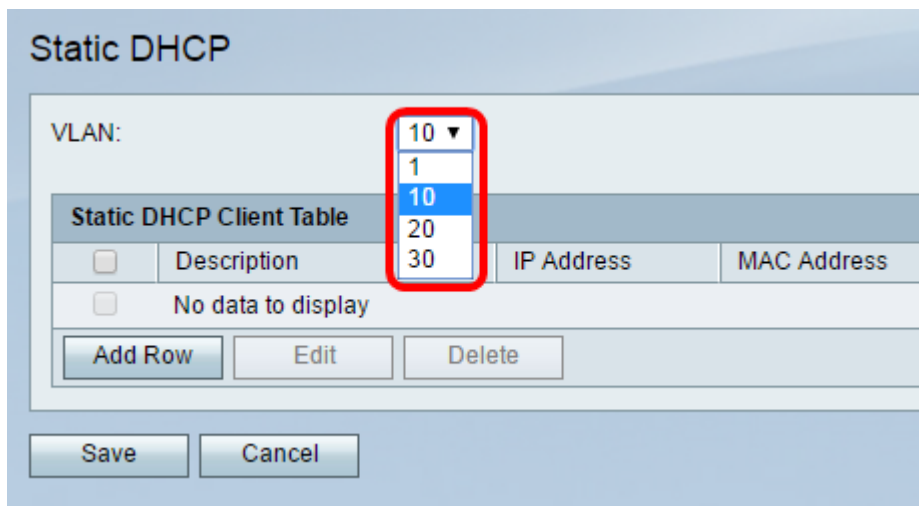
Configure Static DHCP

Step 1. Log in to the web-based utility and choose **Networking > LAN > Static DHCP**.

Note: The images on this article are taken from the RV132W Router. Menu options may vary per model.



Step 2. On the VLAN drop-down list, choose the Virtual Local Area Network (VLAN) to work on. In this example, VLAN 10 is chosen.



Step 3. In the Static DHCP Client Table, click **Add Row**.

Note: If you need to edit an existing item, check the check box that corresponds to the item you want to edit and then click **Edit**.

Static DHCP

VLAN:

Static DHCP Client Table			
<input type="checkbox"/>	Description	IP Address	MAC Address
<input type="checkbox"/>	No data to display		
<input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>			

Step 4. In the *Description* field, enter a name for the client. This briefly describes the host. In this example, Station 123 is entered.

Static DHCP

VLAN:

You must save before you can edit or delete.

Static DHCP Client Table			
<input type="checkbox"/>	Description	IP Address	MAC Address
<input type="checkbox"/>	Station 123	<input type="text"/>	<input type="text"/>
<input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>			

Step 5. In the *IP Address* field, enter the IP address that you need to link to a MAC address.

Note: In this example, the IP Address used is 10.10.10.123.

Static DHCP

VLAN:

You must save before you can edit or delete.

Static DHCP Client Table			
<input type="checkbox"/>	Description	IP Address	MAC Address
<input type="checkbox"/>	Station 123	10.10.10.123	<input type="text"/>
<input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>			

Step 6. In the *MAC Address* field, enter the MAC address of the host that you want to link to the IP address in Step 5. In this example, XX:XX:XX:XX:XX:XX is used. This step associates the MAC address of the host in Station 123 to the IP address 10.10.10.123 that will be assigned by the DHCP server.

Static DHCP

VLAN: 10 ▼

You must save before you can edit or delete.

<input type="checkbox"/>	Description	IP Address	MAC Address
<input type="checkbox"/>	Station 123	10.10.10.123	XX:XX:XX:XX:XX:XX

Add Row Edit Delete

Save Cancel

Step 7. Click **Save**.

Static DHCP

VLAN: 10 ▼

You must save before you can edit or delete.

<input type="checkbox"/>	Description	IP Address	MAC Address
<input type="checkbox"/>	Station 123	10.10.10.123	XX:XX:XX:XX:XX:XX

Add Row Edit Delete

Save Cancel

You should now have successfully configured static DHCP on your RV Series Router.