

Routing Settings on the RV110W

Objective

The RV110W sends data traffic along different paths in a network through the act of routing. Paths can connect devices to other devices on the same or different network or to the Internet. This article explains how to configure routing settings on the RV110W.

Applicable Devices

- RV110W

Steps of Procedure

Step 1. Use the web configuration utility to choose **Networking > Routing**.



The screenshot displays the 'Routing' configuration page in the RV110W web interface. The page is divided into several sections:

- Operating Mode:** Features two radio buttons: 'Gateway' (which is selected) and 'Router'.
- Dynamic Routing:** Includes a checkbox for 'RIP' (currently unchecked). Below it are two rows of radio buttons for 'RIP Send Packet Version' and 'RIP Recv Packet Version', both with 'RIPv2' selected.
- Static Routing:** Shows a dropdown menu for 'Route Entries' with '1 ()' selected and a 'Delete This Entry' button. Below this are input fields for 'Enter Route Name', 'Destination LAN IP' (with a hint of 192.168.2.100), 'Subnet Mask' (with a hint of 255.255.255.0), and 'Gateway' (with a hint of 192.168.1.100). The 'Interface' section has two radio buttons: 'LAN & Wireless' (selected) and 'Internet (WAN)'.
- Inter-VLAN Routing:** Contains a checkbox for 'Inter-VLAN Routing' (currently unchecked).

At the bottom of the page, there are 'Save' and 'Cancel' buttons.

Step 2. To the right of Operating Mode, click the **Gateway** radio button to set the RV110W to act as a router and to connect the network to the Internet, or click the **Router** radio button to set the RV110W to act only as a router.

Note: If you choose Gateway, skip to Step 6.

Step 3. To the right of RIP, check the **Enable** checkbox to allow the Routing Information Protocol (RIP) to automatically adapt the network when changes occur in the network layout.

Step 4. To the right of RIP Send Packet Version, click the **RIPv1** radio button to send RIPv1 packets which are only compatible with RIPv1 networks, or click the **RIPv2** radio button to send RIPv2 packets which are compatible with RIPv1 and RIPv2 networks.

Step 5. To the right of RIP Recv Packet Version, click the **RIPv1** radio button to receive RIPv1 packets, or click the **RIPv2** radio button to receive RIPv2 and RIPv2 packets.

Step 6. From the Route Entries drop-down menu, choose an unused route number to make a direct path to a destination network.



The screenshot shows a web-based configuration interface for routing. The main heading is "Routing". Under "Operating Mode", "Gateway" is selected. Under "Dynamic Routing", "RIP" is disabled, and both "RIP Send Packet Version" and "RIP Recv Packet Version" are set to "RIPv2". Under "Static Routing", there is one route entry selected, "1 ()", with a "Delete This Entry" button. The "Enter Route Name" field is highlighted with a red box and contains the text "Route1". Below this are fields for "Destination LAN IP", "Subnet Mask", and "Gateway", each with a hint: "0 . 0 . 0 . 0 (Hint: 192.168.2.100)", "0 . 0 . 0 . 0 (Hint: 255.255.255.0)", and "0 . 0 . 0 . 0 (Hint: 192.168.1.100)" respectively. The "Interface" is set to "LAN & Wireless". Under "Inter-VLAN Routing", it is disabled. At the bottom are "Save" and "Cancel" buttons.

Step 7. In the Enter Route Name field, enter a name for the route.

Routing

Operating Mode

Operating Mode: Gateway Router

Dynamic Routing

RIP: Enable

RIP Send Packet Version: RIPv1 RIPv2

RIP Recv Packet Version: RIPv1 RIPv2

Static Routing

Route Entries: 1 ()

Enter Route Name:

Destination LAN IP: . . . (Hint: 192.168.2.100)

Subnet Mask: . . . (Hint: 255.255.255.0)

Gateway: . . . (Hint: 192.168.1.100)

Interface: LAN & Wireless Internet (WAN)

Inter-VLAN Routing

Inter-VLAN Routing: Enable

Step 8. In the Destination LAN IP field, enter an IP address to which the direct path connects.

Routing

Operating Mode

Operating Mode: Gateway Router

Dynamic Routing

RIP: Enable

RIP Send Packet Version: RIPv1 RIPv2

RIP Recv Packet Version: RIPv1 RIPv2

Static Routing

Route Entries: 1 ()

Enter Route Name:

Destination LAN IP: . . . (Hint: 192.168.2.100)

Subnet Mask: . . . (Hint: 255.255.255.0)

Gateway: . . . (Hint: 192.168.1.100)

Interface: LAN & Wireless Internet (WAN)

Inter-VLAN Routing

Inter-VLAN Routing: Enable

Step 9. In the Subnet Mask field, enter the subnet mask for the destination LAN IP address.

Routing

Operating Mode

Operating Mode: Gateway Router

Dynamic Routing

RIP: Enable

RIP Send Packet Version: RIPv1 RIPv2

RIP Recv Packet Version: RIPv1 RIPv2

Static Routing

Route Entries: 1 ()

Enter Route Name:

Destination LAN IP: . . . (Hint: 192.168.2.100)

Subnet Mask: . . . (Hint: 255.255.255.0)

Gateway: . . . (Hint: 192.168.1.100)

Interface: LAN & Wireless Internet (WAN)

Inter-VLAN Routing

Inter-VLAN Routing: Enable

Step 10. In the Gateway field, enter the gateway IP address for the direct path.

Step 11. To the right of Interface, click the **LAN & Wireless** radio button to direct packets to a LAN and wireless network, or click the **Internet (WAN)** to direct packets to the Internet.

Step 12. To the right of Inter-VLAN Routing, check the **Enable** checkbox to send packets with the VLAN.

Step 13. Click **Save** to save changes or **Cancel** to discard them.