



Article ID: 4987

VLAN Membership on RV130 and RV130W

Objective

A VLAN is a group of devices that are configured to act as a single network. Devices on a VLAN do not need to be located on the same LAN. Access ports are typically untagged, meaning only one VLAN passes through the interface. According to the 802.1Q standard, adding VLAN identification tags to a frame is required if you want to identify different VLANs. If you want multiple VLANs to pass through a switch interface, those VLANs need to be tagged by configuring a trunk port on a Cisco switch. Excluded ports are not identified as a member of the VLAN.

This document shows you how to add VLANs on the RV130 and RV130W.

Applicable Devices

- RV130
- RV130W

VLAN Membership Settings

Step 1. Use the router configuration utility to choose **Networking > LAN > VLAN Membership**. The *VLAN Membership* page opens:

The screenshot shows the "VLAN Membership" configuration page. At the top, it says "Create VLANs and assign the Outgoing Frame Type. Up to four VLANs total can be created. VLAN IDs must be in the range (3 - 4094)". Below this is a table titled "VLANs Setting Table".

Select	VLAN ID	Description	Port 1	Port 2	Port 3	Port 4
<input type="checkbox"/>	1	Default	Untagged	Untagged	Untagged	Untagged

Below the table are buttons for "Add Row", "Edit", and "Delete". At the bottom of the page are "Save" and "Cancel" buttons.

Step 2. In the *VLAN Membership* page, click **Add Row** to add a VLAN.

VLAN Membership

Create VLANs and assign the Outgoing Frame Type.
Up to four VLANs total can be created. VLAN IDs must be in the range (3 - 4094)

VLANs Setting Table								
Select	VLAN ID	Description	Port 1	Port 2	Port 3	Port 4		
<input type="checkbox"/>	1	Default	Untagged	Untagged	Untagged	Untagged		
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>						

Step 3. Enter a VLAN ID for the new VLAN in the *VLAN ID* field. The ID must be in the range (3- 4094).

VLAN Membership

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You must save before you can edit or delete.

VLANs Setting Table								
Select	VLAN ID	Description	Port 1	Port 2	Port 3	Port 4		
<input type="checkbox"/>	1	Default	Untagged	Untagged	Untagged	Untagged		
<input type="checkbox"/>	100	test	Tagged	Tagged	Tagged	Tagged		
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>						

Step 4. Enter a description for the new VLAN in the *Description* field.

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VLANs Setting Table								
Select	VLAN ID	Description	Port 1	Port 2	Port 3	Port 4		
<input type="checkbox"/>	1	Default	Untagged	Untagged	Untagged	Untagged		
<input type="checkbox"/>	100	test	Tagged	Tagged	Tagged	Tagged		
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>						

Step 5. Choose the type for each port from the corresponding drop-down list.

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Select	VLAN ID	Description	Port 1	Port 2	Port 3	Port 4
<input type="checkbox"/>	1	Default	Untagged	Untagged	Untagged	Untagged
<input type="checkbox"/>			Tagged	Tagged	Tagged	Tagged

Buttons: Add Row, Edit, Delete, Save, Cancel

The available options are defined as follows:

- **Tagged** — Specifies that the association between a given VLAN and the port is tagged. The ingress traffic on this port will be forwarded to the given VLAN based on the information present on the tag in the frame. Egress traffic on this port will have the VLAN tag preserved when association is tagged.
- **Untagged** — Specifies that the association between a given VLAN and the port is untagged. Egress Traffic from this VLAN port is also untagged. When your port is untagged, the ingress traffic coming into this port is forwarded to the VLAN's untagged association with the port.
- **Excluded** — Specifies that there is no association between the given VLAN and port. Neither ingress nor egress traffic will be allowed from this port.

Step 6. Click **Save** to save the changes.

VLAN Membership

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You must save before you can edit or delete.

Select	VLAN ID	Description	Port 1	Port 2	Port 3	Port 4
<input type="checkbox"/>	1	Default	Untagged	Untagged	Untagged	Untagged
<input type="checkbox"/>			Tagged	Tagged	Tagged	Tagged

Buttons: Add Row, Edit, Delete, Save, Cancel