

Creating VLANs with Cisco RV0xx Routers

Many small businesses use Virtual LANs (VLANs) to segment the network into smaller, more manageable units. Some security concerns can be addressed by limiting access to sensitive resources. In addition, network performance can be improved because broadcast traffic for a VLAN goes only to the devices on the VLAN.

On Cisco RV0xx routers, all devices connected to a port are part of the same VLAN. By default, all ports are configured to VLAN1. However, you can associate ports with separate VLANs to meet your needs. You might find it beneficial to configure VLANs based on user groups, such as guests and employees, or traffic types, such as data and voice. For example, a network administrator wanted to provide Internet access to guest users in a conference room. However, she did not want guests to access servers that stored sensitive business information. She configured Ports 1 and 2 on VLAN 2 and left all remaining ports on VLAN1. When a guest connects a laptop to an Ethernet port in the conference room, he has access to the Internet but not to the devices on VLAN1.

To configure a VLAN:

- STEP 1** Using a web browser, log on to the RV0xx configuration utility. Click **Port Management > Port Setup** in the navigation tree. The Basic Per Port Configuration table lists all of the ports by the port ID and the interface name.

Port ID	Interface	Disable	Priority	Speed	Duplex	Auto Negotiation	VLAN
1	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
2	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
3	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
4	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
5	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
6	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
7	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
8	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
DMZ/Internet	WAN2	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	
Internet	WAN1	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	

The number of available VLANs equals the number of LAN ports:

- Cisco RV042 and RV042G: 4 ports

Application Note

- Cisco RV082: 8 ports
- RV016: Up to 13, depending on the usage of the dual-function ports

STEP 2 For each port, choose a VLAN from the VLAN drop-down list.

STEP 3 Before navigating away from this page, click **Save** to save your settings, or click **Cancel** to undo them. Any unsaved changes are abandoned.

Related Information

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78-21017-01