

# 802.1X Configuration on RV320 and RV325 VPN Router Series

## Objective

This article explains how to configure 802.1X on the RV32x VPN Router Series.

## Introduction

802.1X is a port-based network access control technology that is used to authenticate devices on a network. 802.1X is composed of three parts. The user or client (called the supplicant) that wants to be authenticated, the server (RADIUS server) that processes the authentication, and the device in between (in this case the RV32x Router) called the authenticator that allows for communication between the authentication server and the supplicants.

## Applicable Devices

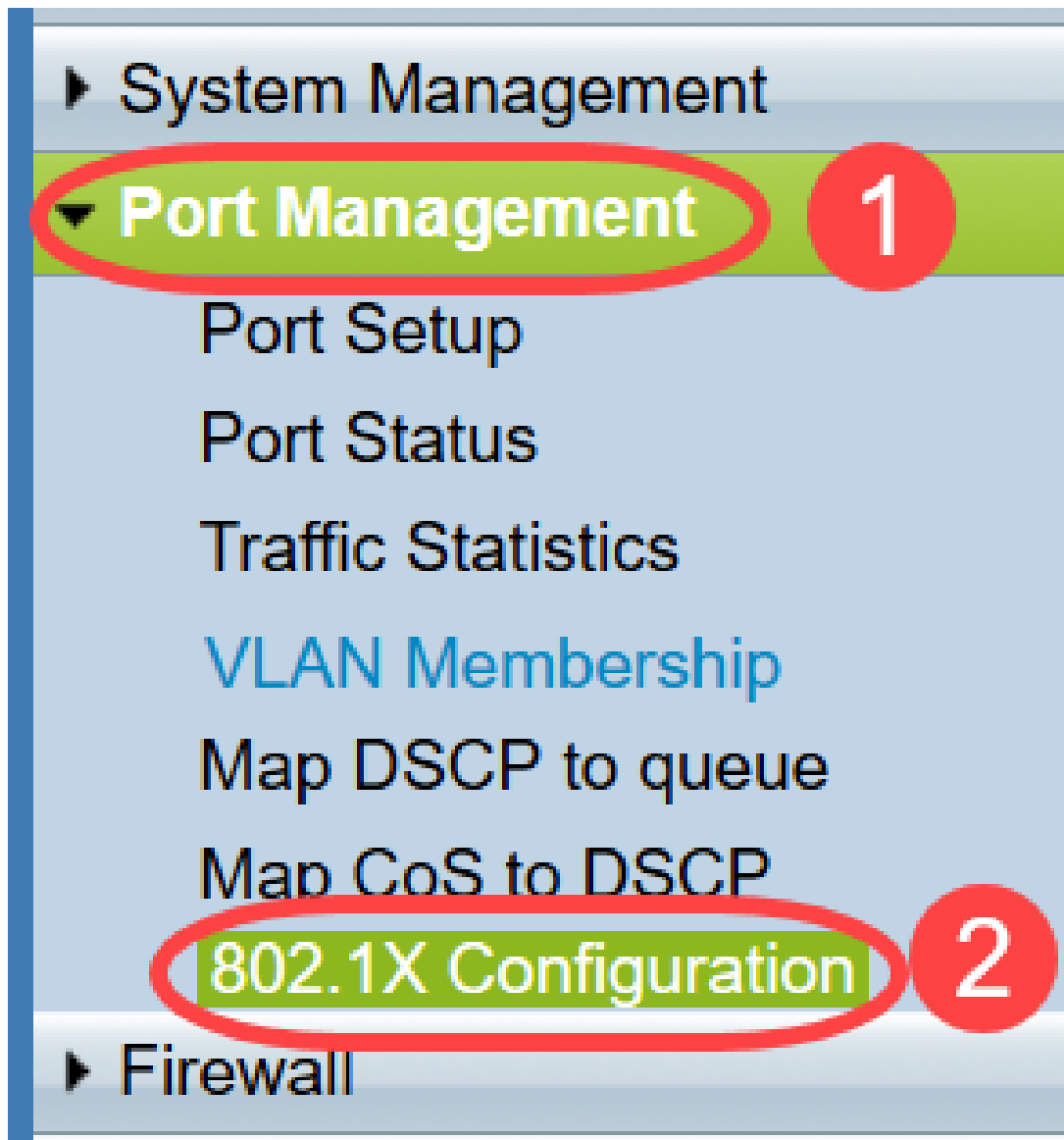
- RV320 Dual WAN VPN Router
- RV325 Gigabit Dual WAN VPN Router

## Software Version

- v1.1.0.09

## 802.1X Configuration

Step 1. Log in to the web configuration utility and choose **Port Management > 802.1X Configuration**.



The *802.1X Configuration* page opens:

## 802.1X Configuration

**Configuration**

Port-Based Authentication

RADIUS IP:

RADIUS UDP Port:

RADIUS Secret:

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**Port Table**

Port	Administrative State	Port State
1	Force Authorized ▾	Authorized
2	Force Unauthorized ▾	Link Down
3	Auto ▾	Link Down
4	Auto ▾	Link Down

Step 2. Check the **Port-Based Authentication** check box to enable RADIUS authentication on the RV32x.

## 802.1X Configuration

**Configuration**

Port-Based Authentication

RADIUS IP:

RADIUS UDP Port:

RADIUS Secret:

Step 3. Enter the IP address of the RADIUS server in the *RADIUS IP* field.

## 802.1X Configuration

### Configuration

Port-Based Authentication

RADIUS IP: 192.168.1.50

RADIUS UDP Port:

RADIUS Secret:

Step 4. Enter the UDP port of the RADIUS server in the *RADIUS UDP Port* field. This is the port that the RADIUS server uses for communication between the RADIUS server and the router.

## 802.1X Configuration

### Configuration

Port-Based Authentication

RADIUS IP: 192.168.1.50

RADIUS UDP Port: 1812

RADIUS Secret:

Step 5. Enter the password that the device uses to authenticate to the RADIUS server in the *RADIUS Secret* field. The secret allows the device and RADIUS server to encrypt passwords and exchange responses. This field must match the secret that is configured on the RADIUS server.

# 802.1X Configuration

## Configuration

Port-Based Authentication

RADIUS IP: 192.168.1.50

RADIUS UDP Port: 1812

RADIUS Secret: SecretKey

Step 6. From the *Administrative State* drop-down list choose the type of authorization that is required for the corresponding port.

- *Force Authorized* - The LAN port is automatically authorized and traffic is forwarded.
- *Force Unauthorized* - The LAN port is automatically unauthorized and traffic is discarded.
- *Auto* - Port-Based authentication is enabled on the LAN port. The port is in an authorized or unauthorized state based on the RADIUS authentication.

# 802.1X Configuration

## Configuration

Port-Based Authentication

RADIUS IP: 192.168.1.50

RADIUS UDP Port: 1812

RADIUS Secret: SecretKey

## Port Table

Port	Administrative State	Port State
1	Force Authorized	Link Down
2	Force Authorized	Link Down
3	Force Unauthorized	Link Down
4	Auto	Authorized
5	Force Authorized	Link Down

### Note:

- The RV325 has fourteen available ports.
- The *Port State* column displays the current state of the port. **Authorized** is displayed if the port has a connection and is authorized. **Link down** is displayed if there is no connection on

the port or the port is unauthorized.

Step 7. Click **Save**. The 802.1X configuration is saved.

### 802.1X Configuration

**Configuration**

Port-Based Authentication

RADIUS IP:

RADIUS UDP Port:

RADIUS Secret:

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**Port Table**

Port	Administrative State	Port State
1	Force Authorized <input type="text"/>	Link Down
2	Force Authorized <input type="text"/>	Link Down
3	Force Authorized <input type="text"/>	Link Down
4	Force Authorized <input type="text"/>	Authorized
5	Force Authorized <input type="text"/>	Link Down
6	Force Authorized <input type="text"/>	Link Down
7	Force Authorized <input type="text"/>	Link Down
8	Force Authorized <input type="text"/>	Link Down
9	Force Authorized <input type="text"/>	Link Down
10	Force Authorized <input type="text"/>	Link Down
11	Force Authorized <input type="text"/>	Link Down
12	Force Authorized <input type="text"/>	Link Down
13	Force Authorized <input type="text"/>	Link Down
14	Force Authorized <input type="text"/>	Link Down

You have now successfully configured 802.1X on the RV32x VPN Router Series.