Configure Port Address Translation (PAT) on RV320 and RV325 VPN Router Series

Objective

The objective of this document is to show you how to configure port address translation (PAT) on the RV32x Series VPN Routers.

Introduction

PAT is an extension of Network Address Translation (NAT). NAT is the process used to convert private IP addresses to public IP addresses. It helps to protect the private IP addresses from any malicious attacks or discovery as the private IP addresses are kept hidden. It allows multiple Local Area Network (LAN) devices to share the same public IP but different port numbers. This protects the private IPs as well as distinguishing each device from the others.

Applicable Devices

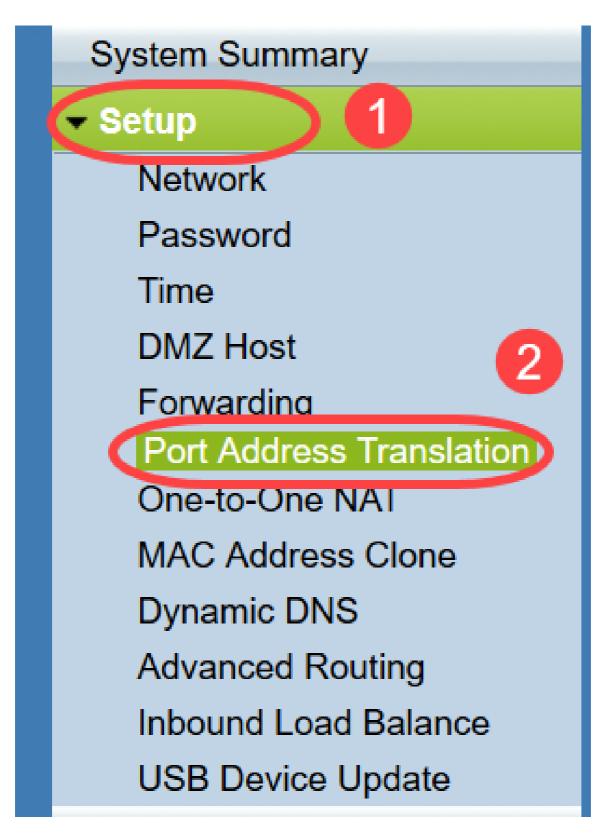
- RV320 Dual WAN VPN Router
- RV325 Gigabit Dual WAN VPN Router

Software Version

• v1.1.0.09

PAT Configuration

Step 1.Log in to the Web Configuration Utility to choose **Setup > Port Address Translation**.



The Port Address Translation page opens:



Adding PAT

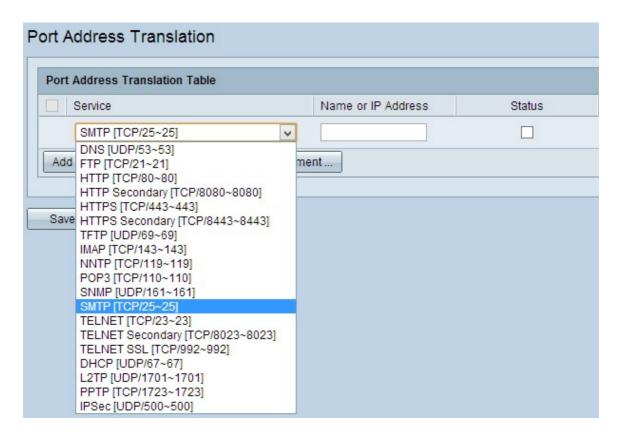
Step 1. Click **Add** to add a service. This service is the protocol which is used to map the private IP address with the public IP address.



A new row is added in the Port Address Translation Table:



Step 2. Choose the desired service from *Service* drop-down list. This is the service on which PAT is performed to convert the private IP addresses into public IP addresses.



Step 3. Enter the IP address of the device or a domain name which has the particular service into the *Name or IP Address* field. This is the source IP address on which the PAT is performed.



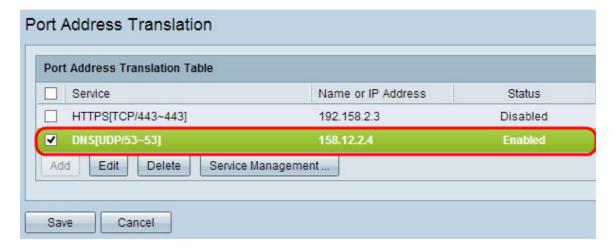
Note: If you want to add a new service, refer to the Service Management section.

Step 4. Check the **Status** check box to enable the service. If you do not check Status, the service appears inactive.

Step 5. Click **Save** to save the settings.

Edit PAT

Step 1. If you want to change any port address translation settings, check the check box beside the appropriate service to select it.

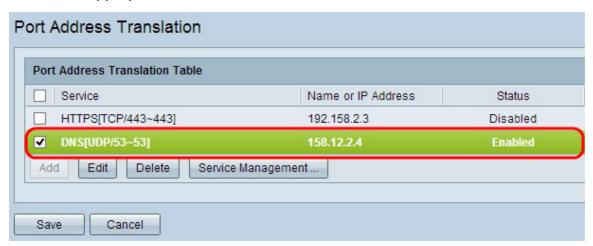


Step 2. Click **Edit** and change the necessary setting.

Step 3. Click Save to save the settings.

Delete PAT

Step 1. If you want to delete any specific port address translation, check the check box beside the appropriate service to select it.



Step 2. Click **Delete**.

Step 3. Click **Save** to save the settings.

Service Management

If you do not get any specific service under the *Service* drop-down list, you have to add the desired service. You can even change the service list or delete any specific service from the list based on your need.

Step 1. Click **Service Management**. The *Service Management Table* window opens:

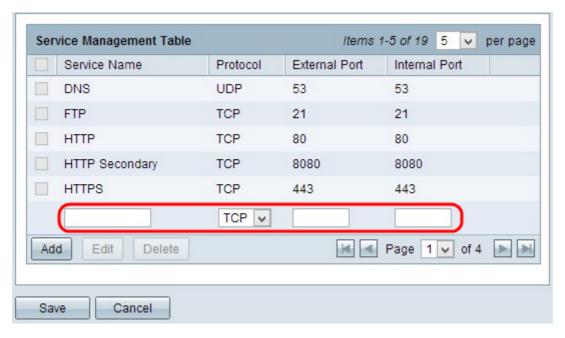
Port Address Translation Table		
Service	Name or IP Address	Status
■ DNS[UDP/53~53]	192.168.1.2	Enabled
☐ HTTP[TCP/80~80]	192.168.1.3	Enabled
Add Edit Delete Serv	ice Management	

Add a Service

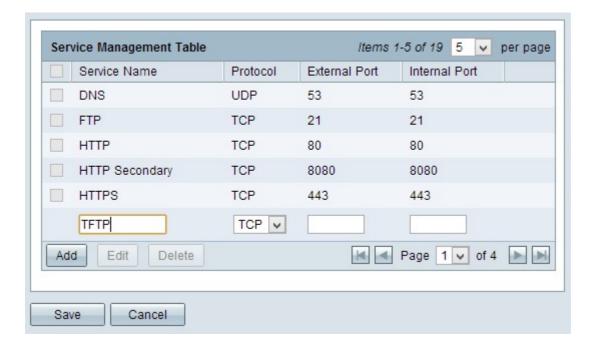
Step 1. Click Add to add a service. You can add up to 30 services.



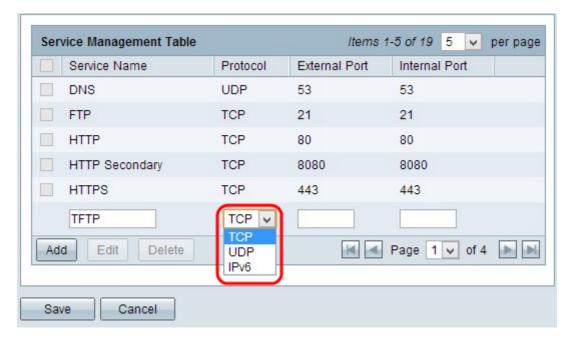
A new row is added:



Step 2. Enter the desired name for the service in Service Name field.

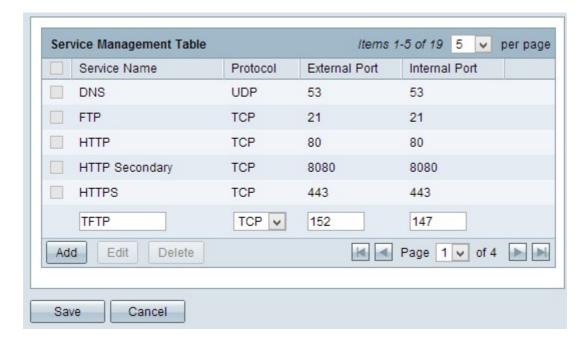


Step 3. Choose the desired protocol from the *Protocol* drop-down list. This protocol is the transport layer protocol which helps to convert the private IP addresses to public IP addresses.



- TCP Transmission Control Protocol (TCP) is a connection oriented Internet protocol which is used to provide reliable, ordered data transfer.
- UDP User Datagram Protocol (UDP) is a connectionless Internet protocol which is used to provide quick data transfer, but non-reliable and disordered.
- IPv6 Internet Protocol version 6 (IPv6) is the newest version of Internet protocol which can be used to accommodate a lot of users with IP.

Step 4. Enter a port number which you want to use as an external port in the *External Port* field. The external port number is used to establish the connection between the end user device of the external public network and the PAT device.

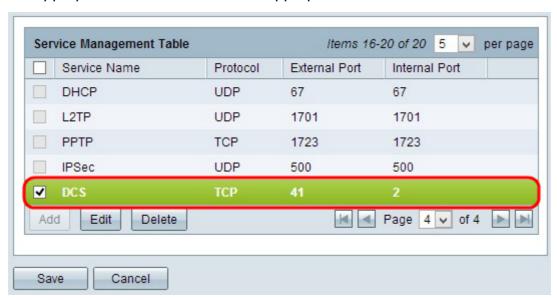


Step 5. Enter a port number which you want to use as an internal port in the *Internal Port* field. The internal port is used to establish a connection between the PAT device and the private network device.

Step 6. Click Save to save the settings.

Edit Service Management

Step 1. If you want to change any setting for a specific service, check the check box beside the appropriate service to select the appropriate service.

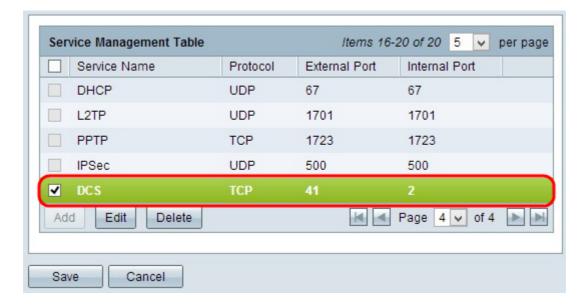


Note: You can edit only the newly created Service. You cannot edit an existing service.

Step 2. Click **Edit** and change the setting.

Step 3. Click **Save** to save the settings.

Delete Service Management



Step 1. If you want to delete any specific service, check the check box beside the appropriate service to select the appropriate service.

Note: You can delete the only newly created service. You cannot delete an existing service.

Step 2. Click Delete.

Step 3. Click **Save** to save the settings.

Conclusion

You have now successfully configured PAT on the RV32x series VPN routers.