

# Port Forwarding and Port Triggering on RV320 and RV325 VPN Router Series

## Objective

Port Forwarding is a technology that is used to redirect packets that are sent across a network. This ensures that the packets have a clear path to the intended destination, which allows for faster download speeds and lower latency. The RV32x VPN Router Series supports port range forwarding and port triggering. Port range forwarding is a static port forwarding that opens a specific range of ports. This increases security risk as the configured ports are always open. Port triggering is dynamic port forwarding. When a device that is connected to the router opens a trigger port defined in the trigger rule, the configured incoming ports are opened. Once the trigger ports are no longer forwarded, the incoming ports are closed. Port triggering offers higher security since the configured ports are not always open, however a port trigger rule can only be used by one client at a time.

This article explains how to configure port forwarding and port triggering on the RV32x VPN Router Series.

## Applicable Devices

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

## Software Version

- v1.1.0.09

## Port Forwarding and Port Triggering

Step 1. Log in to the web configuration utility and choose **Setup > Forwarding**. The *Forwarding* page opens:

Forwarding

Port Range Forwarding Table Items 0-0 of 0 5 per page

<input type="checkbox"/>	Service	IP Address	Status
0 results found!			

Add Edit Delete Service Management ... Page 1 of 1

Port Triggering Table Items 0-0 of 0 5 per page

<input type="checkbox"/>	Application Name	Trigger Port Range	Incoming Port Range
0 results found!			

Add Edit Delete Page 1 of 1

Save Cancel

## Add Port Range Forwarding

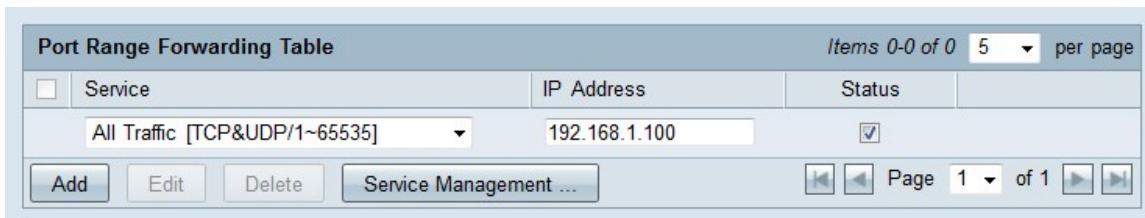


Port Range Forwarding Table Items 0-0 of 0 5 per page

<input type="checkbox"/>	Service	IP Address	Status
0 results found!			

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Step 1. Click **Add** in the Port Range Forwarding Table to add a range of ports to be opened



Port Range Forwarding Table Items 0-0 of 0 5 per page

<input type="checkbox"/>	Service	IP Address	Status
<input type="checkbox"/>	All Traffic [TCP&UDP/1~65535]	192.168.1.100	<input type="checkbox"/>

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Step 2. From the Service drop-down list choose a service to open ports for.

**Note:** Click **Service Management** to add or edit a service. [Service Management](#) is discussed later in the article.

Step 3. Enter the IP address to which the traffic is to be forwarded in the IP address field.

Step 4. Check the check box in the Status field to open the configured ports.

Step 5. Click **Save**. The port forwarding configuration is saved.

## Edit Port Range Forwarding



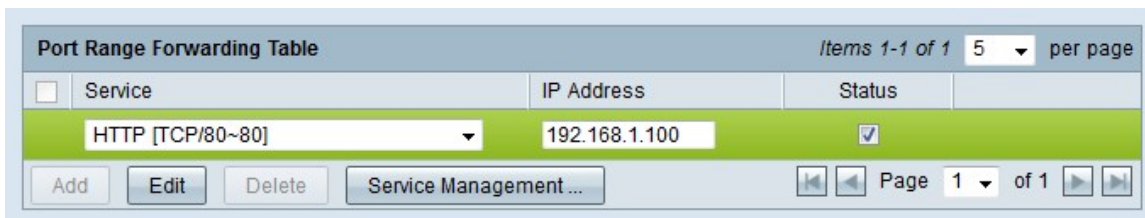
Port Range Forwarding Table Items 1-1 of 1 5 per page

<input type="checkbox"/>	Service	IP Address	Status
<input checked="" type="checkbox"/>	All Traffic[TCP&UDP/1~65535]	192.168.1.100	Enabled

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Step 1. Check the check box of the port range you want to edit.

Step 2. Click **Edit** in the Port Range Forwarding Table to edit the port range.



Port Range Forwarding Table Items 1-1 of 1 5 per page

<input type="checkbox"/>	Service	IP Address	Status
<input checked="" type="checkbox"/>	HTTP [TCP/80~80]	192.168.1.100	<input checked="" type="checkbox"/>

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Step 3. From the Service drop-down list choose a service to open ports for.

**Note:** Click **Service Management** to add or edit a service. [Service Management](#) is discussed later in the article.

Step 4. Edit the IP address to which the traffic is to be forwarded in the IP address field.

Step 5. Check the check box in the Status field to open the configured ports.

Step 6. Click **Save**. The port forwarding configuration is updated.

## Delete Port Range Forwarding

<input type="checkbox"/>	Service	IP Address	Status
<input checked="" type="checkbox"/>	HTTP[TCP/80~80]	192.168.1.100	Enabled

Buttons: Add, Edit, Delete, Service Management ...

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Step 1. Check the check box of the port range that you want to delete.

Step 2. Click **Delete** to delete the specific port range configuration.

Step 3. Click **Save**. The port range configuration is deleted.

## Add Port Range Triggering

<input type="checkbox"/>	Application Name	Trigger Port Range	Incoming Port Range
0 results found!			

Buttons: Add, Edit, Delete

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Step 1. Click **Add** in the Port Triggering Table to add a port trigger.

<input type="checkbox"/>	Application Name	Trigger Port Range	Incoming Port Range
<input type="checkbox"/>	Application 1	6000 To 6000	6112 To 6119

Buttons: Add, Edit, Delete

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Step 2. Enter the name of the application that you want to configure ports for in the Application Name field.

Step 3. Enter the trigger port range in the Trigger Port Range field. These are the ports that you want to trigger the rule.

Step 4. Enter the forwarded port range in the Forwarding Port Range field. These are the ports that are forwarded when the rule is triggered.

Step 5. Click **Save**. The port triggering configuration is saved.

## Edit Port Triggering

<input type="checkbox"/>	Application Name	Trigger Port Range	Incoming Port Range
<input checked="" type="checkbox"/>	Application 1	6000 To 6000	6112 To 6119

Buttons: Add, Edit, Delete

Page 1 of 1

Step 1. Check the check box of the port trigger you want to edit.

Step 2. Click **Edit** in the Port Triggering Table to edit the port trigger.

Port Triggering Table				Items 1-1 of 1 5 per page	
<input type="checkbox"/>	Application Name	Trigger Port Range	Incoming Port Range		
<input type="checkbox"/>	Application 1	25000 To 25000	25565 To 25565		

Add Edit Delete Page 1 of 1

Step 3. Edit the name of the application that you want to configure ports for in the Application Name field.

Step 4. Edit the trigger port range in the Trigger Port Range field. These are the ports that you want to trigger the rule.

Step 5. Edit the forwarded port range in the Forwarding Port Range field. These are the ports that are forwarded when the rule is triggered.

Step 6. Click **Save**. The port triggering configuration is updated.

## Delete Port Triggering

Port Triggering Table				Items 1-1 of 1 5 per page	
<input type="checkbox"/>	Application Name	Trigger Port Range	Incoming Port Range		
<input checked="" type="checkbox"/>	Application 1	25000 To 25000	25565 To 25565		

Add Edit Delete Page 1 of 1

Step 1. Check the check box of the port trigger that you want to delete.

Step 2. Click **Delete** to delete the specific port trigger configuration.

Step 3. Click **Save**. The port trigger configuration is deleted.

## Add Service Name

Step 1. Click **Service Management**. The *Service Management* window appears.

Service Management Table				Items 1-5 of 20 <input type="text" value="5"/> per page
<input type="checkbox"/>	Service Name	Protocol	Port Range	
<input type="checkbox"/>	All Traffic	TCP&UDP	1~65535	
<input type="checkbox"/>	DNS	UDP	53~53	
<input type="checkbox"/>	FTP	TCP	21~21	
<input type="checkbox"/>	HTTP	TCP	80~80	
<input type="checkbox"/>	HTTP Secondary	TCP	8080~8080	

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Step 2. Click **Add** to add a new service.

Service Management Table				Items 1-5 of 20 <input type="text" value="5"/> per page
<input type="checkbox"/>	Service Name	Protocol	Port Range	
<input type="checkbox"/>	All Traffic	TCP&UDP	1~65535	
<input type="checkbox"/>	DNS	UDP	53~53	
<input type="checkbox"/>	FTP	TCP	21~21	
<input type="checkbox"/>	HTTP	TCP	80~80	
<input type="checkbox"/>	HTTP Secondary	TCP	8080~8080	
	<input type="text" value="Service 1"/>	<input type="text" value="UDP"/>	<input type="text" value="27000"/> ~ <input type="text" value="27015"/>	

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Step 3. Enter a name for the service in the Service Name field.

Step 4. From the protocol drop-down list choose the protocol that the service uses.

- TCP - The service forwards Transmission Control Protocol (TCP) packets.
- UDP - The service forwards User Datagram Protocol (UDP) packets.
- IPv6 - The service forwards all IPv6 traffic.

Step 5. If the protocol is either TCP or UDP, enter the range of ports that is reserved for the service in the Port Range field.

Step 6. Click **Save**. The service is saved to the Service Management Table.

## Edit Service Name

Step 1. Click **Service Management**. The *Service Management* window appears.

Service Management Table				Items 21-21 of 21	5	per page
<input type="checkbox"/>	Service Name	Protocol	Port Range			
<input checked="" type="checkbox"/>	Service 1	UDP	27000~27015			

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Step 2. Check the check box of the service you want to edit.

Step 3. Click **Edit** to edit the service.

Service Management Table				Items 21-21 of 21	5	per page
<input type="checkbox"/>	Service Name	Protocol	Port Range			
<input type="checkbox"/>	Service 1	TCP	6000 ~ 6012			

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Step 4. Edit the name for the service in the Service Name field.

Step 5. From the protocol drop-down list choose the protocol that the service uses.

- TCP - The service forwards Transmission Control Protocol (TCP) packets.
- UDP - The service forwards User Datagram Protocol (UDP) packets.
- IPv6 - The service forwards all IPv6 traffic.

Step 6. If the protocol is either TCP or UDP, enter the range of ports that is reserved for the service in the Port Range field.

Step 7. Click **Save**. A warning window appears. Any configuration that is associated with the edited service is automatically updated.

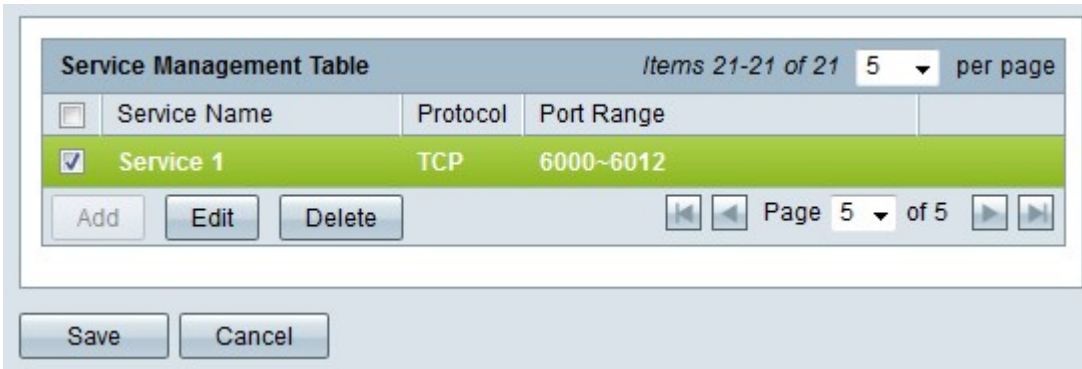
X

Features, including forwarding, bandwidth management, access rule, and protocol binding, using the identified service will be modified or deleted automatically. Press 'Yes' to go Save, or press 'No' to do nothing.

Step 8. Click **Yes**. The service configuration is updated.

## Delete Service Name

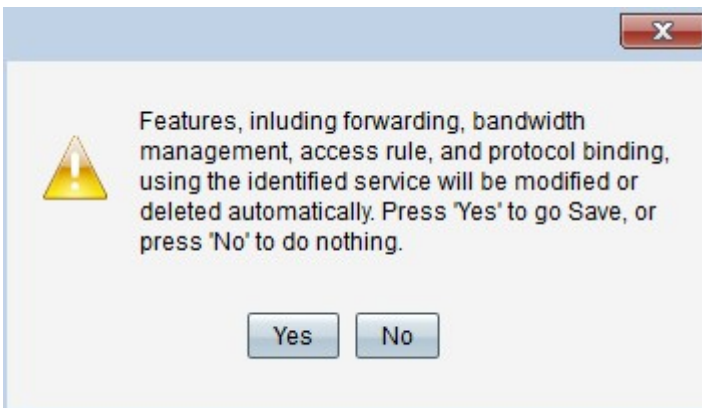
Step 1. Click **Service Management**. The *Service Management* window appears.



Step 2. Check the check box of the service you want to delete.

Step 3. Click **Delete** to delete the service.

Step 4. Click **Save**. A warning window appears. Any configuration that is associated with the deleted service is automatically deleted.



Step 5. Click **Yes**. The service is deleted.

You have now learned the steps to configure port forwarding and port triggering on the RV32x VPN Router Series.

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