



Article ID: 4957

Port Range Forwarding of RV180 and RV180W VPN Routers

Objective

Port Forwarding allows an administrator to funnel certain traffic to a specific port. Port forwarding also allows services to be performed on specific ports, which increases network security.

This document explains how to configure port range forwarding settings on the RV180 and RV180W VPN Routers.

Applicable Devices

- RV180
- RV180W

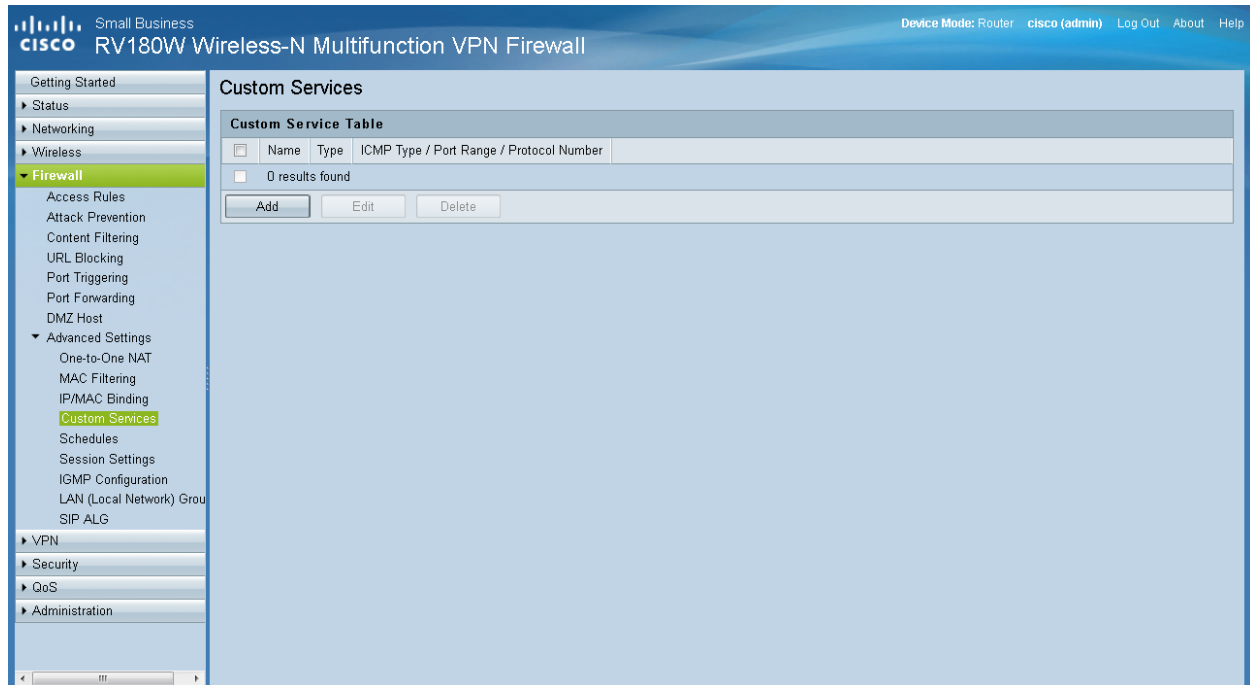
Software Version

- 1.0.2.3

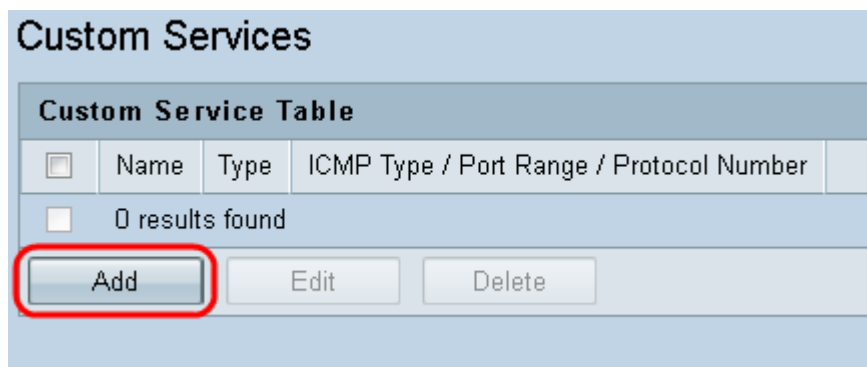
Port Range Forwarding

Creating Custom Services

Step 1. Use the Router Configuration Utility to choose **Firewall > Advanced Settings > Custom Services** from the menu on the left. The *Custom Services* page opens:



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



The Add/Edit Custom Services Configuration window appears.

Custom Services

Add / Edit Custom Services Configuration

Name

Type

ICMP Type

Start Port (Range : 1 - 65535)

Finish Port (Range : 1 - 65535)

Protocol Number (Range : 0 - 255)

Step 3. In the Name field, enter a name for the service.

Step 4. From the Type drop-down list, choose TCP or UDP.

Add / Edit Custom Services Configuration

Name

Type

ICMP Type

Start Port (Range : 1 - 65535)

- TCP — (Transmission Control Protocol) Choose this option if the ports in this port range use TCP.
- UDP — (User Datagram Protocol) Choose this option if the ports in this port range use UDP.
- ICMP — (Internet Control Message Protocol) Choose this option if the ports in this port range are used for ICMP traffic. ICMP is used for network management, such as pings.
- Other — Choose this option if the ports in this port range are not used for TCP, UDP, or ICMP.

Note: The options ICMP and Other are not commonly used by programs, but can be used if you desire.

The Smart Port and Finish Port fields are now accessible.

Custom Services

Add / Edit Custom Services Configuration

Name

Type

ICMP Type

Start Port (Range : 1 - 65535)

Finish Port (Range : 1 - 65535)

Protocol Number (Range : 0 - 255)

Step 5. In the Start Port field, enter the first port number in the range.

Step 6. In the Finish Port field, enter the last port number in the range.

Custom Services

Add / Edit Custom Services Configuration

Name

Type

ICMP Type

Start Port (Range : 1 - 65535)

Finish Port (Range : 1 - 65535)

Protocol Number (Range : 0 - 255)

Step 7. Click **Save** to save the current configuration.

Custom Services

Add / Edit Custom Services Configuration

Name

Type

ICMP Type

Start Port (Range : 1 - 65535)

Finish Port (Range : 1 - 65535)

Protocol Number (Range : 0 - 255)

Applying Custom Service

Step 1. Use the Router Configuration Utility to choose **Firewall > Port Forwarding** from the menu on the left. The *Port Forwarding* page opens:

Small Business
 cisco RV180W Wireless-N Multifunction VPN Firewall
 Device Mode: Router cisco (admin) Log Out About Help

Getting Started
 Status
 Networking
 Wireless
 Firewall
 Access Rules
 Attack Prevention
 Content Filtering
 URL Blocking
 Port Triggering
 Port Forwarding
 DMZ Host
 Advanced Settings
 One-to-One NAT
 MAC Filtering
 IP/MAC Binding
 Custom Services
 Schedules
 Session Settings
 IGMP Configuration
 LAN (Local Network) Group
 SIP ALG
 VPN
 Security
 QoS
 Administration

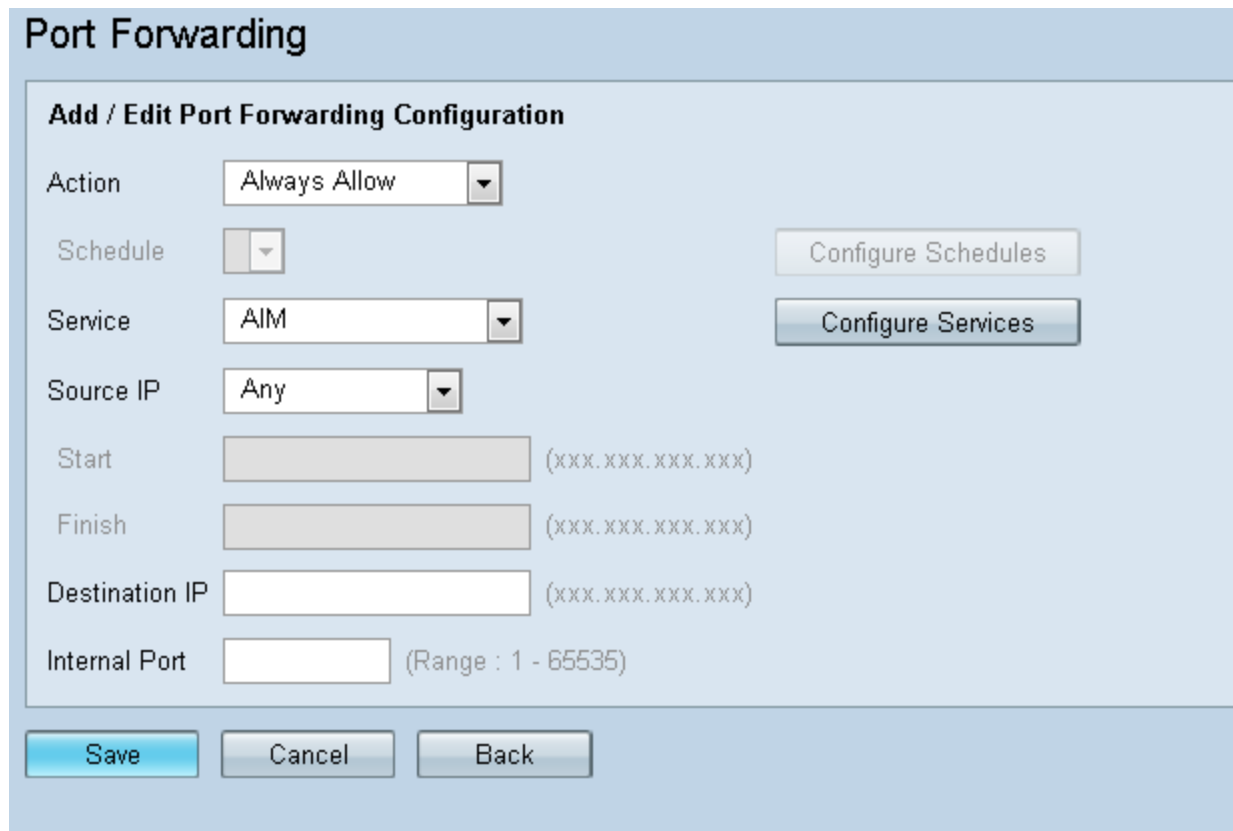
Port Forwarding

<input type="checkbox"/>	Action	Service	Status	Source IP	Destination IP	Internal Port
0 results found						

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



The Add/Edit Port Forwarding Configuration window appears.



Step 3. From the Action drop-down menu, choose an action for the router to perform when port forwarding.

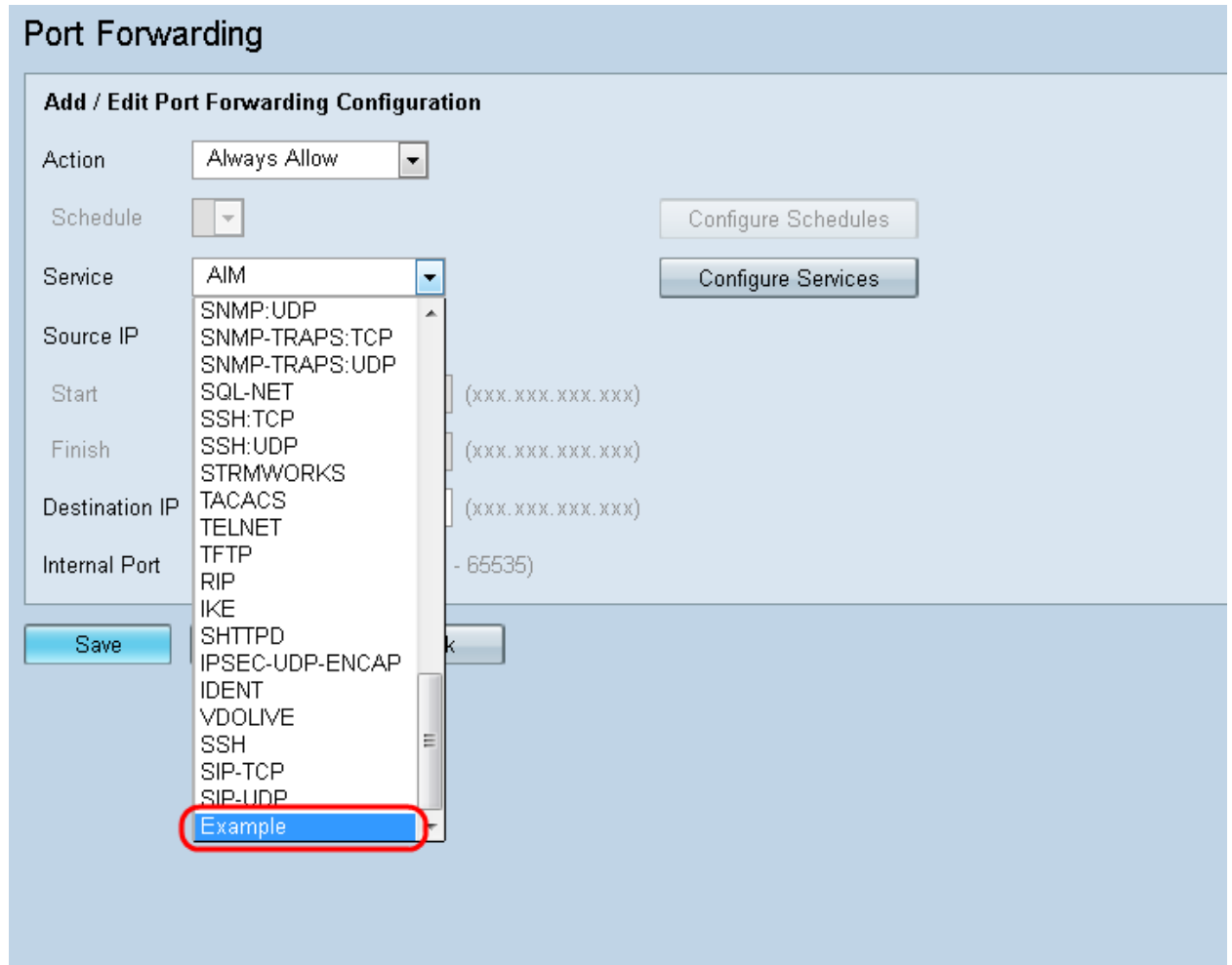
Port Forwarding

Add / Edit Port Forwarding Configuration

Action	<input type="text" value="Always Allow"/>	<input type="button" value="Configure Schedules"/>
Schedule	<input type="text" value="Always Allow"/>	<input type="button" value="Configure Services"/>
Service	<input type="text" value="Always Allow"/>	
Source IP	<input type="text" value="Any"/>	
Start	<input type="text"/>	(xxx.xxx.xxx.xxx)
Finish	<input type="text"/>	(xxx.xxx.xxx.xxx)
Destination IP	<input type="text"/>	(xxx.xxx.xxx.xxx)
Internal Port	<input type="text"/>	(Range : 1 - 65535)

- Always Allow — This option allows all traffic on the ports, helping to prevent firewall issues.
- Always Block — This option blocks all traffic on the ports, helping to secure the device.
- Block by Schedule — This option blocks traffic on a schedule. Choose a premade schedule from the Schedule drop-down menu.
- Allow by Schedule — This option allows traffic on a schedule. Choose a premade schedule from the Schedule drop-down menu.

Step 4. From the Service drop-down menu, choose the name of the service you created in the previous section.



Step 5. From the Source IP drop-down menu, choose an option for the source IP address of traffic.

Port Forwarding

Add / Edit Port Forwarding Configuration

Action

Schedule

Service

Source IP

Start

- Any
- Single Address
- Address Range

Finish

Destination IP

Internal Port (Range : 1 - 65535)

- Any — This option forwards traffic from any IP address. If you choose this option, skip to step 8.
- Single Address — This option forwards traffic from a single IP address.
- Address Range — This option forwards traffic from a range of IP addresses.

Step 6. (Optional) If you chose Single Address from the drop-down list, enter the IP address in the Start field.

Step 7. (Optional) If you chose Address Range from the drop-down list, enter the beginning IP address in the Start field and the ending IP address in the Finish field.

Step 8. In the Destination IP field, enter an IP address to which the traffic is forwarded.

Port Forwarding

Add / Edit Port Forwarding Configuration

Action ▾

Schedule ▾

Service ▾

Source IP ▾

Start (xxx.xxx.xxx.xxx)

Finish (xxx.xxx.xxx.xxx)

Destination IP (xxx.xxx.xxx.xxx)

Internal Port (Range : 1 - 65535)

Note: Your Destination IP Address may differ from the example shown above.

Step 9. In the Internal Port field, enter a port number to which the traffic is forwarded.

Port Forwarding

Add / Edit Port Forwarding Configuration

Action ▾

Schedule ▾

Service ▾

Source IP ▾

Start (xxx.xxx.xxx.xxx)

Finish (xxx.xxx.xxx.xxx)

Destination IP (xxx.xxx.xxx.xxx)

Internal Port (Range : 1 - 65535)

Step 10. Click **Save** to save changes, **Cancel** to discard changes, or **Back** to return to previous page without saving changes.