

One-to-One Network Address Translation (NAT) on RV130 and RV130W VPN Routers

For a video showing how to configure One-to-One NAT, visit <https://youtu.be/azt7b8hMXHs>

Objective

One-to-one Network Address Translation (NAT) maps local IP addresses behind your firewall to global IP addresses. By allowing systems configured with private IP addresses behind a firewall to appear to have public IP addresses, they can become visible to external networks and available for inbound connections.

The objective of this document is to explain how to configure One-to-One NAT on the RV130 and RV130W Router.

Applicable Devices

- RV130
- RV130W

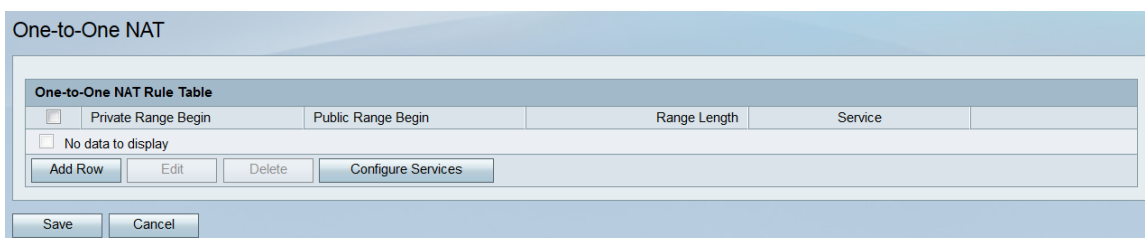
Software Version

- v1.0.1.3

Create One-to-One NAT

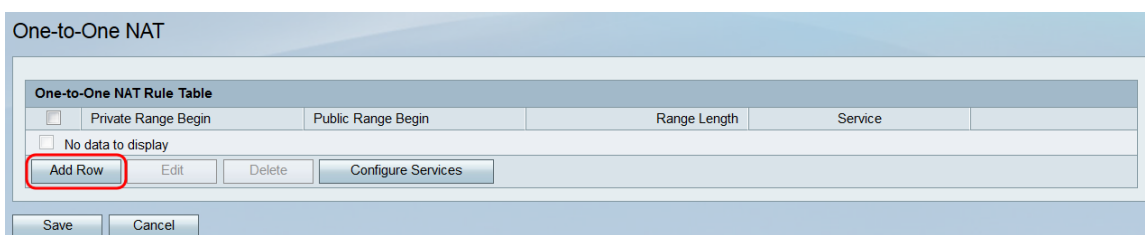
Adding a New One-to-One NAT Rule

Step 1. Log into the web configuration utility and choose **Firewall > One-to-One NAT**. The One-to-One NAT page opens:



The screenshot shows the 'One-to-One NAT' configuration page. It features a table titled 'One-to-One NAT Rule Table' with columns for 'Private Range Begin', 'Public Range Begin', 'Range Length', and 'Service'. The table is currently empty, displaying 'No data to display'. Below the table are buttons for 'Add Row', 'Edit', 'Delete', and 'Configure Services'. At the bottom of the page are 'Save' and 'Cancel' buttons.

Step 2. Click **Add Row** to add a new One-To-One NAT rule.



This screenshot is identical to the previous one, but the 'Add Row' button is highlighted with a red rectangular box to indicate it should be clicked.

Step 3. In the *Private Range Begin* field, enter the starting IP address of the private (LAN) IP

address range that you want to be available to public networks.

One-to-One NAT

You must save before you can edit or delete.

<input type="checkbox"/>	Private Range Begin	Public Range Begin	Range Length	Service
<input type="checkbox"/>	192.168.1.5			All Traffic [All]

Add Row Edit Delete Configure Services

Save Cancel

Note: Note: The LAN IP address of the router should not be included in the range you specify.

Step 4. In the *Public Range Begin* field, enter the starting IP address of the public (WAN) IP address range. This IP address is usually provided by your Internet Service Provider. The first public IP address you enter will be matched with the first private IP address you entered, the second public IP address will be paired with the second private IP address, and so on.

One-to-One NAT

You must save before you can edit or delete.

<input type="checkbox"/>	Private Range Begin	Public Range Begin	Range Length	Service
<input type="checkbox"/>	192.168.1.5			All Traffic [All]

Add Row Edit Delete Configure Services

Save Cancel

Note: The WAN IP address of the router should not be included in the range you specify.

Step 5. In the *Range Length* field, enter the number of public IP addresses that should be mapped to private addresses, given the private and public beginning ranges previously entered. The range length cannot exceed the number of valid IP addresses. To map a single address, enter "1".

One-to-One NAT

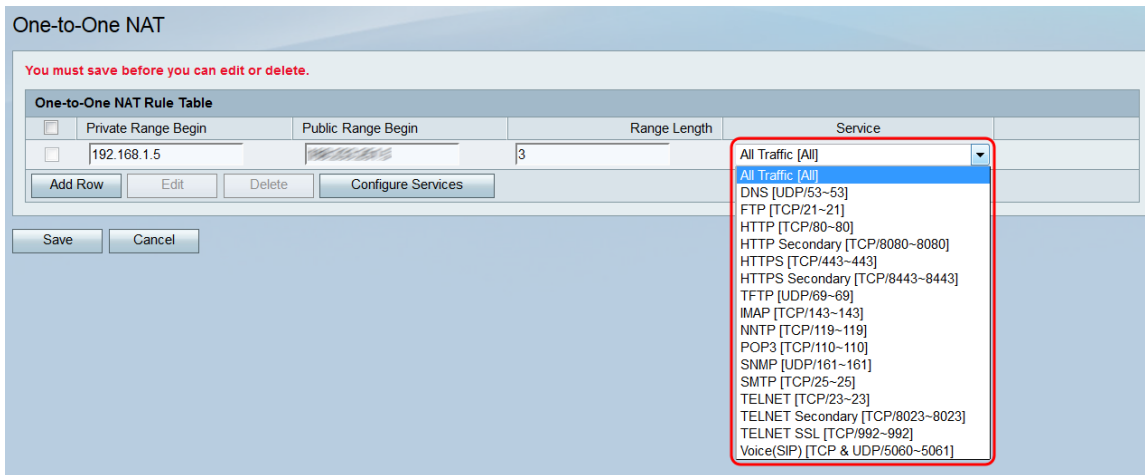
You must save before you can edit or delete.

<input type="checkbox"/>	Private Range Begin	Public Range Begin	Range Length	Service
<input type="checkbox"/>	192.168.1.5		3	All Traffic [All]

Add Row Edit Delete Configure Services

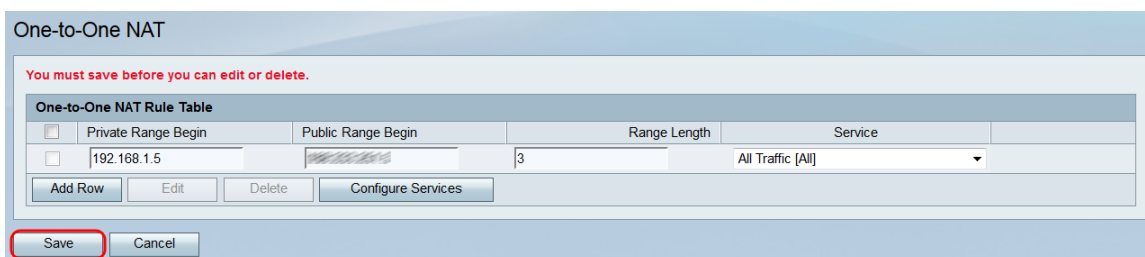
Save Cancel

Step 6. In the *Service* drop-down list, choose which service will be accepted by the private IP (LAN) address when traffic is sent to the corresponding public IP address.



Note: If you want to change the services available in this field, click the **Configure Services** button to open the *Service Management* page. For more information, refer to the article [Service Management on the RV130 and RV130W](#).

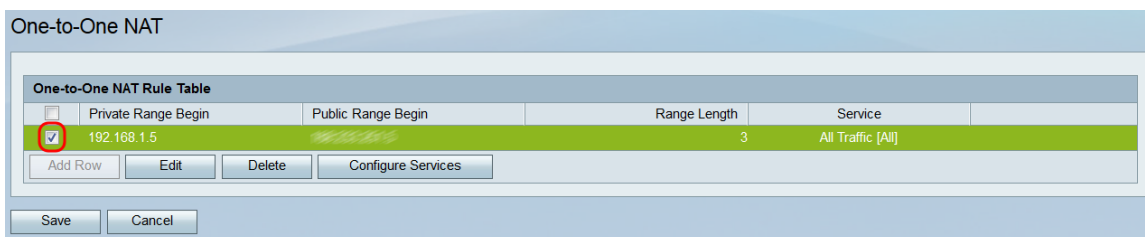
Step 7. Click **Save** to save your configuration for your one-to-one NAT rule.



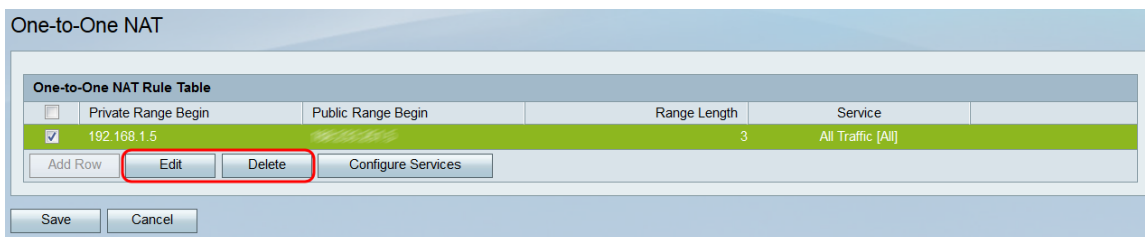
Note: A maximum of ten rules can be made.

Editing/Deleting a One-to-One NAT Rule

Step 1. Check the check box(s) corresponding to the desired rule(s) you want to edit or delete.



Step 2. If you want to edit the selected rule(s), click **Edit**. If you want to delete the selected rule(s), click **Delete**. If you click **Delete**, skip to [Step 4](#).




Note: Clicking **Delete** will cause a warning to appear saying that you must click **Save** to save your changes.

Step 3. If you clicked **Edit**, the fields of the rule(s) you selected will become available. Make

any necessary changes.

One-to-One NAT

You must save before you can edit or delete.

One-to-One NAT Rule Table					
<input type="checkbox"/>	Private Range Begin	Public Range Begin	Range Length	Service	
<input checked="" type="checkbox"/>	192.168.1.5		3	All Traffic [All]	


Add Row Edit Delete Configure Services

Save Cancel

[Step 4](#). Click **Save** to apply your changes or delete the specified rule(s).

One-to-One NAT

You must save before you can edit or delete.

One-to-One NAT Rule Table					
<input type="checkbox"/>	Private Range Begin	Public Range Begin	Range Length	Service	
<input checked="" type="checkbox"/>	192.168.1.5		3	All Traffic [All]	

Add Row Edit Delete Configure Services

Save Cancel