One-to-One Network Address Translation (NAT) on RV016, RV042, RV042G and RV082 VPN Routers

Objective

Network Address Translation (NAT) creates a system that maps valid external IP addresses to internal IP addresses hidden by NAT. One-to-one NAT is the NAT that maps one external IP to one internal IP. A device with an internal IP address may be accessed through a valid external IP address. The objective of this document is to guide you on how to create a One-to-One NAT on RV016, RV042, RV042G and RV082 VPN Routers.

Applicable Devices

- RV016
- RV042
- RV042G
- RV082

Software Version

- v4.2.2.08

Create One-to-One NAT

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

Step 2. Check the **Enable One-to-One NAT** check box to use the One-to-One NAT function. Additional fields appear on the page.

One-to-One NAT

☑ Enable One-to-One NAT

Private Range Begin : `192.168.1.2`

Public Range Begin : `192.168.1.3`

Range Length : `3`

Add to list

Delete Add New

Save Cancel

Step 3. Enter the starting IP address of the internal IP address range in the **Private Range Begin** field. This is the IP address of the first device that can be accessed from the Internet.

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

Step 4. Enter the starting IP address of the public IP address range in the **Public Range Begin** field. This IP address is provided by the 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.

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

Step 5. Enter the number of IP addresses you want to map in the **Range Length** field. The range length cannot exceed the number of valid IP addresses. To map a single address, enter 1.

Add to list

`192.168.1.2~4 => 192.168.1.3~5`

Delete Add New

Save Cancel

Step 6. Click **Add to List** and configure more entries as needed.

Note: A maximum of ten entries can be made.
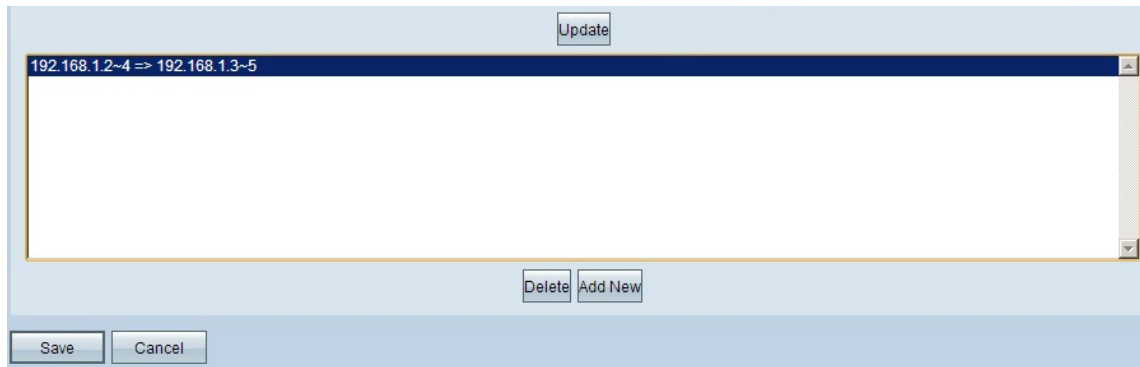
Step 7. (Optional) To update your previous settings, click the desired entry, edit the information, and click **Update**.

Step 8. (Optional) To delete an entry, click the desired entry and click **Delete**.

Step 9. (Optional) To add new entries, click **Add New** and then repeat steps 3 to 6.

Step 10. Click **Save** to save changes, or click **Cancel** to undo all changes.