



Configuring the 1st Generation NetVanta 2100 for 1 to 1 NAT and Port Forwarding

Featuring the 1st Generation NetVanta 2100

Introduction

This Technical Support note will explain how to configure the NetVanta for 1 to 1 NAT and Port Forwarding from a public WAN IP address to a private, host IP address.

Note: To configure 1 to 1 NAT or Port Forwarding public IP addresses other than the assigned WAN IP address, the NetVanta WAN IP address must be established as the gateway (for the other public IP addresses) by the ISP.

Before you begin

This Technical Support Note assumes that the NetVanta has been installed and is performing NAT operation between the LAN and WAN interfaces.

Configuring the NetVanta 2100

Establish a Web browser connection to the NetVanta and log in ([see DLP-001](#)).

Add Policies

To LAN Access Policy Configuration (Inbound Traffic)

1. Select the **POLICIES** menu from the menu bar located at the top of the screen.
2. Select **Access Policies: To LAN** from the menu list located on the left side of the screen.
3. Using the pull-down menu next to **Add**, select **Beginning**, then click on the **Submit** button to the right of the **Rule ID** field. The Internet Access Policy Configuration page will be displayed.

4. Using the **Source IP** pull-down menu, select **ANY** to configure the NetVanta to forward all packets received (from the Internet) to the LAN server.
5. Leave the **IP if Source IP is OTHER** field empty.
6. Using the **Destination IP** pull-down menu, select **OTHER**.
7. In the **IP if Dest IP is OTHER** field enter the public (external) IP address that will be translated to the internal server. Enter 32 in the **Mask Bits** field.
8. Using the **Destination Port** pull-down menu, select **ANY** to forward all TCP/UDP ports or select the specific port to forward to the server. If the TCP/UDP port you want is not listed, select **OTHER** and enter the port (or port range) in the **Port Range if Port is OTHER** boxes.
9. Using the **Protocol Type** pull-down menu, select **ALL** to forward all data protocols or select the specific protocol to forward to the server. If the protocol you want is not listed, select **Other** and enter the protocol value (using decimal notation) in the **If Protocol is Other enter Protocol** value box.
10. Use the **Action Type** pull-down menu to select **PERMIT**.
11. Set **Enable Log** to **No**.
12. Set **Enable NAT** to **Yes**.
13. Use the **NAT Name** pull-down menu to select **OTHER**.
14. In the **OR an IP Address (if OTHER)** field enter the private (internal) IP address of the server that will receive the forwarded and translated data packets.
15. Leave the **Dynamic Interface** field blank.
16. Check the **No** box in the Security section at the bottom of the screen.
17. Click the **Submit** button to register the changes.

***Note:** Configuring the From LAN Access Policy for outbound traffic is only necessary if you are using an external IP address other than the NetVanta unit's assigned WAN IP address. If you are using the WAN IP address, skip to the [Saving the Configuration](#) section.*

From LAN Access Policy Configuration (Outbound Traffic)

1. Select the **POLICIES** menu from the menu bar located at the top of the screen.
2. Select **Access Policies: From LAN** from the menu list located on the left side of the screen.
3. Using the pull-down menu next to **Add**, select **Beginning**, then click the **Submit** button to the right of the **Rule ID** field. The Internet Access Policy Configuration page will be displayed.
4. Using the **Source IP** pull-down menu, select **OTHER**.
5. In the **IP if Source IP is OTHER** field enter the private (internal) IP address of the server. Enter 32 in the **Mask Bits** field.

6. Using the **Destination IP** pull-down menu, select **ANY** to configure the NetVanta to forward all packets received (from the server) to the internet using the NAT configuration.
7. Leave the **IP if Dest IP is OTHER** field empty.
8. Using the **Destination Port** pull-down menu, select **ANY** to forward all TCP/UDP ports or select the specific port to forward to the internet using this policy. If the TCP/UDP port you want is not listed, select **OTHER** and enter the port (or port range) in the **Port Range if Port is OTHER** boxes.
9. Using the **Protocol Type** pull-down menu, select ALL to forward all data protocols or select the specific protocol to forward from the server. If the protocol you want is not listed, select **Other** and enter the protocol value (using decimal notation) in the **If Protocol is Other enter Protocol** value box.
10. Use the **Action Type** pull-down menu to select **PERMIT**.
11. Set **Enable Log** to **No**.
12. Set **Enable NAT** to **Yes**.
13. Use the **NAT Name** pull-down menu to select **OTHER**.
14. In the **OR an IP Address (if OTHER)** field enter the public (external) IP address to use for the outbound data address translation.
15. Leave the **Dynamic Interface** field blank.
16. Check the **No** box in the **Security** section at the bottom of the screen.
17. Click the **Submit** button to register the changes.

Note: Adding a Proxy ARP entry is only necessary if you configured NAT using an external IP address other than the NetVanta unit's assigned WAN IP address. If you are using the WAN IP address, skip to the [Saving the Configuration](#) section.

Adding a Proxy ARP entry to the NetVanta 2100 Proxy ARP table

1. Select the **CONFIG** menu from the menu bar located at the top of the screen.
2. Select **Proxy ARP Table** from the menu list located on the left side of the screen.
3. Enter the Public IP address used for NAT.
4. Click the **Add** button to add it to the list.

Saving the Configuration

1. Select the **ADMIN** menu from the menu bar located at the top of the screen.
2. Select **Save Settings** from the menu list located on the left side of the screen.
3. Click the **Yes** button to confirm the save command.

If you experience any problems using your ADTRAN product, please contact [ADTRAN Technical Support](#).

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