



Configuring Either Standard or NAT Enabled Mode on the Firewall



When to configure Standard or NAT Enabled Network Addressing Mode on the Firewall

This guide is for use with the :
OfficeConnect Internet Firewall 25
OfficeConnect Internet Firewall DMZ
SuperStack 3 Firewall

The following is general guidance only. Some networks may require special guidance and configuration, in which case it is advisable to contact 3Com Technical Support. Generally, the Firewall can be configured using Standard Network Addressing Mode under the following conditions :

- The router has NAT enabled
- You wish to install the Firewall transparently into your network without reconfiguration of the network
- The LAN PCs are configured with public IP addresses

The Firewall should be configured using NAT Enabled Network Addressing Mode under the following conditions :

- The router does NOT have NAT enabled
- You wish to implement one-to-one NAT on your LAN

Step 1 explains how to configure the Firewall using Standard Network Addressing Mode
Step 2 explains how to configure the Firewall using NAT Enabled Network Addressing Mode

1. Standard Network Addressing Mode Firewall Configuration

Note : If the router is a 3Com OfficeConnect LAN Modem (OCLM), NAT is enabled on the OCLM as default. The OCLM default settings can be found under ISDN LAN Modem Factory Defaults in the OfficeConnect ISDN LAN Modem User Guide :

http://support.3com.com/infodeli/tools/remote/lanmodem/610_ug.pdf

1.1 Login to the Firewall Web Management Interface.

The default user / password is admin/password.

1.2 Under Network\Network Settings, configure the following settings :

Network Addressing Mode :	Standard
Internet Firewall Web Address :	(Enter an IP address that belongs to the same subnet as your LAN IP address range)
LAN Subnet Mask :	(Enter the same subnet mask as configured on the LAN computers)
WAN Router Address :	(Enter the router IP address)
Public Address :	(In Standard mode, this will default to the Internet Firewall Web Address - cannot be changed)
WAN/DMZ Subnet Mask :	(Enter the same subnet mask as configured on the router)
DNS Server :	(Enter the DNS Server IP address provided to you by your ISP)
DNS Server 2 :	(Enter the second DNS Server IP address, if provided to you by your ISP)

1.3 Ensure that your computers have the following settings configured (if a static IP address is configured). If your computers are assigned an IP address dynamically, ensure that the Gateway and DNS IP addresses assigned comply with the information below :

IP Address : (The IP address belongs to the same subnet mask as the Firewall IP address)
Gateway : (The IP address of the Firewall)
DNS Servers : (The same IP addresses as the DNS Servers configured on the Firewall)

1.4. If your router is an OfficeConnect LAN Modem, ensure that the following settings are configured on the OfficeConnect LAN Modem :

Under LAN Parameters :

IP Address : (The IP address belongs to the same subnet mask as the Firewall IP address)
Subnet Mask : (The same subnet mask as configured on the LAN computers). Note : The default subnet mask is 255.255.255.248.

Under Service Providers \ Miscellaneous :

Use Network Address Translation : Yes
Enable Intelligent NAT : Yes
Allow Auto Call Initialization : Yes

This is an EXAMPLE only :

The screenshot displays the configuration interface for a 3Com OfficeConnect LAN Modem. The interface is divided into a left-hand navigation menu and a main configuration area. The navigation menu includes buttons for Home, Network, Filter, Log, Tools, Policy, Advanced, VPN, and Logout. The main configuration area is titled 'Network' and contains several tabs: Settings, DMZ Addresses, DHCP Server Setup, and Diagnostics. The 'Settings' tab is active, showing the following configuration options:

- Network Addressing Mode:** Standard (selected from a dropdown menu)
- LAN Settings:**
 - Internet Firewall Web Address: 192.168.1.254
 - LAN Subnet Mask: 255.255.255.0
- WAN/DMZ Settings:**
 - WAN Router Address: 192.168.1.253
 - Public Address: 192.168.1.254
 - WAN/DMZ Subnet Mask: 255.255.0.0
- Other Settings:**
 - DNS Server 1: 194.73.73.94
 - DNS Server 2: 194.73.73.95 (optional)
 - DNS Server 3: 0.0.0.0 (optional)

At the bottom right of the configuration area, there are 'Update' and 'Cancel' buttons. The status bar at the bottom of the interface indicates 'STATUS: Ready'.

2. NAT Enabled Network Addressing Mode Firewall Configuration

Note : The Firewall should be configured using NAT Enabled Network Addressing Mode under the following conditions :

- a. The router does NOT have NAT enabled
- b. The LAN IP address range is outside the 10.0.0.0, 192.168.0.0 and 172.16.0.0 - 172.32.255.255 subnets. It is still necessary to have NAT enabled on the Firewall in order to have a publically registered IP address.

2.1 Login to the Firewall Web Management Interface.
The default user / password is admin/password.

2.2 Under Network\Network Settings, configure the following settings :

Network Addressing Mode :	NAT Enabled
Internet Firewall Web Address :	(Enter an IP address that belongs to the same subnet mask as your LAN IP address range)
LAN Subnet Mask :	(Enter the same subnet mask as configured on the LAN computers)
WAN Router Address :	(Enter the router IP address.)
NAT Public Address :	(Enter the public IP address provided to you by your ISP)
WAN/DMZ Subnet Mask :	(Enter the same subnet mask as configured on the router)
DNS Server :	(Enter the DNS Server IP address provided to you by your ISP)
DNS Server 2 :	(Enter the second DNS Server IP address, if provided to you by your ISP)

2.3 Ensure that your computers have the following settings configured (if a static IP address is configured). If your computers are assigned an IP address dynamically, ensure that the Gateway and DNS IP addresses assigned comply with the information below :

IP Address :	(The IP address belongs to the same subnet mask as the Firewall IP address)
Gateway :	(The IP address of the Firewall)
DNS Servers :	(The same IP addresses as the DNS Server IP addresses configured on the Firewall)

This is an EXAMPLE only :

The screenshot displays the 3Com Network Firewall configuration interface. The left sidebar contains navigation buttons for Home, Network, Filter, Log, Tools, Policy, Advanced, VPN, and Logout. The main content area is titled 'Network' and includes tabs for Settings, DMZ Addresses, DHCP Server Setup, and Diagnostics. The configuration is organized into several sections:

- Network Addressing Mode:** A dropdown menu set to 'NAT Enabled'.
- LAN Settings:** Includes 'Internet Firewall Web Address' (192.168.1.254) and 'LAN Subnet Mask' (255.255.255.0).
- WAN/DMZ Settings:** Includes 'WAN Router Address' (212.127.134.55), 'NAT Public Address' (212.127.134.54), and 'WAN/DMZ Subnet Mask' (255.255.255.192).
- Other Settings:** Includes three DNS Server fields: 'DNS Server 1' (194.73.73.94), 'DNS Server 2' (194.73.73.95) (optional), and 'DNS Server 3' (0.0.0.0) (optional).

Buttons for 'Update' and 'Cancel' are located on the right side of the configuration area. The status bar at the bottom indicates 'STATUS: Ready'.

If after following this guide you are still having problems configuring the firewall please ensure you have carried out the steps exactly as in this document. You should also check the 3Com Knowledgebase for additional help (<http://knowledgebase.3com.com>). If problems still persist please contact 3Com Technical Support. (<http://www.3com.com>).

If you found this document useful and would like to see more similar documents please send your feedback to Customer_Support@3Com.com with the subject heading "How To Documentation".

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