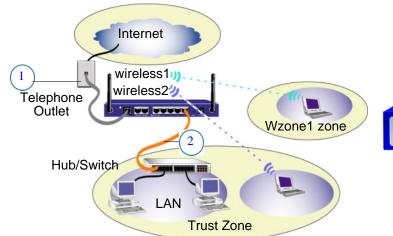
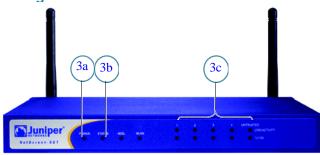


# Juniper Networks NetScreen-5GT Wireless ADSL

# **Getting Started**

Use the instructions in this guide to help you connect and configure your NetScreen-5GT Wireless ADSL device. For additional configuration information, see the NetScreen-5GT Wireless User's Guide, NetScreen Wireless Reference Guide, and NetScreen ADSL Reference Guide. For information on ADSL line compatibility, see http://www.juniper.net/products/integrated/5GT-ADSL/.





The numbers on the diagram are paired with the steps below.



# **CONNECTING THE DEVICE**

Use the instructions below to connect the NetScreen-5GT Wireless ADSL device and prepare to configure it to protect your network. Use the LEDs on the front panel to help you determine the device status.

#### Step 1

Connect the provided ADSL cable from the ADSL port of the NetScreen device to the telephone outlet.

**Note**: You can obtain and install a signal splitter on the ADSL line. The splitter divides the ADSL signal into low-frequency voice signals for voice calls and high-frequency data signals for data traffic. You can also install microfilters on telephones that share the ADSL line.

#### Step 2

**Note:** You can access the Initial Configuration Wizard (ICW) from the Trust Ethernet interface.

- If the workstation is in a LAN (see diagram), connect an Ethernet cable from the Trusted port to the internal switch or hub.
- If the workstation is a single computer, connect an Ethernet cable from the Trusted port directly to the Ethernet port on the workstation. We recommend this connection method.

#### Step 3

Connect the power cable between the NetScreen device and a power source. We recommend using a surge protector.

 Ensure that the Power LED glows green. This indicates that the device is receiving power.

- After the device starts (about 30 seconds), ensure that the Status LED blinks green. This indicates that the device is operating normally.
- Ensure that the Link Activity LEDs glow green for the connected interfaces. This indicates that the device has network connectivity.

#### Step 4

Configure the workstation to access the NetScreen device via a web browser:

- Ensure that your workstation is properly connected to your LAN (use the diagram above).
- b. Change the TCP/IP settings of your workstation to obtain its IP address automatically from the NetScreen device via DHCP. For help, see the operating system documentation for your workstation.

**Note:** Ensure that your internal network does not already have a DHCP server.

 If necessary, restart your workstation to enable the changes to take effect.

# **Getting Started Guide**





# **CONFIGURING THE DEVICE**

Use the Initial Configuration Wizard (ICW) to configure the NetScreen-5GT Wireless ADSL device. Before starting the Wizard, decide how you want to deploy your device. (For additional information, see the NetScreen-5GT Wireless User's Guide.)

Network Address Translation (NAT). You can deploy the NetScreen device in Route mode with NAT enabled on the Trust and wireless2 interfaces (Trust zone interfaces) or in Route mode without NAT. When using Route mode with NAT enabled, the NetScreen device replaces the source IP address of the sending host with the IP address of the Untrust zone interface. Route mode with NAT is the most common way to configure the Trust zone interfaces on the NetScreen device. Your network uses the Untrust zone interface to connect to the Internet. This interface can have a static IP address or a dynamic IP address assigned via DHCP, PPPoA, or PPPoE. When using Route mode without NAT, an interface routes traffic without changing the source address and port number in the IP packet header. You must assign public IP addresses to hosts connected to the Trust zone interfaces. To configure the Untrust zone interface, you need to configure the IP address of the interface that is connected to the service provider's Digital Subscriber Line Access Multiplexer (DSLAM).

**Port Mode**. A port mode binds interfaces to zones. The default port mode, Trust-Untrust, binds the Trust Ethernet and wireless2 interfaces to the Trust zone, the wireless1 interface to the Wzone1 zone, and the ADSL interface to the Untrust zone.

#### Step 1

Launch a Web browser. In the URL address field, enter <a href="http://192.168.1.1">http://192.168.1.1</a>. The Rapid Deployment Wizard window appears.

**Note:** You can access the Initial Configuration Wizard (ICW) from the Trust Ethernet interface.

ļ	Rapid Deployment Wizard
Velo	come to the Rapid Deployment Wizard.
00 y	ou have a Rapid Deployment Configlet file?
e	No, use the Initial Configuration Wizard instead.
С	Yes, use the following Rapid Deployment Configlet file:
	C Change the Port Mode: Trust-Untrust (Working Mode) Apply
	C Load Configlet from: Browse
С	No, skip the Wizard and go straight to the WebUI management session instead.
	Note: To change the Port Mode, select the new mode and click Apply to save your changes. You must change the port mode BEFORE loading the Configlet file.
	Next >> Cancel

#### Step 2

If your network uses Juniper Networks NetScreen-Security Manager, you can use a Rapid Deployment configlet to automatically configure the NetScreen device. Obtain a configlet from your Security Manager administrator, select the **Yes** option, select the **Load Configlet from:** option, browse to the file location, and click **Next**. The configlet sets up the NetScreen device for you. If you use a configlet, you can skip the remaining instructions in this guide.

Wireless Interfaces. By default, the wireless2 interface is bound to the Trust zone. The default IP address and netmask for the wireless2 interface is 192.168.2.1/24. You can change this address to match existing IP addresses on your network. The wireless1 interface is bound to the Wzone1 zone and does not have an IP address assigned to it.

**ADSL Interface.** By default, the ADSL interface is bound to the Untrust zone and is the primary interface for traffic to the outside network.

**Trust Ethernet Interface IP Address**. The default IP address and netmask for the Trust interface is 192.168.1.1/24, which is located in the Trust zone. You can change this address to match IP addresses that exist on your network.

Assigning IP Addresses to Hosts in the Trust Zone (Enable DHCP Server). You can choose to have the NetScreen device assign IP addresses via DHCP to wired or wireless hosts in your network. If you have the device assign IP addresses, you can define the range of addresses to be assigned. You need to ensure that the range of addresses is in the same subnetwork as the Trust Ethernet interface or the wireless2 interface IP addresss.

If you need to change the port mode on the device, select the **Change the Port Mode** option, select the port mode from the drop-down menu, and click **Apply** before loading the configlet.

**Note:** Skip the ICW if you want to configure the Extended port mode on the NetScreen-5GT Wireless ADSL device. You must use the WebUI or CLI to configure this port mode.

If you want to bypass the configuration wizard and go directly to the WebUI, select the last option, and click **Next**. (See the *NetScreen-5GT Wireless User's Guide* for information on using the WebUI to configure the device.)

If you are not using a configlet to configure the NetScreen device and want to use the configuration wizard, select the first option, and click **Next**. The Initial Configuration Wizard welcome screen appears. Click **Next**.

# Step 3

Enter a new administrator login name and password, and click **Next**.

#### Step 4

Check the **Enable NAT** check box if you want the NetScreen device to be in Route mode with NAT enabled. Click **Next**.



# Step 5



Port modes bind physical ports, logical interfaces, and zones.

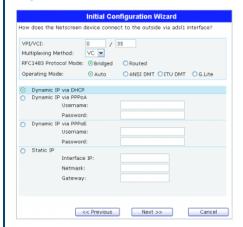
- Trust-Untrust mode, the default, binds the Trusted Ethernet and wireless2 interfaces to the Trust zone and the ADSL interface to the Untrust zone.
- Home-Work mode binds interfaces to the Untrust, Home, and Work zones.

**Note:** The Extended mode is only available with the Extended version of the NetScreen-5GT Wireless ADSL device. You must use the WebUI or CLI to configure this port mode.

The ADSL interface is the default interface to the Untrust zone. If you do not want to use the ADSL interface, uncheck the box. If you want to configure the default wireless2 interface for the wireless Trust zone, check the box. Click **Next**.

**Note:** The remaining steps in this guide show the screens for the default Trust-Untrust port mode with the ADSL interface as the default Untrust zone interface and wireless2 interface as the default wireless Trust zone interface. If you selected different options, you may see different screens.

#### Step 6



Enter the following information from your service provider:

- VPI/VCI values to identify the permanent virtual circuit.
- ATM multiplexing method (LLC is the default).
- Protocol Mode settings.
- Operating mode for the physical line (auto is the default).

If you do not know what these settings are, please refer to the *Common Settings for Service Providers* document that came with the NetScreen device.

Note: (Annex B model only) Select Deutsche Telekom to connect to a Deutsch Telecom ADSL line; otherwise select non-Deutsche Telekom. Select Dynamic IP via DHCP to enable the NetScreen device to receive an IP address for the Untrust zone interface from a DHCP server.

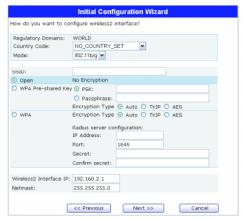
Select **Dynamic IP via PPPoA** to enable the NetScreen device to act as a PPPoA client. Enter the Username and Password assigned by the service provider.

Select **Dynamic IP via PPPoE** to enable the NetScreen device to act as a PPPoE client. Enter the Username and Password assigned by the service provider.

(Optional) Select **Static IP** to assign a unique and fixed IP address to the ADSL interface. Enter the interface IP address, Netmask, and Gateway (the gateway address is the IP address of the router port connected to the NetScreen device).

Click Next.

#### Step 7



**Note:** If you are configuring a NetScreen device that has the Regulatory Domain WORLD setting, you must set the country code. If you are configuring a NetScreen device that has the Regulatory Domain FCC or TELEC setting, the country code is preset and cannot be changed.

You must set a Service Set Identifier (SSID) before the wireless2 interface can be activated.

- Open authentication, the default, allows anyone to access the device. There is no encryption for this authentication option.
- WPA Pre-Shared Key authentication sets the Pre-Shared Key
   (PSK) or passphrase that must be entered when accessing
   wireless connectivity. You can choose to enter a HEX or ASCII
   value for the PSK. A HEX PSK must be a 256-bit (64 text
   character) HEX value. An ASCII passphrase must be 8 to 63 text
   characters. You must select Temporal Key Integrity Protocol
   (TKIP) or Advanced Encryption Standard (AES) encryption type
   for this option, or select Auto to allow either option.
- WPA permits authentication with an external RADIUS server. Enter the RADIUS server IP address, the port number to which the NetScreen device sends authentication requests, and the shared secret (password) between the NetScreen device and the RADIUS server. You must select TKIP or AES encryption type for this option, or select Auto to allow either option.

\*See http://www.juniper.net/products/integrated/5GT-ADSL/

### **Getting Started Guide**



The options presented are the most common ways to secure a wireless network. For information about all the security options, see the *NetScreen Wireless Reference Guide*. To use a security method that is not listed here, complete the ICW and then use the WebUI or CLI to configure it.

To change the IP address of the wireless2 interface, enter a new IP address and netmask. The default is 192.168.2.1/24.

### Step 8

To change the IP address of the Trusted Ethernet interface, enter a new IP address and netmask. If you change the IP address and netmask of the Trust interface, your workstation and the Trust interface of the NetScreen device might be on different subnetworks. Click **Next**.

**Note:** If you selected the **Home-Work** mode in step 5, you are prompted to provide the IP addresses and netmasks for the Home and Work zone interfaces instead of the Trusted Ethernet interface. You also have the option of choosing to receive an address via DHCP.

#### Step 9

You can choose to have the NetScreen device assign IP addresses to wired and wireless hosts in your network.

- Select Yes if the NetScreen device is to act as a DHCP server and assign dynamic IP addresses to hosts in the Trust zone. Enter a range for the assigned IP addresses or enter the address(es) of the DNS server(s). If you specify an IP address range that is in a different subnetwork than the Trust subnetwork, your workstation and the Trust zone interface of the NetScreen device might be in different subnetworks. To manage the NetScreen device using the WebUI, ensure that your workstation and the NetScreen interface are in the same subnetwork.
- Select No if you do not want the NetScreen device to assign IP addresses to hosts in the Trust zone.

#### Click Next.

#### Step 10

- Click **Previous** to modify configuration information.
- · Click Next to enter the configuration.

The NetScreen device reboots after clicking Next.

### Step 11

Click **Finish** in the final window and close the web browser. Relaunch the web browser and enter one of the Trust or Work zone interface IP addresses in the URL address field. (Your workstation and the NetScreen interface must be in the same subnetwork.)



#### BASIC SECURITY AND POLICY ADMINISTRATION

You must register your product at www.juniper.net/support/ to activate certain ScreenOS services, such as the Deep Inspection Signature Service. After registering, use the WebUI or CLI to obtain the subscription for the service.

### Step 1

**Using Policy Wizards**. By default, the NetScreen device permits workstations in your network to start sessions with outside workstations, while outside workstations cannot start sessions with your workstations. You can set up policies that tell the device what kinds of sessions to restrict or permit.

To set up a policy to either restrict the kinds of traffic that can be initiated from inside your network to go out to the Internet, or to permit certain kinds of traffic that can be initiated from outside workstations to your network, use the WebUI Policy Wizard. In the WebUI menu column, click **Wizards** > **Policy**. Follow the directions in the Wizard to configure a policy.

You can use the Wizards only when the device is in the default Trust-Untrust port mode. For details on setting up policies, see the NetScreen Concepts & Examples ScreenOS Reference Guide.

#### Step 2

**Using Protection Options.** The firewall attack protection (SCREEN) menu enables you to tailor detection and threshold levels for a range of potential attacks.

- a. In the WebUI menu column, click Screening > Screen.
- Select the zone for which you want to configure firewall attack protection.
- Select the appropriate protection options, and click Apply.
  Remember these features must be configured on each zone where they are required.

#### Step 3

**Verifying Access.** To verify that workstations in your network can access resources on the Internet, start a Web browser from any workstation in the network and enter the URL: www.juniper.net.

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