

# SonicWALL TZ 190 Wireless Getting Started Guide

This *Getting Started Guide* contains installation procedures and configuration guidelines for deploying a SonicWALL TZ 190 Wireless appliance on your network.

SonicWALL TZ 190 Wireless Wireless provides a flexible, total Internet security platform for wired and wireless users over Wireless Wide Area Networks (WWAN). This easy to configure appliance delivers the office-on-a-park-bench mobility and convenience of WWAN technology along with the powerful protection of true layered security, integrating gateway anti-virus, gateway anti-spyware, intrusion prevention and content filtering capabilities in an easy-to-use, low cost platform.

This Getting Started Guide provides instructions for basic installation and configuration of the SonicWALL TZ 190 appliance using a SonicWALL approved WWAN PC card and service from a third-party wireless provider. After you complete this guide, you will have secure Internet access (WAN / WWAN) and a secure Local Area Network (LAN) / Wireless Local Area Network (WLAN).

The SonicWALL TZ 190 appliance requires the use of a SonicWALL approved WWAN PC card along with a data account from a supported third-party wireless service provider. For an updated list of SonicWALL approved WWAN cards and service providers, visit the SonicWALL TZ 190 Wireless Wireless product page at:  
<[http://www.sonicwall.com/products/tz190\\_details.html](http://www.sonicwall.com/products/tz190_details.html)>



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**Alert:** ***DO NOT INSERT YOUR WWAN PC CARD INTO ANY DEVICE UNTIL YOU HAVE READ THIS GUIDE.***

*INSERTING YOUR WWAN PC CARD INTO A DEVICE BEFORE PROPER SETUP AND PROVISIONING HAS TAKEN PLACE CAN RESULT IN CONNECTIVITY ISSUES.*

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**Note:** *SonicWALL makes no warrants, representations or claims that the user of this product will experience continuous broadband-like speeds. The speed of the WWAN connection will vary depending on available wireless technology (GPRS/HSDPA/EV-DO), WWAN card, wireless service area and other factors.*

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## Important Information Regarding WWAN Service Providers

It is important to understand that not all WWAN service providers operate in the same way, nor do they all support the same feature sets. Because of this, there exists some inherent “service provider-specific” variances in service area and more importantly, in supported features. Along with feature limitations may also come certain restrictions such as bandwidth constraints and networking limitations. Before purchasing a WWAN PC card and service plan, check to make sure that the WWAN service provider offers support for the features you need.

***Before committing to a service contract with a WWAN service provider, it may be helpful to ask these questions:***

- What types of traffic are allowed over the WWAN network?
- Do they offer “static” or “dynamic” IP addressing?
- Are there any inbound connection limitations?
- Are single or multiple hosts allowed?
- Do they support VPN traffic?
- What are the data transfer limits (inbound and outbound)?
- What are common data transfer speeds and how much of the coverage area supports 3G or faster technology?

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## Document Contents

This document contains the following sections:

- 1 Completing Pre-Configuration Tasks**
- 2 Preparing Your WWAN PC Card**
- 3 Registering Your SonicWALL TZ 190 Wireless Appliance**
- 4 Setting Up Your SonicWALL TZ 190 Wireless Appliance**
- 5 Using the SonicWALL Configuration Wizard**
- 6 Verifying Your WWAN Connection**
- 7 Connecting the SonicWALL TZ 190 Wireless to Your Network**

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# 1

## Completing Pre-Configuration Tasks

This section contains the following sub-sections:

- “Before You Begin” on page 3
- “Checking Package Contents” on page 4
- “Recording Configuration Information” on page 5
- “Recording Internet Service Provider (ISP) Information” on page 6
- “Overview of the SonicWALL TZ 190 Wireless Appliance” on page 7

### Before You Begin

Before you begin the setup process, check to ensure that you have the following required components available:

- A SonicWALL approved WWAN Wireless PC Card and a service contract with a WWAN service provider
- Your WWAN service provider’s installation software
- A laptop computer with:
  - Windows XP or Windows 2000
  - One available PC card slot
  - 40MB of disk space available
- A Web browser supporting Java and HTTP uploads. Internet Explorer 6.0 or higher, Netscape Navigator 4.7 or higher, Mozilla 1.7 or higher, or Firefox are recommended



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**Note:** For an updated list of SonicWALL approved WWAN cards and service providers, visit the SonicWALL TZ 190 Wireless product page at:

<http://www.sonicwall.com/us/tz190cards.html>

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## Checking Package Contents

- 1 One SonicWALL TZ 190 appliance
- 2 Wireless antenna pair
- 3 One standard power adaptor\*
- 4 One DB9 -> RJ45 (CLI) Cable
- 5 One Ethernet Cable
- 6 One SonicWALL Resource CD
- 7 One Getting Started Guide Document
- 8 One Release Notes Document
- 9 One Thank You Card
- 10 One Security Subscription Card

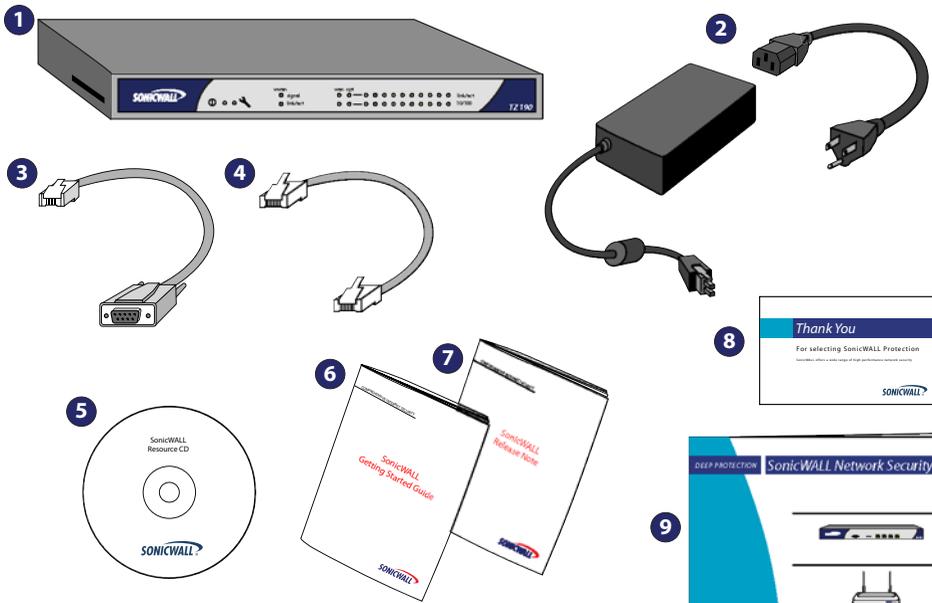
### Any Items Missing?

If any items are missing from your package, please **contact SonicWALL support**. A listing of the most current support options is available online at:

[<http://www.sonicwall.com/us/support.html>](http://www.sonicwall.com/us/support.html)

\* *The included power cord is intended for use in North America only. For European Union (EU) customers, a power cord is not included.*

\* *Das eingeschlossene Netzkabel ist für Gebrauch in Nordamerikas nur vorgehabt. Für Europäische Union (EU) Kunden, ist ein Netzkabel nicht eingeschlossen.*



## Recording Configuration Information

Before continuing, record the following configuration information for your reference:

### WWAN Connection Information

<b>WWAN Service Provider:</b> _____ (Cingular, Verizon, etc.)	Record the name of your WWAN service provider.
<b>WWAN Plan Type:</b> _____ (Standard, Acceleration, VPN, etc.)	Record the type of plan you have with your WWAN service provider. If you are not sure what your plan type is, ask your service provider.

### Registration Information

<b>Serial Number:</b> _____ (xxxxxxxxxxxx)	Record the serial number found on the bottom panel of your TZ 190 Wireless appliance.
<b>Authentication Code:</b> _____ (xxxx-xxxx)	Record the authentication code found on the bottom panel of your TZ 190 Wireless appliance.

### Networking Information

<b>TZ190WirelessLANIP Address:</b> _____	Select a static IP address for your TZ 190 Wireless appliance that is within the range of your local subnet.
<b>TZ 190 Wireless Subnet Mask:</b> _____	Record the subnet mask for the local subnet where you are installing your TZ 190 Wireless appliance.
<b>Ethernet WAN IP Address:</b> _____ (optional)	Select a static IP address for your Ethernet WAN. This setting only applies if you are already using an ISP that assigns a static IP (as in the case of a landline T1/E1 connection, where the WWAN is a failover).
<b>DNS Server 1 :</b> _____ (optional) <b>DNS Server 2 :</b> _____ (optional)	In most cases, DNS server information is automatically provided by your WAN service provider upon connection. Record your DNS server information here if your network requires it. If for example, you make use of internal DNS servers.

## Administrator Information

<b>TZ 190 Wireless Admin User:</b> _____	Select an administrator account name for your SonicWALL TZ 190 Wireless appliance (default is <i>admin</i> ).
<b>TZ 190 Wireless Admin Password:</b> _____	Select an administrator password for your SonicWALL TZ 190 Wireless appliance (default is <i>password</i> ).

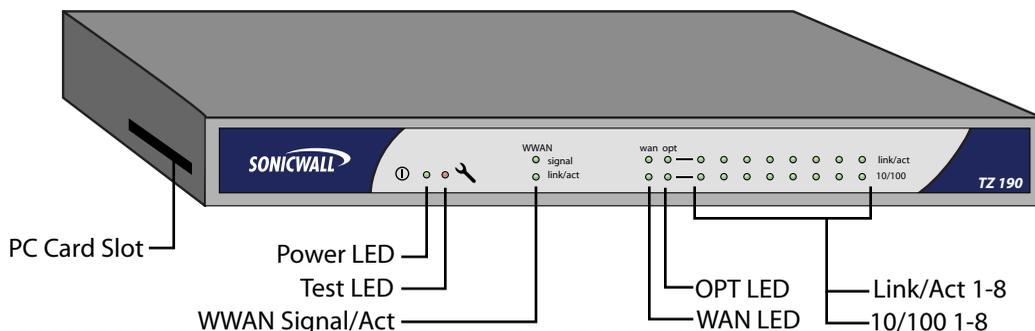
## Recording Internet Service Provider (ISP) Information

If you already have an Internet connection and are using the WWAN connection as a backup or “failover”, collect the following information about your current Internet service:

**Note:** *You do not need to complete this information if you are using the WWAN PC Card as your only connection to the Internet.*

If you connect via	You probably use	Please record
<b>Cable modem, DSL with a router</b>	DHCP	No Internet connection information is usually required. Some service providers require a host name. Check with your ISP. Host Name: _____
<b>Home DSL</b>	PPPoE	User Name: _____ Password: _____ <b>Note:</b> Your ISP may require your user name in the format: <i>name@ISP.com</i>
<b>T1/E1, Static broadband, Cable or DSL with a static IP</b>	Static IP	IP Address: _____ Subnet Mask: _____ Default Gateway (Router IP Address): _____ Primary DNS: _____ Secondary DNS (optional): _____
<b>Dial-in to a server</b>	PPTP	Server Address: _____ User Name: _____ Password: _____

## Overview of the SonicWALL TZ 190 Wireless Appliance



Feature	Description
<b>PC Card Slot</b>	Location to insert your WWAN PC Card modem. <i>For use only with SonicWALL approved PC cards.</i>
<b>Power LED</b>	Indicates the SonicWALL TZ 190 Wireless appliance is powered on.
<b>Test LED</b>	<b>Solid:</b> Indicates that the SonicWALL TZ 190 Wireless appliance is in test mode. <b>Blinking:</b> The unit is first booting up, or restarting. This can also indicate that the unit is in safe mode.
<b>WWAN</b>	Indicates WWAN signal or link activity through your WWAN PC Card.
<b>WLAN</b>	Indicates power, activity and WiFiSec enforcement on your WLAN.
<b>WAN</b>	Indicates a device link, activity and connection speed on your WAN port.
<b>OPT</b>	Indicates a device link, activity and connection speed on your OPT port.
<b>LAN Ports 1-8</b>	Indicates a device link, activity and connection speed on individual LAN ports.
<b>Signal</b>	Indicates availability and strength of a signal (WWAN port only).
<b>Link/ACT</b>	<b>Solid:</b> Indicates a device is connected to the specified port(s). <b>Blinking:</b> Indicates activity on the specified port(s).
<b>10/100</b>	<b>Green:</b> Indicates 10M connection on the specified port(s). <b>Amber:</b> Indicates 100M connection on the specified port(s).

\*For an updated list of SonicWALL approved WWAN cards and service providers, visit the SonicWALL TZ 190 Wireless product page at: <http://www.sonicwall.com/us/tz190cards.html>

## 2

## Preparing Your WWAN PC Card

This section provides instructions to set up your WWAN PC card for use in the SonicWALL TZ 190 Wireless appliance.

This setup process differs depending on you service provider. Choose your service provider from the list below and follow the instructions on how to set up your WWAN PC Card. If your service provider is not listed here, you must still complete the setup and activation for your PC Card modem using the documentation that came with it before it can be used in the SonicWALL TZ 190 Wireless appliance.



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**Alert:** ***DO NOT insert your PC Card into the SonicWALL TZ 190 Wireless appliance until you have completed the setup process for your card as described in this section.***

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**Tip:** *If your WWAN PC Card is already registered and activated with your service provider and you are able to access the Internet through your PC using this card, you may skip this section and continue to “Setting Up Your SonicWALL TZ 190 Wireless Appliance” on page 23.*

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Choose one of the PC card setup options below:

### General WWAN PC Card Setup

This section provides general instructions for setting up most WWAN PC cards:

- “**WWAN PC Card Setup**” on page 9

### Specific PC Card Setup

The following sections provide specific instructions for setting up specific cards:

- “**Sprint Wireless PC Card Setup**” on page 11
- “**Cingular Wireless PC Card Setup**” on page 14
- “**Verizon Wireless PC Card Setup**” on page 17

## WWAN PC Card Setup

Complete the following steps to set up and provision your WWAN PC Card Modem. Before continuing, check to make sure that your WWAN PC card and service provider are supported by the SonicWALL TZ 190 Wireless appliance by visiting the SonicWALL TZ 190 Wireless product page at: <http://www.sonicwall.com/us/tz190cards.html>

Contact your PC card vendor for troubleshooting help with this section.



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**Alert:** *DO NOT insert your PC Card modem into the computer until you have completed the setup process for your card as described in this section and successfully accessed the Internet through your PC using the PC Card modem.*

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### Installing PC Card Software

The following steps are general prerequisites necessary to set up most WWAN PC card modems to work with the TZ 190 Wireless.

1. Install the software that came bundled with your WWAN PC card modem before activating the card.
2. When prompted, insert the WWAN PC card modem into an available Type II PC card slot on the Windows PC you are using for card configuration.
3. Check for updates and install updates to your WWAN PC card (if available).
4. Activate your PC Card modem (if required).

### Verifying Your Connection

After the card has been set up on your PC, you can view your connection type and verify that the WWAN PC Card is transferring data.



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**Note:** *In order for the connection testing to be valid, it is important that you first disable all other network connections, such as a Wi-Fi or LAN connection, before continuing. Leave only your PC card connection enabled.*

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5. Use the software that came with your WWAN PC card modem to initialize a connection with your service provider.
6. In the Windows interface, select **Start > Run**.
7. Enter “cmd” in the **Open** field and click the **OK** button.
8. At the prompt, type the command “ipconfig” and press **Enter** on the keyboard.
9. Your network device status will display. Verify that you have obtained an IP Address for your Ethernet adaptor, and that all other Local Area Network Connections display “Media disconnected” as their status.



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**Note:** The name of your **Ethernet adaptor** may differ from the screenshot below. Common names for newly acquired cards are “Local Area Connection 2” or “Local Area Connection 3”.

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```
C:\Documents and Settings\pmylydon>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Media State . . . . . : Media disconnected

Ethernet adapter Local Area Connection 2:

    Connection-specific DNS Suffix  . :
    IP Address. . . . . : 166.214.210.64
    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . : 166.214.210.64
```

10. Open a Web-browser and navigate to a website, such as **<<http://www.sonicwall.com>>** to verify that your connection can transfer data.

**Congratulations!** You have set up and provisioned your WWAN PC card. Continue with “Setting Up Your SonicWALL TZ 190 Wireless Appliance” on page 23.

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## Sprint Wireless PC Card Setup

Complete the following steps to set up and provision your Sprint Wireless Mobile Broadband (WWAN) PC card. Contact your PC card vendor for troubleshooting help with this section.



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**Alert:** ***DO NOT insert your PC Card modem into the computer until you have completed the setup process for your card as described in this section and successfully accessed the Internet through your PC using the PC Card modem.***

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### Installing Sprint Software

You must install the Sprint Wireless software that came bundled with your WWAN PC card before activating the card.

1. Insert the Sprint CD that is provided with your WWAN PC card into the PC you intend to use for PC card setup.
2. Follow the instructions on screen to complete the Sprint software installation.
3. Restart your computer when prompted.
4. After restarting your computer, open the Sprint PCS Connection Manager program (if it does not automatically start).
5. When the program launches, it will check for updates. Click **Update Now** as needed. The download and update will proceed (if needed) and the program may restart.

### Setting Up the WWAN PC Card

1. Insert your Sprint WWAN PC Card. You may hear some audible indications of the card being discovered and installed.
2. Once installed, you may be prompted to update the firmware on the WWAN PC card. Click **OK** to proceed with the update and click **Next** to agree to the license terms. The update will take a few minutes. The WWAN PC Card will be rediscovered during this process. Click **Finish** when prompted.
3. When the card is fully rediscovered, you will be prompted to call Sprint PCS Customer Service to activate the card. Do not click next until prompted to do so by the Sprint agent.
4. The Sprint agent will provide you with an Activation Code, and instruct you to enter it on the next screen. Enter the Activation Code and click **Next**.
5. If the code is accepted, you will be prompted to enter your phone number (MDN) and MSID. Verify these numbers with the Sprint agent, and be sure to enter them correctly. Click **Next** when done.
6. You will be prompted to confirm the correctness of the numbers. Entering incorrect information at this stage will require recovery by Sprint Technical Support. Click **Yes** once you have verified the numbers.

7. You will be presented with a screen indicating the completion of the Activation process. Click **Finish** to proceed

## Verifying Your Connection

It may take up to 4 hours for your WWAN PC card to become active on the Sprint network. After the card has been set up and is active, you can view your connection type and verify that the WWAN PC Card is transferring data.



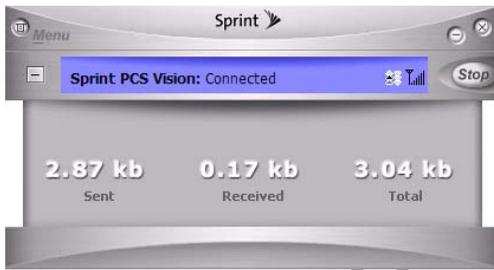
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**Alert:** *In order for the connection testing to be valid, it is important that you first **disable all other network connections**, such as a Wi-Fi or LAN connection, before continuing. Leave only your PC card connection enabled.*

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1. Open the Sprint PCS Connection Manager program.
2. Click the **GO** button to connect to the Sprint network.

The WWAN PC card will take a few minutes to connect to the Sprint network. When the connection is ready, the status will read "Connected".



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**Note:** *If you have recently activated your card with Sprint, keep in mind that the initial activation of your card may take up to 4 hours.*

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3. In the Windows interface, select **Start > Run**.
4. Enter "cmd" in the **Open** field and click the **OK** button.
5. At the prompt, type the command "ipconfig" and press **Enter** on the keyboard. Your network device status will display.

6. Verify that you have obtained an IP Address for your Ethernet adaptor.
7. Verify that all other Local Area Network Connections display “Media disconnected” as their status.



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**Note:** The name of your **Ethernet adaptor** may differ from the screenshot below. Common names for newly acquired cards are “Local Area Connection 2” or “Local Area Connection 3”.

---

```
C:\Documents and Settings\pmllydon>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Media State . . . . . : Media disconnected

Ethernet adapter Local Area Connection 2:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 166.214.210.64
    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . : 166.214.210.64
```

8. Open a Web-browser and navigate to a website, such as **<<http://www.sonicwall.com>>** to verify that your connection can transfer data.

**Congratulations!** You have set up and provisioned your WWAN PC card. Continue with “Setting Up Your SonicWALL TZ 190 Wireless Appliance” on page 23.

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## Cingular Wireless PC Card Setup

Complete the following steps to set up and provision your Cingular Wireless 3G PC card. Contact your PC card vendor for troubleshooting help with this section.



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**Alert:** ***DO NOT insert your PC Card modem into the computer until you have completed the setup process for your card as described in this section and successfully accessed the Internet through your PC using the PC Card modem.***

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### Installing Cingular Software

You must install the Cingular software that came bundled with your 3G PC card modem before activating the card.

1. Insert the Cingular CD that is provided with your PC card modem into the PC you intend to use for PC card setup.
2. Follow the instructions on screen to complete the Cingular software installation.
3. Restart your computer if prompted.
4. If the Cingular Communications Manager program is running, skip to the next step. Otherwise, navigate to **Start > Programs > Cingular > Cingular Communications Manager** to start the Communications Manager program.
5. De-select all checkboxes on the first configuration page, including the **Use this as my default Wi-Fi management utility** option (checked by default).
6. A warning screen will display. Check the **Do not show this message again** checkbox and click the **OK** button to continue.
7. Click the **Finish** button to complete post-install configuration.

### Preparing the PC Card

Now that you have installed the required activation software on our PC, you can prepare the card for first use.

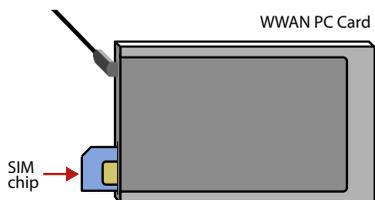
1. Remove the PC card from the packaging and attach antenna if necessary.
2. Locate your SIM chip and remove it from its packaging if necessary (the SIM chip may be attached to a larger 3x5 plastic card from which it must be removed).
3. Insert the SIM chip into your PC card modem. When inserted correctly, the SIM chip will “click” in place and sit perfectly flush with the edge of the PC Card.



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**Note:** Pay close attention to the orientation of your SIM card when inserting. Follow the manufacturer's directions carefully when completing this procedure.

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4. Insert the PC card modem into an available Type II PC card slot on your Windows PC.
5. If the Cingular Communications Manager program is running, skip to the next step. Otherwise, navigate to **Start > Programs > Cingular > Cingular Communications Manager** to start the Communications Manager program. When the program is launched, you will see an interface similar to the one below.

**GSM Tab** - Use this tab for WWAN PC card management.

**Connect Button** - Click here to make a connection to the current network.

**Status** - Shows "ready" when a connection is available.

**3G** - Indicator will show when you are connected to a 3G enabled network.

**Signal** - Displays the signal strength of your current connection.

6. Optionally, you may select **Tools > Check for Updates** to see if updates are available for your card vendor.



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**Note:** Additional updates, including those for the PC card firmware may be recommended by Cingular. If so, follow the steps provided to complete these updates before continuing.

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## Verifying Your Connection

After the card has been set up on your PC, you can view your connection type and verify that the WWAN PC Card is transferring data.



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**Alert:** *In order for the connection testing to be valid, it is important that you first **disable all other network connections**, such as a Wi-Fi or LAN connection, before continuing. Leave only your PC card connection enabled.*

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1. If the Cingular Communications Manager program is running, skip to the next step. Otherwise, navigate to **Start > Programs > Cingular > Cingular Communications Manager** to start the Communications Manager program.

The WWAN PC card will take a few minutes to connect to the Cingular network. When the connection is ready, the status will read “Ready: Cingular Accelerated”.

2. Click the **Connect** button to enable the network connection.
3. In the Windows interface, select **Start > Run**.
4. Enter “cmd” in the **Open** field and click the **OK** button.
5. At the prompt, type the command “ipconfig” and press **Enter** on the keyboard. Your network device status will display.
6. Verify that you have obtained an IP Address for your Ethernet adaptor.
7. Verify that all other Local Area Network Connections display “Media disconnected” as their status.



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**Note:** *The name of your **Ethernet adaptor** may differ from the screenshot below. Common names for newly acquired cards are “Local Area Connection 2” or “Local Area Connection 3”.*

---

```
C:\Documents and Settings\pmylydon>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Media State . . . . . : Media disconnected

Ethernet adapter Local Area Connection 2:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 166.214.210.64
    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . : 166.214.210.64
```

8. Open a Web-browser and navigate to a website, such as **<<http://www.sonicwall.com>>** to verify that your connection can transfer data.

**Congratulations!** You have set up and provisioned your WWAN PC card. Continue with “Setting Up Your SonicWALL TZ 190 Wireless Appliance” on page 23.

## Verizon Wireless PC Card Setup

Complete the following steps to set up and provision your Verizon Wireless WWAN PC card. Contact your PC card vendor for troubleshooting help with this section.



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**Alert:** ***DO NOT insert your PC Card modem into the computer until you have completed the setup process for your card as illustrated in this section and successfully accessed the Internet through your PC using the PC Card modem.***

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### Installing Verizon Software

You must install the Verizon software that came bundled with your WWAN PC card modem before activating the card.

1. Insert the Verizon CD that is provided with your PC card modem into the PC you intend to use for PC card setup.
2. Follow the instructions on screen to complete the software installation.
3. Exit the installer after setup is complete.
4. Navigate to **Start > Programs > Verizon > VZAccess Manager** to start the VZAccess Manager program.
5. Click the **Check for Updates** button. When finished, click **Next** to continue.
6. Select the **Detect WWAN device only (1xEVDO/1xRTT/CDMA)** radio button and click the **Next** button to continue.
7. Click the **Next** button to search for your WWAN PC card.
8. Select the **PC Card** radio button and click the **Next** button to continue.
9. Click the **Finish** button to complete post-install configuration.
10. Insert the PC card modem into an available Type II PC card slot on your Windows PC.
11. When your card is found, click the **Next** button to continue.
12. Click the **Activate** button to activate your WWAN PC card modem.



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**Note:** *If activation fails on the first attempt, exit and then re-launch the program, keeping the WWAN PC Card inserted during the process.*

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13. An "Activation Successful" message will appear. Click the **OK** button.
14. Click the **Next** button.
15. Verify the correctness of the wireless phone number assigned to this PC card. If the number is incorrect, enter the correct number in the **Phone number** field. Click the **Next** button to continue.
16. Uncheck the **Run VZAccess Manager at Startup** option (unless you intend to use VZAccess to manage wireless connections on this PC). Click the **Finish** button.

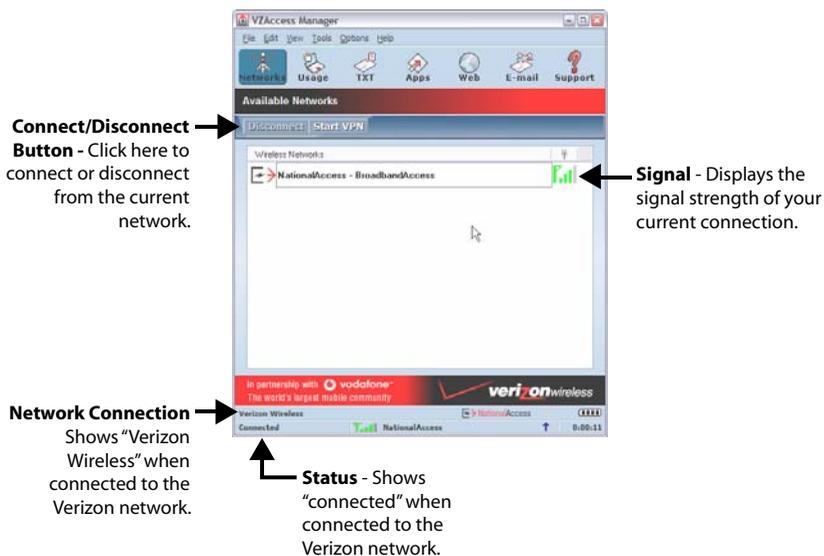
## Verifying Your Connection

After the card has been set up on your PC, you can view your connection type and verify that the WWAN PC Card is transferring data.



**Note:** *In order for the connection testing to be valid, it is important that you first disable all other network connections, such as a Wi-Fi or LAN connection, before continuing. Leave only your PC card connection enabled.*

1. If the VZAccess Manager program is running, skip to the next step. Otherwise, navigate to **Start > Programs > Verizon > VZAccess Manager** to start the VZAccess Manager program.



The WWAN PC card will take a few minutes to connect to the network. When the connection is ready, the signal indicator will light up green with bars to indicate connection strength.

2. Click the **Connect** button to enable the network connection.
3. If a disclaimer displays, click the **Continue** button. When the connection attempt is successful, the bottom-left corner of the VZAccess Manager will read **Connected**.
4. In the Windows interface, select **Start > Run**.
5. Enter "cmd" in the **Open** field and click the **OK** button.
6. At the prompt, type the command "ipconfig" and press **Enter** on the keyboard. Your network device status will display.

7. Verify that you have obtained an IP Address for your Ethernet adaptor.
8. Verify that all other Local Area Network Connections display “Media disconnected” as their status.



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**Note:** The name of your **Ethernet adaptor** may differ from the screenshot below. Common names for newly acquired cards are “Local Area Connection 2” or “Local Area Connection 3”.

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    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . : 166.214.210.64
```

9. Open a Web-browser and navigate to a website, such as **<<http://www.sonicwall.com>>** to verify that your connection can transfer data.

**Congratulations!** You have set up and provisioned your WWAN PC card. Continue with “Setting Up Your SonicWALL TZ 190 Wireless Appliance” on page 23.

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## Registering Your SonicWALL TZ 190 Wireless Appliance

This section contains the following sub-sections:

- “Before You Register” on page 20
- “Creating a mysonicwall.com Account” on page 21
- “Registering Your SonicWALL TZ 190 Wireless Appliance” on page 22

### Before You Register

You need a mysonicwall.com account to register the SonicWALL TZ 190 Wireless appliance. If you already have a mysonicwall.com account, go to “Registering Your SonicWALL TZ 190 Wireless Appliance” on page 22 to register your appliance.



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**Note:** *mysonicwall.com registration information is not sold or shared with any other company.*

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## Creating a mysonicwall.com Account

Creating a mysonicwall.com account is fast, simple, and FREE. Simply complete an online registration form.

1. In your Web browser, go to <https://www.mysonicwall.com>.
2. In the User Login section, click the “[Click here](#)” link in “If you are not a registered user, [Click here](#).”



The screenshot shows the 'User Login' form with the following elements:

- Username: [Empty text box]
- Password: [Empty text box]
- Home [Dropdown menu]
- Remember Username
- SUBMIT [Button]
- CANCEL [Button]
- Forgot Username? [Click here](#)
- Forgot Password? [Click here](#)
- If you are not a registered user, [Click here](#)

3. Enter the account information, personal information, and preferences and click **Submit**.

**Note:** You must enter a valid email address.

4. Follow the prompts to finish creating your account. SonicWALL will email a subscription code to the email address you entered in the personal information.
5. When you return to the login screen, log in with your new username and password.



The screenshot shows the 'User Login' form with the following elements:

- Username: pmyldon
- Password: [Masked with asterisks]
- Home [Dropdown menu]
- Remember Username
- SUBMIT [Button]
- CANCEL [Button]

6. Confirm your account by entering the subscription code you received in the email.

Congratulations, you have created and logged into your mysonicwall.com account. Continue to “Registering Your SonicWALL TZ 190 Wireless Appliance” on page 22.

## Registering Your SonicWALL TZ 190 Wireless Appliance

1. Locate your SonicWALL TZ 190 Wireless Software **Serial Number** and **Authentication Code**. This information is printed on the bottom panel of your SonicWALL TZ 190 Wireless appliance.
2. In your Web browser, go to <<https://www.mysonicwall.com>> and login with your mysonicwall.com username and password.

User Login ?

Username:

Password:

▼

Remember Username

3. Enter your serial number in the **Quick Register** field and click the small gray arrow. Follow the on-screen instructions.

Quick Register

Enter your Activation Key or Serial Number to activate your product.

4. Confirm your **serial number**.
5. Enter a **friendly name** for this appliance.
6. Enter your **authentication code**.

### Add New Product

Please enter the serial number of the new product to be registered. Please use the software license key when registering a software product..

Serial Number:  [What is this?](#)

Friendly Name:   
May be up to 30 characters (Ex: "San Jose Branch Office") .

Authentication Code:  [What is this?](#)

7. Click the **Register** button to continue.
8. Follow the online prompts to fill out the survey and complete the registration process.

## 4

## Setting Up Your SonicWALL TZ 190 Wireless Appliance

This section contains the following sub-sections:

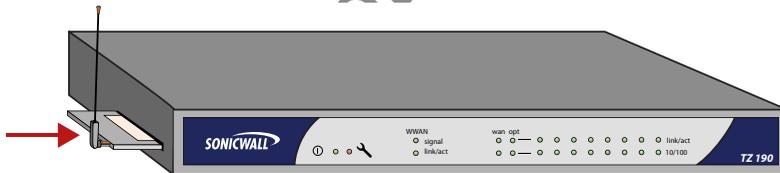
- “Insert the WWAN PC Card Modem” on page 23
- “Apply Power to the SonicWALL TZ 190 Wireless” on page 23
- “Connect Directly to the SonicWALL TZ 190 Wireless Appliance” on page 24
- “Log into the SonicWALL TZ 190 Wireless Appliance” on page 25
- “If the SonicWALL Configuration Wizard Does Not Appear” on page 25

### Insert the WWAN PC Card Modem

Before inserting the WWAN PC card into your SonicWALL TZ 190 Wireless appliance, be sure your WWAN PC card is activated and unlocked. If you are not sure whether your card is unlocked or not, contact the PC Card vendor to verify.

**Note:** Do not insert or remove the WWAN PC card while the SonicWALL TZ 190 Wireless is powered on.

1. Ensure the TZ 190 Wireless is **not** connected to a power source.
2. Insert your WWAN PC card modem “face up” into the PC CARD slot on the left side of the SonicWALL TZ 190 Wireless appliance. The card should sit firmly in place.



### Apply Power to the SonicWALL TZ 190 Wireless

1. Connect one end of the power supply to the back of the SonicWALL TZ 190 Wireless
2. Connect the other end of the power supply to an appropriate power outlet.

**Note:** The Power  LED on the front panel lights up green when you power the SonicWALL TZ 190 Wireless appliance. The Test  LED lights up and blinks while the appliance performs a series of diagnostic tests. When the Test LED is no longer lit, the SonicWALL TZ 190 Wireless appliance is ready for configuration. If the Test  LED stays lit for more than a few minutes after the initial power on sequence, cycle power to the SonicWALL TZ 190 Wireless appliance.

## Connect Directly to the SonicWALL TZ 190 Wireless Appliance

Before you can connect your management station to it, you must configure your management station to accept DHCP addressing or have it set to an address in the same subnet as the SonicWALL TZ 190 Wireless appliance.



---

**Note:** *If it is necessary to change networking settings on the computer you are using as a management station, record your computer's current network settings so they can be restored after configuration is complete.*

---

1. Set the computer you are using to manage the SonicWALL TZ 190 Wireless appliance (management station) to accept DHCP addressing or to have a static IP address in the 192.168.168.x range, such as **192.168.168.20** and a subnet mask of **255.255.255.0**.

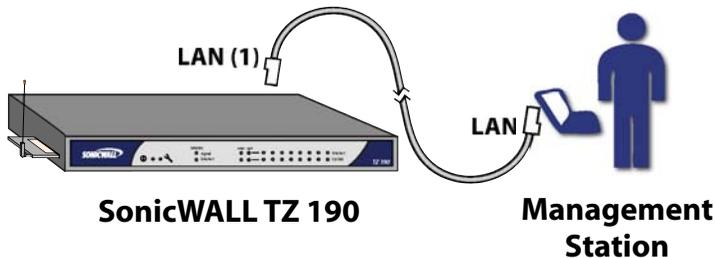


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**Note:** *For help with setting up a static IP address on your computer, refer to "Configuring a Static IP Address" on page 39.*

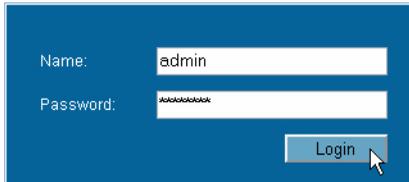
---

2. Using the supplied network cable and the management station, connect the **LAN** port on the management station to the **LAN (1)** port on the back of your SonicWALL TZ 190 appliance.



## Log into the SonicWALL TZ 190 Wireless Appliance

1. Open a Web browser on the computer you are using to administer the SonicWALL TZ 190 appliance.
2. Enter **http://192.168.168.168** (the default IP address of the SonicWALL TZ 190 Wireless appliance) in the **Location** or **Address** bar. The SonicWALL TZ 190 Wireless Web management login screen displays:



Name: admin

Password: [masked]

Login

---

**Note:** Depending on your browser settings, **one or more** security warnings may display while connecting to the TZ 190 Wireless Web management interface. Choose to accept the certificates in order to log into the SonicWALL TZ 190 Wireless appliance.

---

3. Log into the SonicWALL TZ 190 Wireless appliance using **“admin”** as the user name and **“password”** as the password.

When you first log into the SonicWALL TZ 190 Wireless appliance, the **Configuration Wizard** screen displays. Continue to the next section “Using the SonicWALL Configuration Wizard” on page 26 for instructions on completing the Configuration Wizard.

### If the SonicWALL Configuration Wizard Does Not Appear

- If you see the login screen, but not the Configuration Wizard:
  - Allow popups for the SonicWALL TZ190 appliance by adding the appliance’s default IP address (192.168.168.168) to your browser’s “allowed” list.
  - Log into the security appliance using **“admin”** as the user name and **“password”** as the password. After you log in, click the **Wizards** button on the **System > Status** page.
- If you do not see the login screen or the Configuration Wizard:
  - Did you correctly enter the SonicWALL TZ 190 Wireless appliance management IP address, *192.168.168.168*, in your Web browser?
  - Are the Local Area Connection settings on your computer set within the 192.168.168.x subnet range? If not, see “*Configuring a Static IP Address*” on page 39 for instructions on changing your Local Area Connection settings.
  - Do you have the Ethernet cable connected to your computer and to LAN (1) on your SonicWALL TZ 190 Wireless?
  - Do you need to add the SonicWALL TZ 190 Wireless to your list of trusted sites? Use the default IP address (192.168.168.168) for this purpose.

## Using the SonicWALL Configuration Wizard

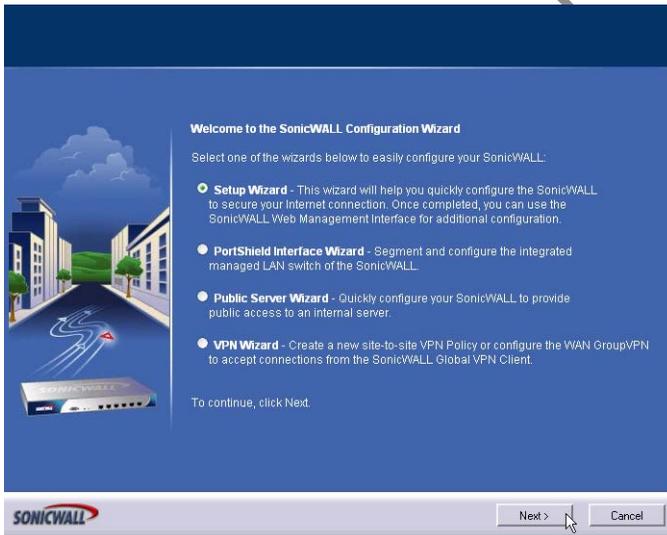
The SonicWALL **Setup Wizard** provides administrator-guided instructions for configuring your SonicWALL TZ190 appliance.



**Note:** *It is important that you have collected any required configuration information before using the **Setup Wizard**. Be sure to fill out the information in “Recording Configuration Information” on page 5 and “Administrator Information” on page 6.*

### SonicWALL TZ 190 Wireless Setup Wizard

1. If the **Setup Wizard** does not display upon initial log into the SonicWALL TZ 190 Wireless appliance management interface, click the **Wizards** button in the left-hand navigation panel of the interface.
2. Select **Setup Wizard** radio button and click the **Next** button to continue.



## Changing Administrator Password

3. Enter a **New Password** and **Confirm** that password. Click the **Next** button to continue.

Please select a strong password. A strong password should be a combination of numbers and letters up to 32 characters long.

The password you select will be case-sensitive. It should not be a word that appears in the dictionary, and it should not contain personal information such as birthdates, names of relatives, or license plate numbers. It should be something easy to remember, but difficult to guess, such as "11k3ch33s3".

Old Password:

New Password:

Confirm:

To continue, click Next.

---

**Note:** *Keep your new password in a safe place. If you lose your password, you will have to reset the SonicWALL security appliance to factory settings and will lose your configuration. For instructions on resetting your SonicWALL security appliance, refer to the [SonicOS Enhanced Administrator's Guide](#).*

---

## Selecting a Time Zone

4. Choose your local **Time Zone** from the drop-down list.
5. If your location observes daylight savings time, check the **Automatically adjust clock for daylight savings time** checkbox.

SonicWALL's internal clock will be automatically configured by accessing a Network Time server on the Internet.

Please select your Time Zone from the pull-down menu.

Time Zone:

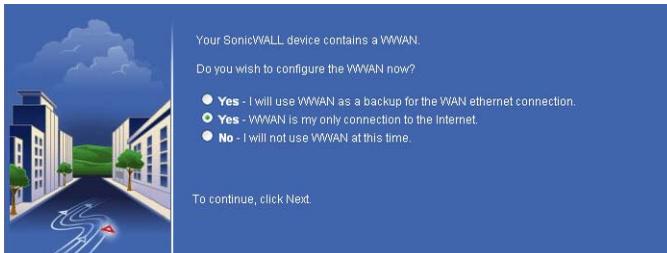
Automatically adjust clock for daylight saving time.

To continue, click Next.

6. Click the **Next** button to continue.

## Selecting the Proper WWAN Mode

7. Select how you want to use your WWAN connection.



Select from the following:

<b>Yes - I will use WWAN as a backup for the WAN Ethernet connection.</b>	Select this option if you currently have a WAN Internet connection and wish to use your WWAN wireless connection as a WAN failover.
<b>Yes - WWAN is my only connection to the Internet.</b>	Select this option if you wish to use your WWAN wireless connection as your primary connection to the Internet.
<b>No - I will not use the WWAN at this time.</b>	Select this option if you wish to configure your WWAN connection at a later time. You can always re-launch the wizard from the SonicWALL TZ 190 Wireless appliance management interface at a later time.

8. Click the **Next** button to continue.

## Configuring WWAN Service Provider Settings

9. Select your WWAN service provider settings.



Select from the following:

<b>Country</b>	Select the country this device is used in.
<b>Service Provider</b>	Select your WWAN service provider.
<b>Plan Type</b>	Select the plan type that your purchased from your service provider.

10. Click the **Next** button to continue.

## Verifying WWAN Service Provider Information

11. Verify your WWAN service provider settings for correctness. In most cases these settings will be correct and do not have to be changed:



**Note:** *These settings are based on your service provider and country of operation. If you correctly configured your service provider information in the previous step, these settings should be correct and do not need to be changed. In certain situations, some steps are left blank.*

<b>Profile Name</b>	Choose a friendly name for this profile, or leave the name at default.
<b>Connection Type</b>	Verify the correct connection type is selected. For a complete list of connection types, refer to the latest <i>SonicOS Administrator's Guide</i> .
<b>Dialed Number</b>	Verify the dial-out number your service provider requires to obtain a WWAN connection.
<b>User Name</b>	Verify the correct user name for your service provider ( <i>this field may be blank depending on your service provider</i> ).
<b>Password</b>	Verify the correct password for your service provider ( <i>this field may be blank depending on your service provider</i> ).
<b>Confirm Password</b>	Confirm the correct password for your service provider ( <i>this field may be blank depending on your service provider</i> ).
<b>APN</b>	Verify your access point name ( <i>this field may be blank depending on your service provider</i> ).

12. If these settings appear to be correct, click the **Next** button to continue.

## Backup (Failover) / Primary Connection Configuration

Based on the WWAN mode you chose in "Selecting the Proper WWAN Mode" on page 28, continue to one of the following two sections:

- If you selected **WWAN as a backup for the WAN Ethernet connection**, continue to "Configuring WWAN as Failover" on page 30.
- If you selected **WWAN is my only connection to the Internet**, continue to "Configuring LAN Settings" on page 34.

## Configuring WWAN as Failover

Complete this section if you are using the WWAN wireless connection as a failover for your primary Internet connection.

If you intend to use the WWAN wireless connection as your primary connection, skip this section and continue to “Configuring LAN Settings” on page 34.

### Selecting WAN Network Mode

1. Select the correct type of network connection for your network:

**Note:** The **Setup Wizard** automatically detects most networking modes. If it does not detect a networking mode, you may have a static IP address. See “Administrator Information” on page 6.



Select from the following:

<b>Static IP</b>	Select <b>Static IP</b> if you want to give the SonicWALL TZ190 appliance a specific, unchanging IP address.
<b>DHCP</b>	Select <b>DHCP</b> if your ISP assigns your computer a dynamic IP address. DHCP is commonly used with cable modems.
<b>PPPoE</b>	Select <b>PPPoE</b> if your ISP requires a username and password to establish a connection and assign a dynamic address. PPPoE is commonly used with DSL modems.
<b>PPTP</b>	Select <b>PPTP</b> if you dial into a specific server and log into a VPN to establish a connection. With PPTP, you can have either a static or dynamic IP address.

2. Click the **Next** button to continue.
3. Based on your **WAN Network Mode**, continue to one of the following sections:
  - If you selected **Static IP**, continue to “Static IP” on page 31.
  - If you selected **DHCP**, continue to “DHCP” on page 31.
  - If you selected **PPPoE**, continue to “PPPoE” on page 32.
  - If you selected **PPTP**, continue to “PPTP” on page 33.

## Static IP

1. Configure your Internet service provider settings:



The screenshot shows a configuration window with a blue background and a street scene illustration on the left. The text reads: "You will need to fill in the following fields to connect to the Internet. All these values must be entered as numerical IP addresses (such as 10.50.128.52). If you do not have the information, please contact your ISP." Below this are five input fields with the following labels and values: "SonicWALL WAN IP Address: 166.214.85.210", "WAN Subnet Mask: 255.255.255.0", "Gateway (Router) Address: 166.214.85.210", "DNS Server Address: 10.11.12.13", and "DNS Server Address #2 (optional): 10.11.12.14".

<b>SonicWALL WAN IP Address</b>	Enter a single, static IP address. This must be in the address range assigned to you by your ISP.
<b>WAN Subnet Mask</b>	Enter the subnet mask for your network, provided by your ISP. For example, 255.255.255.0.
<b>Gateway (Router) Address</b>	Enter the IP address of your Internet gateway, provided by your ISP.
<b>DNS Server Address</b>	Enter the IP address of the DNS server for your network, provided by your ISP.
<b>DNS Server Address #2 (optional)</b>	You can enter a secondary, back-up DNS server to use if the first one fails.

2. Click the **Next** button to continue.
3. Continue to "Configuring LAN Settings" on page 34 to finish the Wizard.

## DHCP

1. You do not need to enter any WAN networking settings if you selected DHCP. The network settings are provisioned automatically from a DHCP server.
2. Click the **Next** button to continue.
3. Continue to "Configuring LAN Settings" on page 34 to finish the Wizard.

## PPPoE

1. Configure your Internet service provider settings:



<b>Obtain an IP Address Automatically</b>	Select this if your ISP assigns you a dynamic IP address.
<b>Use the following IP Address</b>	Select this if your ISP has assigned you a static IP address, and enter the address.
<b>PPPoE User Name</b>	Enter the user name for your Internet account. Your ISP may require you to enter your username in e-mail address format, including “@” and the domain name, for example, <i>joe.user@sonicwall.com</i> .
<b>PPPoE Password</b>	Enter the password for your Internet account.
<b>Inactivity Disconnect (minutes)</b>	Check this box if you want the SonicWALL TZ190 appliance to disconnect from the Internet if there is no traffic for the number of minutes you enter.

2. Click the **Next** button to continue.
3. Continue to “Configuring LAN Settings” on page 34 to finish the Wizard.

## PPTP

1. Configure your Internet service provider settings:

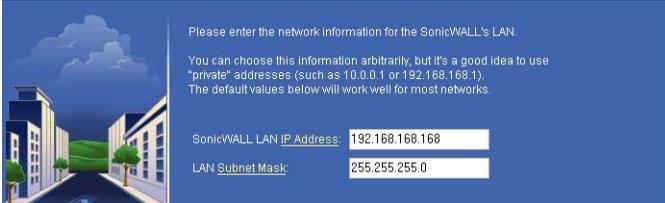


<b>PPTP Server IP Address</b>	Enter the address of the PPTP server.
<b>PPTP User Name</b>	Enter your network user name.
<b>PPTP Password</b>	Enter your network password.
<b>Obtain an IP Address Automatically</b>	Select this if the server assigns you a dynamic IP address.
<b>Use the following IP Address</b>	Check this if you have been given a static IP address, and fill in the following three fields.
<b>SonicWALL WAN IP Address</b>	Enter the static IP address for your connection.
<b>WAN Subnet Mask</b>	Enter the subnet mask for your connection.
<b>Gateway (Router) Address</b>	Enter the address of your Internet Gateway.

2. Click the **Next** button to continue.
3. Continue to “Configuring LAN Settings” on page 34 to finish the Wizard.

## Configuring LAN Settings

By default, your SonicWALL TZ 190 Wireless is configured with a LAN network IP address, **192.168.168.168**, and subnet mask, **255.255.255.0**, which will work well for most installations. In most cases, you can leave the default LAN IP address and subnet mask unchanged.



1. Configure as follows:

<b>SonicWALL LAN IP Address</b>	Enter an IP address for the LAN interface of your SonicWALL TZ 190 appliance. Record the address: _____.
<b>LAN Subnet Mask</b>	Enter a subnet mask for your LAN interface.



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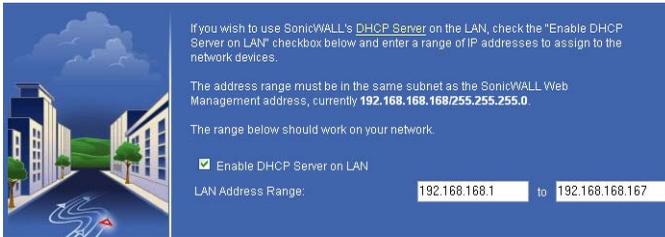
**Note:** Record the LAN IP address in a safe place, this is the IP address you will use to access the SonicWALL TZ 190 Wireless management interface.

---

2. Click the **Next** button to continue.

## Configuring DHCP Settings

The LAN DHCP Settings screen allows you to configure the DHCP server in the SonicWALL TZ 190 Wireless to automatically distribute IP addressing information to computers and other network devices on your LAN.



If you wish to use SonicWALL's DHCP Server on the LAN, check the "Enable DHCP Server on LAN" checkbox below and enter a range of IP addresses to assign to the network devices.

The address range must be in the same subnet as the SonicWALL Web Management address, currently **192.168.168/255.255.255.0**

The range below should work on your network.

Enable DHCP Server on LAN

LAN Address Range:  to

3. Configure your LAN settings as follows:

<b>Enable DHCP Server on LAN</b>	Leave this checkbox checked to use the DHCP server in the SonicWALL TZ190 appliance security appliance. Do not select this option if you already have a DHCP server on your network, or if you want to require your network clients to have static IP addresses.
<b>LAN Address Range</b>	If you enabled the DHCP Server, enter a range of IP addresses in the same subnet as the LAN IP address, or leave the default range unchanged. The default DHCP range will work for most installations.

4. Click the **Next** button to continue.
5. The **Configuration Summary** window displays. Take this opportunity to verify that your settings are correct.

**Note:** *Settings differ based on the role your WWAN plays in the network setup and based on your WWAN and LAN network settings. The settings below are for a configuration where the Cingular WWAN is the primary interface.*



**Modem Interface - Enabled**  
Modem configured as primary ethernet connection.  
Phone number: \*99#  
User name: ISPDA@CINGULARGPRS.COM  
Password: <set as previously>

**LAN Interface - Enabled**  
IP Address: 192.168.168.168  
Subnet Mask: 255.255.255.0  
DHCP Enabled: 192.168.168.1 - 192.168.168.167

To apply these settings, click Apply.

6. Click the **Apply** button to save these changes. The SonicWALL TZ 190 Wireless appliance will reboot. This process may take several minutes.

## Verifying Your WWAN Connection

This section provides instructions to ensure proper connectivity of your SonicWALL TZ 190 appliance. This section contains the following sub-sections:

- “WWAN Connection Status” on page 36
- “Manage WWAN Connection” on page 37
- “Check Internet Connectivity” on page 37

### Log Into the Management Interface

The SonicWALL TZ 190 Wireless appliance will redirect to the login page after rebooting. Use your new **username** and **password** to log into the appliance after reboot.



**Note:** If you changed the LAN IP address of the SonicWALL TZ 190 Wireless appliance during the setup wizard, you may have to re-configure the IP settings on your computer to access the appliance. For more help with connection issues, turn to page 25.

### WWAN Connection Status

The **Network > Interfaces** page allows you to view the current WWAN connection status.

1. In the SonicWALL TZ 190 Wireless appliance management interface, navigate to **Network > Interfaces**.
2. In the Interface Settings section, the WWAN interface line displays the current status as follows:

☐ WWAN    WAN    166.214.28.23    255.255.255.0    Dial-Up    **Manage**    Connected    Dial-Up    

<b>on hook</b>	Indicates that the WWAN card is present but not yet connected.
<b>connected and starting PPP authentication</b>	Indicates that the WWAN card is associated with and currently attempting a connection to the WWAN network.
<b>connected</b>	Indicates an active connection.

## Manage WWAN Connection

The Connection Manager window allows you to connect, disconnect and view current WWAN connection status.

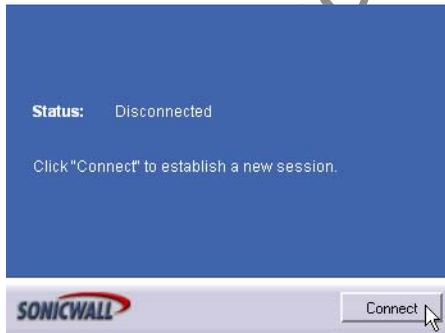
1. In the SonicWALL TZ 190 Wireless appliance management interface, navigate to **Network > Interfaces**.
2. In the Interface Settings section, under WWAN, click the **Manage** button.



3. The Connection Manager windows displays your connection status.



4. If the Connection Manager shows “disconnected”, click the **Connect** button. If a network is available, you will be connected to it.



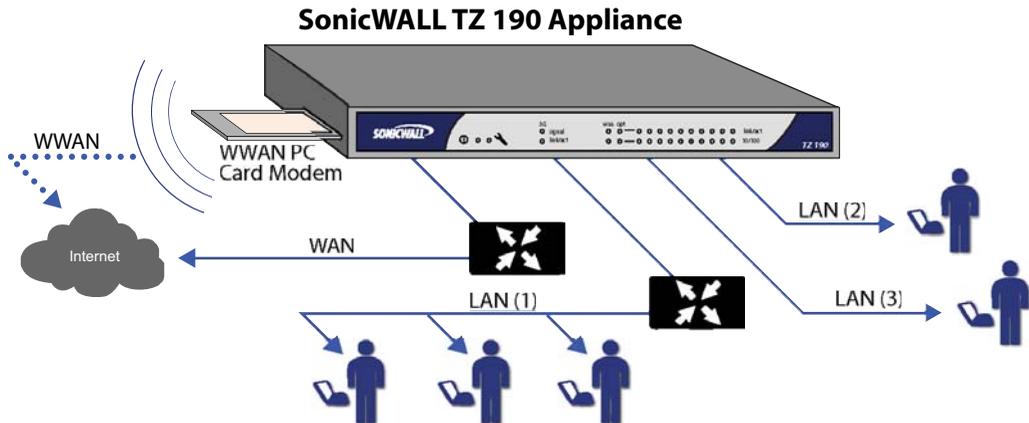
## Check Internet Connectivity

The final step to confirm your Internet connectivity is to launch a website, such as <www.sonicwall.com> in a browser, using a computer that is connected to the SonicWALL TZ 190 Wireless appliance and using the SonicWALL as its sole Internet connection.

If the website displays, your SonicWALL TZ 190 Wireless is operational and connected to a valid WWAN service provider account.

## 7

## Connecting the SonicWALL TZ 190 Wireless to Your Network



Your SonicWALL TZ 190 Wireless is equipped with a DHCP server feature. If you enabled this feature in the Setup Wizard, your DHCP-enabled network clients will automatically be provisioned by the SonicWALL. No further setup is needed for these clients.

**Note:** If you are not using DHCP, refer to the [SonicOS Enhanced Administrator's Guide](#) for instructions on setting up your network.

**Congratulations!** You have successfully completed set up of your SonicWALL TZ 190 Wireless appliance. For more detailed information on your SonicWALL TZ 190 Wireless feature set, refer to the latest version of the [SonicOS Enhanced Administrator's Guide](#).

---

## Configuring a Static IP Address

Complete the following section based on your operating system in order to configure your management computer with a static IP address:

### Windows XP

1. From the **Start** menu, highlight **Connect To** and then select **Show All Connections**.
2. Open the **Local Area Connection Properties** window.
3. Double-click **Internet Protocol (TCP/IP)** to open the **Internet Protocol (TCP/IP) Properties** window.
4. Select **Use the following IP address** and type **192.168.168.50** in the **IP address** field.
5. Type **255.255.255.0** in the **Subnet Mask** field.
6. Click **OK** for the settings to take effect.

### Windows 2000

1. From your Windows **Start** menu, select **Settings**.
2. Open **Network and Dial-up Connections**.
3. Click **Properties**.
4. Highlight **Internet Protocol (TCP/IP)** and click **Properties**.
5. Select **Use the following IP address** and type **192.168.168.50** in the **IP address** field.
6. Type **255.255.255.0** in the **Subnet Mask** field.
7. Click **OK** for the settings to take effect.

### Windows NT

1. From the **Start** menu, highlight **Settings** and then select **Control Panel**.
2. Open **Network**.
3. Double-click **TCP/IP** in the **TCP/IP Properties** window.
4. Select **Specify an IP Address** and type **192.168.168.50** in the **IP address** field.
5. Type **255.255.255.0** in the **Subnet Mask** field.
6. Click **OK**, and then click **OK** again.
7. Restart the computer for the changes to take effect.

## Safety Instructions and Regulatory Information

Regulatory Model/Type	Product Name
APL18-046	TZ 190 Wireless

### Mounting the SonicWALL

Mount in a location away from direct sunlight and sources of heat. A maximum ambient temperature of 104° F (40° C) is recommended.

Route cables away from power lines, fluorescent lighting fixtures, and sources of noise such as radios, transmitters, and broadband amplifiers

The included power cord is intended for use in North America only. For European Union (EU) customers, a power cord is not included.

Ensure that no water or excessive moisture can enter the unit.

Allow unrestricted airflow around the unit and through the vents on the side of the unit. A minimum of 1 inch (25.44mm) clearance is recommended.

Consideration must be given to the connection of the equipment to the supply circuit and the effect of overloading the circuits has minimal impact on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings must be used when addressing this concern.

### Lithium Battery Warning

The Lithium Battery used in the SonicWALL security appliance may not be replaced by the user. Return the SonicWALL security appliance to a SonicWALL-authorized service center for replacement with the same or equivalent type recommended by the manufacturer. If, for any reason, the battery or SonicWALL security appliance must be disposed of, do so following the battery manufacturer's instructions.

### Cable Connections

All Ethernet and RS232 (Console) cables are designed for intra-building connection to other equipment. Do not connect these ports directly to communication wiring or other wiring that exits the building where the SonicWALL is located.

### Power Supply Information

If the power supply is missing from your SonicWALL product package, please contact SonicWALL Technical Support at 408-752-7819 for a replacement. This product should only be used with a UL listed power supply marked "Class 2" or "LPS", with an output rated 12 VDC, minimum 1.66 A.

## Weitere Hinweise zur Montage

Wählen Sie für die Montage einen Ort, der keinem direkten Sonnenlicht ausgesetzt ist und sich nicht in der Nähe von Wärmequellen befindet. Die Umgebungstemperatur darf nicht mehr als 40 °C betragen.

Führen Sie die Kabel nicht entlang von Stromleitungen, Leuchtstoffröhren und Störquellen wie Funksendern oder Breitbandverstärkern.

Das eingeschlossene Netzkabel ist für Gebrauch in Nordamerika nur vorgehabt. Für Europäische Union (EU) Kunden, ist ein Netzkabel nicht eingeschlossen.

Stellen Sie sicher, dass das Gerät vor Wasser und hoher Luftfeuchtigkeit geschützt ist.

Stellen Sie sicher, dass die Luft um das Gerät herum zirkulieren kann und die Lüftungsschlitze an der Seite des Gehäuses frei sind. Hier ist ein Belüftungsabstand von mindestens 26 mm einzuhalten.

Vergewissern Sie sich, dass das Gerät sicher im Rack befestigt ist. Insbesondere muss auf nicht direkte Anschlüsse an Stromquellen geachtet werden wie z. B. bei Verwendung von Mehrfachsteckdosen.

## Hinweis zur Lithiumbatterie

Die in der Internet Security Appliance von SonicWALL verwendete Lithiumbatterie darf nicht vom Benutzer ausgetauscht werden. Zum Austauschen der Batterie muss die SonicWALL in ein von SonicWALL autorisiertes Service-Center gebracht werden. Dort wird die Batterie durch denselben oder entsprechenden, vom Hersteller empfohlenen Batterietyp ersetzt. Beachten Sie bei einer Entsorgung der Batterie oder der SonicWALL Internet Security Appliance die diesbezüglichen Anweisungen des Herstellers.

## Kabelverbindungen

Alle Ethernet- und RS232-C-Kabel eignen sich für die Verbindung von Geräten in Innenräumen. Schließen Sie an die Anschlüsse der SonicWALL keine Kabel an, die aus dem Gebäude herausgeführt werden, in dem sich das Gerät befindet.

## Informationen zur Stromversorgung

Sollte das Netzteil nicht im Lieferumfang der SonicWALL enthalten sein, wenden Sie sich diesbezüglich an den technischen Support von SonicWALL (Tel.: +1-408-752-7819). Dieses Produkt darf nur in Verbindung mit einem nach den Normen der Underwriter Laboratories, USA als „UL-gelistet“ zugelassenen Netzteil der Kategorie „Class 2“ oder „LPS“ verwendet werden. Ausgang: 12 VDC Gleichspannung, mind. 1,66 A.

## **FCC Part 15 Class B Notice**

**NOTE:** This equipment was tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. And, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from the receiver connection.
- Consult SonicWALL for assistance.

Complies with EN55022 Class B and CISPR22 Class B.

\*Refer to the label on the bottom of the unit for device information including Class A or Class B FCC information.

### **North American Authorized Channels**

SonicWALL declares that the APL18-046 (FCC ID: QWU-046)(IC: 4408A-046) when sold in US or Canada is limited to CH1~CH11 by specified firmware controlled in the USA.

### **FCC RF Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters (7.9 inches) between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For more information regarding the above statement, please contact SonicWALL, Inc. at: 1143 Borregas Avenue, Sunnyvale, CA 94089-1306, 1-408-745-9600.

### **Canadian Radio Frequency Emissions Statement**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à toutes la norme NMB-003 du Canada.

# CANADA STATEMENT

Operation is subject to the following two conditions:

- (1) this device may not cause interference and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding.

**Note:**

This device has been designed to operate with an antenna having a maximum gain of 5 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The require antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

## VCCI Statement

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをしてください。

## Regulatory Information for Korea



Ministry of Information and Telecommunication  
Certification Number

All products with country code "" (blank) and "A" are made in the USA.

All products with country code "B" are made in China.

All products with country code "C" or "D" are made in Taiwan R.O.C.

### B급 기기 (가정용 정보통신기기)

이 기기는 가정용으로 전자파적합등록을 한 기기로서  
주거지역에서는 물론 모든지역에서 사용할 수 있습니다.

WLAN / RLAN  
2.4 GHz

Indoor Only	Binnen slechts
D'intérieur Seulement	Innen Nur
Dell'interno Soltanto	Indoor Somen te
De interior Solamente	

This equipment may be operated in:

Betrieb dieser Ausrüstung wird innen erlaubt:

L'opération de cet équipement est permise dans:

AT	BE	CY	CZ	DK
EE	FI	FR	DE	HU
IE	IT	LT	LU	NL
NO	PL	PT	SK	ES
CH	GB			

Country and channel selection is made in software. Follow user documentation to make country and channel setting.

Land und Kanalauswahl sind in Software gemacht. Folgen Sie Verbraucherdokumentation, um Land und Kanal zu machen, setzend.

La sélection de pays et canal est faite dans le logiciel. Suivez la documentation d'utilisateur pour faire le pays et la canal sélection.

## Declaration of Conformity

Certificate #: EU00151-A

Application of council Directive: 89/336/EEC (EMC)  
73/23/EEC (LVD),  
99/5/EC (R&TTE)

Standard(s) to which conformity is declared: EN55022 (1998) Class B  
EN 55024 (1998) A1 (2001)  
EN 61000-3-2 (2000)  
EN 61000-3-3 (1995) A1 (2001)  
EN 60950 (2001) +A11  
National Deviations: AT, AU, BE, CH, CN,  
CZ, DE, DK, FI, FR, GB, GR, HU, IE, IL, IN,  
IT, JP, KR, NL, NO, PL, SE, SG, SI  
EN 300 328-1/-2 (1.6.1)  
EN 301 489-1 (V1.6.1)  
EN 301 489-17 (V1.2.1)

Manufacturer/Responsible Party: SonicWALL  
1143 Borregas Avenue,  
Sunnyvale, CA 94089 USA

Type of Equipment:

Type Numbers: APL18-046  
May be Marketed as: TZ 190 WIRELESS, TZ 190 W

*I, the undersigned hereby declare that the equipment specified above conforms to the above Directives and Standards. Quality control procedures will ensure series production of equipment will be compliant.*

/s/ John Gmuender  
VP. Engineering

12/18/06



Sonicwall tímto prohlašuje, že tento APL18-046 je ve shodě se základními požadavky dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Undertegnede Sonicwall erklærer herved, at følgende udstyr APL18-046 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Hiermit erkläre Sonicwall, dass sich das Gerät APL18-046 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Hereby, Sonicwall, declares that this APL18-046 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Por medio de la presente Sonicwall declara que el APL18-046 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Par la présente Sonicwall déclare que l'appareil APL18-046 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Con la presente Sonicwall dichiara che questo APL18-046 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Šiuo Sonicwall deklaruoja, kad šis APL18-046 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Hierbij verklaart Sonicwall dat het toestel APL18-046 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Sonicwall declara que este APL18-046 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Sonicwall tímto vyhlasuje, že APL18-046 spĺa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Sonicwall vakuuttaa täten että APL18-046 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Sonicwall erklærer herved at utstyret APL18-046 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

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