



## Network Security Solutions

NETWORK SECURITY

**SonicWALL Secure Anti-Virus Router Series**

# Secure Anti-Virus Router 80 Getting Started Guide



# SonicWALL Secure Anti-Virus Router 80 Wireless Getting Started Guide

Thank you for your purchase of the SonicWALL Secure Anti-Virus Router 80 Wireless, the ultimate security platform for home and small office deployments.

With integrated support for SonicWALL's Gateway Anti-Virus, the SonicWALL Secure Anti-Virus Router 80 Wireless delivers powerful, yet easy-to-use protection against hackers and viruses. The SonicWALL Secure Anti-Virus Router 80 Wireless also provides support for SonicWALL's Content Filtering Service to provide enhanced productivity and network utilization.

This Getting Started Guide contains installation procedures and configuration guidelines for deploying a SonicWALL Secure Anti-Virus Router 80 Wireless on your network. For detailed configuration information, refer to the [SonicOS Standard Administrator's Guide](#) on the SonicWALL Resource CD or on the Web at: <http://www.sonicwall.com/us/support.html>.



# Regulatory Approvals

## FCC Statement

This equipment has been 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 this 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 to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

## FCC 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 between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

## Channel

The Wireless Channel sets the radio frequency used for communication.

- Access Points use a fixed Channel. You can select the Channel used. This allows you to choose a Channel which provides the least interference and best performance. In the USA and Canada, 11 channels are available. If using multiple Access Points, it is better if adjacent Access Points use different Channels to reduce interference.
- In "Infrastructure" mode, Wireless Stations normally scan all Channels, looking for an Access Point. If more than one Access Point can be used, the one with the strongest signal is used. (This can only happen within an ESS.)
- If using "Ad-hoc" mode (no Access Point), all Wireless stations should be set to use the same Channel. However, most Wireless stations will still scan all Channels to see if there is an existing "Ad-hoc" group they can join.

Note: This equipment marketed in USA is restricted by firmware to only operate on 2.4G channel 1-11

# 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.

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# Document Contents

This document contains the following sections:

- 1 *Completing Pre-Configuration Tasks* - page 3
- 2 *Registering Your SonicWALL* - page 9
- 3 *Connecting for Initial Setup* - page 11
- 4 *Running the Setup Wizard* - page 17
- 5 *Connecting to Your Network* - page 23

## Appendix

*Appendix A: Configuring DHCP IP Addressing* - page 27

*Appendix B: Safety Instructions and Regulatory Information* - page 28

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# Completing Pre-Configuration Tasks



1

## In this Section

This section provides pre-configuration information. It is necessary to review this section before setting up your SonicWALL Secure Anti-Virus Router 80 Wireless.

- *System Requirements* section, on page 4
- *Check Package Contents* section, on page 5
- *Record Internet Service Provider (ISP) Information* section, on page 7

## System Requirements

Before you begin the setup process, check to ensure that you have a computer that meets the following requirements. This computer is used to manage your SonicWALL Secure Anti-Virus Router 80 Wireless during the setup process and is referred to as the *management station* throughout this guide.

- Windows XP, Windows 2000, or Windows NT
- 40MB of disk space available
- One available 10/100 Ethernet (LAN) port
- 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
- LAN interface set to obtain an IP address automatically (DHCP addressing enabled).



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**Note:** *In order to connect to the SonicWALL Secure Anti-Virus Router 80 Wireless, your management station must be set to obtain an IP address automatically using DHCP. For more information on configuring DHCP on your management station, turn to Appendix A: Configuring DHCP IP Addressing section, on page 27.*

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## Check Package Contents

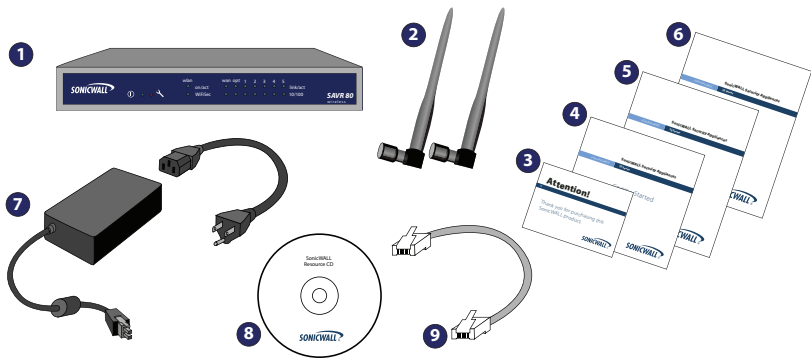
- 1 SonicWALL "SAVR 80" Wireless
- 2 Wireless Antennas Pair
- 3 Thank you card
- 4 Getting Started Guide
- 5 Release Notes Document
- 6 SonicWALL Recommends Guide
- 7 Standard power adapter
- 8 SonicWALL Resource CD
- 9 Ethernet Cable

### 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>>

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





## Record Configuration Information

Please record the following setup information and keep it for future reference:

### Registration Information

<b>Serial Number:</b> _____	Record the serial number found on the bottom panel of your SonicWALL appliance.
<b>Authentication Code:</b> _____	Record the authentication code found on the bottom panel of your SonicWALL appliance.

### Networking Information

<b>LAN IP Address:</b> _____._____._____._____	Select a static IP address for your SonicWALL appliance that is within the range of your local subnet. If you are unsure, you can use the default IP address (192.168.168.168).
<b>Subnet Mask:</b> _____._____._____._____	Record the subnet mask for the local subnet where you are installing your SonicWALL appliance.
<b>Ethernet WAN IP Address:</b> _____._____._____._____	Select a static IP address for your Ethernet WAN. <i>This setting only applies if you are already using an ISP that assigns a static IP address.</i>

### Administrator Information

<b>Admin Name:</b> _____	Select an administrator account name. (default is <i>admin</i> ).
<b>Admin Password:</b> _____	Select an administrator password. (default is <i>password</i> ).

## Record Internet Service Provider (ISP) Information

Record the following information about your current Internet service:

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



## In this Section

This section provides instructions for registering your SonicWALL Secure Anti-Virus Router 80 Wireless.

- *Registering with MySonicWALL.com* section, on page 10



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**Note:** Product registration is an important part of the setup process, allowing you to enable product support, firmware updates and other key features.

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## Registering with MySonicWALL.com

1. If you do not yet have a mysonicwall.com account, point your web-browser to <http://www.mysonicwall.com/> to register before continuing.
2. Locate and record your SonicWALL Secure Anti-Virus Router 80 Wireless Software **Serial Number** and **Authentication Code**. This information is printed on the bottom panel of the appliance.

My Serial Number	
My Authentication Code	

3. In your Web browser, go to <https://www.mysonicwall.com> and login with your mysonicwall.com username and password.
4. Enter your serial number in the **Quick Register** field and click the small gray arrow. Follow the on-screen instructions.

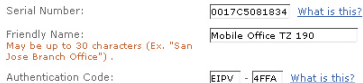


Quick Register

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

0017C5081834 

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



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

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

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

8. Click the **Register** button to continue.
9. Follow the online prompts to complete the registration process.

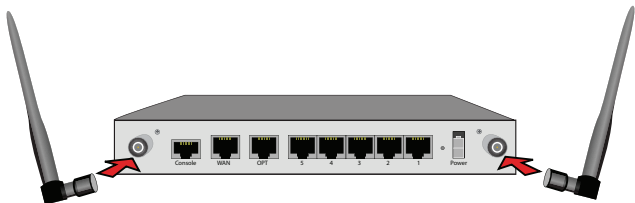
### In this Section

This section provides initial configuration instructions for connecting your SonicWALL Secure Anti-Virus Router 80 Wireless.

- *Connect Antennas* section, on page 12
- *Apply Power* section, on page 12
- *Connect WAN Port to the Internet* section, on page 14
- *Connect the Management Station to the LAN (1) Port* section, on page 14
- *Verify WAN / LAN / WLAN Connection* section, on page 15

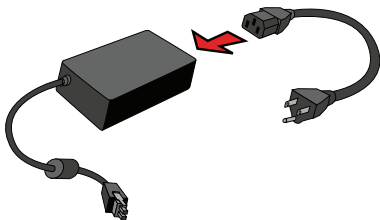
## Connect Antennas

1. Attach each of the (2) included antennas to an antenna port on the back of the SonicWALL Secure Anti-Virus Router 80 Wireless.
2. Screw the end of the antenna clockwise to tighten.
3. Adjust the antennas to meet your space / signal requirements.



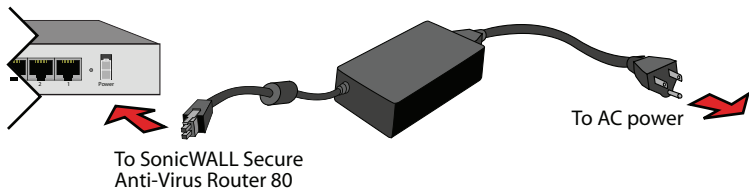
## Apply Power



1. Connect the AC plug to the power supply.



2. Plug one end of the power supply to the back of the SonicWALL Secure Anti-Virus Router 80 Wireless.

3. Connect the AC plug to an appropriate power outlet.



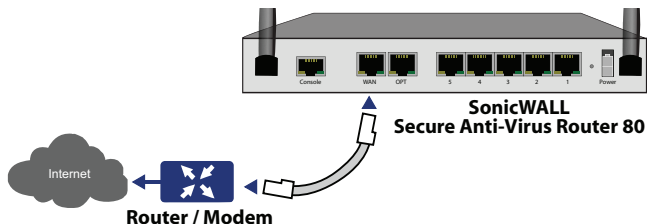
The Power  LED on the front panel lights up green when you power the SonicWALL Secure Anti-Virus Router 80 Wireless. The Test  LED lights up and blinks while the appliance performs a series of diagnostic tests.

When the Test LED is no longer lit, the SonicWALL Secure Anti-Virus Router 80 Wireless is ready for configuration. If the Test LED stays lit for more than a few minutes, cycle power to the appliance.



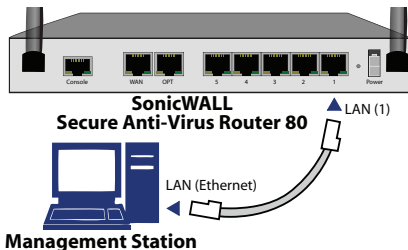
## Connect WAN Port to the Internet

Using a standard network cable, connect the **WAN** port of the SonicWALL Secure Anti-Virus Router 80 Wireless to your gateway device (usually your Internet router /modem).




## Connect the Management Station to the LAN (1) Port

Using the supplied network cable and the management station, connect the **LAN (Ethernet)** port on the management station to the **LAN (1)** port on the back of your SonicWALL Secure Anti-Virus Router 80 Wireless.



## Verify WAN / LAN / WLAN Connection

Once the cables are correctly connected, the **WAN**, **LAN (1)** and **WLAN** lights on the front panel of your SonicWALL Secure Anti-Virus Router 80 Wireless illuminate as illustrated below:

	<p><b>Link/ACT (WAN / 1)</b> - Indicates a network connection is present between the SonicWALL Secure Anti-Virus Router 80 Wireless and another network appliance.</p> <p><b>10/100 (WAN / 1)</b> - A green light indicates a 10mbps port connection. An amber light indicates a 100mbps port connection.</p> <p><b>WLAN (on/act)</b> - A solid light indicates the wireless transmitter is powered on. A blinking light indicates wireless activity.</p>
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**Note:** *In order to connect to the SonicWALL Secure Anti-Virus Router 80 Wireless, your management station must be set to accept dynamic "DHCP" addressing. For more information on configuring DHCP, turn to Appendix A: Configuring DHCP IP Addressing section, on page 27.*

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## In this Section

This section provides instructions to log in and configure your SonicWALL Secure Anti-Virus Router 80 Wireless using the SonicWALL Setup Wizard.

- *Log into the Web Management Interface* section, on page 18
- *SonicWALL Setup Wizard* section, on page 20
- *Verify Management Interface Connectivity* section, on page 21
- *Verify WAN (Internet) Connectivity* section, on page 22



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**Tip:** *Before completing this section, fill out the information in Record Configuration Information section, on page 6 and Record Internet Service Provider (ISP) Information section, on page 7. You will need to enter this information during the **Setup Wizard**.*



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## Log into the Web Management Interface

Your SonicWALL Secure Anti-Virus Router 80 Wireless employs the use of a Web-based management interface for setup and configuration. Complete the following steps to log into the management interface.

1. In a Web browser on the management station, navigate to **http://192.168.168.168** (the default IP address of the SonicWALL Secure Anti-Virus Router 80 Wireless).

The SonicWALL Web management login screen displays:



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**Note:** Depending on your browser settings, **one or more** security warnings may display while connecting to the Anti-Virus Router 80 Web management interface. Choose to accept the certificates in order to log into the appliance.

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2. Log into the SonicWALL Secure Anti-Virus Router 80 Wireless using “**admin**” as the user name and “**password**” as the password. The configuration Wizard screen displays.

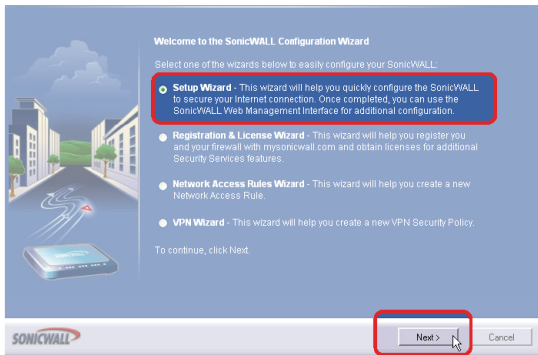
*If you are having trouble getting the Login screen or Wizard to appear, see page 19 for additional troubleshooting information.*

## Unable to See the Setup Wizard?

- **If you see the login screen, but not the Configuration Wizard:**
  - Configure your Internet browser to allow popups for the SonicWALL Secure Anti-Virus Router 80 Wireless.
  - 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 Secure Anti-Virus Router 80 Wireless management IP address, *192.168.168.168*, in your Web browser?
  - Is your management station set to accept DHCP addressing or set to a static IP address within the *192.168.168.x* subnet range? If not, see *Appendix A: Configuring DHCP IP Addressing* section, on page 27 for instructions on changing your Local Area Connection settings.
  - Do you have the Ethernet cable connected between your computer and the LAN (1) port on your SonicWALL Secure Anti-Virus Router 80 Wireless?
  - Do you need to add the SonicWALL Secure Anti-Virus Router 80 Wireless to your list of trusted sites? Use the default IP address (*192.168.168.168*) for this purpose.
  - Is the Test  LED on the front panel of your SonicWALL Secure Anti-Virus Router 80 Wireless lit? If the Test LED stays lit for more than a few minutes after the initial power on sequence, cycle power to the SonicWALL Secure Anti-Virus Router 80 Wireless.


# SonicWALL Setup Wizard

1. If the **Setup Wizard** does not display upon initial log into the SonicWALL Secure Anti-Virus Router 80 Wireless 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.

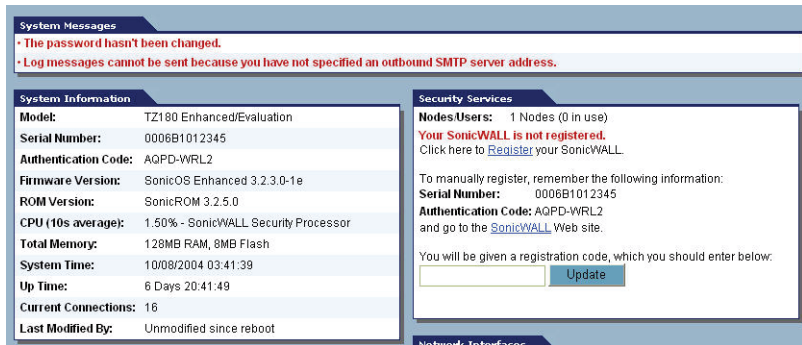


3. Follow the on-screen prompts to complete the Setup Wizard. Refer to the information you recorded in *Record Configuration Information* section, on page 6 and *Record Internet Service Provider (ISP) Information* section, on page 7 to complete this section.
4. Depending on the changes made during your setup configuration, the SonicWALL may restart.

## Verify Management Interface Connectivity

1. If your SonicWALL did not require a restart, skip to the *Verify WAN (Internet) Connectivity* section, on page 22. Otherwise, continue with step 2.
2. Wait for the SonicWALL Secure Anti-Virus Router 80 Wireless to reboot. When the Test  LED is no longer lit, the SonicWALL Secure Anti-Virus Router 80 Wireless is ready for login.
3. If the login page does not display after reboot, open a web browser on the management station and manually navigate to the LAN IP address of your SonicWALL Secure Anti-Virus Router 80 Wireless.
4. Using your new **username** and **password**, log into the appliance.

If the **System > Status** page (shown below) displays, you have correctly configured the SonicWALL Secure Anti-Virus Router 80 Wireless to work with the management station on your LAN. Complete the next section to verify WAN (Internet) connectivity.



**System Messages**

- The password hasn't been changed.
- Log messages cannot be sent because you have not specified an outbound SMTP server address.

**System Information**

<b>Model:</b>	TZ180 Enhanced/Evaluation
<b>Serial Number:</b>	0006B1012345
<b>Authentication Code:</b>	AQPD-WRL2
<b>Firmware Version:</b>	SonicOS Enhanced 3.2.3.0-1e
<b>ROM Version:</b>	SonicROM 3.2.5.0
<b>CPU (10s average):</b>	1.50% - SonicWALL Security Processor
<b>Total Memory:</b>	128MB RAM, 8MB Flash
<b>System Time:</b>	10/08/2004 03:41:39
<b>Up Time:</b>	6 Days 20:41:49
<b>Current Connections:</b>	16
<b>Last Modified By:</b>	Unmodified since reboot

**Security Services**

**Nodes/Users:** 1 Nodes (0 in use)  
**Your SonicWALL is not registered.**  
Click here to [Register](#) your SonicWALL.

To manually register, remember the following information:  
**Serial Number:** 0006B1012345  
**Authentication Code:** AQPD-WRL2  
and go to the [SonicWALL](#) Web site.

You will be given a registration code, which you should enter below:

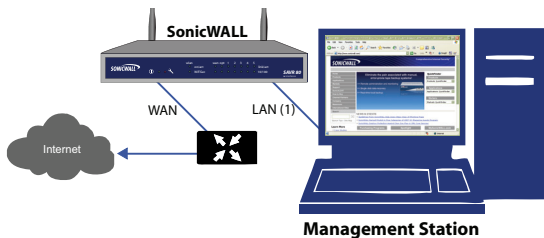


## Verify WAN (Internet) Connectivity

Complete the following steps to confirm your Internet connectivity.

1. Using your management station, launch a new Web browser.
2. Navigate to an Internet website such as <http://www.sonicwall.com>.

If the website displays, your SonicWALL Secure Anti-Virus Router 80 Wireless is configured correctly as your gateway device.



## Having Trouble Connecting to the Internet?

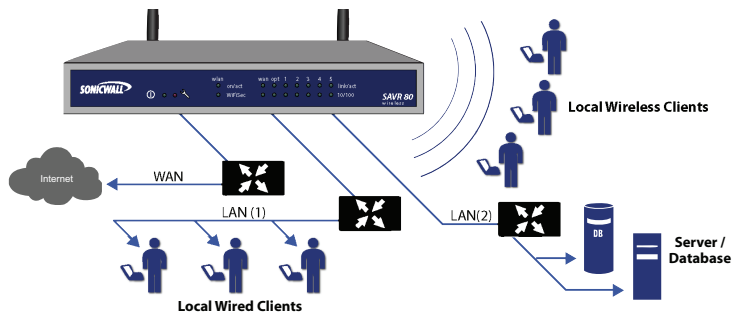
- Did you open a new browser window to launch the website? Try closing out all browser windows and launching the browser again.
- Is your SonicWALL WAN port connected to your Internet source and showing (link/act, 10/100) activity?
- Double-check the network settings you recorded in the *Record Configuration Information* section, on page 6.
- Did you enter your network information correctly in the Setup Wizard? If you are unsure, turn to the *SonicWALL Setup Wizard* section, on page 20 to run Setup Wizard again.

### In this Section

This section provides SonicWALL Secure Anti-Virus Router 80 Wireless basic network connectivity verification and examples.

- *Connect and Configure Your Network* section, on page 24
- *The Front Panel* section, on page 25
- *The Back Panel* section, on page 26

## Connect and Configure Your Network

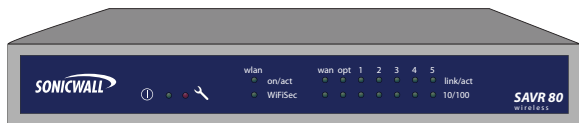


Your SonicWALL Secure Anti-Virus Router 80 Wireless is equipped with a DHCP server. If you enabled this feature in the Setup Wizard, your DHCP-enabled network clients are automatically provisioned by the SonicWALL. Setting up your network is as simple as:

1. Setting your clients to obtain their IP address automatically.
2. Connecting your clients (directly or using a hub/switch) to the LAN ports (1-5) on your SonicWALL Secure Anti-Virus Router 80 Wireless.
3. Reading the *SonicOS Standard Administrator's Guide* to configure the features and security services of your SonicWALL Secure Anti-Virus Router 80 Wireless.

**Congratulations!** You have successfully completed set up of your SonicWALL Secure Anti-Virus Router 80 Wireless. For more detailed information on your SonicWALL Secure Anti-Virus Router 80 Wireless feature set, refer to the latest version of the *SonicOS Standard Administrator's Guide*.

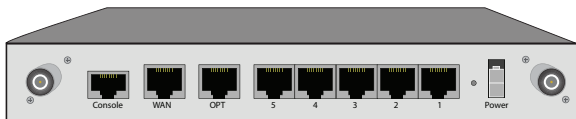
# The Front Panel



Feature	Description
<b>Power LED</b>	Indicates the SonicWALL Secure Anti-Virus Router 80 Wireless is powered on.
<b>Test LED</b>	<b>Solid:</b> Indicates that the SonicWALL Secure Anti-Virus Router 80 Wireless 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>WLAN</b>	<b>(on/act)</b> Solid indicates the wireless radio is powered on, blinking indicates wireless activity. <b>(WiFiSec)</b> Indicates WiFiSec wireless security is operational.
<b>OPT</b>	Indicates a device link, activity and connection speed on your OPT port.*
<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 (1-5)</b>	Indicates a device link, activity and connection speed on individual LAN ports (numbered 1-5).
<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).

\*This feature requires an upgrade to SonicOS Enhanced.

# The Back Panel



Feature	Description
<b>Antenna Connections</b>	Provide (2) connection points for the included wireless antennas.
<b>Console Port</b>	Provides a console connection to the SonicWALL. This feature is not supported on the SonicWALL Secure Anti-Virus Router 80 Wireless.
<b>WAN Port</b>	Provides a connection between your SonicWALL Secure Anti-Virus Router 80 Wireless and the Internet, usually connecting through a modem or router.
<b>OPT Port</b>	Provides a secondary, optional connection between your SonicWALL Secure Anti-Virus Router 80 and the Internet.*
<b>LAN Ports (1-5)</b>	Provides 5 fully-configurable ports for connection between your SonicWALL Secure Anti-Virus Router 80 Wireless and the devices on your network. These ports can be connected directly to a computer, or to a network switch or hub.
<b>Reset Button</b>	Provides the capability to restart your SonicWALL Secure Anti-Virus Router 80 Wireless and boot to a special diagnostic "safe-mode".
<b>Power</b>	Provides a power connection using the supplied AC adaptor.

*\*This feature requires an upgrade to SonicOS Enhanced.*

## Appendix A: Configuring DHCP IP Addressing

Complete the following section based on your operating system in order to configure your management computer to obtain an IP address automatically (using DHCP addressing):

### 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 **Obtain an IP address automatically**.
5. 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 **Obtain and IP address automatically**.
6. 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 **Obtain an IP address automatically**.
5. Click **OK**, and then click **OK** again.
6. Restart the computer for the changes to take effect.

## Appendix B: Safety Instructions and Regulatory Information

Regulatory Model/Type	Product Name
APL17-049	Secure Anti-Virus Router 80 Wireless (SAVR 80 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 Nordamerikas 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 APL17-049 (FCC ID: QWU-049) (IC: 4408A-049) 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.

## 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下さい。

## 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 모든 지역에서 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 selection.

C E 0560

Sonicwall tímto prohlašuje, že tento APL17-049 je ve shodě se základními požadavky dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Undertegnede Sonicwall erklærer herved, at følgende udstyr APL17-049 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Hiertil erklært Sonicwall, dass sich das Gerät APL17-049 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Hereby, Sonicwall, declares that this APL17-049 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 APL17-049 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 APL17-049 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Con la presente Sonicwall dichiara che questo APL17-049 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Šiuo Sonicwall deklaruoja, kad šis APL17-049 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktivytos nuostatas.

Hierbij verklaart Sonicwall dat het toestel APL17-049 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Sonicwall declara que este APL17-049 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Sonicwall tímto vyhlasuje, že APL17-049 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Sonicwall vakuuttaa täten että APL17-049 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Sonicwall erklærer herved at udstyret APL17-049 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

## Declaration of Conformity

Certificate #: EU00150-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 500 328-1/-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,  
San Jose, CA 94089 USA

Type of Equipment:

Type Numbers: APL17-049  
May be Marketed as: TZ 180 WIRELESS, TZ 180 W  
SAVR 80 WIRELESS, SAVR 80 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.

Signature:  Date: 12/18/06

John Griesender  
V.P. Engineering

# Copyright Notice

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# Notes

## Notes

# Notes



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