

Intrusion Detection

The screenshot shows the SMC Networks Advanced Setup web interface. The left sidebar contains a navigation menu with categories: System, WAN, LAN, Wireless, NAT, Firewall (selected), Access Control, MAC Filter, URL Blocking, Schedule Rule, DMZ, DDNS, UPnP, Tools, and Status. The main content area is titled "Intrusion Detection" and includes a descriptive paragraph: "When the SPI (Stateful Packet Inspection) firewall feature is enabled, all packets can be blocked. Stateful Packet Inspection (SPI) allows full support of different application types that are using dynamic port numbers." Below this are two configuration sections: "FIREWALL CONFIGURATION" and "E-MAIL ALERT CONFIGURATION".

FIREWALL CONFIGURATION

SPI and Anti-DoS firewall protection :	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
Discard Ping From WAN :	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable

E-MAIL ALERT CONFIGURATION

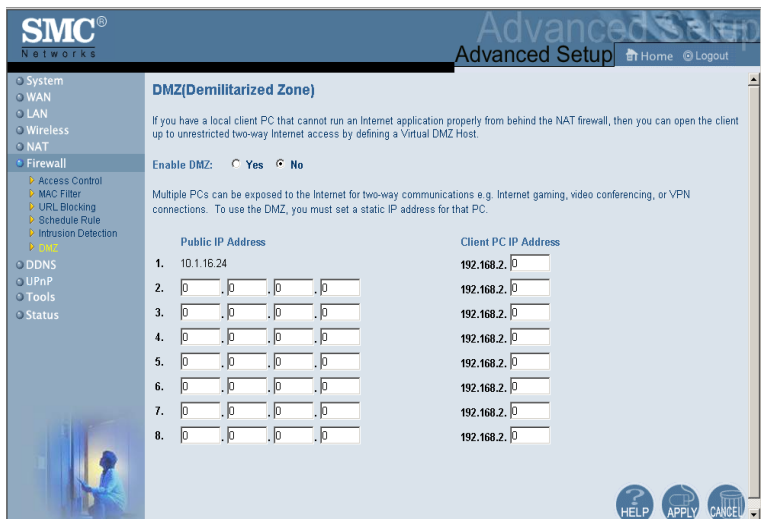
Your E-mail Address :	<input type="text"/>
SMTP Server Address :	<input type="text"/>
User name :	<input type="text"/>
Password :	<input type="text"/>

At the bottom right of the interface are three buttons: HELP, APPLY, and CANCEL.

- **SPI and Anti-DoS (Denial-of-Service) firewall protection (Default: Disabled)** – The Intrusion Detection Feature limits access for incoming traffic at the WAN port. When the SPI (Stateful Packet Inspection) feature is turned on, all incoming packets will be blocked except for those types marked with a check in the Stateful Packet Inspection section.
- **Discard Ping from WAN (Default: Disabled)** – Prevents the router from responding to any PING request on the WAN port.
- **E-mail Alert Configuration** – Enter your E-mail address. Specify your SMTP and POP3 servers, user name, and password.

Configuring the Wireless Barricade g Router

DMZ (Demilitarized Zone)



If you have a client PC that cannot run an Internet application properly from behind the firewall, then you can open the client up to unrestricted two-way Internet access. Enter the IP address of a DMZ host to this screen. Adding a client to the DMZ may expose your local network to a variety of security risks, so only use this option as a last resort.

DDNS (Dynamic DNS) Settings

SMC[®] NETWORKS Advanced Setup [Home](#) [Logout](#)

- System
- WAN
- LAN
- Wireless
- NAT
- Firewall
- DDNS**
- UPnP
- Tools
- Status

DDNS (Dynamic DNS) Settings

Dynamic DNS provides users on the Internet a method to tie their domain name(s) to computers or servers. DDNS allows your domain name to follow your IP address automatically by having your DNS records changed when your IP address changes.

This DNS feature is powered by TZO.com. With a DDNS connection you can host your own web site, email server, FTP site and more at your own location even if you have a dynamic IP address. To sign-up for a free 30-day trial click [here](#)

Dynamic DNS: Enabled Disabled

TZO Configuration

Domain Name:

E-mail:

Key: [Get free 30-day trial key!](#)

Control Panel: [Click here to login to your TZO control panel](#)

Server Configuration

Server IP: 192.168.1.

Server Type:

Web Server: (HTTP) Port 80 <input type="checkbox"/>	Port 8000 <input type="checkbox"/>
FTP Server: Port 20 <input type="checkbox"/>	Port 21 <input type="checkbox"/>
Email Server: (POP3) Port 110 <input type="checkbox"/>	(SMTP) Port 25 <input type="checkbox"/>

Domain Name – A series of alphanumeric strings separated by periods that maps to the address of a the Router network connection and identifies the owner of the address.

Dynamic DNS provides users on the Internet with a method to tie their domain name to the router or server. DDNS allows your domain name to follow your IP address automatically by having your DNS records changed when your IP address changes.

The section also has a “Server Configuration” section that automatically opens the port options checked in the Virtual Server section. Simply enter in the IP Address of your server, such as a web server, and then click on the port option “HTTP Port 80” so users can access your server from the WAN connection (Internet).

Configuring the Wireless Barricade g Router

This DNS feature is powered by TZO.com. With a DDNS connection you can host your own web site, E-mail server, FTP site, and more at your own location even if you have a dynamic IP address. (Default: Disable)

UPnP (Universal Plug and Play) Setting



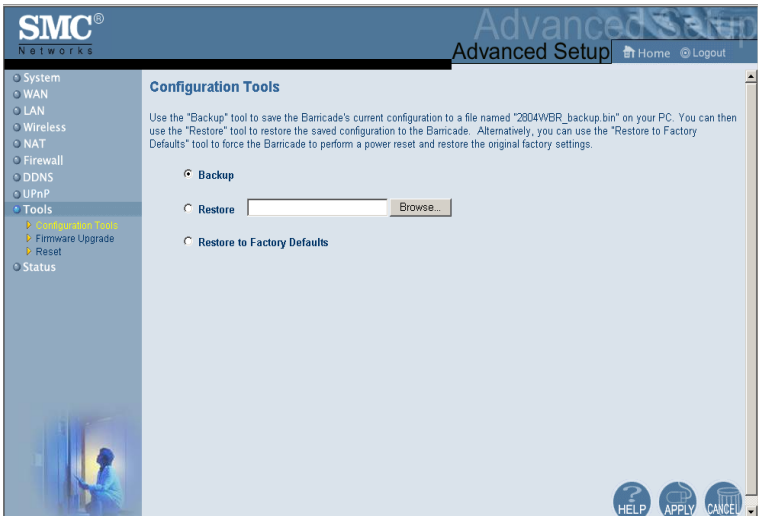
Enable UPnP by checking ON in the screen above. UPnP allows the device to automatically:

- dynamically join a network
- obtain an IP address
- convey its capabilities and learn about the presence and capabilities of other devices.

Tools

Use the Tools menu to back up the current configuration, restore a previously saved configuration, restore factory settings, update firmware, and reset the Router.

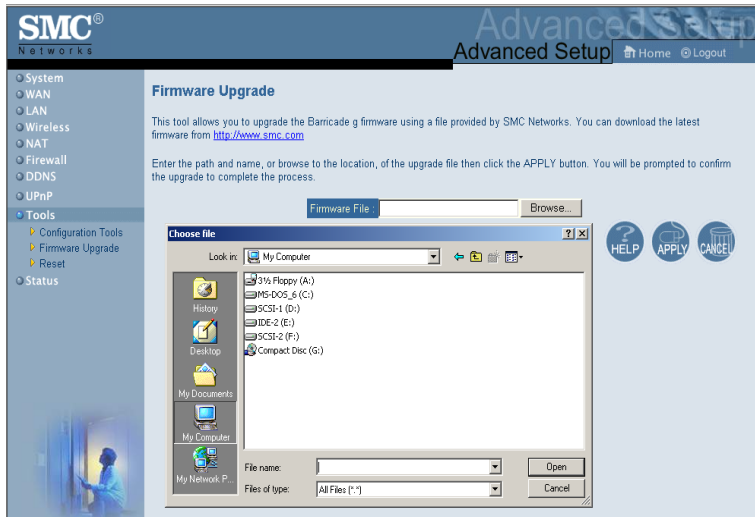
Tools - Configuration Tools



- Backup – Saves the Router's configuration to a file.
- Restore – Restores settings from a saved backup configuration file.
- Restore to factory defaults – Restores the Router settings back to the factory defaults.

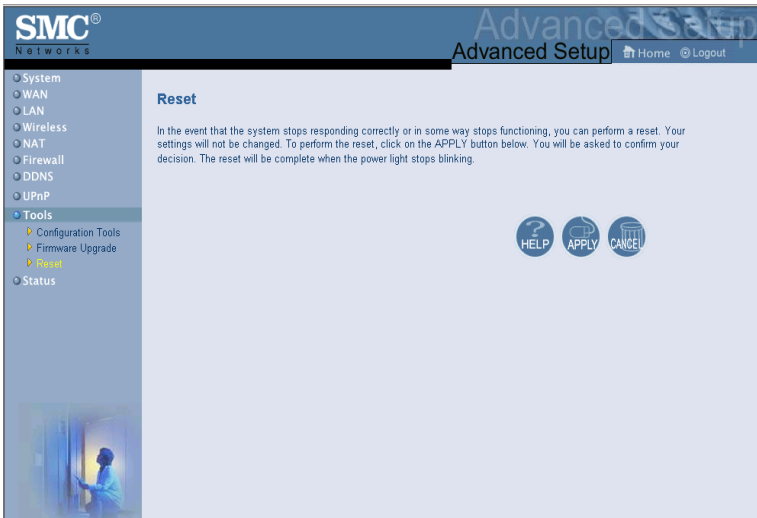
Configuring the Wireless Barricade g Router

Tools - Firmware Upgrade



Use this screen to update the firmware or user interface to the latest versions. Download the upgrade file from the SMC web site (www.smc.com) and save it to your hard drive. In the Upgrade Target field, choose Firmware. Then click Browse to look for the previously downloaded file. Click APPLY. Check the Status page Information section to confirm that the upgrade process was successful.

Tools - Reset



Click APPLY to reset the Router. The reset will be complete when the power LED stops blinking.

Note: If you use the Reset button on the front panel, the Router performs a power reset. If the button is held depressed for over five seconds, all the LEDs will illuminate and the factory settings will be restored.

Configuring the Wireless Barricade g Router

Status

The Status screen displays WAN/LAN connection status, firmware, and hardware version numbers, illegal attempts to access your network, as well as information on DHCP clients connected to your network.

The screenshot shows the SMC Networks Advanced Setup Status page. The left sidebar contains a navigation menu with options: System, WAN, LAN, Wireless, NAT, Firewall, DDNS, UPnP, Tools, and Status (selected). The main content area is titled 'Status' and includes a sub-header: 'You can use the Status screen to see the connection status for Barricade g's WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network, as well as information on all DHCP client PCs currently connected to your network.' Below this, there are three main sections: 'INTERNET' (Cable/DSL: CONNECTED, WAN IP: 10.1.16.24, Subnet Mask: 255.255.252.0, Gateway: 10.1.16.254, Primary DNS: 10.2.3.4, Secondary DNS: 0.0.0.0), 'GATEWAY' (IP Address: 192.168.2.1, Subnet Mask: 255.255.255.0, DHCP Server: Enabled, Firewall: Enabled, UPnP: Disabled, Wireless: Enabled), and 'INFORMATION' (Numbers of DHCP Clients: 1, Runtime Code Version: 0.5285-WL (May 08 2002 19:40:15), Boot Code Version: V1.03, LAN MAC Address: 00-70-46-00-00-01, WAN MAC Address: 00-70-46-00-00-02, WLAN MAC Address: 00-70-46-00-00-01, Hardware Version: 01, Serial Num: A000000001). There are 'Release' and 'Renew' buttons under the Internet section. Below these sections are two log sections: 'Security Log' (View any attempts that have been made to gain access to your network) and 'DHCP Client Log' (View information on LAN DHCP clients currently linked to the Barricade g). The Security Log shows a list of attempts with columns for date, time, and client type. The DHCP Client Log shows a single entry with IP and MAC address. At the bottom, there are 'Save', 'Clear', and 'Refresh' buttons.

The following items are included on this screen:

Section	Description
INTERNET	Displays WAN connection type and status.
GATEWAY	Displays system IP settings, as well as DHCP and Firewall status.
INFORMATION	Displays the number of attached clients, the firmware versions, the physical MAC address for each media interface, as well as the hardware version and serial number.
Security Log	Displays illegal attempts to access your network.
Save	Click on this button to save the security log file.
Clear	Click on this button to delete the access log.
Refresh	Click on this button to refresh the screen.
DHCP Client Log	Displays information on all DHCP clients on your network.

TROUBLESHOOTING

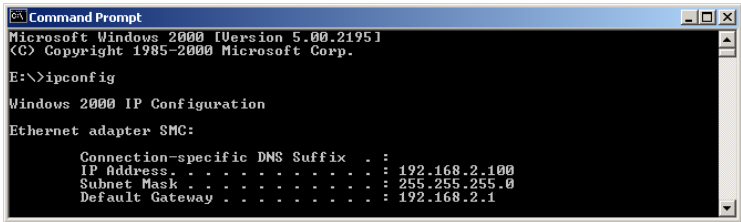
The information outlined in this section describes some useful steps for getting your computer and the Router online.

A. Verify your connection to the Router

If you are unable to access the Router's web-based administration pages then you may not be properly connected or configured. The screen shots in this section were taken on a Windows 2000 machine, but the same steps will apply to Windows 95/98/Me/XP.

To determine your TCP/IP configuration status please follow the steps below:

1. Click Start then choose Run.
2. Type cmd or command to open a DOS prompt.
3. In the DOS window, type ipconfig and verify the information that is displayed.
4. If your computer is set up for DHCP, then your TCP/IP configuration should be similar to the information displayed:
 - IP Address: 192.168.2.X (x is number between 100 and 199 by default.)
 - Subnet: 255.255.255.0
 - Gateway: 192.168.2.1



If you have an IP address that starts with 169.254.XXX.XXX then see the next section.

If you have another IP address configured, then see section C.

B. I am getting an IP Address that starts with 169.254.XXX.XXX

If you are getting this IP Address, then you need to check that you are properly connected to the Router.

Confirm that you have a good link light on the Router for the port this computer is connected to. If not, please try another cable.

If you have a good link light, please open up a DOS window as described in the previous section and type ipconfig/renew.

If you are still unable to get an IP Address from the Router, reinstall your network adapter. Please refer to your adapter manual for information on how to do this.

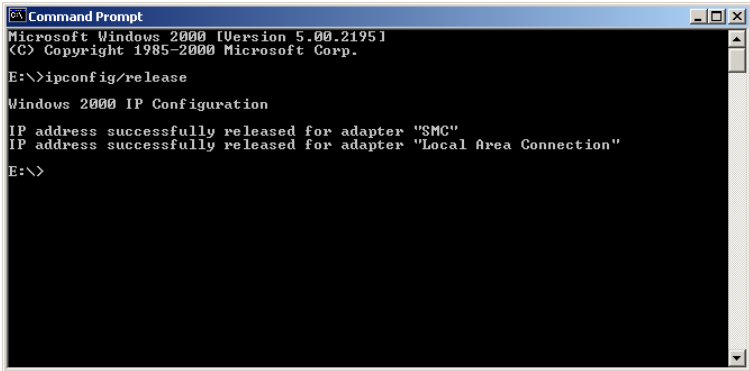
C. I have another IP Address displayed

If you have another IP address listed then the PC may not be configured for a DHCP connection. Please refer to “Configuring Client TCP/IP” on page 12 for information.

Once you have confirmed your computer is configured for DHCP, then please follow the steps below.

1. Open a DOS window as described above.

2. Type ipconfig/release.



```
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

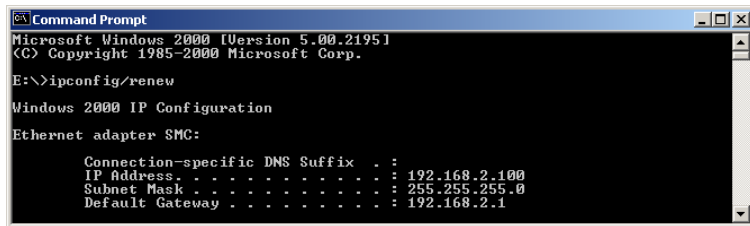
E:\>ipconfig/release

Windows 2000 IP Configuration

IP address successfully released for adapter "SMC"
IP address successfully released for adapter "Local Area Connection"

E:\>
```

3. Then type ipconfig/renew.



```
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

E:\>ipconfig/renew

Windows 2000 IP Configuration

Ethernet adapter SMC:

    Connection-specific DNS Suffix . : 
    IP Address . . . . . : 192.168.2.100
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.2.1
```

D. The 10/100 LED does not light after a connection is made.

1. Check that the host computer and the Router are both powered on.
2. Be sure the network cable is connected to both devices.
3. Verify that Category 5 cable is used if you are operating at 100 Mbps, and that the length of any cable does not exceed 100 m (328 ft).
4. Check the network card connections.
5. The 10BASE-T/100BASE-TX port, network card, or cable may be defective.

SPECIFICATIONS

Below is an outline of the technical specifications for the SMC2804WBR.

Standards

IEEE 802.3 10BASE-T Ethernet

IEEE 802.3u 100BASE-TX FastEthernet

IEEE 802.11b

IEEE 802.11g draft

WAN Interface

10BASE-T/100BASE-TX

LAN Interfaces

10BASE-T/100BASE-TX

4 RJ-45 ports: LAN data transfer rate is up to 10/20 Mbps (10BASE-T half/full duplex) or 100/200 Mbps (100BASE-TX half/full duplex)

Antenna

2 detachable antennas with reversed SMA connectors

Management

Browser-based management

Both DHCP Server and Client provided

Advanced Features

Dynamic IP Address Configuration – DHCP, DNS

Wireless Security – 64/128-bit WEP encryption, SSID broadcast disabled, MAC address filtering

Firewall – Access Control, hacker prevention, logging

Virtual Server via NAT & NAPT

Virtual Private Network – PPTP, L2TP, IPSec pass-through

Intrusion Detection, E-mail Alerts, Parental Control

Indicator Panel

Power, WLAN, WAN (Link, Activity), LAN (Link/Activity, Speed - 10/100 Mbps)

Dimensions

130 x 85 x 32 mm (5.12 x 3.35 x 1.26 in.)

Weight

370 g (13.05 oz)

Input Power

9 V, 1 A

Maximum Current

0.04 A_{RMS} max. @ 110 V/240 V

Power Consumption

5 Watts max. @ 100-240 VAC

Internet Standards

RFC 826 ARP, RFC 791 IP, RFC 792 ICMP, RFC 768 UDP, RFC 793 TCP, RFC 854-859 TELNET, RFC 1321 MD5, RFC 1497 BOOTP Extension, RFC 1570 PPP LCP Extension, RFC 1631 NAT, RFC1661 PPP, RFC 1700 Assigned Numbers, RFC 1866 HTML, RFC 1945 HTTP, RFC 1994 CHAP, RFC 2131 DHCP, RFC 2637 PPTP

Temperature

Operating 0 to 40 °C (32 to 104 °F)

Storage -40 to 70 °C (-40 to 158 °F)

Humidity

5% to 95% (noncondensing)

Specifications

Compliances

CE Mark

Emissions

FCC Class B

VCCI Class B

Industry Canada Class B

EN55022 (CISPR 22) Class B

C-Tick - AS/NZS 3548 (1995) Class B

Immunity

EN 61000-3-2/3

EN 61000-4-2/3/4/5/6/8/11

Safety

CSA/NRTL (UL1950, CSA 22.2.950)

GS (EN60950)

CB (IEC60950)

FOR TECHNICAL SUPPORT, CALL:

From U.S.A. and Canada (24 hours a day, 7 days a week)
(800) SMC-4-YOU; (949) 679-8000; Fax: (949) 679-1481
From Europe (8:00 AM - 5:30 PM UK Time)
44 (0) 118 974 8700; Fax: 44 (0) 118 974 8701

INTERNET

E-mail addresses:

techsupport@smc.com
european.techsupport@smc-europe.com
support@smc-asia.com

Driver updates:

http://www.smc.com/index.cfm?action=tech_support_drivers_downloads

World Wide Web:

<http://www.smc.com>
<http://www.smc-europe.com>
<http://www.smc-asia.com>

FOR LITERATURE OR ADVERTISING RESPONSE, CALL:

U.S.A. and Canada:	(800) SMC-4-YOU;	Fax (949) 679-1481
Spain:	34-93-477-4935;	Fax 34-93-477-3774
UK:	44 (0) 1932 866553;	Fax 44 (0) 118 974 8701
France:	33 (0) 41 38 32 32;	Fax 33 (0) 41 38 01 58
Italy:	39 (0) 335 5708602;	Fax 39 02 739 14 17
Benelux:	31 33 455 72 88;	Fax 31 33 455 73 30
Central Europe:	49 (0) 89 92861-0;	Fax 49 (0) 89 92861-230
Nordic:	46 (0) 868 70700;	Fax 46 (0) 887 62 62
Eastern Europe:	34 -93-477-4920;	Fax 34 93 477 3774
Sub Saharian Africa:	27 0126610232;	Fax 27-11 314 9133
North West Africa:	216 71236616;	Fax 216 71751415
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PRC (Beijing):	86-10-8251-1550;	Fax 86-10-8251-1551
PRC (Shanghai):	86-21-6485-9922;	Fax 86-21-6495-7924
Taiwan:	886-2-8797-8006;	Fax 886-2-8797-6288
Asia Pacific:	(65) 6 238 6556;	Fax (65) 6 238 6466
Korea:	82-2-553-0860;	Fax 82-2-553-7202
Japan:	81-3-5645-5715;	Fax 81-3-5645-5716
Australia:	61-2-8875-7887;	Fax 61-2-8875-7777
India:	91 22 5696 2790;	Fax 91 22 5696 2794
Middle East:	97 14 299 4466	Fax 97 14 299 4664
Thailand:	66 2 651 8733	Fax 66 2 651 8737

If you are looking for further contact information, please visit www.smc.com,
www.smc-europe.com, or www.smc-asia.com.



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Model Number: SMC2804WBR

Revision Number E072003-R01 V.2 F 1.0