



# Firewall Monitor



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# Firewall Monitor Overview

The 2Wire® Firewall Monitor enhanced service extends the professional-grade firewall capabilities of your 2Wire Gateway by continuously assessing threats to your home network. Using the Firewall Monitor service, you can:

- Automatically download updates to your firewall software to protect against new threats.
- Receive on-screen notification to alert you of network attacks.
- Review details about attacks blocked and the source of the attacks.

## Getting Started

After you have downloaded the latest firmware version, you can begin configuring the Firewall Monitor by clicking **SET UP NOW**.

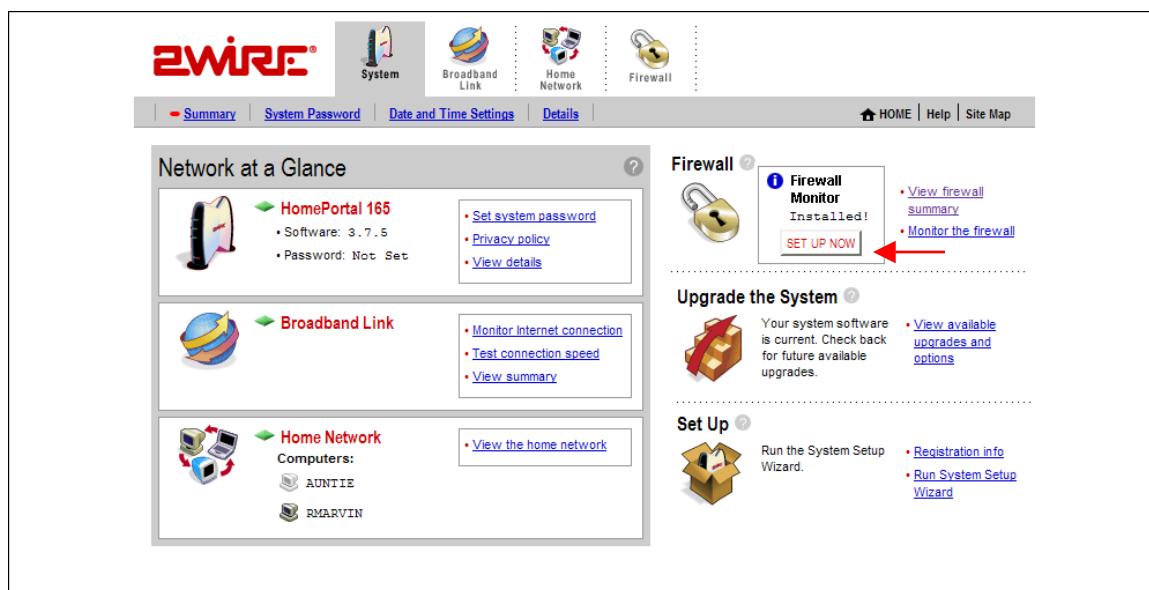


Figure 1

Click the **SET UP NOW** button to display the Monitor the Firewall page (Figure 1) where you can customize these settings for your firewall.

## Monitor the Firewall

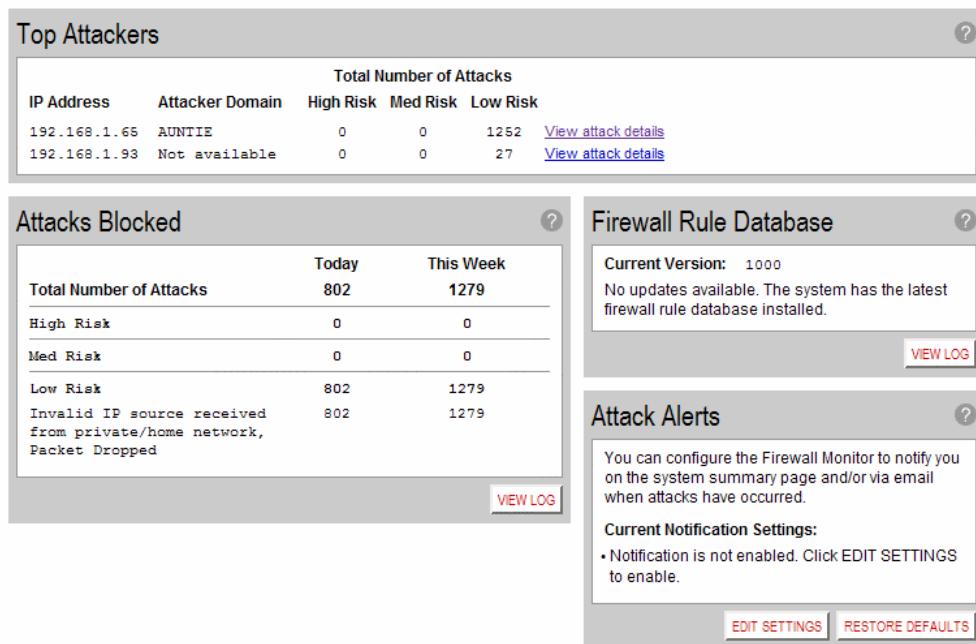


Figure 2

## Setting Up Firewall Monitor Attack Alerts

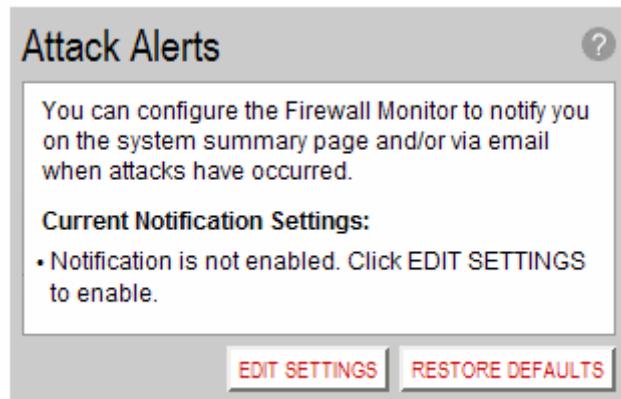
The Attack Alerts area of the Monitor the Firewall page shows you the current criteria for posting an alert and how you will be notified of the attack.

The Monitor the Firewall page contains four areas:

- Top Attackers
- Attacks Blocked
- Firewall Rule Database
- Attack Alerts

## Configuring/Editing Attack Alerts

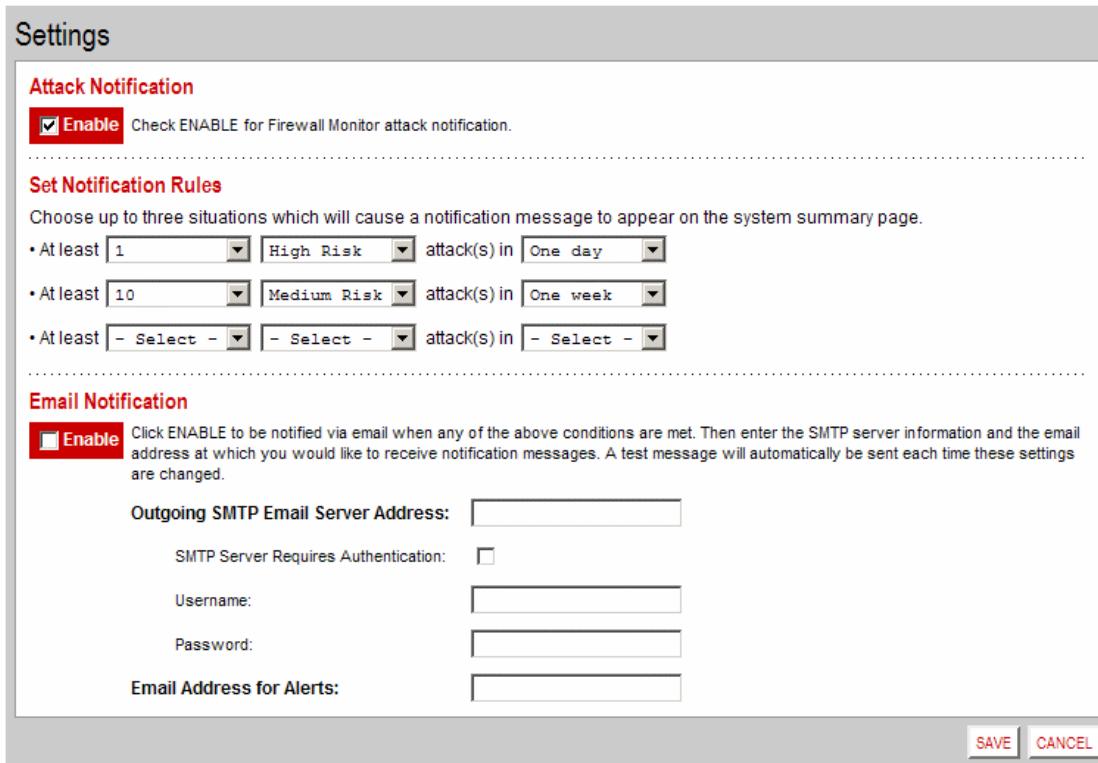
To configure the Attack Alerts criteria, click **EDIT SETTINGS** (Figure 3).



**Figure 3**

The Edit Attack Notification Settings page opens (Figure 4).

### Edit Attack Notification Settings



**Attack Notification**  
 **Enable** Check ENABLE for Firewall Monitor attack notification.

**Set Notification Rules**  
Choose up to three situations which will cause a notification message to appear on the system summary page.

- At least   attack(s) in
- At least   attack(s) in
- At least   attack(s) in

**Email Notification**  
 **Enable** Click ENABLE to be notified via email when any of the above conditions are met. Then enter the SMTP server information and the email address at which you would like to receive notification messages. A test message will automatically be sent each time these settings are changed.

Outgoing SMTP Email Server Address:

SMTP Server Requires Authentication:

Username:

Password:

Email Address for Alerts:

**SAVE** **CANCEL**

**Figure 4**

## Enabling Attack Notification

To turn on the attack notification function, check the Attack Notification **Enable** checkbox. If you wish to disable this function, uncheck the checkbox.

When you are finished setting your attack notification criteria, click **SAVE** for your notification rules to take effect.

## Configuring Notification Rules

To be notified of attacks on the home page of the 2Wire user interface, you must set up notification rules. You can configure up to three notification rules that will cause a notification message to appear on the 2Wire Gateway home page. The following screen shows the default rules.

### Set Notification Rules

Choose up to three situations which will cause a notification message to appear on the system summary page.

- At least   attack(s) in
- At least   attack(s) in
- At least   attack(s) in

Each rule contains the following parameters:

- Number of Attacks—Select the quantity of attacks that have to occur before the notification is sent. Choices include 1, 5, 10, 15, 25, 50, and 100 attacks.
- Type of Attack—Select the type of attack for this notification rule. Choices include high risk, medium risk, and low risk attacks.
- Time Duration—Select the time duration. If the number of attacks specified is exceeded within the chosen duration, you are notified. Choices include one day or one week. A week is defined as Monday at midnight to Sunday at midnight.

## Enabling Email Notification

In addition to being notified of attacks on the 2Wire Gateway home page, you can be notified via email when one of your attack threshold rules has been exceeded. To receive an email notification when any of the Notification Rule conditions have been met, check the Email Notification **Enable** checkbox. You must also enter your Outgoing SMTP Email Server Name, (which can be found by going to <http://help.sbcglobal.net>. Go to the "Email" section, click on Set Up, then click on POP, SMTP and NNTP server settings), your SBC/Yahoo member ID, SBC password and the email address that will receive the alerts." .

### Email Notification

**Enable** Click ENABLE to be notified via email when any of the above conditions are met. Then enter the SMTP server information and the email address at which you would like to receive notification messages. A test message will automatically be sent each time these settings are changed.

Click **SAVE** to return to the Monitor the Firewall page.

## Restoring Defaults

To restore the default settings for Attack Notification and Email Notification, click the **RESTORE DEFAULTS** button in the Attack Alerts area of the Monitor the Firewall page.

## Viewing Firewall Monitor Attack Alerts

After setting up alert notification, if your network firewall is attacked meeting the criteria set, notice of the attack is provided on the 2Wire Gateway user interface home page.

## Viewing Top Attackers

The Top Attackers area of the Monitor the Firewall page (Figure 5) displays the IP address and domain of each top attacker.

Total Number of Attacks				
IP Address	Attacker Domain	High Risk	Med Risk	Low Risk
192.168.1.65	AUNTIE	0	0	1252
192.168.1.93	Not available	0	0	27

Figure 5

The attackers are ranked based on the number and severity of attacks. To see the details of a particular top attacker, click the **View attack details** link.

The View Attack Details page opens (Figure 6).

## View Attack Details

Details		
Internet Domain:	AUNTIE	
Internet Address:	192.168.1.65	
Total Attacks Blocked	Today	This Week
High Risk	0	0
Med Risk	0	0
Low Risk	54	54
Invalid IP source received from private/home network, Packet Dropped	54	54

Figure 6

The View Attack Details page shows you the total attacks blocked, and the number of each type of attack that was blocked today and this week:

- High risk attacks—Indicates blocked attacks that represent a serious attempt by the attacker to disable your network.
- Medium risk attacks—Indicates blocked attacks that represent a modest level of intent by the attacker to disable your network.
- Low risk attacks—Indicates blocked attacks that represent no serious threat to the network. Typically, these are probing attacks used by hackers to determine those networks on which a more serious attack will be conducted.

When you are finished viewing the log, click your browser **BACK** button.

## Understanding the Attacks Blocked Area

The Attacks Blocked area of the Monitor the Firewall page (Figure 7) displays summary information about all high, medium, and low risk attacks that were blocked today and this week.

	Today	This Week
Total Number of Attacks	802	1279
High Risk	0	0
Med Risk	0	0
Low Risk	802	1279
Invalid IP source received from private/home network, Packet Dropped	802	1279

**VIEW LOG**

**Figure 7**

To view details about the blocked attacks, click **VIEW LOG**. The View Firewall Log page opens (Figure 8).

### View Firewall Log

Log		
Date and Time	Severity	Details
2005/01/12 17:31:16 PST	info	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:32:14 PST	low	src=192.168.1.65 dst=192.168.1.255 IPPROTO=17 sport=137 dport=137 Invalid IP source received from private/home network, Packet Dropped
2005/01/12 17:32:16 PST	info	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:32:16 PST	info	src=192.168.1.65 dst=192.168.1.255 IPPROTO=17 sport=137 dport=137 Invalid IP source received from private/home network, Packet Dropped
2005/01/12 17:32:18 PST	low	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:32:18 PST	low	src=192.168.1.65 dst=192.168.1.255 IPPROTO=17 sport=137 dport=137 Invalid IP source received from private/home network, Packet Dropped
2005/01/12 17:32:18 PST	low	src=192.168.1.65 dst=192.168.1.255 IPPROTO=17 sport=138 dport=138 Invalid IP source received from private/home network, Packet Dropped
2005/01/12 17:33:16 PST	info	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:34:16 PST	info	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:34:35 PST	info	src=10.4.253.243 dst=10.4.254.204 IPPROTO=6 sport=3355 dport=445 Unknown inbound session stopped
2005/01/12 17:34:36 PST	info	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:52:09 PST	low	src=192.168.1.65 dst=192.168.1.255 IPPROTO=17 sport=138 dport=138 Invalid IP source received from private/home network, Packet Dropped
2005/01/12 17:52:18 PST	info	src=10.4.254.208 dst=10.0.255.255 IPPROTO=17 sport=2190 dport=2190 Unknown inbound session stopped
2005/01/12 17:52:39 PST	low	src=192.168.1.65 dst=192.168.1.255 IPPROTO=17 sport=137 dport=137 Invalid IP source received from private/home network, Packet Dropped

**CLEAR LOG**

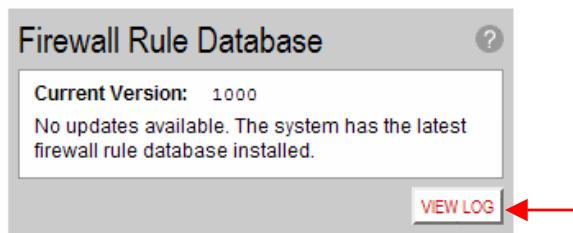
**Figure 8**

To clear the log, click **CLEAR LOG**.

To return to the Monitor the Firewall page, click your browser **BACK** button.

## Understanding the Firewall Rule Database Area

The Firewall Rule Database area of the Monitor the Firewall page (Figure 9) shows you the current firewall rules version running on your 2Wire Gateway.



**Figure 9**

To display the firewall rule database update log, click **VIEW LOG**.

## View Firewall Rule Database Update Log

Log	
Date and Time	Version
November 8, 2004 05:31:50 PM PST	1000

**Figure 10**

The upgrade log (Figure 10) displays the following information about new downloaded rules:

- Date and time
- Version

When you are finished viewing the log, click your browser **BACK** button.

## Updating Your Firewall Rules

Updated firewall rules are automatically downloaded to your 2Wire Gateway after you set up the Firewall Monitor service. The Firewall Monitor application typically checks for new updates every 24 hours.