UMA EM5000 Getting Started Guide

# SonicWALL ECLASS



# SonicWALL UMA EM5000 Getting Started Guide

This *Getting Started Guide* contains installation procedures and configuration guidelines for deploying the SonicWALL Universal Management Appliance EM5000 (SonicWALL UMA EM5000) in your network. The SonicWALL UMA EM5000 runs SonicWALL Global Management System, which is a Web-based application that can configure, manage, and monitor the status of thousands of SonicWALL Internet security appliances and non-SonicWALL appliances from a central location.

The SonicWALL UMA EM5000 provides these benefits:

- Centralized security and network management
- Sophisticated VPN deployment and configuration
- Active device monitoring and alerts
- Intelligent reporting and activity visualization
- Centralized logging and offline management

**Note:** For complete documentation, refer to the **SonicWALL GMS Administrator's Guide**. This and other documentation are available at: http://www.sonicwall.com/us/Support.html. For the latest SonicWALL UMA EM5000 firmware version downloads and documentation, login to the MySonicWALL website at http://www.mysonicwall.com.

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# Before You Begin 1

In this Section:

This section provides pre-configuration information before setting up your SonicWALL UMA EM5000.

- Checking Package Contents page 2
- Overview of the SonicWALL UMA EM5000 page 3
- System Requirements page 5
- Recording Configuration Information page 8

## **Checking Package Contents**

Before setting up your SonicWALL UMA EM5000, verify that your package contains the following parts:

SonicWALL UMA EM5000 5 Standard Power Cord\* Getting Started Guide 2 **Crossover Cable** 

Ethernet Cable

6 Front Bezel Keys

Rack Mounting Kit (not pictured)

#### Any Items Missing?

If any items are missing from your package, please contact SonicWALL support.

A listing of the most current support documents are 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.





## **Overview of the SonicWALL UMA EM5000**

#### **Front Panel**



- Pressing the reset button for several seconds will result in a reboot of the SonicWALL UMA EM5000.
- Do not plug devices into any ports (other than those indicated) unless explicitly instructed to do so by a SonicWALL technical support representative; doing so may void your warranty.

#### **Rear Panel**

#### Ethernet Port 1 X

Not authorized for use

#### **Power Supply**

Provides power connection using the supplied power cables



Provides configurable Gigabit-capable Ethernet connection to your local network Provides access to a command line interface (CLI) for SonicWALL technical support use

## **System Requirements**

The SonicWALL UMA EM5000 comes with a default license to manage 10 nodes. You can purchase additional licenses on MySonicWALL. For more information on licensing additional nodes, visit:

http://www.sonicwall.com/us/Products\_Solutions.html

#### **Database Requirements**

The SonicWALL UMA EM5000 comes installed with a built-in MySQL 5.0 database and supports the following databases on external systems:

- On external SonicWALL UMA EM5000 appliances:
  - MySQL 5.0
- On Windows Server 2008, Windows Server 2003 (SP1), or Windows Server 2000 (SP4):
  - Microsoft SQL Server 2005 (SP2)
  - Microsoft SQL Server 2000 (SP4)
  - MySQL 5.0 as bundled with SonicWALL Universal Management Suite

#### Java Requirements

Java Plug-in version 1.5 or higher is required on client machines when accessing the SonicWALL UMA EM5000 or the SonicWALL GMS application. SonicWALL Universal Management Suite (UMS) automatically downloads the Java Plug-in 1.5. SonicWALL UMS services use JRE 1.5.0\_06. For Microsoft SQL Server installations, SonicWALL UMS uses Tomcat 5.5.26.

#### **Browser Requirements**

The following browser requirements apply to client machines when accessing the SonicWALL UMA EM5000 or the SonicWALL GMS application:

- Microsoft Internet Explorer 6.0 or higher
- Mozilla Firefox 2.0 or higher
- Pop-up blocker disabled

The SonicWALL UMA EM5000 supports SSL 3.0/TLS 1.0 for HTTPS management of SonicWALL appliances, and for direct login to the managed unit from the SonicWALL UMA EM5000. For enhanced security across a managed network in installations that must comply with stringent regulatory compliance and account management controls as found in such standards as PCI, SOX, or HIPAA, the following browsers have SSL 3.0/TLS 1.0 as standard encryption protocols:

- Microsoft Internet Explorer 7.0 or higher
- Mozilla Firefox 2.0 or higher

You can set other browsers to use these protocols in the **Tools** > **Options** page on the **Advanced** or **Encryption** tab.



**Note:** On Windows Server 2008, Internet Explorer 7 requires that the URL for the SonicWALL UMA EM5000 is added to your trusted sites before it will display the appliance login page. The **Trusted Sites** list is available in **Tools** > **Internet Options** > **Security**.

#### SonicWALL Platform and Firmware Support

SonicWALL Platforms	SonicWALL Firmware Version
Firewall / UTM / VPN	
TZ Series NSA Series PRO Series	SonicOS Enhanced 3.2 or newer SonicOS Standard 3.1or newer
SonicWALL CSM Series	SonicOS CF 2.0 or newer
Secure Remote Access	5
SonicWALL SMB SSL-VPN Series	SonicOS SSL-VPN 2.0 or newer
SonicWALL Aventail Series	Aventail 9.0 or newer
Backup and Recovery	
SonicWALL CDP Series	SonicWALL CDP 2.3 or newer

Legacy or older-generation models are not supported, such as, SonicWALL XPRS/XPRS2, SonicWALL SOHO2, SonicWALL Tele2, and SonicWALL PRO-VX.

For the most recent platform support and firmware version information, refer to the latest *SonicWALL UMA EM5000 Getting Started Guide* available at: http://www.sonicwall.com/us/Support.html

#### Non-SonicWALL Appliance Support

The SonicWALL UMA EM5000 provides monitoring support for non-SonicWALL TCP/IP and SNMP-enabled devices and applications.

#### **Network Requirements**

To complete the SonicWALL UMA EM5000 deployment process, the following network requirements must be met:

- Access to the Internet
- A static IP address
- Network connection must be able to accommodate 1 KB/s for each device under management. For example, if the SonicWALL UMA EM5000 is monitoring 100 SonicWALL appliances, the connection must support at least 100 KB/s.

Depending on the configuration of SonicWALL log settings and the amount of traffic handled by each device, the network traffic can vary dramatically. The 1KB/s for each device is a general recommendation. Your installation requirements may vary.

#### **GMS Gateway Recommendations**

A GMS gateway is a SonicWALL UTM appliance that allows for secure communication between the SonicWALL UMA EM5000 and managed appliance(s) using VPN tunnels. A GMS gateway is not required in all deployment scenarios, as described in this section.

When deployed, the GMS gateway must be a SonicWALL VPNbased network security appliance running SonicOS Enhanced firmware or another VPN device that is interoperable with SonicWALL VPN. SonicWALL strongly recommends that the GMS gateway be, at minimum, a SonicWALL NSA 2400 network security appliance with SonicOS Enhanced 5.1 or higher firmware. The GMS gateway provides a VPN management tunnel for each managed appliance. The number of management tunnels depends on the number of VPNs supported by the GMS gateway appliance and may be a limiting factor.

There are three SonicWALL appliance management methods with varying GMS gateway requirements. When using HTTPS as the management method, it is optional to have a GMS gateway between each SonicWALL UMA EM5000 agent server and the managed SonicWALL appliance(s). If you select Existing VPN tunnel as the management method, a gateway is optional. If you select Management VPN tunnel, you must have a GMS gateway between the SonicWALL UMA EM5000 agent appliance and the managed SonicWALL appliance(s) to allow each SonicWALL UMA EM5000 agent to securely communicate with its managed appliance(s). The following list provides more detail on SonicWALL appliance management methods and gateway requirements:

- Management VPN tunnel A GMS gateway is required. Each SonicWALL UMA EM5000 agent must have a dedicated gateway. The security association (SA) for this type of VPN tunnel is created when the appliance is configured for SonicWALL GMS management using the Management Tunnel method.
- The SonicWALL UMA EM5000 automatically creates the SA in the gateway. For this configuration, the gateway must be a SonicWALL VPN-based appliance. The gateway can be configured in NAT-Enabled or transparent mode.
- Existing VPN tunnel A GMS gateway is optional. The SonicWALL UMA EM5000 can use VPN tunnels that already exist in the network to communicate with the managed appliance(s). The GMS gateway can be a SonicWALL VPN-based appliance or another VPN device that is interoperable with SonicWALL VPN.
- HTTPS A GMS gateway is optional. The SonicWALL UMA EM5000 can use HTTPS management instead of a VPN tunnel to communicate with the managed appliance(s).
- **Note:** A management VPN tunnel is only supported for SonicWALL UTM appliances, but is not supported for SonicWALL CDP or SonicWALL SSL-VPN appliances.

## **Recording Configuration Information**

Before deploying the SonicWALL UMA EM5000, record the following configuration information for your reference.

SMTP Server Address:	The IP address or host name of your Simple Mail Transfer Protocol (SMTP) server. For example, mail.emailprovider.com.
HTTP Web Server Port:	The number of your Web server port if customized. The default port is 80.
HTTPS Web Server Port:	The number of your secure (SSL) Web server port if customized. The default port is 443.
UMA EM5000 Administrator Email:	The email address of a SonicWALL UMA EM5000 administrator who will receive email notifications from the SonicWALL UMA EM5000.
Sender Email Address:	The email address from which the email notifications will be sent by the SonicWALL UMA EM5000.
GMS Gateway IP:	The IP address of the GMS gateway between the SonicWALL UMA EM5000 agent and the network. This optional field is only applicable if you have a GMS gateway.
GMS Gateway Password:	The password for the GMS gateway. This optional field is only applicable if you have a GMS gateway between the SonicWALL UMA EM5000 and the network.
Database Vendor:	Your database vendor if you are using a SQL Server database.
Database Host IP:	The IP address of the database host. This is not required when using the bundled MySQL database on this appliance.
Database User:	The MySQL user name for the database administrator. This is not required when using the bundled MySQL database on this appliance.
Database Password:	The MySQL password for the database administrator. This is not required when using the bundled MySQL database on this appliance.

# Connecting and Initializing the UMA EM5000 2

## In this Section:

This section provides instructions for powering on your SonicWALL UMA EM5000, logging into the appliance management interface, running the Host Configuration Tool, and then connecting the appliance to your local network.

- Powering On Your Appliance page 10
- Restarting Your Appliance page 10
- Powering Off Your Appliance page 10
- Logging into the Appliance Management Interface page 10
- Using the Host Configuration Tool page 12
- Connecting the SonicWALL UMA EM5000 to Your Network page 15
- Configuring a Static IP Address on Your Management Computer page 17

## **Powering On Your Appliance**

Perform the following steps to turn on your SonicWALL UMA EM5000 appliance:

- 1. Plug the supplied power cable into the back of the SonicWALL UMA EM5000.
- 2. Plug the other end of the power cable into an AC socket. The SonicWALL UMA EM5000 automatically powers on and begins the initial boot process.

The boot process may take several minutes to complete when powering on the SonicWALL UMA EM5000 for the first time.

## **Restarting Your Appliance**

Perform the following steps to restart your SonicWALL UMA EM5000 appliance from the appliance management interface:

- 1. Navigate to the **System > Restart** page.
- 2. Click the Restart button.
- In the confirmation dialog box, click OK. The system will take approximately 3 minutes to restart.

To restart your appliance by using the D-Pad controls on the front panel, see Using the Restart Option - page 76.

## **Powering Off Your Appliance**

To power off your SonicWALL UMA EM5000 appliance, press and then *quickly* release the power button on the upper-right corner of the appliance front bezel.

¥

Tip: Do not hold down the power button to shutdown.

To power off your appliance by using the D-Pad controls on the front panel, see Using the Shutdown Option - page 76.

# Logging into the Appliance Management Interface

To connect a management computer to your SonicWALL UMA EM5000 and log in to the appliance management interface for the first time, perform the following steps:

- Using the supplied cross-over cable and the computer you are using to administer the SonicWALL UMA EM5000, connect the LAN port of the computer to the Ethernet port (eth0) on the back of your SonicWALL UMA EM5000.
- Set your management computer to have a static IP address on the 192.168.168.0/24 subnet, such as 192.168.168.50. For help with setting up a static IP address on your computer, refer to Configuring a Static IP Address on Your Management Computer - page 17.



- 3. Open a Web browser on your management computer.
- Enter http://192.168.168.169/appliance/ (the default IP address of the SonicWALL UMA EM5000) in the Location or Address bar. The SonicWALL UMA EM5000 appliance management login screen displays.

- **Note:** One or more security warnings may display while connecting to the appliance management interface. Choose to accept the certificates in order to log in to the SonicWALL UMA EM5000.
- 5. Log in to the appliance management interface using the default credentials:
  - User name admin
  - Password password

6. The first time you log in to the appliance, you must change the password. The login page re-displays with the default login credentials prepopulated. Enter a new password for the administrator account in the **New Password** field, and enter it again in the **Confirm New Password** field.

#### Click Submit.



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The Host Configuration Tool wizard starts automatically. See Using the Host Configuration Tool - page 12.

## **Using the Host Configuration Tool**

The Host Configuration Tool is a wizard that takes you through several basic steps to get your SonicWALL UMA EM5000 configured for your network.

The wizard starts automatically after you log in for the first time and change the admin password. You can cancel the wizard at this time, which leaves the default configuration on the appliance and prevents the wizard from automatically starting again.



**Note:** If you log out of the appliance management interface without actually cancelling the wizard, it will start automatically on your next login.



You can manually start the wizard at any time by clicking the **Wizards** button at the top-right corner of the page.

To use the Host Configuration Tool, perform the following steps:

- 1. If the Host Configuration Tool has started automatically, skip to step 2. If you are starting the Host Configuration Tool manually, click the **Wizards** button in the top right corner.
- 2. In the Introduction screen, click Next.

Butrockaction	Step 1. Introduction
Network Settings	Configuring the host avoid-es setting rest name, 2F address, DHS, Take and other system specific parameters.
	The wood will guide you through the process of configuring a hoat, shep by step-
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- In the Network Settings screen, configure the network settings for the SonicWALL UMA EM5000, and then click Next. Enter network settings values for the following fields:
  - Hostname A descriptive name for this appliance
  - **Domain** In the form of "sonicwall.com"; this domain is not used for authentication
  - IP Address The static IP address for the eth0 interface of the appliance
  - Subnet Mask In the form of "255.255.255.0"
  - **Default Gateway** The IP address of the network gateway – this is the default gateway and is required for networking purposes. This is not the GMS Gateway explained earlier in this guide.
  - DNS Server 1 The IP address of the primary DNS server
  - DNS Server 2 (Optional) The IP address of the secondary DNS server

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the Section	Post IP address:	292.268.94.205	
the seconds	Salvet made:	258.258.258.0	1
-	Defail planar	192.048.94.000	1
	DNS server 1:	18 203 176.10	1
	DND server 2-	18.203.176.10	1

- 4. In the Time Settings screen, select values for the following system settings on the appliance, and click **Next**:
  - Time (hh:mm:ss) Hours, minutes, and seconds of current time
  - Date Month, day, and year of current date
  - TimeZone Select from the drop-down list
  - Automatically adjust clock for daylight saving time - Select this checkbox for automatic adjustment between standard time and daylight savings time

	Hold Configuration Tool
broductur	Step 3. Tase Settings
Network Settings	Tanie (Minawana) (27 m) ; 46 m) ; 58 m) Date: (20 m) (20 m) (20 m)
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5. In the Summary screen, verify the settings. Click **Back** to make changes on a previous screen, or click **Apply** to accept the settings.

Step 4. Summary	
Network Settlings Hostnare Dosan P address Defaal galemae	NCMAD HIGHIDETALLETON.com 192, Hal M. 201 192, Hal M. 201
Subreit mael DNS server 1 DNS server 2	295.295.295.8 10.207.178.30 10.207.178.30
Time Settings See Smellore	2009/01/20 00:49:58 (1997: 00:00) Partic Ten (21:5-Canada), Tauria
To spaly these settings	s, skik Apply.
(345	Analy Cancel
	Step 4. Summery Sectory Constraints Decay Sectory Decay Dec

6. Wait for the settings to be applied, possibly for a few minutes. The screen displays a progress bar until it finishes, and then displays the status.

	Plott C	onliguration Tool
brookuttur	Step 4. Summary	
		Applying Heat Configuration Settings
Network Settings		
		Please Wat
Troe Selfange		
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- **Note:** If you modified the DNS settings, the services on the appliance will restart when the changes are applied, causing a momentary connectivity loss to the Web server. Your browser will be redirected to the appliance management interface login page.
- If you have modified the appliance IP address, you will lose contact with the appliance when the changes are applied. To connect the appliance to your network and access the appliance management interface from a computer on your LAN, see Connecting the SonicWALL UMA EM5000 to Your Network - page 15.

## **Connecting the SonicWALL UMA EM5000** to Your Network

To connect the SonicWALL UMA EM5000 to your network and access the appliance management interface from a management computer on your LAN, perform the following steps:

- 1. If you are using the same management computer that you used for initial configuration, unplug the crossover cable from the management computer and from the SonicWALL UMA EM5000.
- 2. Plug one end of the provided Ethernet cable (not the crossover cable) into the eth0 port on the back of your SonicWALL UMA EM5000.
- 3. Plug the other end of the Ethernet cable into an open port on your local network hub or switch.
- 4. Adjust your management computer to its previous settings prior to assigning it a static IP address on the default appliance subnet.
- 5. Connect your management computer to your local network.
- 6. On the management computer, point a browser to the new appliance IP address in the form:

#### http://</P address>:<port>/appliance/

It is not necessary to provide the port in the URL if you kept the default port.

The following network diagram illustrates how the SonicWALL UMA EM5000 connects to an example network:



San Jose, USA

Page 16 Connecting the SonicWALL UMA EM5000 to Your Network

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## **Configuring a Static IP Address on Your Management Computer**

This section is provided for your reference when preparing to log in for the first time to your SonicWALL UMA EM5000.

Complete the following steps to configure your management computer with a static IP address:

#### Windows Vista

- 1. On the Windows **Start** menu, right-click **Network** and select **Properties**.
- 2. In the **Tasks** menu, click **Manage network connections**. The Network Connections window displays.
- 3. Right-click on your Local Area Connection and select **Properties**.
- 4. In the list, double-click Internet Protocol Version 4 (TCP/ IP).
- 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**, and then click **OK** again for the settings to take effect.

#### Windows XP

- 1. On the Windows **Start** menu, highlight **Connect To** and then select **Show All Connections**.
- 2. Open the Local Area Connection Properties window.
- 3. Highlight Internet Protocol (TCP/IP), and then click **Properties**.

- 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. On the 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. On the Windows **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 changes to take effect.

# Registering Your Appliance 3

## In this Section:

This section provides instructions for registering your SonicWALL UMA EM5000 appliance.

- Creating a MySonicWALL Account page 20
- Registering Your Appliance page 20
- Registering as an Associated Component page 22

## **Creating a MySonicWALL Account**

A MySonicWALL account is required for product registration. If you already have an account, continue to the *Registering Your Appliance* section. Perform the following steps to create a MySonicWALL account:

- 1. In your browser, navigate to www.mysonicwall.com.
- 2. In the login screen, click the Not a registered user? link.

SONICWALL	MySonicWALL
Login SosicWALL Products Applications Markets Support Hoisto Bury Channel Partners	User Login
rag SonicALERT	Forced Usernamer, Forced Pasteversit, foct a recently referent?

- 3. Complete the Registration form and then click Register.
- 4. Verify that the information is correct and click **Submit**.
- 5. In the screen confirming that your account was created, click **Continue**.

MySonicWALL registration information is not sold or shared with any other company.

## **Registering Your Appliance**

You must register your SonicWALL UMA EM5000 on MySonicWALL before you can run SonicWALL GMS on it. Registration is performed using the appliance management interface. When registration is completed, SonicWALL GMS will be licensed on your appliance.



When you log in to the SonicWALL UMA EM5000 after running the Host Configuration Tool, the **Register** button is displayed in the top right corner of the page. The registration process requires that the

SonicWALL UMA EM5000 have access to the Internet.

To register your SonicWALL UMA EM5000, perform the following steps:

- 1. In a browser, log in to the appliance management interface and click the **Register** button.
- 2. In the License Management page, type your MySonicWALL user name and password and click **Submit**.

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3. Type a descriptive name for the appliance into the **Friendly Name** field and then click **Submit**.

The Serial Number field is automatically populated.



**Note:** If this is the first SonicWALL UMA EM5000 that you have registered, the Friendly Name for this appliance will also be used as the name for the distributed deployment. As you register more UMA EM5000 appliances or instances of SonicWALL GMS on Windows Server systems, you will have the option of adding them to this deployment.

4. Select the **Create New Deployment as** radio button and then click **Submit**.

Aumber: 0090F8000016

5. Click Continue.

License Man	agement	
		Serial Number: 0090F800001
52.020	0.001	

6. On the License Summary page, verify that SonicWALL GMS is now licensed on your appliance.

SONICWALL UMA 5.1			
License Hanagement			
			Serial Number: 00907800003
Security Service	Status	Count	Expiration
Gobal Management System	Licensed	30	
	Manage Lice	nues Refrech	Licenses Upload Licenses

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## **Registering as an Associated Component**

When you have a distributed SonicWALL GMS deployment involving more than one appliance or software instance of SonicWALL GMS, you can associate these components on MySonicWALL.



**Note:** The default 10-node management license is not automatically increased when additional components are associated with an existing SonicWALL GMS deployment. Contact SonicWALL Technical Support to add the node licenses to the deployment.

To register a SonicWALL UMA EM5000 as an associated component of an existing SonicWALL GMS deployment, perform the following steps:

- 1. In a browser, log in to the appliance management interface and click the **Register** button.
- 2. Enter your MySonicWALL user name and password in the appropriate fields and then click **Submit**.
- Type a descriptive name for the appliance into the Friendly Name field and then click Submit.
  The Serial Number field is automatically populated.

4. The next registration page prompts you to associate this SonicWALL GMS component with an existing deployment, or create a new GMS deployment instance. Select the Select from existing Deployments radio button.

SONICWALL UMA 5.1	
License Management	
	Serial Number: 0090F6000016
Please specify the name of a GMS Deploym	nent that this will belong to:
Select from existing Deployments:	Choose Court 👻
C Create new Deployment as:	Ajits GMS Appliance 01/06

- 5. Select the desired deployment for the association from the drop-down list and then click **Submit**.
- 6. Click Continue.



# Configuring the Role of Your Appliance

## In this Section:

This section provides information about configuring the role for your SonicWALL UMA EM5000, as well as information about deployment settings and services.

- Overview of SonicWALL UMA EM5000 Roles page 24
- Using the Role Configuration Tool page 25
- Manually Configuring the System Role page 31
- Configuring Deployment Settings page 38
- Starting and Stopping Host Services page 39

## Overview of SonicWALL UMA EM5000 Roles

The role that you assign to your SonicWALL UMA EM5000 defines the SonicWALL Universal Management Suite services that it will provide. SonicWALL GMS uses these services to perform management, monitoring, and reporting tasks.

Your SonicWALL UMA EM5000 can be deployed in any of the following roles:

- All In One
- Agent
- Console
- Database Only
- Monitor
- Syslog Collector

In the appliance management interface, clicking **Details** in the same row as a role provides a list of the services that run on a system in that role, and information about using the role.

As the number of managed appliances increases, a more distributed deployment provides better performance. To manage large numbers of SonicWALL appliances, you can use several SonicWALL UMA EM5000 appliances operating in different roles in a distributed deployment. You can also use Windows Server machines running SonicWALL GMS in any of the roles. You can include the MySQL database installation with any role. The All In One or Database Only roles automatically include the MySQL database.

You can scale your deployment to handle more units and more reporting by adding more systems in the Agent role. Agents provide built-in redundancy capability, meaning that if an Agent goes down, other Agents can perform the configuration tasks and other tasks of the Agent that went down.



**Note:** When configuring the role for the first appliance in a distributed deployment, you should either include the database or be prepared to provide the IP address of an existing database server.

You can meet this database objective in one of the following ways:

- By selecting a role that includes the database automatically, such as All In One or Database Only
- By selecting the **Include Database (MYSQL)** checkbox if configuring the appliance with any other role
- By setting up a compatible database on another machine and providing that IP address when prompted

#### The initial **Deployment** > **Role** page is shown below:

Host Role Configurati	ion			
Single Server Configurati	ion			
O Al in One				Details
Multi-Server Configuratio	n(s)			
O Database Only				Details
O Console				Details
O Agent				Details
O Monitor				Details
Syslog Collector				Detals
Syslog Server Por	t	514		
🗐 Include Database (	(MYSQL)			
Database Configurati	ion			
Database Type:	Select One	*		
Database Host:				
Database Port:				
Database User:				
Database Password:				
Confirm Database Password:				
Database Driver:				
Database URL:	1			

## **Using the Role Configuration Tool**

The Role Configuration Tool is a wizard that guides you through the process of defining the deployment role for your SonicWALL UMA EM5000 appliance. Your system must be registered and licensed for SonicWALL GMS to run the Role Configuration Tool.

There are two ways to access the Role Configuration Tool:

 After the appliance is registered and licensed for SonicWALL GMS, the System > Status page of the appliance management interface provides a link to the wizard.

System	A Role Configuration Pending: A ro	ie has not been configured for this management suite. to select a role. Click <u>here</u> to load the wizerd for role configuration.
Status	Status Information	
Literates Time Administration Settings Diagnostics	General Name Serial Number Version License Role	Sonicili AL, Universal Management Applance 0990F000016 5.1 (Buld: 5113,1414 - Feb 05, 2009 05:02:32 AM PST) Licensed for Global Management System System Collector
Backup,Restore RAD Rester1 Storock Deployment	Systems Host Name, IP Current Time Operating System OPU RAM RAM RAM Available Tool Space on Detail Partition	preets.gmaago.com (10.0.89,230) Feb 64, 2009 01.271.39 AM HDT Sonticinux Dried Cone(Trig) 2 CPU 6400 (0.2.130Hz (2.13 GHz) 3 Cores Cache: 3046 (2.100Cac CPU) 3 208 HB RAD-5 Status: 046 (Stat: 2.05 TB) 0.12 CB (of Total 0.46 CB) 19905.37 CB (of Total 2007,49 CB)

1

• The **Wizards** button in the top right corner of the page provides access to the Role Configuration Tool.

ICHALL? UN	MA 5.1 00	•
	SonicWALL Configuration Wizard	
Webane	Wokume to the Issue/WALL Canifysration Waard	
	Select are of the establishm to analy configure your Services.	
	Heat Configuration Tool: The cost of Heat on a configuration feet artig relating fail name, 29 address, 2012, The and other system specify parameters.	i
	O Role Configuration Tool - The scard of path on through the process of professing a rule for the statem.	
	Carthur Canor	
	SONICWAL	P

To use the Role Configuration Tool, perform the following steps:

- 1. Log in to the appliance management interface and navigate to the **System > Status** page.
- 2. Click the **Click <u>here</u>** link at the top of the page.

Role Configuration Pending: A role has not been configured for this management suite. Go to Role Configuration screen to select a role. Click here to load the wizard for role configuration.

3. In the Introduction page of the Role Configuration Tool, click **Next**.

Introduction	Step 1. Introduction
leta tor	We known to the field Configuration tool In order is use the application ratioled on the applem, it is tenses up to configure a rate for the applement. The application ratio be configured as a angle server or part of a multiple entropy deplement.
Deployment type	The wand of guide our brough the process of configuring a role, step to men-
hie configuration :	
Delabere configuration	
Other carifiguration	
lannary	

4. In the Setup Type page, select Yes if you are adding this system to an existing SonicWALL GMS deployment on one or more systems. Selecting Yes indicates to the wizard that there is an existing SonicWALL GMS database on another server. Select No if this appliance is part of a new SonicWALL GMS deployment or is the only system in your GMS deployment. Click Next.

**Note:** If you selected Yes, skip step 5 and proceed to step 6.

	Role Configuration Tool	
Introduction	Step 2. Setup type	
Setup type	Is this part of existing GHS deployment? O Yes O No	
Deployment type	To continue, dick hiest.	

 In the Deployment Type page, select Yes if this system will be the only SonicWALL GMS server in the deployment, or select No if there will be multiple GMS servers. Click Next.

	Role Configuration Tool	
Introduction	Step 3. Deployment type	
2010/2010	Is this a single server deployment?	
Setup type	O Yes O No	
Deployment type	To continue, click Next.	

 In the Role Configuration page, select the desired role for this system and select the Include Database (MYSQL) checkbox if you want to configure a SonicWALL GMS database on this system. Click Next.

The list of roles on this page will vary depending on your previous selections such as whether this system is part of an existing SonicWALL GMS deployment and if it is a single-server or part of a multi-server deployment. Neither the Database Only nor the Include Database (MYSQL) options are available if this system is part of an existing deployment.

Introduction	Step 4. Role configuration		
	Select one of the following role	90:	
setup type	O Database Only	Details	
	O Console	Details	
Deployment type	O Agent	Detalis	
	O Monitor	Details	
Role configuration	O Syslog Collector	Details	
Detabase configuration	Disclude Database (MYSQL	3	
	To continue, click Next.		
Other configuration			
Summary			

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7. In the Database Configuration page, enter the database parameters that are required for the selected role. The database fields will vary depending on your previous selections.

ntroduction	Step 5. Database configura	tion			
	Enter the database parameter	rs for the sele	cted role : Data	base Only	
etup type	Database Type:	H05QL	200		
	Database Hosts	localhist			
Deployment type	Detabase Ports	2306			
fole configuration	Database Users	Č.			
	Database Password:				
	Confirm Database Password:	[			
Database configuration	Database Driver:	con manif (d)	ld Driver		
2000.000	Database URL:	sbonie/I	licalheat 2006		
other configuration	Admin Login:	-but	13		
	Admin Password:	2			
reasonal A	Confirm Admin Password:	0			

Certain fields will be prepopulated if you made a choice of role that automatically includes the MySQL database or if you chose **Include Database (MYSQL)**. For a MySQL instance, additional fields are available for configuring the database administrator credentials. The **Administrator Credentials** fields are only displayed and editable in the following circumstances:

- The Database Type is MySQL
- The Include Database (MYSQL) checkbox is selected either manually or automatically for the chosen role
- The **Database Host** field is set to **localhost** and is not editable

When these conditions are met, the administrator password is required to create a regular access user account for the SonicWALL GMS application. If you selected a role that does not include the MySQL database, you have the option of configuring the use of a SQL Server database in this screen.

	Role Config	uration To	ol		
Introduction	Step S. Database configura	tion			
Setup type	Enter the database paramete Database Type:	rs for the sele Select One	cted role : (	Console	
Deployment type	Database Host: Database Port:				
Role configuration	Database User: Database Password:	1			
Database configuration	Confirm Database Password: Database Driver:				
Other configuration	Database URL:	6			

- 8. When finished entering the database parameters, click **Next**.
- 9. In the Other Configuration page, the fields vary depending on the selected role, as follows:
  - Gateway Parameters Required for All in One, Console, and Agent roles
  - Syslog Server Parameters Required for All in One, Console, Agent, and Syslog Collector roles
  - **SMTP Parameters** Required for All in One and Console roles

Enter the **GMS Gateway IP** address and connection password, if you are using a GMS gateway. Leave these fields empty if you are using HTTP/HTTPS to connect to the managed appliances.

	Role Configura	ation Tool
Introduction	Step 6. Other configuration	
ietup type	Gateway Parameters GHS Gateway IP:	
Deployment type	GMS Gateway Password: Confirm GMS Gateway Password	±
Role configuration	Syslog Server Parameters Syslog Server Part:	514
Database configuration	SHTP Parameters SHTP Server:	
Other configuration	Sender Address: Administrator Address:	
iummary.	To continue, click Next.	

- 10. In the **Syslog Server Port** field, type in the port used for receiving syslog messages or accept the default of 514.
- For access to email on this system, including the ability to send email alerts, type the mail server IP address into the SMTP Server field and enter valid email addresses for the Sender Address and Administrator Address.
- 12. Click Next.
- In the Summary page, verify that all parameters are correct. Click **Back** to make changes on a previous screen, or click **Apply** to accept the settings.

Role Configuration Tool			
Introduction	Step 7. Summary		
Setup type	Setup Existing Setup	No	
	Deployment Deployment	Multi Server	
Deployment type	Role Configuration Role	Console	
Role configuration	Database Configuratio Database Type Database Host Database Port Database User	84752), 10.0.89.250 3006 gms	
Database configuration	Database Driver Database URL	com.mysql.jdbc.Driver tdbc:mysql:(/30.0.89.250:3306	
Other configuration	Other Configuration Gateway IP Syslog Part SMTP server Sender address	524	
Summary	Administrator address		
	To apply these settings, do	St. Apply.	
	< Back Ap	ofy Canoel	

14. Wait for the settings to be applied. The screen displays a progress bar until it finishes, and then displays the status. This phase can take up to 10 minutes, especially if the database was included in the deployment.

Role Configuration Tool			
Introduction	Step 7. Summary		
Setup type		Applying Role Configuration Settings	
leployment type		Print Unit-	
Role configuration			
Database configuration			
Other configuration			
Summary			

15. Click **Close** to exit the Role Configuration Tool.

	Note consignation root	
Introduction	Step 7. Summary	
Setup type	A Role Configuration applied successfully.	
Deployment type		
Role configuration		
Database configuration		
Other configuration		
Summary		
	Close	
		SONICWALL

## Manually Configuring the System Role

You can configure the role of the SonicWALL UMA EM5000 appliance without using the Role Configuration Tool.

All role configuration is performed in the appliance management interface, available at the URL:

http://<IP address>:<port>/appliance/

Refer to the following sections for instructions on manually configuring the system role:

- Configuring the All In One Role page 31
- Configuring the Database Only Role page 32
- Configuring the Console Role page 33
- Configuring the Agent Role page 34
- Configuring the Monitor Role page 35
- Configuring the Syslog Collector Role page 35
- Configuring Database Settings page 36
- Configuring Deployment Settings page 38

#### Configuring the All In One Role

All In One deployments are ideal for managing a small number of SonicWALL appliances or for test environments. However, SonicWALL recommends that you use a multi-system, distributed deployment in production environments, with the database on a dedicated server and the other services on one or more systems. When only one other system is deployed, the Console role should be assigned to it.

The All In One role provides all nine services utilized by SonicWALL GMS:

- Syslog Collector
- Reports Scheduler
- Update Manager
- Reports Summarizer
- SNMP Manager
- Scheduler
- Monitoring Manager
- Web Server
- Database

To deploy your SonicWALL UMA EM5000 in the All In One role, perform the following steps in the appliance management interface:

- 1. Navigate to the **Deployment > Role** page. Under **Host Role Configuration**, select the **All In One** radio button.
- If this SonicWALL UMA EM5000 will connect to managed appliances through a GMS gateway, type the gateway IP address into the **GMS Gateway IP** field. To determine if a GMS gateway is required, see the *GMS Gateway Recommendations* section, on page 7.
- 3. If a GMS gateway will be used, type the password into both the GMS Gateway Password and Confirm GMS Gateway Password fields.
- 4. If this SonicWALL UMA EM5000 listens for syslog messages on a non-standard port, type the port number into the **Syslog Server Port** field. The default port is 514.
- 5. Configure the database settings as described in the *Configuring Database Settings* section, on page 36.
- 6. Configure the Web port settings as described in the *Configuring Web Port Settings* section, on page 38.
- 7. To apply your changes, click **Update**. To change the settings on this page back to the defaults, click **Reset**.

#### Configuring the Database Only Role

The Database Only role is used in a multi-server SonicWALL GMS deployment. In this role, the server is configured to run only the database service. SonicWALL recommends that one of the servers in a multi-server SonicWALL GMS deployment is assigned a Database Only role.

Only the SonicWALL Universal Management Suite Database service runs on a Database Only system.

The MySQL database engine is pre-installed on the SonicWALL UMA EM5000. SonicWALL GMS can also use a MySQL database or a Microsoft SQL Server database installed on a server. Only the MySQL database included in the installer is supported. On the Deployment > Role page in the SonicWALL UMA EM5000 appliance management interface, you can configure your SonicWALL GMS systems to use either a MySQL or a SQL Server database.

To deploy your SonicWALL UMA EM5000 in the Database Only role, perform the steps described in the *Configuring Database Settings* section, on page 36.

#### Configuring the Console Role

The Console role is used in a multi-server, distributed SonicWALL GMS deployment. In this role, the SonicWALL UMA EM5000 will run all SonicWALL Universal Management Suite services except for the Database service. In this scenario, the Database role is assigned to a separate appliance or server.

In the Console role, the SonicWALL UMA EM5000 behaves as an Agent, and also provides the following functions:

- Provides Web user interface for the SonicWALL GMS application
- Emails Scheduled Reports
- Performs Event Management tasks
- Performs various periodic checks, such as checking for new appliances that can be managed, checking for new firmware versions of managed appliances, and similar functions

To deploy your SonicWALL UMA EM5000 in the Console role, perform the following steps in the appliance management interface:

1. Navigate to the **Deployment > Role** page. Under **Host Role Configuration**, select the **Console** radio button.

Console	
GMS Gateway IP:	
GNS Gateway Password:	
Confirm GMS Gateway Password:	
Syslog Server Port:	514

- If this SonicWALL UMA EM5000 will connect to managed appliances through a GMS gateway, type the gateway IP address into the GMS Gateway IP field. To determine if a GMS gateway is required, see the GMS Gateway Recommendations section, on page 7.
- 3. If a GMS gateway will be used, type the password into both the GMS Gateway Password and Confirm GMS Gateway Password fields.
- If this SonicWALL UMA EM5000 listens for syslog messages on a non-standard port, type the port number into the Syslog Server Port field. The default port is 514.
- To use a MySQL or Microsoft SQL Server database on another system, do *not* select the **Include Database** (MYSQL) checkbox. To include the MySQL database on this system (not recommended), select this checkbox (for this configuration, select the All In One role instead of the Console role).
- 6. Configure the database settings as described in the *Configuring Database Settings* section, on page 36.
- 7. Configure the Web port settings as described in the *Configuring Web Port Settings* section, on page 38.
- 8. To apply your changes, click **Update**. To change the settings on this page back to the defaults, click **Reset**.
#### **Configuring the Agent Role**

The Agent role can be used in a distributed deployment of SonicWALL GMS. The primary functions of this role include the following:

- Manages units by acquiring them, pushing configuration tasks to the units and tracking their up/down status
- Performs monitoring based on ICMP probes, TCP probes, and SNMP OID retrievals
- Collects and stores syslog messages
- Performs report summarization

The following SonicWALL Universal Management Suite services run on an Agent system:

- Syslog Collector
- Reports Summarizer
- SNMP Manager
- Scheduler
- Monitoring Manager

To deploy your SonicWALL UMA EM5000 in the Agent role, perform the following steps in the appliance management interface:

1. Navigate to the **Deployment > Role** page. Under **Host Role Configuration**, select the **Agent** radio button.

lost Role Configuration		
Agent		Details
GMS Gateway IP:		
GMS Gateway Password:		
Confirm GMS Gateway Password:		
Syslog Server Port:	514	

- If this SonicWALL UMA EM5000 will connect to managed appliances through a GMS gateway, type the gateway IP address into the GMS Gateway IP field. To determine if a GMS gateway is required, see the GMS Gateway Recommendations section, on page 7.
- 3. If a GMS gateway will be used, type the password into both the GMS Gateway Password and Confirm GMS Gateway Password fields.
- 4. If this SonicWALL UMA EM5000 listens for syslog messages on a non-standard port, type the port number into the **Syslog Server Port** field. The default port is 514.
- 5. To include the MySQL database on this system, select the **Include Database (MYSQL)** checkbox. To use a MySQL or Microsoft SQL Server database on another system, do not select this checkbox.
- 6. Configure the database settings as described in the *Configuring Database Settings* section, on page 36.
- 7. Configure the Web port settings as described in the *Configuring Web Port Settings* section, on page 38.
- 8. To apply your changes, click **Update**. To change the settings on this page back to the defaults, click **Reset**.

#### **Configuring the Monitor Role**

The Monitor role is used to dedicate the SonicWALL UMA EM5000 to monitoring appliances and applications in a multiserver SonicWALL GMS deployment. The monitoring is based on ICMP probes, TCP probes, and SNMP OID retrievals.

Only the SonicWALL Universal Management Suite Monitoring Manager service runs on a Monitor system.

To deploy your SonicWALL UMA EM5000 in the Monitor role, perform the following steps in the appliance management interface:

1. Navigate to the **Deployment > Role** page. Under **Host Role Configuration**, select the **Monitor** radio button.

0	Database Only	Details
۲	Monitor	Details
0	Syslog Collector	Details

Include Database (MYSQL)

- To include the MySQL database on this system, select the Include Database (MYSQL) checkbox. To use a MySQL or Microsoft SQL Server database on another system, do not select this checkbox.
- 3. Configure the database settings as described in the *Configuring Database Settings* section, on page 36.
- 4. Configure the Web port settings as described in the *Configuring Web Port Settings* section, on page 38.
- To apply your changes, click Update. To change the settings on this page back to the defaults, click Reset.

#### Configuring the Syslog Collector Role

The Syslog Collector role can be assigned to a SonicWALL UMA EM5000 in a multi-server deployment of SonicWALL GMS. In this role, the SonicWALL UMA EM5000 is dedicated to collecting syslog messages on the configured port (by default, port 514). The syslog messages are stored in the SonicWALL UMA EM5000 file system.

The syslog messages are used by the Reports Summarizer service running on another SonicWALL GMS server or SonicWALL UMA EM5000 in the distributed deployment. The folder where the Syslog Collector service stores the syslog messages must be accessible by the server running the Reports Summarizer service.

Only the SonicWALL Universal Management Suite Syslog Collector service runs on a Syslog Collector system. To deploy your SonicWALL UMA EM5000 in the Syslog Collector role, perform the following steps in the appliance management interface:

 Navigate to the Deployment > Role page. Under Host Role Configuration, select the Syslog Collector radio button.

Syslog Collector		Detais
Syslog Server Port:	514	
Indude Database (MYSQL)		

- 2. If this SonicWALL UMA EM5000 listens for syslog messages on a non-standard port, type the port number into the **Syslog Server Port** field. The default port is 514.
- 3. To include the MySQL database on this system, select the **Include Database (MYSQL)** checkbox. To use a MySQL or Microsoft SQL Server database on another system, do not select this checkbox.
- 4. Configure the database settings as described in the *Configuring Database Settings* section, on page 36.
- 5. Configure the Web port settings as described in the *Configuring Web Port Settings* section, on page 38.
- To apply your changes, click Update. To change the settings on this page back to the defaults, click Reset.

#### **Configuring Database Settings**

Database settings configuration is largely the same for any role when you choose to include the database on that appliance. For roles that automatically include the default MySQL database, such as All In One or Database Only, the Database Type, Database Host, and Database Port fields are not editable. This is also the case for any role when the **Include Database (MYSQL)** checkbox is selected. The Administrator Credentials fields are displayed only if the role has been defined to include the installation of the MySQL database. These are not available when a SQL Server database is selected.

This section describes the options for configuring the database settings for either the MySQL database or the Microsoft SQL Server database. The SonicWALL UMA EM5000 can run the MySQL database, but SonicWALL GMS can also use either a MySQL or a SQL Server database running on a Windows Server machine in a multi-system deployment.



**Note:** If this appliance will connect to a SQL Server system with a non-default instance name, then the entries will be different than described in this section. Refer to the **SonicWALL GMS Administrator's Guide** for configuration instructions. To configure the database settings for any role, perform the following steps in the appliance management interface:

- 1. Navigate to the **Deployment > Role** page and select the role for this appliance.
- To run the MySQL database on this SonicWALL UMA EM5000, select the Include Database (MYSQL) checkbox. To use a MySQL or Microsoft SQL Server database on another system, do <u>not</u> select this checkbox.
- Under Database Configuration, if Include Database (MYSQL) was not selected in the previous step, select either MYSQL or SQL Server from the Database Type drop-down list. This field is not editable if you previously selected Include Database (MYSQL) or if the selected role is All In One or Database Only.

Database Configuratio	a	
Database Type:	MYSQL 💌	
Database Host:	localhost	
Database Port:	3306	
Database User:	58	
Database Password:		
Confirm Database Password:		
Database Driver:	com invisid debe. Entwer	
Database URL:	clocimysigh/Arcaihosts3306	
Administrator Creden	tials	
Admin Login:	root	
Admin Password:		
Confirm Admin Password:		

- 4. In the Database Host field, type in the IP address of the database server or accept the default, localhost, if this SonicWALL UMA EM5000 includes the database. This field is not editable if you previously selected Include Database (MYSQL) or if the selected role is All In One or Database Only.
- To use a different user name when SonicWALL GMS accesses the database, type the user name into the Database User field. The default user name is "sa".
- 6. Type the password that SonicWALL GMS will use to access the database into both the **Database Password** and **Confirm Database Password** fields.
- 7. Under Administrator Credentials, type the password for the administrator (root) account into both the Admin Password and Confirm Admin Password fields.

Note that the **Administrator Credentials** fields are only displayed and editable in the following circumstances:

- The Database Type is MySQL
- The Include Database (MYSQL) checkbox is selected either manually or automatically for the chosen role
- The Database Host field is set to localhost and is not editable

When these conditions are met, the administrator password is required to create a regular access user account for the SonicWALL GMS application.

# **Configuring Deployment Settings**

This section describes the settings available on the **Deployment > Settings** page of the appliance management interface.

#### **Configuring Web Port Settings**

To change the Web port settings, perform the following steps:

 On the Deployment > Settings page under Web Port Configuration, to use a different port for HTTP access to the SonicWALL UMA EM5000, type the port number into the HTTP Port field. The default port is 80.

HTTP port:	80	
HTTPS port:	443	
		Decet

- 2. To use a different port for HTTPS access to the SonicWALL UMA EM5000, type the port number into the **HTTPS Port** field. The default port is 443.
- 3. Click **Update** to apply the Web port settings.

**Note:** Changing the Web port settings will cause the appliance to restart.

- 4. After the appliance restarts, use the new port to access the appliance management interface. For example:
  - If you changed the HTTP port to 8080, use the URL: http://
     http://
     http://
  - If you changed the HTTPS port to 4430, use the URL: http://</P Address>:4430/appliance/

#### **Configuring SMTP Settings**

The SMTP settings are used for sending email alerts to the SonicWALL UMA EM5000 administrator. To configure the SMTP settings, perform the following steps:

 On the Deployment > Settings page under SMTP Configuration, enter the IP address of the SMTP server into the SMTP server field.

SMTP server:		
Sender address:		
Administrator address:		
	1	

- 2. In the **Sender address** field, enter the email address that will appear as the 'From' address when email alerts are sent to the administrator.
- 3. In the **Administrator address** field, enter a valid email address for the administrator who will receive email alerts.
- 4. Click **Update** to apply the SMTP settings.

# **Starting and Stopping Host Services**

You can stop, start, or restart any of the SonicWALL UMS services on the **Deployment > Services** page of the appliance management interface. The page displays different services depending on the role of the appliance. The image below shows all nine services running on an All In One system:

Inst Dala: Al in One	Catal
IOST KOIE: All IN UNE	Detail
lost Services	
Service Name	Current State
SonicWALL Universal Management Suite - Reports Summarizer	Started (Enabled)
SonicWALL Universal Management Suite - Web Server	Started (Enabled)
SonicWALL Universal Management Suite - Update Manager	Started (Enabled)
SonicWALL Universal Management Suite - Reports Scheduler	Started (Enabled)
SonicWALL Universal Management Suite - SNMP Manager	Started (Enabled)
SonicWALL Universal Management Suite - Database	Started (Enabled)
SonicWALL Universal Management Suite - Syslog Collector	Started (Enabled)
SonicWALL Universal Management Suite - Scheduler	Started (Enabled)
SonicWALL Universal Management Suite - Monitoring Manager	Started (Enabled)

Disable/Stop Enable/Start Restart

To change the current state of a service, perform the following steps:

- On the Deployment > Services page, select the checkbox next to the service whose state you want to change and then do one of the following:
  - To stop the service, click the **Disable/Stop** button.
  - To start a stopped service, click the **Enable/Start** button.
  - To restart the service, click the **Restart** button. This option stops and then starts the service.
- 2. A progress bar is displayed. Wait for the desired action to complete before navigating away from the page.

Service configuration in progress Note: This action could take 5 minutes or more to complete, please do not navigate away from this screen.

The status of the action is displayed at the top of the page.

A Services action (START) successful

SonicWALL Universal Management Suite - Reports Summarizer: Start Action Successful

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Page 40 Starting and Stopping Host Services

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# Using the SonicWALL GMS Management Interface 5

### In this Section:

This section provides information about the SonicWALL GMS management interface. The SonicWALL GMS application runs on the SonicWALL UMA EM5000.

- Accessing the Correct Management Interface page 42
- SonicWALL GMS Management Interface Introduction page 43
- SonicWALL GMS Login Screen page 44
- SonicWALL GMS Navigation Tabs page 44
- Left Pane Overview page 45
- Center Pane Overview page 45
- Right Pane Overview page 46
- Description of Managed Appliance States page 46

# Accessing the Correct Management Interface

The SonicWALL UMA EM5000 comes installed with two separate management interfaces:

 SonicWALL UMA Appliance Management Interface – Used for system management of the appliance, including registration and licensing, setting the admin password, creating backups, restarting the appliance, configuring network settings, selecting the deployment role, and configuring other system settings.

Access the appliance management interface with the URL: http://<IP address>:<port>/appliance/

If you are using the standard HTTP port, 80, it is not necessary to append the port number to the IP address.



SonicWALL GMS Management Interface – Used to access the SonicWALL GMS application that runs on the SonicWALL UMA EM5000. This interface is used to configure GMS management of SonicWALL appliances, including creating policies, viewing reports, and monitoring networks, and for configuring GMS administrative settings. The GMS management interface is only available on appliances deployed in a role that runs the Web Server service, such as the All In One or Console roles.

Access the GMS management interface with the URL: http://

	E1.	Pre-survey Balan	100 Million (1990)
Annuagement - Database Ton	. (Pringer 1.)	Hotel Information for Stated Solid Print, Printyreent	-
Hattageneral ( \$1719%)	· Name	formal	
10104-040	To Make	Prevail in the Lowers	
TU (HIL) 4000	.744	Theoreth that and that Registeries	*
Tax (MIN) - Factor -	interest and	Annual and the party	
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DP 121-00-010			
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	A DECK	Carley) Mer Latter on	
		Evented Standing	
		Sub-sec free-sector Territor	
	* becardly berease	Timored Holicle	
	* SumPant	504.246	
A Block	* Bischicas	100 COOR	
	1 1003	Pol 416	1
	4 Phaless/Witten	548.40	4
	4 mak fillers	11 17 3F 81 and	1.1
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		Salest Republic and the second s	
		Getting Northal With GPS	

#### Page 42 Accessing the Correct Management Interface

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#### Switching Between Management Interfaces

On appliances deployed in the All In One or Console role, you can easily switch between the appliance management interface and the SonicWALL GMS management interface. The login page of each interface provides a link to the login page of the other interface.

	A Please log in	
User	1	
Password		_
	Stet	
	SUDA	





When logged in to either interface, you can switch to the login page of the other interface by clicking the **Switch** button in the top right corner of the page.

# SonicWALL GMS Management Interface Introduction

SonicWALL GMS is a Web-based application that runs on the SonicWALL UMA EM5000. SonicWALL GMS is used for configuring, managing, monitoring and gathering reports from thousands of SonicWALL Internet security appliances and non-SonicWALL appliances, as well as for configuring SonicWALL GMS administrative settings. This section provides an introduction to the main elements of the SonicWALL GMS management interface.

Access the SonicWALL GMS management interface with the URL:

http://<IP address>:<port>/sgms/



Appliance Management Interface - page 10.

## SonicWALL GMS Login Screen

The SonicWALL GMS management interface login screen allows you to securely login to SonicWALL GMS using your User ID and Password. After you have registered your SonicWALL UMA EM5000 and it is licensed for SonicWALL GMS, the SonicWALL GMS login screen is the first screen that displays each time you access the SonicWALL GMS management interface using a Web browser on your management computer.

elcome to the SonicWALL Globa nicWALL GMS Version 5.1	l Management System Login	SONICWALL
1	Tunnit.	
	_ Salest	

# **SonicWALL GMS Navigation Tabs**

The SonicWALL GMS management interface navigation tabs are located at the top of the management interface.



The six navigation tabs are **SonicToday, Firewall**, **SSL-VPN**, **CDP**, **Monitor**, and **Console**.

The **Monitor** tab provides real-time monitoring at the global, group or appliance level. The **Console** tab provides tools to customize options found in the other SonicWALL GMS tabs and to manage SonicWALL GMS settings and settings that affect the environment globally.

## **Left Pane Overview**



The left pane of the SonicWALL GMS management interface provides a tree control that displays the current view and a list of managed appliances within the current tab. The left pane is only displayed for the three appliance tabs: **Firewalls**, **SSI -VPNs** and **CDPs** The

current category and view are indicated by a blue highlighting. The left pane tree control provides the ability to switch between views and displays the current state of each appliance under management. A single box in the tree control indicates a node at appliance or unit level. Two boxes in the tree control indicates a node at a group level. A global node at the top of the tree control is indicated by a three-box icon. The color of these icons provides useful status information. For detailed information about appliance states, refer to Description of Managed Appliance States - page 46.

**Note:** If there is only one appliance visible in the Left Pane, then the Left Pane will automatically collapse to present a larger screen for the rest of the management interface.

## **Center Pane Overview**



The center pane displays for the three appliance tabs: **Firewalls**, **SSL-VPNs** and **CDPs**. A navigational tree control that provides access to the configuration options available based on navigational tab and left pane selections. At the top of the Center pane there are two sub-tabs, **Policies** and **Reports**. The **Policies** subtab provides policy configuration options for managed appliances. The **Reports** sub-tab provides reporting on the global, group, or appliance level, and is only available for **Firewalls** and **SSL-VPNs**.

The current selection in the center pane is indicated by the highlighted item. For example, the figure to the left displays the current selection **Log** > **Log Settings**.

The center pane options change based on the navigational tab and left pane

selections, and selections in the center pane modify the display in the right pane. For example, the figure in the next section illustrates the contents of the right pane when the global view is selected in the left pane and **System > Status** is selected on the **Policies** tab in the center pane.

## **Right Pane Overview**

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The right pane displays the available status or tasks based on the current selection of navigational tab, left pane and center pane options. Configurations performed in the right pane modify global, group or appliance settings. For example, the right pane image below displays the status and tasks available for the **Policies** navigation tab, left pane selection **GlobalView**, and center pane selection **System > Status**.

Status Information for Global Node: agent	
Firewall	
Firewalls in the System	15
Firewalls that are Not Registered	9
Firewalls with VPN Upgrade	10
Firewalls that support MSSP	0
Firewalls with Global VPN Client Upgrade	2
Management	
Firewalls that are Down	1
Firewalls that are Unacquired	2
Firewalls with Pending Tasks	0
Firewalls managed using	
Existing Tunnel/LAN	6
Management Tunnel	6
HTTPS	3
Firewalls with DHCP Server Enabled	10
Subscription (click here for details)	
Acti Vinue	1
Content Filter List/Service	1
Evtended Warrantu	2
Exterioed warrancy Esteman Apti-Virus	2
Intrusion Drevention Service	1
Inclusion Prevencion Service	1
Firewall Models	
CSM 3200 CF	1

**Description of Managed Appliance States** 

This section describes the meaning of icons that appear next to managed appliances listed in the left pane of the SonicWALL GMS management interface.

Appliance Status	Description
	One blue box indicates that the appliance is operating normally. The appliance is accessible from SonicWALL GMS, and no tasks are pending or scheduled.
Ø	Two blue boxes indicate that appliances in a group are operating normally. All appliances in the group are accessible from SonicWALL GMS and no tasks are pending or scheduled.
Ø	Three blue boxes indicate that all appliances in the global group of this type (Firewall/SSL-VPN/CDP) are operating normally. All appliances of this type are accessible from SonicWALL GMS and no tasks are pending or scheduled.
¢	One blue box with a lightning flash indicates that one or more tasks are pending or running on the appliance.
3	Two blue boxes with a lightning flash indicate that tasks are currently pending or running on one or more appliances within the group.

Page 46 Right Pane Overview

옙	Two blue boxes with a clock indicate that tasks are currently scheduled to execute at a future time on one or more appliances within the group.
œ	One blue box with a clock indicates that one or more tasks are scheduled on the appliance.
	One yellow box indicates that the appliance has been added to SonicWALL GMS management (provisioned), but not yet acquired.
0	Two yellow boxes indicate that one or more appliances in the group have been added to SonicWALL GMS management, but not acquired.
Ø	Three yellow boxes indicate that one or more of the global group of appliances of this type (Firewall/SSL-VPN/CDP) have been added to SonicWALL GMS management, but not acquired.
Ç3	One yellow box with a lightning flash indicates that one or more tasks are pending on the provisioned appliance.
ø	Two yellow boxes with a lightning flash indicates that tasks are pending on one or more provisioned appliances within the group.
	One red box indicates that the appliance is no longer sending heartbeats to SonicWALL GMS.

0	Two red boxes indicate that one or more appliance in the group is no longer sending heartbeats to SonicWALL GMS.
0	Three red boxes indicate that one or more of the global group of appliances of this type (Firewall/ SSL-VPN/CDP) is no longer sending heartbeats to SonicWALL GMS.
ø	Two red boxes with a lightning flash indicate that one or more appliance in the group is no longer sending heartbeats to SonicWALL GMS and has one or more tasks pending.
çâ	One red box with a lightning flash indicates that the appliance is no longer sending heartbeats to SonicWALL GMS and has one or more tasks pending.

Page 48 Description of Managed Appliance States

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### In this Section:

SonicWALL appliances must be running supported firmware to be managed using SonicWALL GMS. For information about configuring other SonicWALL appliances for management, see the *SonicWALL GMS Administrator's Guide*. This section provides instructions for the following example configurations:

- Configuring a SonicWALL NSA 2400 for Management page 50
- Configuring a SonicWALL SSL-VPN 2000 for Management page 54

# Configuring a SonicWALL NSA 2400 for Management

The SonicWALL gateway security (firewall) appliance under management by SonicWALL GMS must be running SonicOS Standard or Enhanced 2.0 or later. To configure a SonicWALL appliance for SonicWALL GMS management, perform the following steps:

- Configuring a SonicWALL NSA 2400 page 50
- Adding a SonicWALL NSA 2400 to SonicWALL GMS page 53

#### Configuring a SonicWALL NSA 2400

To configure a SonicWALL NSA 2400 for SonicWALL GMS management, perform the following steps:

 Log in to your SonicWALL NSA 2400. Navigate to System > Administration. and scroll down to the Advanced Management section.

System     Security Detributed     Status     Lonnee     Support Derives	Ine Satter Darboard ties as iterating sept     Deals Today     Point Today     Point Today Delay: 2003 a meso:     Sutter Today Delay: 2003 n meso:	
Advantation Centification	Text Tooltp: Delay: 500 av manual	
Time	SSIn Planagement Settings	
Schedules	SRIPHT 22	
Padet Centure Disgrantica	Advanced Theragement	
Restart	Duale 2000	
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- 2. Select the **Enable management using GMS** checkbox. Click **Configure**.
- 3. Type the SonicWALL UMA EM5000 host name or IP address in the **GMS Host Name or IP Address** field.

- 4. Type the SonicWALL GMS syslog server port in the GMS Syslog Server Port field. The default port is 514.
- 5. Leave the box next to Send Heartbeat Status Messages Only unchecked, unless you don't want to receive reports for this managed appliance.
- If your SonicWALL UMA EM5000 appliance is directly 6. accessible from the SonicWALL NSA 2400 appliance. leave the checkbox next to GMS behind a NAT Device unchecked. If your SonicWALL UMA EM5000 appliance is not directly accessible from the SonicWALL NSA 2400 appliance, select the **GMS behind NAT Device** checkbox and type the WAN IP address of the gateway device in the NAT Device IP Address field. Refer to the SonicWALL GMS Administrator's Guide for detailed information on configuring your SonicWALL UMA EM5000 behind a NAT device.



**Tip:** If your gateway controller is running in transparent mode, the WAN IP is the same as the LAN IP.

- 7. From the Management Mode drop-down box, select one of the following methods of management: IPSEC Management Tunnel, Existing Tunnel, or HTTPS. For information on selecting a management method, refer to GMS Gateway Recommendations - page 7.
  - If the SonicWALL appliance will be managed through a VPN management tunnel (default), select IPSEC Management Tunnel. The Inbound/Outbound SPI, Encryption Algorithms, Encryption Key, and Authentication Key fields will appear, and each will be populated. Alternatively, you can create your own keys. The Encryption Key must be 16 characters long, and the Authentication Key must be 32 characters long.

**Note:** Record your Encryption Key and Authentication Key. You will need both keys when you add your appliance for management using SonicWALL GMS.

 If the SonicWALL appliance will be managed through an existing tunnel or is on the same network as the SonicWALL UMA EM5000 appliance, select Existing Tunnel. Verify that a tunnel has been created between the SonicWALL UMA EM5000 subnet and the appliance.

GHS Settings			
DPS Hust Name or IP Address:	192.168.94.101	1	
DHS Surviey Fort: (\$14			
Send Heartbeart Status Messages 1	Driv		
GNS behand NAT Device			
NAT Device IP Address:	10.0.94.501		
Mariagement Mode:	Existing Tunnel	*	
Note: The existing established turnel a	d be used.		

 If the SonicWALL appliance will be managed using HTTPS, select HTTPS. If the SonicWALL UMA EM5000 appliance role includes the GMS Reporting service, do not select the Send Syslog Messages to a Distributed GMS Reporting Server checkbox. If you have a distributed SonicWALL GMS deployment with a different Reporting server, select the Send Syslog Messages to a Distributed GMS Reporting Server checkbox and type the IP address and port of the Reporting server into the respective fields.

245 Settings			
245 Hust Name or 19 Address:	192 168 94 101		
QHS Slyslog Server Part:	514		
Send Heartbest Status Hemages Orly			
GMS behind NAT Device			
NAT Device IP Address	10.0.94.101		
Kanagement: Node:	HTTPS	*	
Send Syslog Messages to a Detributed	GHS Reporting Server		
OHS Reporting Server 3F Address:			
GHS Reporting Server Parts	514		

- **Note:** If HTTPS management mode is specified, ensure that the SonicWALL UMA EM5000 can receive syslog data from the managed appliance by allowing traffic over port 514, or a custom port if you specified one, to pass through the firewall in front of the SonicWALL UMA EM5000.
- 8. When you are finished, click OK.

Page 52 Configuring a SonicWALL NSA 2400 for Management

#### Adding a SonicWALL NSA 2400 to SonicWALL GMS

To add your appliance to SonicWALL GMS, perform the following steps:

- 1. Log in to the SonicWALL GMS management interface.
- Expand the SonicWALL GMS tree and select the group to which you will add the SonicWALL appliance. Then, rightclick the group and select Add Unit from the pop-up menu. To add the appliance independently from any group, rightclick an open area in the left pane and select Add Unit. The Add Unit dialog box appears.

🖶 Add Unit		8
Unit Name:	NSA 2400	
Serial Number:	0001A234586	

- 3. Enter a descriptive name for the managed appliance in the **Unit Name** field.
- Enter the managed appliance serial number in the Serial Number field. The serial number can be found in the appliance management interface under System > Status.
- To specify the IP address of the SonicWALL NSA appliance, select the Specify manually radio button for Managed Address, and type the IP address into the field.
- 6. Enter the managed appliance administrator login name in the Login Name field. The default is admin.
- 7. Enter the managed appliance administrator password in the **Password** field.

- Select the radio button next to the management mode that is the same as the mode you selected in the SonicWALL NSA 2400 management interface in Configuring a SonicWALL NSA 2400 - page 50: Select Using Existing Tunnel or LAN, Using Management VPN Tunnel, or Using HTTPS.
  - If you choose **Using Existing Tunnel or LAN**, the HTTP port will be populated with the default value, 80.
  - If you choose Using Management VPN Tunnel, the HTTP port will be populated with the default value, 80. Provide the SA encryption key and SA authentication key in the SA Encryption Key and SA Authentication Key fields. These fields must exactly match the values in the SonicWALL NSA 2400 configuration.
  - If you choose **Using HTTPS**, the **HTTPS Port** field is populated with the default value, 443.
- 9. If a different SonicWALL UMA EM5000 appliance or host server will be the Agent for managing the SonicWALL NSA appliance, select the IP address of that system from the **Agent IP Address** drop-down list.
- 10. If your deployment includes a Standby Agent, select its IP address from the **Standby Agent IP** drop-down list.
- To add this SonicWALL NSA appliance to SonicWALL GMS monitoring, select the Add this unit to Net Monitor checkbox.
- 12. Click **OK**. It may take up to a minute for the data to load.

The new SonicWALL appliance displays in the left pane of the SonicWALL GMS interface as a yellow icon, which means the unit has not been acquired by SonicWALL GMS. After the appliance has been acquired, the icon will either turn red, indicating that the appliance status is down, or blue, indicating that the appliance status is up. You can view the status of the acquisition process in the **System > Status** screen of the managed appliance available in the center pane of the SonicWALL GMS management interface. You will need to refresh the screen by clicking the **Status** link in the center pane. For detailed managed appliance icon descriptions, refer to the table in the *Description of Managed Appliance States* section, on page 46.

It may take up to five minutes for SonicWALL GMS to establish a management VPN tunnel, set up an HTTPS connection, or use the existing site-to-site VPN tunnel to access the managed appliance and acquire it for management. For SonicWALL GMS appliance acquisition troubleshooting, refer to the *SonicWALL GMS Administrator's Guide*.

When the appliance has been acquired, the configuration settings will be displayed at the unit level, and the settings will be saved to the database.

Your SonicWALL NSA 2400 is now ready for management using SonicWALL GMS.

# Configuring a SonicWALL SSL-VPN 2000 for Management

SonicWALL SSL-VPN 2000 appliances must be running SonicOS SSL-VPN 2.0 or higher. To configure a SonicWALL SSL-VPN 2000 for SonicWALL GMS management, perform the following tasks:

- Configuring a SonicWALL SSL-VPN 2000 page 54
- Adding a SonicWALL SSL-VPN 2000 to SonicWALL GMS page 55

#### Configuring a SonicWALL SSL-VPN 2000

- 1. Log in to your SonicWALL SSL-VPN 2000.
- 2. Navigate to System > Administration.
- 3. Under GMS settings, select the **Enable GMS Management** checkbox.

QHS Settings		
E Endle 245 Nangement		
(PIS must here at IP Address:	E	
1945 Soring Server Park.	111	
Humbert Interval (minute)	100	
Send Heartboard Starkar Hereingen	DHy	

- 4. Type the SonicWALL UMA EM5000 host name or IP address in the **GMS Host Name or IP Address** field.
- 5. Type the SonicWALL GMS syslog server port in the **Syslog Server Port** field. The default port is 514.

- Enter the desired interval for sending heartbeats to the SonicWALL GMS server, in seconds, in the Heartbeat Interval (seconds) field. The maximum heartbeat interval is 86400 (24 hours).
- 7. Click Accept.

# Adding a SonicWALL SSL-VPN 2000 to SonicWALL GMS

To add your appliance to the SonicWALL GMS system, perform the following steps:

- 1. Log in to the SonicWALL GMS management interface.
- 2. Click the **SSL-VPN** tab at the top of the management interface.
- Expand the SonicWALL GMS tree and select the group to which you will add the SonicWALL appliance. Then, rightclick the group and select Add Unit from the pop-up menu. To add the appliance independently from any group, rightclick an open area in the left pane and select Add Unit. The Add Unit dialog box appears.

🗄 Add Unit		
Unit Name:	SSL-VPN 2000	
Serial Number:	[	10

- 4. Enter a descriptive name for the SonicWALL SSL-VPN appliance in the **Unit Name** field.
- Enter the SonicWALL SSL-VPN appliance serial number in the Serial Number field. The serial number can be found in the SonicWALL SSL-VPN management interface under System > Status.

- To specify the IP address of the SonicWALL SSL-VPN appliance, select the Specify manually radio button for Managed Address, and type the IP address into the field.
- 7. Enter the SonicWALL SSL-VPN appliance administrator login name in the **Login Name** field.
- 8. Enter the appliance administrator password in the **Password** field.
- 9. The radio button next to **Using HTTPS** is automatically selected.
- 10. If the SonicWALL UMA EM5000 uses a custom HTTPS port number, type it into the **HTTPS Port** field.
- If a different SonicWALL UMA EM5000 appliance or host server will be the Agent for managing the SonicWALL SSL-VPN, type the IP address of that system into the Agent IP Address field.
- 12. If your deployment includes a Standby Agent, type its IP address into the **Standby Agent IP** field.
- To add this SonicWALL SSL-VPN appliance to SonicWALL GMS monitoring, select the Add this unit to Net Monitor checkbox.
- 14. Click OK.

It may take up to a minute for the data to load.

The new SonicWALL SSL-VPN appliance displays in the left pane of the SonicWALL GMS interface as a yellow icon, which means the unit has not been acquired by SonicWALL GMS. After the appliance has been acquired, the icon will either turn red, indicating that the appliance status is down, or blue, indicating that the appliance status is up. You can view the status of the acquisition process in the **System > Status** screen of the managed appliance available in the center pane of the SonicWALL GMS management interface. You will need to refresh the screen by clicking the **Status** link in the center pane. For detailed appliance icon descriptions, refer to the table in the *Description of Managed Appliance States* section, on page 46.

It may take up to five minutes for SonicWALL GMS to establish an HTTPS connection and acquire the appliance for management. For SonicWALL GMS appliance acquisition troubleshooting, refer to the *SonicWALL GMS Administrator's Guide.* 

Your SonicWALL SSL-VPN appliance is now ready for management using SonicWALL GMS.

# Reporting 7

## In This Section:

This section contains information about SonicWALL Universal Management reporting.

- Overview of SonicWALL GMS Reporting page 58
- Using the SonicWALL GMS Summarize Now Feature page 61

## **Overview of SonicWALL GMS Reporting**

SonicWALL GMS reporting complements SonicWALL GMS monitoring and other SonicWALL Internet security offerings by providing detailed and comprehensive reports of network activity. SonicWALL GMS reporting allows you to review network access, enhance security, and anticipate future bandwidth needs. SonicWALL GMS reporting is available for appliances on the **Firewall** and **SSL-VPN** tabs, using the **Reports** tab in the center pane of the SonicWALL GMS management interface.

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	Survey of the second	Over Time Last 14 Days	Tracilinana Borbari
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	* Services	4004	ReLign OT 4fts
	* Web Daspr	5000	WWICEYDOOR 3.94
	* Web Filter	4000	Ages ETA 1-PA
	+ FTP Usage	2000	30d104/1 0.7%
	* Hall Usage	pm 6.0-9	NEEKU 2/%
	* VPR Linepe	100 0000	8493.A2 1.2%
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Page 58 Overview of SonicWALL GMS Reporting

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The SonicWALL GMS reporting feature receives its information from the stream of syslog data sent by each SonicWALL appliance, processes the data, and stores it. SonicWALL GMS Reporting can be enabled or disabled. The SonicWALL GMS reporting module provides the following information:

- Custom reports on Internet activity
- Bandwidth use by IP address and service
- Inappropriate Web usage
- Detailed reports of attacks
- System and network errors
- VPN events and problems
- Web usage
- Firewall event logs

The SonicWALL GMS reporting feature provides the following configurable reports:

Dashboard	A high-level activity summary of bandwidth, uptime, intrusions, attacks, and alerts for managed SonicWALL UTM appliances.
Custom Report	Granular details from raw syslog data using your customized filtering. Can provide date and time down to the second of all Internet activity passing through a monitored SonicWALL security appliance.

Status	The number of hours that managed SonicWALL appliances were online and functional during the time period.
Bandwidth	The amount of data transferred through selected managed appliances, including the cost of consumed network bandwidth per 100 MB transferred.
Services*	The amount of data transmitted through the selected appliance by each service protocol. *Services reporting is only available at the unit level.
Web Usage	Web bandwidth usage per appliance over time, top Web bandwidth users, most visited sites, and amount of time consumed browsing the Internet through the selected appliances.
Web Filter	The number of attempts that users made to access blocked Web sites through the selected appliances, the users that most frequently attempt to access blocked sites, and the most popular blocked sites.

FTP Usage	The amount of FTP usage that occurs through the selected appliances.
Mail Usage	The amount of mail usage that occurs through the selected SonicWALL appliances.
VPN Usage	The amount of VPN usage that occurs through the selected SonicWALL appliances.
Attacks	The number of attacks that were directed at or through the selected appliances, including denial of service attacks, intrusions, probes, and other malicious activity directed at the appliance or computers on the LAN or DMZ.
Virus Attacks	The number of virus attacks that were directed at or through the selected appliances. The selected appliances must be licensed for SonicWALL Gateway Anti-Virus.

Anti-Spyware	The number of spyware attacks that were directed at or through the selected appliances. The selected appliances must be licensed for SonicWALL Anti-Spyware.
Intrusion Prevention	The number of attempted intrusions that were directed at or through the selected appliances. The selected appliances must be licensed for SonicWALL Intrusion Prevention Service.
Authentication*	The successful and failed login attempts for users and administrators. *Authentication reports are available at the unit level.

# Using the SonicWALL GMS Summarize Now Feature

The Summarize Now feature allows the administrator to force the summarizer to process all data received since the last summarization. This can be done in order to display report data that has not yet been processed.

The SonicWALL GMS Summarize Now feature is located in the **Console** tab under **Reports > Summarizer**. The SonicWALL GMS Summarizer creates summary reports by default every 8 hours. Summary reports can be configured by the administrator to occur every 1 to every 24 hours. For more information about the Summarizer feature of SonicWALL GMS, refer to the *SonicWALL GMS Administrator's Guide*.

To use the Summarize Now feature, perform the following steps:

- 1. Click the **Console** tab at the top of the screen.
- 2. In the left pane, navigate to **Reports > Summarizer** and click **Summarize Now**.



3. You will see a pop-up window verifying that you want to summarize the data now. Summarizing data using Summarize Now is a one-time action and will not affect the scheduled summary. Click **OK** to continue.



- Navigate to Log > View Logs. Search for the message Report Data Summarized to verify that the Summarize Now action has completed.
- 5. When Summarize Now has completed, navigate to the **Firewall** or **SSL-VPN** tab at the top of the screen. In the left-most pane, click **GlobalView** or click a managed appliance.
- 6. Click the **Reports** tab in the center pane.



- **lert:** You may see incomplete data if you view the Summary section of a selected report before the Summarize Now process is complete. Wait for the **Report Data Summarized** message to be displayed in **Log** > View Logs.
- 7. In the center pane, click a report to expand it, then click the **Summary** option underneath it. For example, click **Bandwidth**, then click **Summary** to review the summarized bandwidth usage data. Navigate to the Summary section of other reports in the center pane to see other summarized data.



# Monitoring 8

## In this Section:

This section contains information about SonicWALL Universal Management monitoring.

- Overview of SonicWALL GMS Monitoring page 64
- Monitoring a SonicWALL NSA 2400 Using SNMP page 65
- Monitoring an FTP Server Using Ping page 71

### **Overview of SonicWALL GMS Monitoring**

The SonicWALL GMS monitoring feature is used for real-time monitoring of SonicWALL appliances, VPN tunnels, network devices, and syslog information. Monitoring critical network events and activity, such as security threats, inappropriate Web use, and bandwidth levels, is an essential component of network security. SonicWALL GMS can monitor WAN traffic using physical and logical monitoring, enabling it to detect physical issues, for example, if a link is unplugged or disconnected, and higher level traffic, for example, upstream connectivity interruptions. The SonicWALL GMS monitoring feature is accessible using the **Monitor** tab at the top of the management interface.

	Net Monitor Uter: administrationam   Administration
Tools GMS Navigation VPN Monitor	You are licensed to Net Monitor 148 Network Devices and Applications.
Net Monitor	😧 🖩 🔲 🕑 Obah Views: 🖓 Devices ?Ativating ?Att OPs Career
Real-Tine Syslog	Devices [Total:19 Up:19 Dovn:0 Other:0] (Donan palad to view: LocaDonan)
	High Priority [Total:11 Up:11 Down:0 Others:0]
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	Low Priority [fotal:2 Up:2 Down/D Others:0]

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The SonicWALL monitoring feature provides the following configurable monitors:

GMS Navigation	Provides a detailed, graphical map of the SonicWALL GMS security management deployment, including the GMS database, GMS console, GMS agents, remotely managed SonicWALL appliances and the primary and back-up management tunnels.
VPN Monitor	Provides a graphical view of the interconnected VPN tunnels within an organization, and displays VPN tunnel up and down status.
Net Monitor	Provides TCP/IP device status and provides SNMP-based detailed statistics.
Real-Time Syslog	Provides real-time syslog data monitoring.

# Monitoring a SonicWALL NSA 2400 Using SNMP

SonicWALL GMS can monitor Simple Network Management Protocol (SNMP)-capable SonicWALL and non-SonicWALL devices.

To monitor a SonicWALL NSA 2400 using SNMP, perform the following steps:

- 1. Add the appliance to SonicWALL GMS management by following the procedure in Configuring a SonicWALL NSA 2400 for Management page 50.
- 2. Perform the steps described in Enabling SNMP on the Target Appliance page 66.
- 3. Perform the steps described in Enabling SNMP Monitoring in SonicWALL GMS page 67.

**Note:** SNMP must be able to reach the target appliance. For detailed information about monitoring appliances with SNMP, refer to the **SonicWALL GMS Administrator's Guide**.

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#### Enabling SNMP on the Target Appliance

- 1. Log in to the SonicWALL NSA 2400.
- 2. Navigate to **System > Administration** and select the **Enable SNMP** checkbox.

Advanced Management	
Enable SNMP	Configure
Enable management using GMS	Configure

SNMP is now configured.

**Note:** If a SonicWALL appliance is already under SonicWALL GMS management, you can select the **Enable SNMP** checkbox and not provide the host information in the SNMP Settings page displayed by clicking **Configure**.

 To configure custom SNMP settings, click the Configure button next to Enable SNMP. Custom settings are optional. To use the default settings, do not click Configure.

SONICWALL	Network Security Appliance	
5hPIP Settings		
System Name:	10.0.93.34	
System Contact:	Barack Obama	
System Location:	bobama@whitehouse.gov	

- 4. Type the host name of the SonicWALL security appliance in the **System Name** field
- 5. Type the network administrator's name in the **System Contact** field.
- 6. Type an email address, telephone number, or pager number in the **System Location** field.
- 7. Type a name for a group or community of administrators who can view SNMP data in the **Get Community Name** field.
- 8. Click **OK**. It is not necessary to fill in the **Host** fields when SonicWALL GMS management is enabled.



**Note:** For information about advanced SNMP configuration, including SNMP trap settings, refer to the **SonicWALL GMS Administrator's Guide**.

#### Enabling SNMP Monitoring in SonicWALL GMS



**Tip:** You can also add appliances to Net Monitor when you add the appliance by clicking the checkbox next to **Add this unit to Net Monitor**. Alternatively, if an appliance is already added to SonicWALL GMS, you can right click the appliance and select **Add to Net Monitor**.

To add an appliance that will use SNMP monitoring in SonicWALL GMS, perform the following steps:

- 1. Log in to the SonicWALL GMS management interface.
- 2. Click the **Monitor** tab at the top of the page and navigate to **Tools > Net Monitor**.

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3. Click the Add button 🔂 and select Add GMS Device.

The Add GMS Device Wizard displays.

🖶 Add GMS Device Wizard	
News: Management	*
A Devices by Views	Selected GMS Devices
Management : Disting Tunnel/LAN     Management : Disting Tunnel/LAN     Management : HTTPS     Sove 80     T2 100 Standard     T2 100 Standard     T2 100 Standard     T2 100 Second     PRO 4000     PRO 4000	Planagement       4
Trevents & SSL-VPNs C CDPs	
(frite)	El Manuel

4. In the **All Devices by Views** column, select the Sonicwall appliance and click the right arrow to add the device to the **Selected GMS Devices** column.

ews: Management	
Devices by Yees Management: Disting Tunnel/LAN To NA 5500 - 04% Gateway - DO NOT EDIT Management: HTTPS To Save ao To T2 170 STD To T2 170 STD To T2 100 Sandard To T2 100 Sandard To T2 100 Sandard To T2 59 DM	Selected GPS Devices Management : Management Tunnel N(54.240)
Tressults & SSL-197% & CDPs	Neit 20Carol

5. Click Next. The Add GMS Device Wizard Monitor Information page displays.

Add a New Category:	
Use an Existing Category:	Devices •
Cabegory Priority:	High •
Monitoring Type:	TCP Probe
Polling Interval (in secs.):	60
Ideal Response Time (in meecs):	[0 = use defaults]
Missed Probes Threshold:	1
Assign to Monitor:	Net Monitor at 192.168.94.101 [192.168.94.101]
Disable:	
Old to startly an image inter-	

6. Select the **Add a New Category** radio button and type in a category name, for example, **Firewalls**.

In Add GWS Device Wizard Montor Information		
Add a New Category:	Frewals	
Use an Existing Category:	Devens	*
Category Priority:	High +	
Monitoring Type:	SNMP +	
Monitor Port:	163	
Configure SMIP settings:	Advanced	
Poling Interval (in secs.):	60	
Ideal Response Time (In resect.):	1000	[0 - use defaults]
Missed Probes Threshold:	1	
Assign to Monitor:	Net Monitor at 192.1	68.94,101 [192.168.94.101] +
Disable:		
Click to specify an image icon:	8	
d Previous	Tireh	MCarvel

- Select the priority of the SonicWALL appliance(s) from the Category Priority list box, either High, Medium, or Low.
- 8. From the **Monitoring Type** drop-down, select **SNMP**. Enter a **Monitor Port**. The default monitor port is 161.

9. Click the **Advanced** button to configure the following SNMP fields:

		-
Community:	*****	
Retry:	0	
Timeout:	5	
SNMP Version:	⊖v1 @v2c ⊖v3	
MID(s):	RFC1213-MIB	•
	SNMP-COMMUNITY.MIB	
	sonic_stats.mib	
User Name:	[	
Authentication Protocol:	SHA	17
Authentication Password:	[	
Privacy Password:		
Context ID:		
Context Name:		

Community	Enter the community name.
Retry	Enter the time to retry, in seconds.
Timeout	Enter the timeout length, in seconds.
SNMP Version	Select the version of SNMP to be used, either v1, v2c, or v3.
----------------------------	--
MIB(s)	Select the MIB(s) you wish to use for polling information.
User Name	Enter a user name (for SNMP v3 only).
Authentication Protocol	Select an authentication protocol form the pull-down menu, either SHA or MD5 (SNMP v3 only).
Authentication Password	Enter an authentication password (SNMP v3 only).
Privacy Password	Enter a privacy password (SNMP v3 only).
Context ID	Enter a context ID (SNMP v3 only).
Context Name	Enter a context name (SNMP v3 only).

- 10. Press the **OK** button to save the SNMP advanced settings.
- 11. Specify how often, in seconds, the appliance will be tested in the **Polling interval (in secs.)** field. The default polling interval is 60 seconds.

12. Specify the ideal response time of the appliance, in milliseconds, in the **Ideal Response Time (in msecs.)** field. The default ideal response time is 1,000 msecs.



- **Note:** Appliances that take between 1 and 1.5 times the ideal response time will be labeled **slow**, and appliances that take between 1.5 and 2 times the ideal response time will be labeled **very slow**.
- Specify the number of missed probes allowed in the Missed Probes Threshold field. The default number of missed probes allowed is 1.
- 14. Select the agent that will perform the monitoring from the **Assign to Monitor** drop-down menu.
- 15. Do not check the **Disable** checkbox unless you want to disable monitoring for this appliance.
- To optionally change the icon image that will represent the appliance, click the button next to Click to specify an image icon and choose an image. Click OK.
- 17. Click Finish.
- 18. When your appliance has been added, a confirmation popup will display. Click **OK**.
- Click the button of the category you created, for example, Firewalls. Your appliance will appear under the priority level you assigned to the appliance.

## **Monitoring an FTP Server Using Ping**

To monitor an FTP server using Ping, add the appliance to SonicWALL GMS, then perform the following tasks:

- 1. Click the **Monitor** tab at the top of the screen.
- 2. In the center pane, navigate to **Tools > Net Monitor**.



3. Click the Add button 🕂 and select Add Non-GMS

#### Device. The Add Non-GMS Device Wizard displays.

Device Information		
Add Specific	Add by IP Range	
ane:		
est:		
	Add	Taron

- 4. Select the radio button next to **Add Specific** to add by the FTP server using its name and host.
- 5. Type the FTP server name in the **Name** field and the FTP server IP address or host name in the **Host** field. Click **Add**.
- 6. Highlight the device in the right-hand window.

7. Click Next. The Add Non-GMS Device Wizard Monitor Information page displays.

Add Non-GWS Device Wizard		×
Monitor Information	10	
Add a New Category:		
Use an Existing Category:	Devices -	
Category Priority:	High 💌	
Monitoring Type:	Ping •	
Poling Interval (in secs.):	60	
Ideal Response Time (in msecs.):	[500 [0 = use defaults]	
Missed Probes Threshold:	1	
Assign to Monitor:	Net Monitor at 192.168.94.101 [192.168.94.101]	
Disable:		
Click to specify an image icon:		
< Previous	White Cancel	

- 8. Select the radio button next to **Add a New Category** and type in a category name, for example, **FTP**.
- 9. Select the priority of the FTP server from the **Category Priority** list box, either **High**, **Medium**, or **Low**.
- 10. From the Monitoring Type drop-down, select Ping.
- 11. Specify how often, in seconds, the FTP server will be tested in the **Polling interval (in secs.)** field. The default polling interval is 60 seconds.
- 12. Specify the ideal response time of the FTP server, in milliseconds, in the **Ideal Response Time (in msecs.)** field. The default ideal response time is 500 msecs.



- **Note:** Appliances that take between 1 and 1.5 times the ideal response time will be labeled **slow**, and appliances that take between 1.5 and 2 times the ideal response time will be labeled **very slow**.
- Specify the number of missed probes allowed in the Missed Probes Threshold field. The default number of missed probes allowed is 1.
- 14. Select the agent that will perform the monitoring from the **Assign to Monitor** drop-down menu.
- 15. Do not check the **Disable** checkbox unless you want to disable monitoring for this appliance.
- To optionally change the icon image that will represent the FTP server, click the button next to Click to specify an image icon and choose an image. Click OK.
- 17. Click Finish.
- 18. When your appliance has been added, a confirmation popup will display. Click **OK**.



 Click the button of the category you created, for example, FTP. Your appliance will appear under the priority level you assigned to the appliance.

# Front Panel LCD Controls 9

#### In this Section:

This section provides information about using the LCD controls on the front panel of the SonicWALL UMA EM5000.

- Front Panel Control Features page 74
- Using the Main Menu page 74
- About the Status Menu page 75
- Using the Configure Menu page 75
- Using the Restart Option page 76
- Using the Shutdown Option page 76

## **Front Panel Control Features**

The SonicWALL UMA EM5000 appliance is equipped with a front panel interface that allows an administrator to customize certain aspects of the appliance or simply monitor its status without having to log into it through a separate terminal.



By default, the LCD display cycles through the Status values in screen-saver mode. The display returns to screen-saver mode after 6 seconds of no activity on the 4-way D-pad or after pressing the **Left** button from the Main Menu.

## **Using the Main Menu**

Upon booting, the LCD display will initially show the Main Menu. The menu is made up of four options:

Status	×	Contains basic status values including system resources, connections, and port configuration values.
Configure	×	Allows configuration of basic LAN port settings. Requires system pin for access, default: <b>76642</b> .
Restart	Ņ	Allows the appliance to be restarted.
Shutdown	Å	Allows the appliance to be shut down and powered off.

The Status and Configure options are menus that contain multiple selections. The Restart and Shutdown options provide confirmation screens when selected.

Use the **Up** and **Down** buttons to navigate to the option or menu that you wish to enter. Click the **Right** button to select the option or enter the menu and view its selections.

## **About the Status Menu**

The Status menu allows you to view specific aspects of the appliance. The LCD cycles through the Status list by default when no other menu is in use. You can also navigate the list using the **Up** and **Down** buttons. Status values in the list include the following:

- Appliance name
- Software version
- Date
- Time
- Uptime
- Management URL
- Interface eth0 IP (default LAN)
- Interface eth0 subnet mask

## **Using the Configure Menu**

The Configure menu allows you to configure specific aspects of the appliance. When the Configure menu is selected, the LCD will display a PIN request.



**Note:** The Default PIN is **76642**. This number spells SONIC on a phone keypad.

All numbers are entered using the 4 buttons on the D-pad.

To enter the PIN, use the buttons as follows:

- 1. Select the desired number using the **Up** and **Down** buttons. Digits increase incrementally from 0 to 9.
- 2. To move to the next digit field, press the **Right** button.
- 3. To move back to a previous digit field, press the Left button.
- 4. When you are finished entering the PIN, press the **Right** button to confirm your PIN and enter the Configure Menu.

The appliance allows the user to navigate in and out of the Configure menu without having to re-enter the PIN. However, once the appliance enters screen-saver mode, whether from the 6 second time out or from pressing the **Left** button while in the Main Menu, the PIN number must be re-entered to access the Configure menu.

After entering a new value for a setting in the Configure menu, you are asked if you want to commit changes. Using the 4-way D-pad, press the **Right** button for yes or the **Left** button for no.

Commit Changes? <-No Yes->

If you choose yes, the screen notifies you that the settings are updated.

Settings updated

## **Using the Restart Option**

When you select **Restart** from the Main Menu, you are asked to confirm the appliance restart. Press the **Right** button for yes or the **Left** button for no.



### **Using the Shutdown Option**

When you select **Shutdown** from the Main Menu, you are asked to confirm the appliance shutdown. Press the **Right** button for yes or the **Left** button for no.

Shutdown?	
<-No	Yes->

# Support and Training Options 10

#### In this Section:

This section provides SonicWALL support and training information.

- Customer Support page 78
- Knowledge Portal page 78
- SonicWALL Live Product Demos page 79
- User Forums page 80
- Training page 81
- Related Technical Documentation page 82
- SonicWALL Secure Wireless Network Integrated Solutions Guide page 83

SonicWALL UMA EM5000 Getting Started Guide Page 77

## **Customer Support**

SonicWALL offers Web-based and telephone support to customers who have a valid Warranty or who purchased a Support Contract. Please review our Warranty Support Policy for product coverage. SonicWALL also offers a full range of consulting services to meet your needs, from our innovative implementation services to traditional statement of work-based services.

#### For further information, visit: http://www.sonicwall.com/us/support/contact.html



## **Knowledge Portal**

The Knowledge Portal allows users to search for SonicWALL documents based on the following types of search tools:

- Browse
- Search for keywords
- Full-text search

For further information, navigate to the **Support** > **Knowledge Portal** page at: http://www.mysonicwall.com/

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## **SonicWALL Live Product Demos**

The SonicWALL Live Demo Site provides free test drives of SonicWALL security products and services through interactive live product installations:

- SonicWALL GMS and ViewPoint
- Unified Threat Management Platform
- Secure Cellular Wireless
- Continuous Data Protection
- SSL VPN Secure Remote Access
- Content Filtering
- Secure Wireless Solutions
- Email Security

# For further information, visit: http://livedemo.sonicwall.com/



### **User Forums**

The SonicWALL User Forums is a resource that provides users the ability to communicate and discuss a variety of security and appliance subject matters. In this forum, the following categories are available for users:

- Content Security Manager topics
- Continuous Data Protection topics
- Email Security topics
- Firewall topics
- Network Anti-Virus topics
- Security Services and Content Filtering topics
- SonicWALL GMS and Viewpoint topics
- SonicPoint and Wireless topics
- SSL VPN topics
- SonicWALL TZ 210 / Wireless WAN 3G Capability topics
- VPN Client topics
- VPN site-to-site and interoperability topics

# For further information, visit: https://forum.sonicwall.com/

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## Training

SonicWALL offers an extensive sales and technical training curriculum for Network Administrators, Security Experts and SonicWALL Medallion Partners who need to enhance their knowledge and maximize their investment in SonicWALL Products and Security Applications. SonicWALL Training provides the following resources for its customers:

- E-Training
- Instructor-Led Training
- Custom Training
- Technical Certification
- Authorized Training Partners

#### For further information, visit: http://www.sonicwall.com/us/training.html



## **Related Technical Documentation**

SonicWALL user guide reference documentation is available at the SonicWALL Technical Documentation Online Library: http://www.sonicwall.com/us/Support.html

The SonicWALL Universal Management Appliance documentation set includes the following reference guides:

- SonicWALL UMA EM5000 Getting Started Guide
- SonicWALL GMS Release Notes
- SonicWALL GMS Administrator's Guide
- Stand-alone SonicWALL GMS feature module guides:
  - SonicToday
  - Custom Reports
  - Enhanced User Management
  - Third Party Authentication
  - Installing MySQL
  - Granular Event Management
  - SonicOS SSL-VPN Reporting & Enhancements
  - SonicWALL CDP Appliance Management
  - SonicWALL SMB SSL-VPN Appliance Management
  - SonicWALL Aventail EX-Series Appliance
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For more advanced deployment examples or interoperability solutions, refer to SonicWALL deployment technotes.

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### SonicWALL Secure Wireless Network Integrated Solutions Guide

The Official Guide to SonicWALL's market-leading wireless networking and security devices.





SYNGRESS"

- Official public from Sonic/WALL
- Witten by SonicWALL engineers and documentation specialists
- Appropriate for all audiences, from the small proprietor to the erderceine IT specialist
- A complete reference to plan, design, emplement, and optimize a secure weekse network with SoneWALL's extensive weekses product offerings

Joe Levy Khai Tran Patrick Lydon Jeremy Pollock Dave Parry Susan Weigand with Zhong Chen, Hang Ha. John Genander Max Maxing

This 512 page book is available in hardcopy. Order the book directly from Elsevier Publishing at:

http://www.sonicwall.com/us/products/resources/11427.html

#### Use SonicWALL wireless solutions to deploy secure wireless networks of any shape or size!

#### Do Wireless. Securely.

Nearly forty percent of the world's 1 billion+ Internet users are wireless. It's a truly staggering fact to think that the majority of these wireless implementations are fundamentally insecure, looving usors and private data at risk.

Many wholess network proprietors think that the convenience of wireless outweighs the possible risk of an insecure implementation, or that secure wireless is far too complicated to worry about doploving.

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Throughout this book, the engineers and documentation authors at SonkWALL prove the opposite is true. Wreless networks can be made as secure as wired networks, and deploying this type of security can be far less complicated than you think. In this book, and through their massive product offerings, SonicWALL gives you (the secure wireless network hopeful) all of the planning, design, implementation, and optimizing tools you need to do wireless. Securely,

#### SonicWALL's Three Phases for a Secure Wireless Network

Using a comprehensive approach to security, SonicWALL guides you through a complete integrated solution for a secure wireless network using a three phase approach.



SonicWALL UMA EM5000 Getting Started Guide Page 83

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Page 84 SonicWALL Secure Wireless Network Integrated Solutions Guide

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## Product Safety and Regulatory Information 11

#### In this Section:

This section provides safety, regulatory, trademark, and copyright information.

- Mounting the SonicWALL UMA EM5000 page 86
- Montage-Anweisungen auf Deutsch page 86
- Replacing a Single Hard Drive page 87
- Safety and Regulatory Information page 89
- FCC Part 15 Class A Notice page 90
- Lithium Battery Warning page 92
- Gesetzlich und Sicherheits Anweisungen auf Deutsch page 92
- Copyright Notice page 93
- Trademarks page 93

## Mounting the SonicWALL UMA EM5000

When mounting your SonicWALL UMA EM5000:

- Use the mounting hardware recommended by the rack manufacturer and ensure that the rack is adequate for the application.
- Four mounting screws, compatible with the rack design, must be used and hand tightened to ensure secure installation. Choose a mounting location where all four mounting holes line up with those of the mounting bars of the 19-inch rack mount cabinet.
- 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.
- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum recommended ambient temperature shown above.
- Mount the SonicWALL appliances evenly in the rack in order to prevent a hazardous condition caused by uneven mechanical loading.
- Consideration must be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcorrect protection and supply wiring. Appropriate consideration of equipment nameplate ratings must be used when addressing this concern.
- Reliable grounding of rack-mounted equipment must be maintained. Particular attention must be given to power supply connections other than direct connections to the branch circuits, such as power strips.
- The power cord must be removed to disconnect power.

#### Montage-Anweisungen auf Deutsch

Weitere Hinweise zur Montage der Modell:

- Vergewissern Sie sich, dass das Rack f
  ür dieses Ger
  ät geeignet ist und verwenden Sie das vom Rack-Hersteller empfohlene Montagezubeh
  ör.
- Verwenden Sie für eine sichere Montage vier passende Befestigungsschrauben, und ziehen Sie diese mit der Hand an.
- 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.
- Achten Sie darauf, das sich die Netzwerkkabel nicht in der unmittelbaren Nähe von Stromleitungen, Leuchtstoffröhren und Störquellen wie Funksendern oder Breitbandverstärkern befinden.
- Das beigefügte Netzkabel ist nur für den Gebrauch in Nordamerikas Vorgesehen. Für Kunden in der Europaïschen Union (EU) ist ein Netzkabel nicht im Lieferumfang enthalten.
- 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.
- Wenn das Gerät in einem geschlossenen 19"-Gehäuse oder mit mehreren anderen Geräten eingesetzt ist, wird die Temperatur in der Gehäuse höher sein als die Umgebungstemperatur. Achten Sie daraf, daß die Umgebungstemperatur nicht mehr als 40° C beträgt.
- Bringen Sie die SonicWALL waagerecht im Rack an, um mögliche Gefahren durch ungleiche mechanische Belastung zu vermeiden.
- Prüfen Sie den Anschluss des Geräts an die Stromversorgung, damit der Überstromschutz sowie die elektrische Leitung nicht von einer eventuellen Überlastung der Stromversorgung beeinflusst werden. Prüfen Sie dabei sorgfältig die Angaben auf dem Aufkleber des Geräts.
- 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.
- Das Netzanschlusskabel muss entfernt werden, um Energie zu trennen.

#### Page 86 Mounting the SonicWALL UMA EM5000

## **Replacing a Single Hard Drive**

You can order a replacement hard drive from SonicWALL for your SonicWALL UMA EM5000. The 750GB replacement hard drive can be inserted into any drive slot on your SonicWALL UMA EM5000. You can insert the drive while the appliance is powered on.

The front bezel on the SonicWALL UMA EM5000 covers the drive slots. The bezel can be unlocked with the front bezel security key supplied with the appliance.

#### **Removing the Defective Hard Drive**

To remove the defective drive from the SonicWALL UMA EM5000, perform the following steps:

- 1. On your SonicWALL UMA EM5000, use the front bezel key to unlock the front bezel, then remove the front bezel to expose the hard drive array.
- 2. In the appliance Web interface, navigate to the **System > RAID** page.

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The defective drive is indicated by a drive status box displaying a status such as:

- UNKNOWN
- NOT SUPPORTED
- NOT PRESENT

You might see a different status than those listed, depending on the condition of the drive as interpreted by the RAID controller.

3. On the appliance, press the square button on the right side of the defective drive to pop out the drive handle.



**Warning:** Be careful to remove only the defective drive from the drive array while the appliance is powered on. Removing more than one drive from an active array will cause loss of data.

- 4. Grasp the drive handle and pull the drive straight out to remove it from the slot.
- 5. Click **Refresh** on the System > RAID page and confirm that the status of the correct (defective) drive is the only change. The status should be NOT PRESENT.

If you removed the wrong drive, reinsert it and allow the RAID controller to rebuild the array before proceeding.

See Inserting the Replacement Drive into the SonicWALL UMA EM5000 - page 88.

# Inserting the Replacement Drive into the SonicWALL UMA EM5000



**Warning:** Do not insert anything other than the SonicWALL approved hard drive into the SonicWALL UMA EM5000.

To view the hard drive array and insert the replacement drive into the SonicWALL UMA EM5000, perform the following steps:

- 1. Remove the hard drive and the drive number stickers from the replacement drive shipping carton.
- 2. Depending on which drive you are replacing, apply the appropriate sticker to the drive handle. While holding the drive with the label side up, place the sticker near the edge of the handle next to the square button.
- 3. In the appliance Web interface, navigate to the **System > RAID** page.
- 4. Pop open the drive handle on the new hard drive by pressing the square button.
- 5. Insert the drive into the empty slot, label side up with the handle sticking out.
- 6. Press the drive firmly into place to seat the connectors, and then close the handle.

 Click Refresh on the System > RAID page. You will see the drive slot status change to DEGRADED, and the Array Status change to REBUILD-PAUSED.

The **DEGRADED** drive status indicates that the RAID controller senses that data is missing from the drive. The **Array Status** will change to **REBUILDING** within a few minutes.

- You may continue to use your SonicWALL UMA EM5000 while the RAID controller rebuilds the array with the new drive. The rebuilding process requires at least three hours. When finished rebuilding, the status for both the drive and the array changes to **OK** on the System > RAID page.
- Re-install the front bezel, being sure to properly line up the LCD connectors. The best practice is to align and seat the right side of the bezel (as you are facing the front of the SonicWALL UMA EM5000), then view the connectors from above as you carefully press the left side of the bezel into place.
- 10. Lock the bezel with the front bezel security key.

### **Safety and Regulatory Information**

Regulatory Model/Type	Product Name
1RK19-066	UMA EM5000

#### **Unauthorized Ports**

Do not plug devices into any ports (other than those indicated) unless explicitly instructed to do so by a SonicWALL technical support representative. Doing so may void your warranty.



## FCC Part 15 Class A Notice

This equipment was tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. And if not installed and used in accordance with the instruction manual, the device may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user is required to correct the interference at his own expense.

#### Notice About Modifying Equipment

**Caution:** Modifying this equipment or using this equipment for purposes not shown in this manual without the written consent of SonicWALL, Inc. could void the user's authority to operate this equipment.

#### **BMSI Statement**

警告使用者: 這是甲類的資訊產品,在居住的環境中使用時, 可能會造成射頻干擾,在這種情況下,使用者會 被要求採取某些適當的對策。

#### **VCCI Statement**

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用する と電波妨害を引き起こすことがあります。この場合には使用者が適切な対策 を講ずるよう要求されることがあります。 VCCI-A

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

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

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

#### CISPR 22 (EN 55022) Class A

Complies with EN 55022 Class A and CISPR22 Class A. This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

#### Declaration of Conformity

Application of council Directive 2004/108/EC (EMC) and 2006/95/ EC (LVD)

EN 55022 (2006) Class A

EN 55024 (1998) +A2 EN 61000-3-2 (2006)

Standards to which conformity is declared

EN 61000-3-3 (1995) + A2 EN 60950-1 (2001) +A11 National Deviations: AR, AT, AU, BE, CA, CH, CN, CZ, DE, DK, FI, FR, GB, GR, HU, IL, IN, IT, JP, KE, KR, MY, NL, NO, PL,

SE, SG, SI, SK, US

**Regulatory Information for Korea** 



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.

#### A급 기기 (업무용 정보통신기기)

이 기기는 업무용으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며, 만약 잘못판매 또는 구입하였을 때에는 가정용으로 교환하시기 바랍니다.

## **Lithium Battery Warning**

The Lithium Battery used in the SonicWALL Internet security appliance may not be replaced by the user. The SonicWALL must be returned 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 Internet security appliance must be disposed of, do so following the battery manufacturer's instructions.

#### **Cable Connections**

All Ethernet 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.

## **Gesetzlich und Sicherheits Anweisungen auf Deutsch**

#### 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-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.

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