Global Management System (GMS) Virtual Appliance 6.0 Getting Started Guide





## SonicWALL GMS Virtual Appliance 6.0 Getting Started Guide

This *Getting Started Guide* contains installation procedures and configuration guidelines for deploying the SonicWALL GMS Virtual Appliance on a server on your network. The SonicWALL GMS Virtual Appliance is a virtual machine that runs SonicWALL GMS, 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 GMS Virtual Appliance provides the following benefits:

- Cost savings:
  - Multiple virtual machines can run on a single server, reducing hardware costs, power consumption, and maintenance costs.
  - Microsoft Windows OS is not required, eliminating the cost of the Windows licensing.
- Operational ease:
  - In a virtual environment, it is easy to commission new servers or decommission old ones, or to bring servers up or down.
  - Installation is accomplished by importing a file into the virtual environment, with no need to run an installer.
- Easy reallocation of resources:
  - In a virtual environment, you can easily relocate virtual machines to a datastore with more free hard disk space.
  - On a physical server, you must open up the hardware to install more resources.
- Security:
  - SonicWALL GMS Virtual Appliance provides the same hardened operating system that comes with the SonicWALL UMA EM5000 appliance.

Note: For SonicWALL GMS documentation, refer to the SonicWALL GMS 6.0 Administrator's Guide. This and other documentation are available at: http://www.sonicwall.com/us/Support.html

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# Before You Begin

This section contains the following subsections:

- "Supported Platforms" on page 3
- "Hardware Resource Requirements" on page 3
- "Files for Installation" on page 4

#### **Supported Platforms**

The elements of basic VMware structure must be implemented prior to deploying the SonicWALL GMS Virtual Appliance. SonicWALL GMS Virtual Appliance runs on the following VMware platforms:

- ESXi 4.0 Update 1 (Build 208167 and newer)
- ESX 4.0 Update 1 (Build 208167 and newer)

You can use the following client applications to import the image and configure the virtual settings:

- VMware vSphere Provides infrastructure and application services in a graphical user interface for ESX/ESXi, included with ESX/ESXi. Allows you to specify Thin or Thick (Flat) provisioning when deploying SonicWALL GMS Virtual Appliance.
- VMware vCenter Server Centrally manages multiple VMware ESX/ESXi environments. Provides Thick provisioning when deploying SonicWALL GMS Virtual Appliance.

#### **Hardware Resource Requirements**

The following hardware resources are required for SonicWALL GMS Virtual Appliance:

• RAM – 3168 MB

This is the maximum amount of RAM supported by the SonicWALL GMS Virtual Appliance operating system, SonicLinux (VM), which is a 32-bit OS. Additional RAM provided to SonicWALL GMS Virtual Appliance in the virtual environment will not be utilized. A smaller amount of RAM can be configured, but is not recommended.

CPU – 2

This is the default number of CPUs provisioned in the SonicWALL GMS Virtual Appliance. The minimum required number of CPUs is 1, and the maximum that the SonicWALL GMS Virtual Appliance can use is 4.

- Hard disk space:
  - For the 250 GB image Up to 250 GB on any datastore
  - For the 950 GB image Up to 950 GB on a datastore with either a 4 MB or 8 MB block size

When using Thick, or Flat, provisioning as the storage type option, the entire amount of disk space is allocated when you import and deploy the

SonicWALL GMS Virtual Appliance file. When using Thin provisioning, the initial size is approximately 20 GB and will grow dynamically as more disk space is needed by the SonicWALL GMS application, until the maximum size is reached. Once allocated, the size will not shrink if the application space requirements are subsequently reduced.

Additional disk space provided to SonicWALL GMS Virtual Appliance in the virtual environment, beyond the respective limits of 250 GB or 950 GB, will not be utilized.

ESX/ESXi can be configured with datastores of varying block sizes. The 4 or 8 MB requirement for the 950 GB deployment is because the block size determines the largest virtual disk that can be deployed, as shown in the table:

Block Size of Datastore	Largest Virtual Disk
1 MB	256 GB
2 MB	512 GB
4 MB	1 TB
8 MB	2 TB

Table 1: Block Size Effect on Virtual Disk Size

### **Files for Installation**

You will use different files for a fresh installation than when updating to a newer version.

#### **Fresh Installation Files**

SonicWALL GMS Virtual Appliance is available for download from MySonicWALL. For a fresh install, two Open Virtual Appliance (OVA) files with the following file name format are available for import and deployment to your ESX/ESXi server:

- sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.250GB.ova
- sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.950GB.ova

The 250 or 950 in these file names indicates the maximum size of the deployed virtual appliance in gigabytes. The *xxxx.yyyy* represents the actual build number.

Note: Do not rename the OVA files.

#### **Updater File**

For a software update, a file with the following file name format is available from MySonicWALL:

- sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.gmsvp-updater.sh

**Note:** Do not rename the updater file.

The sw\_gmsvp\_vm\_eng\_6.0.*xxxx.yyyy*.gmsvp-updater.sh file is uploaded to the System > Settings page on the appliance management interface of your existing SonicWALL GMS deployment.

#### **Patch and Hot Fix Files**

All service packs for patches and hot fixes are identical for SonicWALL GMS deployments on Windows, SonicWALL UMA, and SonicWALL GMS Virtual Appliance.

# **2** Installing SonicWALL GMS Virtual Appliance

SonicWALL GMS Virtual Appliance is installed by deploying an OVA file to your ESX/ESXi server. Each OVA file contains all software components related to SonicWALL GMS including the MySQL database, executable binary files for all GMS services, and other necessary files.

You can deploy one or both OVA files multiple times as needed for your SonicWALL GMS environment. SonicWALL GMS can be configured for a single server or in a distributed environment on multiple servers. In a distributed deployment, for example, you might use the 250GB file in a Summarizer role, and the 950GB file in a Database role. A distributed deployment can include one or more SonicWALL GMS Virtual Appliances, SonicWALL UMA EM5000s, or SonicWALL GMS instances running on Windows Server machines. You can deploy an OVA file by using the vSphere 4.1 client, which comes with ESX/ESXi. To get the vSphere 4.1 client, point a browser to your ESX/ESXi server and click on **Download vSphere Client**.



See the following sections:

- "About Thick and Thin Provisioning" on page 7
- "Installing with vSphere" on page 8

#### **About Thick and Thin Provisioning**

You can specify Thick or Thin provisioning when an OVA file is deployed on your ESX/ ESXi server. Thick, or Flat, provisioning pre-allocates all the hard disk space (250GB or 950GB) for the virtual appliance.

Thin provisioning allows the disk space to be allocated dynamically. Your ESX/ESXi operating system will grow the disk space of the appliance based on usage needs. For example, as the syslog files get bigger, ESX/ESXi allocates more disk space. Once allocated, the disk space does not shrink even if you delete all the syslog files. But, that space will be re-used for new syslogs before more space is allocated.

You can specify Thin or Thick provisioning when deploying an OVA file with the vSphere 4.1 client.

**Note:** There is some impact on performance with Thin provisioning whenever more disk space is being allocated. Thin provisioning is not recommended for any role configuration that includes the database, such as Database Only or All In One.

#### Installing with vSphere

To perform a fresh install of the SonicWALL GMS Virtual Appliance using the vSphere client, perform the following steps:

- 1. Download the following OVA files from MySonicWALL to a system that is accessible to your ESX/ESXi server.
  - sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.250GB.ova
  - sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.950GB.ova

Note: Do not rename the OVA files.

2. Launch vSphere and use it to log on to your ESX/ESXi server.



 In the Home screen, navigate to a view that shows the virtual machines running on your ESX/ESXi server.



4. To begin the import process, click File and select Deploy OVF Template.



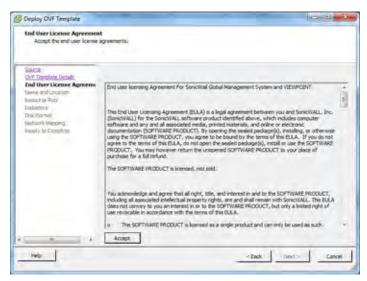
 In the Source screen of the Deploy OVF Template window, enter the name of the OVA file to import in the Deploy from a file or URL field. To deploy from a file, click Browse and then select the OVA file to import. To deploy from a URL, type in the URL of the OVA file. Click Next.

Deploy OVF Template	
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 In the OVF Template Details screen, verify the information about the selected file. To make a change, click the <u>Source</u> link to return to the Source screen and select a different file. To continue, click Next.

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weatly to conducte	Download size:	237.9 MB
	Size on disk:	668.6 MB (thin provisioned) 250.0 GB (thick provisioned)
	Description:	

7. In the End User License Agreement screen, read the agreement, click **Accept**, and then click **Next**.



 In the Name and Location screen, enter a descriptive name for the virtual appliance into the Name field, and select the desired location in the Inventory Location field. You may wish to incorporate the role or disk size as part of the name, as in "GMS\_VM\_Agent\_250GB." Click Next.

Deploy OVF Template Name and Location Specify a name and loc	non for the deployed template
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нер.	                            

9. In the Resource Pool screen, select the resource pool within which to deploy this SonicWALL GMS Virtual Appliance and then click **Next**.

**Note:** When deploying a 950 GB file, be sure to select a resource pool with a block size of either 4 or 8 MB.

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ourse AT Transfirte Details of Date Usance Agreement and and Location	Select the resource pool within which you wish to deploy this template. Resource pools allow herarchical management of computing resources within a host or cluster, initial machines and child pools there the resources of their parent pool.
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10. In the Datastore screen, select the datastore on which to store the files for the SonicWALL GMS Virtual Appliance and then click **Next**.

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50/2	Select a datastore	in which to store the !	At Res:				
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11. In the Disk Format screen, select the format in which to store the virtual disks for the SonicWALL GMS Virtual Appliance. Select either **Thin provisioned format** or

**Thick provisioned format**, and then click **Next**. For information about Thin and Thick provisioned formats, see "About Thick and Thin Provisioning" on page 7.

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into	<task vest=""> Caroli</task>

12. In the Network Mapping screen, select the networks in your inventory to be used for the SonicWALL GMS Virtual Appliance, and then click **Next**.

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	Map the networks used in this OVF : Source function to Dispersion.

13. In the Ready to Complete screen, review and verify the displayed information. To begin the deployment with these settings, click **Finish**. Otherwise, click **Back** to navigate back through the screens to make a change.

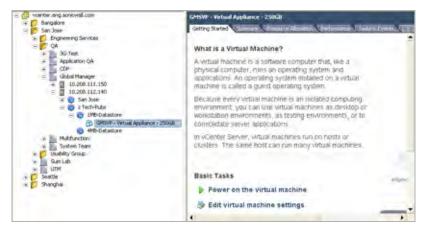
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				,

The Deploying dialog box shows the progress.

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	\\10.202.2.104\Released	Builds\GMS\GMS\P 6.0 Virtual Appliance

14. In the Deployment Completed Successfully dialog box, click Close.

The name of the new SonicWALL GMS Virtual Appliance appears in the left pane of the vSphere window.



- 15. To power on the virtual appliance and perform required host configuration, see "Performing Basic Tasks and Host Configuration" on page 15.
- 16. To register and license SonicWALL GMS, see "Registering and Licensing SonicWALL GMS" on page 24.

## <sup>3</sup> Performing Basic Tasks and Host Configuration

This section describes how to power on and configure basic settings on the SonicWALL GMS Virtual Appliance, including virtual hardware settings and networking settings.

The following tasks are required to configure your SonicWALL GMS Virtual Appliance before registering it:

1. Power on the virtual appliance.

See "Powering the Virtual Appliance On or Off" on page 17.

- 2. Open the virtual appliance console and configure the following host settings:
  - IP address
  - Default route

See "Configuring Host Settings on the Console" on page 17.

- 3. Log in to the appliance system interface and configure the following:
  - Host name
  - Network settings
  - Time settings

See "Configuring Host Settings on the Appliance Web Interface" on page 19.

The following sections are not part of the task flow, but describe how to view and edit settings on the virtual appliance:

- "Viewing Settings Summary" on page 15
- "Editing Virtual Machine Settings" on page 16

## **Viewing Settings Summary**

When the SonicWALL GMS Virtual Appliance is selected in the left pane, the **Summary** tab of the vSphere interface displays pertinent information such as memory, powered on/ off state, hard disk storage usage, network subnet settings, and other settings.

**Note:** This page might incorrectly indicate that VMware Tools are not installed.

A short list of commands is also provided on this page, including Power On and Edit Settings.

When using vSphere with vCenter Server, the Migrate and Clone commands are also available.

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## **Editing Virtual Machine Settings**

You can use the vSphere client to edit settings for the SonicWALL GMS Virtual Appliance, including memory, CPUs, descriptive name, datastore, and resource allocation.

To edit virtual machine settings:

- 1. In the vSphere client, right-click the SonicWALL GMS Virtual Appliance in the left navigation pane and select **Edit Settings** from the right-click menu.
- 2. In the Virtual Machine Properties window, the **Hardware** tab displays the settings for memory, CPU, hard disk, and other hardware. Click on the row in the table to access the editable settings in the right pane.

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- 3. Click the **Options** tab to view and edit the SonicWALL GMS Virtual Appliance name, location (datastore), guest power management (for standby), and other settings.
- 4. Click the Resources tab to view and edit the resource allocation settings.
- 5. When finished, click OK.

## Powering the Virtual Appliance On or Off

There are multiple ways to power the SonicWALL GMS Virtual Appliance on or off.

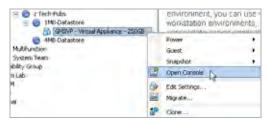
To power the virtual appliance on (or off):

- 1. Do one of the following:
  - Right-click the SonicWALL GMS Virtual Appliance in the left pane and navigate to Power > Power On (or Power > Power Off) in the right-click menu.
  - Select the SonicWALL GMS Virtual Appliance in the left pane and then click **Power on the virtual machine** (or **Shut down the virtual machine**) on the Getting Started tab in the right pane.
  - Select the SonicWALL GMS Virtual Appliance in the left pane and then click **Power On** (or **Shut down guest**) on the Summary tab in the right pane.

## **Configuring Host Settings on the Console**

After powering on the SonicWALL GMS Virtual Appliance, perform the following steps to open the console and configure the IP address and default route settings:

1. In vSphere, right-click the SonicWALL GMS Virtual Appliance in the left pane and select **Open Console** in the right-click menu.



2. When the console window opens, click inside the window, type **snwlcli** at the **login:** prompt and then press **Enter**. Your mouse pointer disappears when you click in the console window. To release it, press **Ctrl+Alt**.



 The console may display warning messages, which can be ignored, and then displays a second Login: prompt. Type admin at the Login: prompt and press Enter, and then type password at the Password: prompt and press Enter. The SNWLCLI> prompt is displayed.



4. Configure the local IP address for the virtual appliance by typing the following command, substituting your IP address and subnet mask for the values shown here:

```
interface eth0 10.208.112.175 255.255.255.0
```

Configure the default route for the virtual appliance by typing the following command, substituting your gateway IP address for the value shown here:

```
route --add default --destination 10.208.112.1
```

You can test connectivity by pinging another server or your main gateway, for example:

ping 10.208.111.1

ping 10.0.0.1

Press Ctrl+c to stop pinging.

6. Type **exit** to exit the CLI, and close the console window by clicking the **X**.

### **Configuring Host Settings on the Appliance Web Interface**

After configuring the IP address and default route settings on the SonicWALL GMS Virtual Appliance console, the next steps are to change the admin password and configure host name, network, and time settings in the appliance management interface. The password is changed during the login process, and the Host Configuration Tool changes the other settings.

The Host Configuration Tool is a wizard that takes you through several basic steps to get your SonicWALL GMS Virtual Appliance 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 virtual 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.

Perform the following steps to complete host configuration for the virtual appliance:

1. Launch a browser and enter the URL of the virtual appliance, such as:

#### http://10.208.112.175

2. On the appliance interface login page, type in the default credentials and then click **Submit** to log in.

The default credentials are:

User – **admin** Password – **password** 

Velcome to the SonicWA	LL Universal Management Appliance Login	SONICWALL
	▲ Peace login Los anticipations and the second process ("In login there is done.")	
	Password	

3. 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 admin account in the **New Password** field, and enter it again in the **Confirm New Password** field. Click **Submit**.

Note:	The new password must be at least 7 characters.

A Change pas	sword forced for the first time login.
User	admini-
Current Password	*******
New Password	I.
Confirm New Password	

Alert: Be sure to save or write this password down in a secure location, as it is encrypted and is difficult to recover if you forget it.

4. The Host Configuration Tool wizard starts automatically. In the Introduction screen, click **Next**.

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- 5. In the Network Settings screen, configure the following network settings for the SonicWALL GMS Virtual Appliance, and then click **Next**:
  - Name A descriptive name for this virtual appliance
  - **Domain** In the form of "sonicwall.com"; this domain is not used for authentication
  - Host IP Address The static IP address for the eth0 interface of the virtual 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.
  - **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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- 6. In the Time Settings screen, select values for the following system settings on the virtual appliance, and then click **Next**:
  - **Time (hh:mm:ss)** Hours, minutes, and seconds of current time; this field is disabled if the NTP option is selected
  - Date Month, day, and year of current date; this field is disabled if the NTP option is selected
  - TimeZone Select from the drop-down list

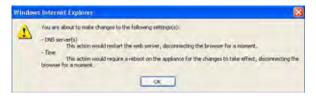
• Set time automatically using NTP – Select this checkbox to use an NTP server to set the virtual appliance time; a default NTP server is pre-configured

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7. In the Summary screen, verify the settings. Click **Back** to make changes on a previous screen, or click **Apply** to accept the settings.

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8. A dialog box warns you that the virtual appliance will reboot. Click OK.



9. 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.





**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 modified the Time settings, the virtual appliance will reboot. Use your browser to reconnect to the appliance management interface.

## Registering and Licensing SonicWALL GMS

All SonicWALL GMS Virtual Appliances must be registered and licensed before use. This requirement applies to single deployments or distributed deployments on multiple datastores, to fresh or upgraded deployments, and to mixed deployments with SonicWALL UMA appliances or with SonicWALL GMS instances on Windows servers.

This section contains the following subsections:

- "Creating a MySonicWALL Account" on page 24
- "Registering / Licensing the SonicWALL GMS Virtual Appliance" on page 25
- "Registering Associated Servers in a Distributed Deployment" on page 27

#### Creating a MySonicWALL Account

A MySonicWALL account is required for product registration. If you already have an account, continue to the *Registering / Licensing the SonicWALL GMS Virtual 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				
Loops Amer WALL Products Magnart Hourta Ros Changed Partners Larnesmy FAQ SenseALER1	User Login			

- 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.

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

### **Registering / Licensing the SonicWALL GMS Virtual Appliance**

You must register your SonicWALL GMS Virtual Appliance 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 virtual appliance.



When you log in to the SonicWALL GMS Virtual Appliance after running the Host Configuration Tool, the **Register** button is displayed in the top right corner of the page. A Register link is also available at the top of the page. The registration process requires that the virtual appliance have access to the Internet.

To register your SonicWALL GMS Virtual Appliance, perform the following steps:

- 1. In a browser, log in to the appliance management interface using the new password for the admin account.
- On the System > Status page, the Registration Pending notification across the top
  of the screen indicates that the system is not registered, the Serial Number status is
  UNKNOWN, and the License status displays Not Licensed. To begin registration,
  click the Register button or <u>Register</u> link.

E System		again to Complete the registrative for this management auto-
Rate	Status Information	
Likerides.	General	
Tere Adsurativation Tettings Disgravitics Hier Honogen Backup(Hiellonin Shatkook Mathionik Backup(Hiellonin Shatkook Mathionik	Nanie Senal Kunker Version Lienren Role Spaten Prote Kanni, 12 Constant Tana Operating System Role Babl Bablie Bablie Bablie Bablie Bablie Bablie	Senic Walk, USY Walk, Management & Appliance (Undercond) 4.0 (Duals: 6022; USA) - Wedge Hebruary 19; 2010 (H-24-S2 644 857) Hoto, Lormon, Market Barl Hydrog Collector (UL2014; UL2014; U
	Getting Started	

3. In the License Management page, type your MySonicWALL user name and password and then click **Submit**.

	Second Haumberry Hast Ringistree es
nySonicWALL.com Login	
imbonstWAL come a one-stop resource for registering all your Sone-WALI approx Tone-WALI except universe upgradem and sharings: immonstWALI explained in the standard standard approximation of instance sone well approximation for incrementation of the standard sta	day you with an every to use interface to information on wy Sone WALL press visit the
Please enter your mosting mySoninWilli, com usintrivial (or enail address) an	d password below:
t avail Adde easy/Union Names	
Factorie 2	
Silant	

4. On the second License Management page, type your 12-character software serial number into the **Serial Number** field and your authentication code into the **Authentication Code** field.

License Management	
	Senal Number: Not Registered
Follow the potructions bes	ow for the product being registered and hit Subret often done
sPE Deployment:     ViewPoint Deployment:	Enter your 12-character serial number, authentication code and a friendly Mane. If you want to care your 6 character straid number (Successor) instead, <u>(do htm:</u> g) Please <u>clicitum</u> for registration instructions.
Serill Marble:	
Authentication code:	<ul> <li>Writekus.utus?</li> </ul>
Freedy Name	
	Sidend

**Note:** If this is the first SonicWALL GMS Virtual Appliance that you are registering in a multi-server deployment, the Serial Number and Authentication Code you received from your SonicWALL sales representative is entered here. As you add more SonicWALL GMS Virtual Appliances, SonicWALL UMA appliances, or instances of SonicWALL GMS to the distributed deployment, use the same serial number used for the installation of the first SonicWALL GMS. You can use the serial number to register associated servers if it is a full-retail serial number, but not if it is a Demo or Free Trial GMS serial number. See "Registering Associated Servers in a Distributed Deployment" on page 27.

- 5. Type a friendly name for the system into the **Friendly Name** field. The friendly name is displayed on MySonicWALL to more easily identify the installation on this system.
- **Note:** If this is the first SonicWALL GMS that you have registered in a multi-server deployment, the Friendly Name for this system will also be used as the name for the distributed deployment. See "Registering Associated Servers in a Distributed Deployment" on page 27.
- 6. Click Submit.
- 7. The License Management page displays a completion screen. Click Continue.

License Management	
	Serial Mumber: 004010238029
This product from important summariants. This is you for Persistence.	
Donimue	

 The Deployment > Roles page is displayed. The next step is to select the role for this SonicWALL GMS Virtual Appliance. Continue with the procedure described in "Selecting the Role for a SonicWALL GMS Server" on page 29.

#### **Registering Associated Servers in a Distributed Deployment**

When you have a distributed SonicWALL GMS deployment involving more than one SonicWALL GMS Virtual Appliance, SonicWALL UMA appliance, or software instance of SonicWALL GMS, you can associate these components during the registration process. A MySonicWALL account is required.

In a distributed deployment, SonicWALL GMS must be registered and licensed on each appliance or server and must be associated with the initially registered instance of GMS. This is accomplished by entering the serial number of the primary SonicWALL GMS when registering GMS on each subsequent appliance or server in the distributed deployment.

When the primary instance of SonicWALL GMS is a SonicWALL GMS Virtual Appliance or a SonicWALL UMA appliance, you can download the SonicWALL UMS installer from MySonicWALL, so that you can install SonicWALL UMS on Windows systems to be used in the distributed deployment. When registering the software instances of SonicWALL GMS, use the serial number of the primary SonicWALL GMS.

**Note:** The base 10-node or 25-node management license is not automatically increased when additional servers are associated with an existing SonicWALL GMS deployment. You can purchase additional node licenses on MySonicWALL.

To register a SonicWALL GMS Virtual Appliance as an associated server in an existing SonicWALL GMS deployment, perform the following steps:

- 1. In a browser, log into the appliance management interface of the SonicWALL GMS Virtual Appliance and click the **Register** button or link.
- 2. On the License Management page, enter the same MySonicWALL user name and password that you used when registering the primary SonicWALL GMS into the appropriate fields and then click **Submit**.
- 3. On the second License Management page, do one of the following:
  - Type the 12 character serial number of the primary SonicWALL GMS into the Serial Number field and type the authentication code of the primary SonicWALL GMS into the Authentication Code field. The primary SonicWALL GMS must already be registered.
  - If you have an 8 character serial number because you upgraded this distributed deployment from a previous version of SonicWALL GMS (such as from 5.0 to 5.1 and then to 6.0), click the <u>Click here</u> if you have an 8 character Serial Number link and enter the 8 character serial number of the primary SonicWALL GMS.
- 4. Type a descriptive name for the system in the **Friendly Name** field and click **Submit**.
- 5. In the License Management completion screen, click **Continue**.
- 6. After registration, the next step is to select the role for this GMS server. Continue with the procedure described in "Selecting the Role for a SonicWALL GMS Server" on page 29.

# <sup>5</sup> Selecting the Role for a SonicWALL GMS Server

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

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

- All in One
- Database Only
- Console
- Agent
- Reports Summarizer
- Monitor
- Event
- Syslog Collector

On the Deployment > Roles page of the appliance 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 GMS instances operating in different roles in a distributed deployment. These instances can run on SonicWALL GMS Virtual Appliances, Windows Server machines, or on SonicWALL UMA appliances.

You can include the MySQL database installation with any role. The All In One or Database Only roles automatically include the MySQL database. Only one server in a SonicWALL GMS deployment should have the MySQL database included in its role.

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 SonicWALL GMS 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 system with any other role
- By setting up a compatible database on another machine and providing that IP address when prompted

The initial **Deployment** > **Roles** page is shown below:

Host Role Configuration				
Single Server Configuration				
O All in One				Details
Multi-Server Configuration(s)				
O Database Only				Detais
O Consule				Details
O Agent				Details
O Reports Summarizer				Details
O Monitor				Ontails
O Event				Details
Syslog Collector     Syslog Server Port:     S	4	-1		Details
T Include Database (MYSQL)				
Include Redundancy				
Database Configuration				
Database Type: Select One 😒				
Database Host:				
Database Port:				
Database User:				
Database Password:				
Confirm Database Password:				
Database Driver:				
Database URL:			-	 

### **Using the Role Configuration Tool**

The Role Configuration Tool is a wizard that guides you through the process of defining the deployment role for SonicWALL GMS. 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 virtual 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 role has not been configured for this management suite. Go to Role Configuration screen to select a role. Click <u>here</u> to load the wizard for role configuration.
Status	Status Information

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



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

- 1. Log into 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.

A	Role Configuration Pending: A role has not been configured for this management suite.	
<u>m</u>	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
who trite	Welcome to the Role Configuration tool In order to use the application installed on this system. It is necessary to configure a role for the applance. The application installed on this system, it is necessary to configure a role for service decoverent.
Deployment Lype	This woord will guide you through the process of configuring a role, step by step.
tote configuration	
Distabate configuration	
Redundancy	
Other configuration	
in manage	

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

	Role Configuration Tool	_
Introduction	Step 2. Setup type	
Setup type	Is this part of existing GMS deployment?	
	O ves O no	
Deployment type	To continue, click Next.	

 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	
Setup type	Is this a single server deployment? O Yes O No	
Deployment type	To continue, dick Next.	

6. 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.

	Role Configurati	on Tool	
Introduction	Step 4. Role configuration		
	Salact one of the following role(s)		
Setup type	O Database Only	Detais	
	Console	Details	
Deployment type	O Agent	Details	
	O Reports Summarizer	Details	
Role configuration	O Monitor	Details	
and the second strength	O Evene	Details	
	D Sysing Collector	Details	
Database configuration	D Include Database (MISQL)		
Redundancy	to continue, click Next.		
Other configuration			
Summary			
	# Bads Mest >	Cantel	

 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.

broduction	Step 5. Database configur	ation
046	Enter the database paramet	ters for the selected role ! Database Only
tup type	Database Type:	M(50.
	Database Host:	burken.
ployment type	Database Port:	5.00
	Database User:	C
le configuration	Database Password:	[]
	Confirm Database Password	
tabase configuration	Database Driver:	mining the Derive
	Database URL:	intervojnja, etve tere
dundancy	Admin Login:	Test:
	Admin Password	1
her configuration	Confirm Admin Password:	L. I.
What y	To continue, click Next:	

To provide credentials with which SonicWALL GMS will access the database, enter the account user name into the **Database User** field, and enter the account password into both the **Database Password** and **Confirm Database Password** fields. Please note the following when selecting values for these fields:

**Database User** – Do not use any special characters, and do not use 'sa', 'root', or 'admin'. The maximum length is 20 characters, and the user name is case-sensitive. **Database Password** – Do not use any special characters. The maximum length is 20 characters, and the password is case-sensitive.

Certain fields will be pre-populated 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 default **Admin Login** is 'root'. This cannot be changed. The **Admin Password** cannot use any special characters, is case-sensitive, and is limited to 20 characters.

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.

1.46 6010	juration Tool
Step 5. Database configur	alion
Enter the database parame	bers for the selected role : Console
Database Type:	Sectors w
Distabasia Host:	1 million 1
Database Port:	3306-
Distablishe User:	(C
Database Password.	
Confirm Databasis Password	a
Distabase Driver:	1
Database UPL:	6
to continue, dict yest.	
	Databasi Type: Databasi Hast: Databasi Port: Databasi Nort: Databasi User: Databasi Password. Confirm Databasi Password Database Dryver:

- 8. When finished entering the database parameters, click Next.
- 9. If deploying this system in the Console or All In One role, the Redundancy page is displayed. Setting up redundancy on the Console system allows for high availability of the Web Server service. To configure this host as a redundant console, select **Yes**.

**Note:** Redundancy should be enabled only when another host has already been configured as a primary host within the current deployment. Enabling redundancy without configuring a primary will result in an incomplete setup.

	Role Config	uration Tool
Introduction	Step 6. Redundancy	
Secie type	Setting up redundency on the "SonicWALL Universal Manag	e Consule system would allow for high evaluation on the ement Suite - Web Service
Deployment type	Note: Redundancy should be as a primary host within the primary will result in an income	enabled only when another host has sissedy been conliquing current deployment. Enabling redundance without configuring a plote setup.
	Is this host being configured	es a redundant consolei
Roll configuration	D Yes	O No
	To contrive, clici Ment.	
Debelaries contrigueation		
Redundancy		

- 10. 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 Configurat	ion Tool	
Moduction	Step 7. Other configuration		
CRA NO.	Galeway Parameters		
Setup type	GMS Gateway IP:	1	
And a second distance	GMS Gateway Password:	I	
Deployment type	Confirm GMS Gateway Password;		
Role configuration	Syslag Server Parameters		
coe conigation	Syslog Server Port:	514	
Detabliste confliqué ation	SMIP Parameters		
ole ablese contrigon asien	SMIP Server:		
tedundaricy	Gender Address:	-	
over car of	Administrator Address:		
Other configuration	To continue, click Nexit-		
lummary.			
	< Back Next >	Circsl	

- 11. In the **Syslog Server Port** field, type in the port used for receiving syslog messages or accept the default of 514.
- 12. 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**.
- 13. Click Next.
- 14. 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 Configura	1001 1001	
Introduction	Step 8. Summary		
Setup type	Settup Existing Setup	No	
1.0.00	Deployment Deployment	MultrService	
Deployment type	Role Configuration	Diffebase Only	
Roale configuration	Database Configuration Database Type Database Host Database Port Database Port Database Vert	MYSQL Incalfunt 3306 gris	
Detabase configuration	Database Password Database Driver Database URI Database Adrim User	cons.mysid.idbc.Driver jdbc.mysidi./foc.ahost:3306 root	
Redundancy	Database Admin Passwor 10 epply these offlings, clid A	7	
Other configuration			
Summary			
	-		

15. 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.

Step 8. Summary		
	Applying Role Configuration Settings	
	Plance Wet	

**Note:** The database installation creates a minimal SonicWALL GMS database. To change database sizes, you may need to use database tools such as MySQL Server Enterprise Manager.



**Tip:** For optimal performance, you need to configure database maintenance plans. For information on configuring SonicWALL GMS maintenance plans, refer to the SonicWALL GMS/UMA Administrator's Guide.

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

Role Configuration Tool		
Introduction	Step 7. Summary	
Setup type	A Rate Configuration applied successfully.	
Deployment type		
Role configuration		
Database configuration		
Other configuration		
Summary		
	Close	

### Manually Configuring the System Role

You can configure the role of the SonicWALL GMS Virtual Appliance without using the Role Configuration Tool. For manual role configuration procedures and information, see the *SonicWALL GMS/UMA Administrator's Guide*, available at:

http://www.sonicwall.com/us/Support.html

# **Configuring Deployment Settings**

This section describes the Deployment > Settings page of the appliance interface, used for Web port, SMTP, and SSL access configuration.

Web Port Configuration	Sen.
HTTP port:	91
HTTPSport	1443
	(power Permit
SMTP Configuration	
SHIP server:	Had sonovial cos
Sender address	-millionicanal can
Administration address:	Lanar Bronovill.com
SSL Access Configur	ation
SSL Access Configue	ation
③ Default	
application for use	es you to keep the default pertilicate that power with the by the GMS Web Server for SSL access. Primate for the perpendents".
E Custon	
Server for 152. so	es you to upload a custom certificate for use by the GMS Wet rest. The original filename of the certificate imported will be system/encustomics' in the local file system.
Keystone/Certifica	CBatestr.
keydore/Certifics	dei .
	HTTP boot: HTTPS port: SMTP Configuration SMTP server: Sender address: Administrator address: SSL Access Configure (*) Default This selection allor generation address heystore used a t (*) Default This selection allor generation SSL ao heystore used a t (*) Dutter This selection allor generation SSL ao mer SSL ao Keystore(Configure Keystore(Configure) Keystore(Configure)

See the following sections:

- "Configuring Web Port Settings" on page 38
- "Configuring SMTP Settings" on page 39
- "Configuring SSL Access" on page 39

# **Configuring Web Port Settings**

Web port settings configuration is largely the same on any role. 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 GMS Virtual Appliance, type the port number into the HTTP Port field. The default port is 80.
- 2. To use a different port for HTTPS access to the SonicWALL GMS Virtual Appliance, 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 virtual appliance to restart.

- 4. After the virtual 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://</P Address>:8080/appliance/
  - If you changed the HTTPS port to 4430, use the URL: http://
     http://
     http://

# **Configuring SMTP Settings**

The SMTP settings are used for sending email alerts to the SonicWALL GMS Virtual Appliance system administrator. The SMTP Configuration section allows you to configure an SMTP server name or IP address, a sender email address, and an administrator email address. You can also test connectivity to the configured server.

If the Mail Server settings are not configured correctly, you will not receive important email notifications, such as:

- System alerts for your SonicWALL GMS deployment performance
- Availability of product updates, hot fixes, or patches
- Availability of firmware upgrades for managed appliances
- Alerts on your managed appliances' status
- Scheduled reports

To configure the SMTP settings, perform the following steps:

- 1. On the **Deployment > Settings** page under **SMTP Configuration**, enter the IP address of the SMTP server into the **SMTP server** field.
- 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. To test connectivity to the SMTP server, click **Test Connectivity**.
- 5. Click **Update** to apply the SMTP settings.

# **Configuring SSL Access**

The SSL Access Configuration section allows you to configure and upload a custom Keystore/Certificate file for SSL access to the virtual appliance, or to select the default local keystore.

To configure SSL access:

- 1. On the **Deployment > Settings** page under **SSL Access Configuration**, select one of the following:
  - Select the **Default** radio button to keep, or revert to, the default settings, in which the default SonicWALL GMS Web Server certificate with 'gmsvpserverks' keystore is used.
  - Select **Custom** to upload a custom keystore certificate for SSL access to your SonicWALL GMS Virtual Appliance.
- 2. For a custom keystore certificate, click the **Browse** button in the **Keystore**/ **Certificate file** field to select your certificate file.

Your custom file is renamed to 'gmsvpservercustomks' after upload.

- 3. Type the password for the keystore certificate into the **Keystore/Certificate password** field.
- 4. Click the **View** button to display details about your keystore certificate.
- 5. Click the **Update** button to submit your changes.

# **6** Introduction to the Management Interfaces

This section describes the two SonicWALL GMS Virtual Appliance management interfaces. An almost identical URL is used when accessing either the SonicWALL GMS management interface or the appliance system interface, but the URL is modified to specify either **sgms** or **appliance**.

See the following sections:

- "Overview of the Two Interfaces" on page 40
- "Switching Between Management Interfaces" on page 41
- "SonicWALL GMS Management Interface Introduction" on page 42

## **Overview of the Two Interfaces**

The SonicWALL GMS Virtual Appliance comes with two separate management interfaces:

 SonicWALL UMA Appliance Management Interface – Used for system management of the virtual appliance, including registration and licensing, setting the admin password, configuring network settings, configuring 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?	IMA 6.0	Burth Waards Hale Lapou	
<ul> <li>System</li> <li>Status</li> <li>Ucenses</li> <li>Tine</li> </ul>	Status Information General Name Serial Number	SonkWALL Universal Management Appliance 0040102360AC	
Time Version Administration License Settings	License	<ol> <li>6.0 (Build: 6022.1243 - Friday February 19, 2010 04/24/52 PM PS) Ucensed for Global Management System All in One</li> </ol>	
Diagnostics Pile Manager Backup/Restore Shutdown Metwork Shutdown	System Host Narie/III: Current Time Operating System CPU RAM Available Disk Space on Trotal Portition Data Portition	BAGEL BAKERY, NET [10, 208, 112, 206] (Feb 23, 2030 11:30:41 PM UTC SomiClinux (VM) Infel Xeon (2, 33 GHz) Cacher 4096 (2 Logical CFUH), 2040 MB 0.05 CB (of Total 0.55 CB) 875.73 GB (of Total 929, 47 GB)	
		ion <i>Getting Starled Culdevere available at</i> the <u>ntre</u> and the <u>Evolutt Guidevere</u> .	

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

Aund	tion adaption advanta) independent
+ User Settings + Log + Lasks + Tasks + Management + Reparts + Disquestics + Sents + Lecenses + Web Services + Help Along Tas and Tubysib	SONICWALL         Global gangement         System         Deriver in the spectrometer in the spectrum of the spec

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

# **Switching Between Management Interfaces**

On systems deployed in the All In One or Console role, the "SuperAdmin" user can easily switch between the SonicWALL UMA appliance management interface and the SonicWALL GMS management interface. The SuperAdmin is the master administrator for the entire GMS installation.



When logged in to either interface, the SuperAdmin can switch to the login page of the other interface by clicking the **Switch** button in the top right corner of the page. The **Switch** button is only visible for users with SuperAdmin privileges.

**Note:** The admin account on the appliance interface can have a different password than the admin account for SonicWALL GMS.

# SonicWALL GMS Management Interface Introduction

SonicWALL GMS is a Web-based application for configuring, managing, monitoring and gathering reports from thousands of SonicWALL Internet security appliances and non-SonicWALL appliances, all from a central location. This section provides an introduction to the main elements of the Web-based management interface. This section contains the following subsections:

- "Login Screen" on page 42
- "SonicToday" on page 42
- "Live Monitoring" on page 42
- "Multi-Solution Management" on page 43
- "Management Interface" on page 43

## **Login Screen**

The login screen allows you to securely login to SonicWALL GMS using your GMS application user ID and password. The SonicWALL GMS management interface is available at http://<IP address>:<port>/sgms/ after completing registration.

Velcome to the Son onicWALL GMS Variation 6.8	icWALL Global Management System Login	SONICWALL
	The Processing of Street Proce	

### SonicToday

After login is completed, users will land at the SonicToday tab of the main default page. Using RSS and AJAX technology, SonicToday is a tab intended to work as a customizable dashboard to monitor the latest happenings with this SonicWALL GMS 6.0 deployment, the network, the IT and Security World, as well as the rest of the world.

### **Live Monitoring**

The Live Monitoring feature provides users with the ability to monitor an entire network through the correlation of syslog messages received from appliances throughout a deployment. The collected syslogs are filtered with user-defined rules to become alerts. By viewing alerts in the Live Monitoring screen, users can monitor a network, analyze traffic based on protocols, Web usage and productivity, and detect viruses and attacks in the network.

### **Multi-Solution Management**

The Multi-Solution Management feature in SonicWALL GMS provides next generation management capability by allowing administrators to manage multiple appliance types—UTM, CDP, SSL VPN, EX-Series SSL VPN, and Email Security—through their respective Web user interfaces over HTTP and HTTPS. Multi-Solution Management enables GMS Core Management functionality through the GMS user interface. Functions such as creating tasks, posting policies, scheduling tasks, and more are easily completed across multiple appliances at Unit Node and Group Node levels.

### **Management Interface**

The SonicWALL GMS management interface is the main control panel for SonicWALL GMS. The management interface allows you to add and modify appliances, perform monitoring and reporting tasks, set policies for managed appliances, and configure SonicWALL GMS settings.

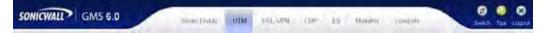
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The SonicWALL GMS management interface has four main sections:

- "Navigation Tabs" on page 44
- "Left Pane" on page 44
- "Center Pane" on page 46
- "Right Pane" on page 46

### **Navigation Tabs**

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



The seven navigation tabs are **SonicToday, UTM**, **SSL-VPN**, **CDP**, **ES**, **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 manage SonicWALL GMS settings that affect the environment globally.

#### Left Pane



The left pane of the SonicWALL GMS management interface provides a tree control that displays the current GMS view and a list of managed appliances within the current tab. The left pane is only displayed for the four appliance tabs: **UTM**, **SSL-VPN**, **CDP** and **ES**. 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 and additional images superimposed on these icons provide useful status information. For detailed information about appliance states, refer to "Description of Managed Appliance States" on page 45.



**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 UI.

## **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 the SonicWALL GMS, and no tasks are pending or scheduled.
Q	Two blue boxes indicate that appliances in a group are operating normally. All appliances in the group are accessible from the SonicWALL GMS and no tasks are pending or scheduled.
çá	One blue box with a lightning flash indicates that one or more tasks are pending or running on the appliance.
1	Two blue boxes with a lightning flash indicate that tasks are currently pending or running on one or more appliances within the group.
9	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 (provisioned) but not yet acquired.
0	Two yellow boxes indicate that one or more appliances in the group have been added to SonicWALL GMS but not acquired.
<b>G</b>	One yellow box with a lightning flash indicates that one or more tasks are pending on the provisioned appliance.
<b>1</b>	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 not accessible from SonicWALL GMS.
Ø	Two red boxes indicate that one or more appliance in the group is not accessible from SonicWALL GMS.
ø	Two red boxes with a lightning flash indicate that one or more appliances in the group is not accessible from SonicWALL GMS and has one or more tasks pending.
<mark>ça</mark>	One red box with a yellow flash indicates that the appliance is not accessible from SonicWALL GMS and has one or more tasks pending.

### **Center Pane**



### **Right Pane**

The center pane displays for the four appliance tabs: **UTM**, **SSL-VPN**, **CDP** and **ES**. 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 exists two sub-tabs, **Policies** and **Reports**. The **Policies** sub-tab 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 **UTM** and **SSL-VPN**.

The current selection in the center pane is indicated by an arrow. For example, the figure to the left displays the current selection **System > Status.** The center pane options change based on the navigational tab and left pane selections, and selections in the center pane modify the configurations available in the right pane. For example, the figure below displays the tasks available for the **Policies** tab, with **View All** selected in the left pane. The right pane will display configuration options for the **System > Status** selection in this pane.

odelview t: Status	Satus User Liser Ladmin GLocalDomani   Administratori	
Status Information for Global Node: ModelView		
UTM		
UTMs in the System	29	
UTHs that are Not Registered	6	
UTMs with VPN Upgrade	25	
UTMs that support MSSP	1	
UTMs with Global VPN Client Upgrade	12	
Management		
UTMs that are Down	8	
UTMs that are Unacquired	5	
UTMs with Pending Tasks	8	
UTMs managed by Remote Instances	2	
UTMs managed using		
Existing Tunnel/LAN	6	
Management Tunnel	0	
HTTPS	23	
UTMs with DHOP Server Enabled	23	
UTMs currently on Dialup	0	
Subscription (click here for details)		
Anti-Virus	1	
Content Filter List/Service	2	
Extended Warranty	17	
Gateway Anti-Virus	2	
Intrusion Prevention Service	2	
UTM Models		
NSA 240	2	
N5A 3500	1	
NSA 4500	1	
NSA E5000	i	

The right pane displays the available configuration 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 figure on the left displays the status and tasks available for the **Policies** navigation tab, left pane selection **View All**, and center pane selection **System > Status**.

# 7 Next Steps

After installation, registration, and role configuration, the next steps in setting up your SonicWALL GMS deployment are performed in the SonicWALL GMS management interface. See the *SonicWALL GMS Administrator's Guide* for complete information about configuring SonicWALL GMS device management and reporting. This guide and other related documents are available on:

http://www.sonicwall.com/us/Support.html

Suggested next steps include the following:

- **Provisioning units** Log into each appliance that will be managed by SonicWALL GMS, and enable GMS Management.
- Adding units In the SonicWALL GMS management interface, right-click in the left navigation pane and select Add Unit to add a SonicWALL appliance to GMS management.
- **Scheduling reports** Use the Console panel of the SonicWALL GMS management interface to set up a reporting schedule for your managed appliances.

# <sup>8</sup> Updating the SonicWALL GMS Virtual Appliance

The System > Settings page of the appliance interface is used to update the SonicWALL GMS Virtual Appliance to a newer build or version.

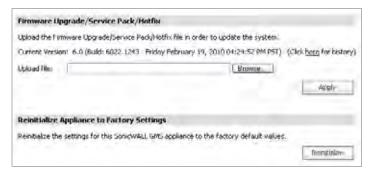
To update the SonicWALL GMS Virtual Appliance, perform the following steps:

 Download the updater file from MySonicWALL. The file name is in the format: sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.gmsvp-updater.sh



**Note:** Do not rename the updater file.

2. Log on to the appliance interface of the SonicWALL GMS Virtual Appliance and navigate to the **System > Settings** page.



 Click Browse and select the sw\_gmsvp\_vm\_eng\_6.0.xxxx.yyyy.gmsvpupdater.sh file on your local system.

The file must be for the virtual appliance (be sure it has **vm** in the file name).

4. Click **Apply** to update your virtual appliance with the new software.

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# **Related Technical Documentation**

SonicWALL user guide reference documentation is available at the SonicWALL Technical Documentation Online Library: <a href="http://www.sonicwall.com/us/Support.html">http://www.sonicwall.com/us/Support.html</a>.

The SonicWALL GMS 6.0 documentation set includes the following user guides:

- SonicWALL GMS 6.0 Administrator's Guide
- SonicWALL GMS 6.0 Release Notes
- SonicWALL GMS Virtual Appliance 6.0 Getting Started Guide
- SonicWALL GMS 6.0 Getting Started Guide
- SonicWALL UMA EM5000 Getting Started Guide

For basic and advanced deployment examples, refer to SonicWALL GMS user guides and deployment technotes.



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