# Secure Mobile Access 12.4

SMA and CMS on Azure Getting Started Guide



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## Overview

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This Getting Start Guide contains installation procedures and configuration guidelines for deploying the SonicWall SMA 8200v-standalone (Virtual Appliance) and CMS in your Microsoft Azure cloud network.

SonicWall takes the challenge of rapid pace of cloud transformation and extends the security of the private cloud to public clouds with SonicWall Secure Mobile Access 1000 (SMA 8200v) series. The SMA 8200v gives you economy-of-scale benefits of virtualization. This gives you all the security advantages of a physical SMA 1000 appliance with the operational and economic benefits of virtualization, including system scalability and agility, speed of system provisioning, simple management and cost reduction.

**Before You Begin** 

2

## Creating a MySonicWall Account

A MySonicWall account is required for product registration. If you already have an account, continue to the section on Registering the SMA 8200v-Standalone and CMS.

#### To create a MySonicWall account:

- 1. In your browser, navigate to http://www.MySonicWall.com.
- 2. In the login screen, click the **Sign-Up** link.



3. Complete the account information, including email and password.

(i) NOTE: Your password should be at least eight characters, but no more than 30 characters.

- 4. Enable two-factor authentication if desired.
- 5. If you enabled two-factor authentication, select one of the following authentication methods:
  - Email (one-time passcode) where an email with a one-time passcode is sent each time you log into your MySonicWall account.

- **Microsoft/Google Authentication App** where you use a Microsoft or Google authenticator application to scan the code provided. If you are unable to scan the code, you can click on a link for a secret code.
- 6. Click **Continue** to go to the **Company** page.
- 7. Complete the company information and click **Continue**.
- 8. On the Your Info page, select whether you want to receive security renewal emails.
- 9. Identify whether you are interested in beta testing new products.
- 10. Click **Continue** to go to the **Extras** page.
- 11. Select whether you want to add additional contacts to be notified for contract renewals.
- 12. If you opted for additional contacts, input the information and click Add Contact.
- 13. Click Done.
- 14. Check your email for a verification code and enter it in the **Verification Code**\* field. If you did not receive a code, contact Customer Support by clicking the link.
- 15. Click **Done**. You are returned to the login window so you can login into MySonicWall with your new account.

(i) **NOTE:** MySonicWall registration information is not sold or shared with any other company.

# Installing SMA 8200v-Standalone and CMS on Azure

This section explains how to deploy the SonicWall SMA 8200v-standalone and CMS in your Azure environment.

(i) **NOTE:** Installation of SMA 8200v-standalone and CMS on Azure is supported only from the SMA 12.4 and above firmware versions.

## **Deployment Guidelines**

For details on deployment guidelines, refer SMA 8200v Azure/AWS Deployment Guidelines | SonicWall

#### To install the SMA 8200v-standalone and CMS for Azure:

- 1. Log into your Azure account at https://portal.azure.com.
- In the Azure Marketplace, search for and select the SonicWall SMA 8200v listing, then click Get It Now. The SonicWall SMA 8200v Virtual Appliance page displays.

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3. In the SonicWall SMA 8200v Virtual Appliance page, click Create.

The **Basics** page displays.

- 4. By default, the **Subscription** field is selected based on your currently active Azure subscription. Based on your subscription type, SMA1000 deployment will be created in and billed. If you have multiple subscriptions, you can select a different one in the drop-down menu.
- 5. In the **Resource group** field, select the existing resource group from the drop-down or click **Create new** to create a new resource group. This is the resource group your SMA 8200v-standalone deployment will be created in.
- 6. In the **Region** field, select the location for these virtual appliance(s).
- 7. In the Admin Password and Confirm Admin Password fields, enter the password.

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- 8. In the **SSH public key source** field, select the following options from the drop-down.
  - **Generate new key pair** If you don't have an existing SSH public key for your Azure account, you can create new key and select the key pair name in the **Key pair name** field.

SSH public key source	Generate new key pair	~
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	Use existing public key	

• Use existing key stored in Azure - If you have an existing stored SSH key for your Azure account, under Stored Keys field, select a key from the drop-down.

	SMA500v31 key	
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Stored Keys	Select a key	~

• Use existing public key - If you have an existing SSH public key for your Azure account, enter the text of your existing key into the SSH public key field.

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	1 Learn more	

- Click Next: Central Management >. The Central Management page displays.
- 10. In the **Deploy CMS?**, select the following options based on your requirement.

Select Yes - To deploy CMS on Azure.

Select No - Not to deploy CMS on Azure.

In the **Size** field, the default memory size displays in the above field. If you wish to select a different configuration, click **Change size** and select the memory size based on your requirements.

(i) **NOTE:** The minimum recommended memory size for CMS is 1x Standard D2 v3.

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11. Click Next: VPN Appliances >.

The VPN Appliances page displays.

- 12. In the **Count** field, enter the number of SMA 8200v-standalone appliances you need to deploy. If you do not need to deploy SMA 8200v-standalone appliance on Azure, then enter the count as 0 in the count field.
- 13. In the **Size** field, the default memory size displays based on the SMA 8200v-standalone count entered in the above field. If you wish to select a different configuration, click **Change size** and select the memory size based on your requirements.

(i) **NOTE:** The minimum recommended memory size is 2 vcpus and 8 GB RAM.

The following recommendations are intended as guidelines to instance type selection, derived from extensive lab-based testing and analysis. It is extremely important to keep in mind that inherent differences in deployment-specific usage patterns may necessitate use of larger, or smaller, instance types than these general-purpose recommendations.

Expected User Count	Recommended Instance Type	Specification
Up to 500	F2	2 core, 4GB RAM
Up to 2000	F4s_v2	4 core, 8GB RAM
Up to 5000	F8s_v2	8 core, 16GB RAM

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14. Click Next: Networking.

The **Networking** page displays.

- 15. In the **Networking** page, configure the virtual network based on your requirements.
  - a. In the **Virtual Network** field, select an existing virtual network from the drop-down or click **Create new** to create a new virtual network.
  - b. In the **Subnet** field, select a subnet from the drop-down.
  - c. By default, the **VPN Access CIDR** field is set to 0.0.0/0 which allows you to access VPN from any place. If you want to limit VPN access to a trusted IP range, enter that IP range in this field.
  - d. By default, the **Admin CIDR** field is set to 0.0.0.0/0 which allows you to access AMC and SSH from any place. If you want to limit AMC and SSH access to a trusted IP range, enter that IP range in this field.
    - NOTE: For details on how to configure static IP pools for VPN tunnels in Azure, see SMA
       8200v Azure/AWS Deployment Guidelines | SonicWall

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16. Click Next: Review + create >.

#### The **Review + create >** page displays.

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- 17. Verify the instance details shown in the screen and click Create.
  - (i) **NOTE:** The SMA 8200v-standalone and CMS for Azure is automatically started at the end of the installation process.

A pop up screen with deployment status displays.

18. Once the deployment is complete, the following screen displays.



19. Click Go to resource group and select the virtual machine that you want to manage.

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Home > sonicwall-inc.sma1000-2022/04		
Azure_SMA1000		
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Properties		Application recurity group
A Locks		Application security group
Cost Management		SSH key
S. Cost analysis		Regular Network Interface
Cost alerts (preview)		Regular Network Interface
Budgets	□	Regular Network Interface
Advisor recommendations	□	Regular Network Interface
Monitoring	sg- uma1000-001	Network security group
Insights (preview)	pip-vm-sma1000-001-centralis	Public IP address
Alerts	The second	Public IP address
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Diagnostic settings	🗌 🥅 pip-vm-sms1000cms-001-centralus	Public IP address
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Support + troubleshooting	S vm-sma1000-003_0sDisk_1_eal125997d9a452c8e2db3400aae5b51	Disk
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	6-b voet-prod-centralis-001	Virtual network

After the SMA 8200v-standalone and CMS instance is launched, you can access the appliance from a browser. See Connecting to the Web Interface for details.

Console access is available via the ssh command with the username 'admin' and the SSH key you specified during deployment. See Connecting to the Command Line Interface for details.

You are now ready to begin using your SMA 8200v-standalone and CMS appliance. See:

- Configuring SMA 8200v-Standalone and CMS on Azure
- Connecting to the Web Interface
- Using the 30-day Trial Version

# Configuring SMA 8200v-Standalone and CMS on Azure

This section describes how to configure basic settings on the SMA 8200v-Standalone and CMS.

#### **Topics:**

- Viewing the SMA 8200v-Standalone and CMS Azure Settings
- Connecting to the Web Interface
- Connecting to the Command Line Interface
- Using the Command Line Interface

## Viewing the SMA 8200v-Standalone and CMS Azure Settings

To display the SMA 8200v-standalone and CMS settings and virtual appliance controls:

- Click Virtual machines in the Azure left pane.
   All the virtual machines in your account are displayed.
- Click the SMA 8200v-standalone virtual machines to display the control and settings for it. The **Overview** page displays.

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Virtual machine	<i>p</i>		
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The SMA 8200v-standalone for Azure is automatically started at the end of the installation process.

3. Click the CMS virtual machines to display the control and settings for it.

The **Overview** page displays.

= Microsoft Azure		,P Search resources, services, and docs (G+/)		
Home > soriewal-inc.sma1000-2122	NY YALLAN > Asses SMA1000 >			
👳 vm-sma1000cms-0	J01 🖉			
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Configuration management	1.34 % 97.93 to 93.12 to	267.89 xa	0.08 A 0.51 A	6.93 ca

The CMS for Azure is automatically started at the end of the installation process.

#### To stop, restart, or start the SMA 8200v-Standalone and CMS for Azure:

- 1. Navigate to the **Overview** page as described in Viewing the SMA 8200v-Standalone and CMS Azure Settings.
- 2. At the top of the right pane, click any of the controls for the virtual appliance:
  - Start Starts the virtual appliance.
  - Restart Restarts the virtual appliance.
  - Stop Stops the virtual appliance.

Other controls are also available here, including Connect, Capture, Move, Delete, and Refresh.

## Connecting to the Web Interface

The SMA 8200v-standalone and CMS for Azure is accessible at the public IP address automatically assigned by Azure using DHCP addressing.

(i) **NOTE:** The IP address of the internal interface and external interface cannot be changed on a cloud-based appliance and also in SMA UI or API.

#### To connect to the SMA 8200v-Standalone and CMS for Azure:

- 1. Navigate to the **Overview** page of your appliance as described in Viewing the SMA 8200v-Standalone and CMS Azure Settings.
- 2. Locate the Public IP address.
- 3. In a browser, enter the public IP address using https.
  - a. Use default port 8443 to access SMA 8200v-standalone appliance. For example : *https://<SMA* 8200v Public IP>:8443/

- b. Use default port 8443 to access CMS. For example : https://<SMA CMS Public IP>:8443/
- 4. In the SMA 8200v-standalone and CMS for Azure login screen, enter the username 'admin' and the password specified during deployment and then click **Login**.

SONIC <b>WALL</b> ' secure mobile access		
Please log in Username		What is Secure Mobile Access? Click on the link to learn more about Secure Mobile Access
Password	and a	SonicWall Live Demo Learn more about products and services by watching the live demo
Log in using Management Console v		SonicWall Security Center Provides a graphical view of worldwide attacks over the last 24 hours

The SMA 8200v-standalone **Dashboard** page displays.



The CMS Dashboard page displays.

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SONIC <b>WALL</b>	Central Management Console   Vm-sn	ha1000cms-001						P A
	🕸 / Dashboard / System							
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To register the SMA 8200v-standalone and CMS for Azure and begin management and configuration, see Registering the SMA 8200v-Standalone and CMS.

## Connecting to the Command Line Interface

The Command Line Interface (CLI) can be launched over SSH.

(i) NOTE: SSH connections as root are not supported on cloud instances. For root access, connect as 'admin' and then enter sudo su.

#### To connect to SMA 8200v-Standalone and CMS over SSH:

- 1. Navigate to the **Overview** page as described in Viewing the SMA 8200v-Standalone and CMS Azure Settings.
- 2. Locate the Public IP address. SMA 8200v-standalone: <SMA 8200v Public IP/ Host name> CMS: <SMA CMS Public IP/ Host name>
- 3. In an SSH application, type in the command using your Azure private key to authenticate:

ssh -i AzurePrivateKey.key admin@<SMA 8200v Public IP/ Host name>-To connect SMA
8200v-standalone.

ssh -i AzurePrivateKey.key admin@<SMA CMS Public IP/ Host name> - To connect CMS.

For example, ssh -i xxxxkey.pem admin@xx.xx.xx/Host name.

(i) NOTE: For management, log in using the admin account.

4. If you see a warning, type yes to proceed with the login.

The authenticity of host	'me me to get (me me to get)' can't be established.
ECDSA key fingerprint is	SHA256: 100 100 100 100 100 100 100 100 100 10
Are you sure you want to	continue connecting (yes/no)? yes

5. Continue to Using the Command Line Interface.

## Using the Command Line Interface

The CLI is a text-only mechanism for interacting with the SMA 8200v-standalone and CMS for Azure virtual appliance by typing commands to perform specific tasks. The CLI is launched as described in Connecting to the Command Line Interface.

Type in the commands to perform the tasks on SMA 8200v-standalone appliance and CMS.

## Licensing and Registering Your Appliance

This section contains information about licensing and registering your SMA 8200v-standalone and CMS for Azure Virtual Appliance.

You must purchase a license and register your SMA 8200v-standalone and CMS on Azure before first use. Registration is performed using the management interface. After the registration is completed, the SMA 8200vstandalone and CMS on Azure is licensed and ready to use. For the 30-Day Trial Virtual Appliance registration process, refer to Using the 30-day Trial Version.

SMA 8200v-standalone and CMS on Azure provides user-based licensing. By default, the virtual appliance comes with a 5-user license. Extra licenses can be added in 5, 10, and 25 user denominations, up to a maximum that allows for 50 concurrent user sessions.

Licensing is controlled by SonicWall's license manager service, and customers can add licenses through their MySonicWall accounts. Unregistered units support the default license allotment for their model, but the unit must be registered in order to activate additional licensing from MySonicWall.

License status is displayed in the SMA 8200v-standalone for Azure Virtual Appliance management interface, on the **System Configuration > General Settings > Licensing** page.

License status is displayed in the CMS for Azure Virtual Appliance management interface, on the **Management** Server> Configure> General Settings > Licensing page.

Communication with the SonicWall Licensing Manager is necessary while using the SMA 8200v-standalone and CMS on Azure and requires Internet access.

# Registering the SMA 8200v-Standalone and CMS

After you have installed and configured the network settings for your SMA 8200v-standalone and CMS on Azure, you can log into the management console and register it to your MySonicWall account. Registration of your SonicWall SMA 8200v-standalone and CMS on Azure follows the same process as for other SonicWall hardware-based appliances.

(i) **NOTE:** System functionality is extremely limited when registration is not completed.

4

#### To register your SMA 8200v-standalone for Azure:

- 1. Log in to your SMA 8200v-standalone virtual machine.
- In the System Configuration group, select General Settings > Licensing > Edit. The Manage Licenses page is displayed.

SONICWALL	E Secure Mobile Access	angen ti					Q A
X	👲 / System Configuration / Ge	🙏 Managed Appliance 🌘 License expired					
Oashboard	Review and manage the software	licenses for the appliance.					
🥹 Security Administration	Product: License holder:	roduct: SonicWall Secure Mobile Access 8200v					
🔏 User Access	Maximum concurrent users: Appliance serial number:	xxxrent users: 0 skil number: N/A					
👫 System Configuration 🛛	Authentication code:	N/A					
Manitarian	COMPONENT		LICENSE TYPE				
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			Cano	Import License.	)		

- 3. In the Manage Licenses page, click Import License.
- 4. In the Import License page, click Choose File to select the license file and click Upload.

SONICWALL		← Secure Mobile Access   app1
		全 / System Configuration / General Settings / Manage Licenses / Import License
$\boldsymbol{\varTheta}$	Dashboard	
	System	LICENSE FILE UPLOAD
		Upload a software license file to the appliance.
2		To obtain a license, go to MySonicWall.
ŔţŶ	System Configuration	Choose File No file chosen
	General Settings	Cancel
	Network Settings	Current Opticit

The License file is uploaded into the appliance.

5. You have successfully registered your SMA 8200v-standalone virtual machine. Click **Continue** to view the **License Management** screen or continue configuring other settings within the appliance.

#### To register your CMS for Azure:

- 1. Log in to your CMS virtual machine.
- In the Management Server group, select Configure > General Settings > Licensing > Edit. The Manage Licenses page is displayed.

SONICWALL		Central Management 6	Console   SI	4AAppliance	
		👷 / Management Server / Configure / General Settings / Manage Licenses			
		Review and manage the software	licenses for the Cl	45.	
MAN () () () () () () () () () ()	AAGEMENT SERVER Alerts Configure Central Management General Settings	Product: License holder: Maximum concurrent users: Maximum appliances: Appliance serial number: Authentication code: Licensing mode:	SonicWall Sec Default license Fult: 15 Email: 3 N/A N/A Default	ure Mobile Access CMS D	
		COMPONENT		LICENSE TYPE	
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		Managed appliances: 3		Sittat: (Sate Nota: 3-931)	
		ONLINE LICENSING			
•				Bullet	
- MAN	Maintain Server	Register			
٢		> ADVANCED			
8	Configure		Cancel		

- 3. In the **Manage Licenses** page, under **Online Licensing**, click **Register**. This should take you to a MySonicWall login.
- 4. Enter your MySonicWall.com account username or email address and password in the appropriate fields and click **Submit**.
- 5. In the License Management page, enter the Serial Number or Activation Key for your new appliance. Enter the Authentication Code for your new appliance.

—MySonicWall License Ma	anager	
Enter your 12 character Sof	tware Serial Number and Authentication Code	
Serial Number:		
Authentication Code:	- What is this?	
Friendly Name:		
Submit		
	Return	

- 6. Enter a Friendly Name.
- 7. Click **Submit** to finish the registration process.
- 8. You have successfully registered your CMS virtual machine. Click **Continue** to view the **License Management screen** or continue configuring other settings within the appliance.

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## Using the 30-day Trial Version

The SMA 8200v-standalone and CMS for Azure is offered in a 30-day Trial version. The installation, registration, and functionality of the 30-Day Trial appliance is the same as the full SMA 8200v-standalone and CMS, except for differences noted in **Deployment Considerations** section. An email is sent from the SonicWall License Manager to warn you when your trial is near its expiration date.

#### To upgrade to the full version:

- Purchase the full SMA 8200v-standalone and CMS for Azure.
- Export your settings from the 30-day Trial version.
- Install and register the full SMA 8200v-standalone and CMS for Azure.
- Import your settings.

You must install the SMA 8200v-standalone and CMS for Azure software before registering for your 30-Day Trial. For more information on obtaining the software, see Installing SMA 8200v-Standalone and CMS on Azure.

#### **Topics:**

- Deployment Considerations
- Registering the 30-day Trial Virtual Appliance
- Converting a Free Trial License to Full License

## **Deployment Considerations**

The following is a list of deployment considerations for the 30-day Trial version:

- The SMA 8200v-standalone and CMS for Azure is disabled after 30 days.
- A maximum of two concurrent users are allowed to log into the appliance.
- · Communication with the SonicWall Licensing Manager is required during the entire trial period.
- It is recommended that you save a copy of your appliance configuration settings before upgrading to the full version of the SMA 8200v-standalone and CMS for Azure.

## Registering the 30-day Trial Virtual Appliance

This section gives details for registration of the SonicWall 30-day Trial virtual appliance.

(i) **NOTE:** Before starting the registration process, contact SonicWall Sales to obtain your serial number and authorization code.

#### To register the 30-day Trial:

- 1. Log in to your SMA 8200v-standalone for Azure.
- In the System Configuration group, select General Settings > Licensing > Edit. The Manage Licenses page displays.
- 3. Log in to your CMS for Azure.
- In the Management Server group, select Configure> General Settings > Licensing > Edit. The Manage Licenses page displays.
- 5. Under Online Licensing, click Register. This should take you to a MySonicWall login.
- 6. Enter your MySonicWall.com account username or email address and password in the appropriate fields and click **Submit**.
- 7. In the License Management page, enter the Serial Number or Activation Key for your new appliance. Enter the Authentication Code for your new appliance.

MySonicWall License N	anager
Enter your 12 character S	tware Serial Number and Authentication Code
Serial Number:	
Authentication Code:	What is this?
Friendly Name:	
Submit	
	Return

- 8. Enter a Friendly Name.
- 9. Click **Submit** to finish the registration process.
- 10. You have successfully registered your SMA 8200v-standalone and CMS for Azure. Click **Continue** to view the **License Management** screen or continue configuring other settings within the appliance.
- 11. Click Login.
- 12. When the registration confirmation page displays, click **Continue**.

## Converting a Free Trial License to Full License

An SMA 8200v-standalone and CMS for Azure instance is installed as a 30-day free trial can easily be converted to a full production license.

#### To convert your free trial to a production version:

- 1. Purchase an SMA 8200v-standalone and CMS for Azure license from a distributor. You should receive a fulfillment email with the new serial number and authentication code.
- For SMA 8200v-standalone, In the System Configuration group, select General Settings > Licensing > Edit.

The Manage Licenses page displays.

- For CMS, In the Management Server group, select Configure> General Settings > Licensing > Edit. The Manage Licenses page displays.
- 4. In MySonicWall, click to **Register** a new instance.
- Enter the Serial Number and Authentication Code you received after purchasing your SMA 8200vstandalone and CMS for Azure instance. Your SMA 8200v-standalone and CMS for Azure is now registered.

# Exporting a Copy of Your Configuration Settings

Before beginning the update process, export a copy of your SMA 8200v-standalone and CMS for Azure configuration settings to your local machine. The Export Settings feature saves a copy of your current configuration settings on your SMA 8200v-standalone and CMS for Azure, protecting all your existing settings in the event that it becomes necessary to return a previous configuration state.

To save a copy of your configuration settings and export them to a file on your local management station:

Go to **AMC > Maintenance > Import/ Export** and save the settings file to your local machine. The default settings file is named <*SMAHostName*>\_12.4.3-<*buildnumber*>\_<*current date*>-<*current time*>.aea.

Go to **CMS > Management Server > Maintain Server > Maintenance > Import/ Export** and save the settings file to your local machine. The default settings file is named *<SMAHostName>\_12.4.3-<buildnumber>\_<current date>-<current time>.aea.* 

SonicWall Support

Technical support is available to customers who have purchased SonicWall products with a valid maintenance contract.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. To access the Support Portal, go to https://www.sonicwall.com/support.

The Support Portal enables you to:

- View knowledge base articles and technical documentation
- View and participate in the Community forum discussions at https://community.sonicwall.com/technology-and-support.
- View video tutorials
- Access https://mysonicwall.com
- Learn about SonicWall Professional Services at https://sonicwall.com/pes.
- Review SonicWall Support services and warranty information
- Register for training and certification
- Request technical support or customer service

To contact SonicWall Support, visit https://www.sonicwall.com/support/contact-support.

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## About This Document

Secure Mobile Access SMA and CMS on Azure Getting Started Guide Updated - January 2024 Software Version - 12.4 232-005705-00 Rev C

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For more information, visit https://www.sonicwall.com/legal.

### End User Product Agreement

To view the SonicWall End User Product Agreement, go to: https://www.sonicwall.com/legal/end-user-product-agreements/.

## Open Source Code

SonicWall Inc. is able to provide a machine-readable copy of open source code with restrictive licenses such as GPL, LGPL, AGPL when applicable per license requirements. To obtain a complete machine-readable copy, send your written requests, along with certified check or money order in the amount of USD 25.00 payable to "SonicWall Inc.", to:

General Public License Source Code Request Attn: Jennifer Anderson 1033 McCarthy Blvd Milpitas, CA 95035