SonicWall® Secure Mobile Access 12.1 Central Management Server with Global High Availability

Administration Guide



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About this Guide

This guide contains installation procedures and configuration guidelines for deploying the SonicWall® Central Management Server (CMS) with Global High Availability (Global HA) for Secure Mobile Access (SMA).

This guide provides the following information:

CMS Configuration

- Introduction to CMS describes the Central Management Server with Global High Availability and its features.
- Installing and Configuring the Central Management Server includes procedures for setting up and installing the CMS, setting up VPN appliances to be managed, defining the collection of managed appliances, and monitoring appliances from the CMS Dashboard.
- Configuring Appliances for Central Management includes information about configuring appliances for central management.
- Using the Management Console Menus explains the choices available with the CMS menus for operating and controlling the CMS and Managed Appliances. This includes information about Alerts, Configuration, Monitoring, and Maintenance.
- Central User Licensing includes information about the Central User Licensing (Pooled Licensing).
- Global High Availability describes the Always Online VPN service that is enabled for users when GTO is enabled.
- Alerts and SNMP contains information about how the CMS provides a new SNMP MIB that queries the CMS and managed appliances to get health and metrics data associated with the CMS as well as generating SNMP traps for critical alerts.
- Capture Advanced Threat Protection includes information about using the Capture ATP service to analyzes various types of content for malicious behavior.

GTO Configuration

- Introduction to Global HA and GTO provides overview information about CMS with Global HA,
- Planning GTO Deployment describes how to configure the GTO service with CMS and ensure a highly available and optimized VPN infrastructure.
- Setting up GTO describes how to make deploying GTO easier by planning and adhering to a few guidelines.
- Extending GTO Deployment describes how to deploy and configure additional SMA appliances.

SonicWall Support

• SonicWall Support includes Information about contacting technical support.

Guide Conventions

The following conventions are used in this guide.

Guide Conventions

Convention	Use			
Bold Text	Highlights field, button, and tab names. Also highlights window, dialog box, and screen names. Also used for file names and text or values you are being instructed to type into the interface.			
Italic Text	Indicates the name of a technical manual, emphasis on certain words in a sentence, or the first instance of a significant term or concept.			
	Italics text also represents a variable in an expression. It should be replaced with the real item, for example, a file name.			
Menu Item > Menu Item	Indicates a multiple step Management Interface menu choice. For example, System > Status means select the Status page under the System menu.			

CMS Configuration

- Introduction to CMS
- Installing and Configuring the Central Management Server
- Configuring Appliances for Central Management
- Using the Management Console Menus
- Central User Licensing
- Global High Availability
- Capture Advanced Threat Protection
- Alerts and SNMP

Introduction to CMS

Topics

- Overview
- CMS Deployment Options
- What's New in This Release
- Central Management Server
- Central Management Console
- Managed Appliances
- Licensing CMS
- Central User Licenses
- Global Traffic Optimizer
- GMS Deprecation
- FIPS and CMS
- Getting Started in Five Steps

Overview

This section is an introduction to the SonicWall™ Central Management Server (CMS) with Global High Availability (Global HA) and provides important concepts associated with it. CMS is an add-on product for managing multiple Secure Mobile Access (SMA) VPN appliances. It gives customers with multiple appliances a single administrative user interface from where they can manage all their VPN appliances. CMS is a virtual machine that interacts with the managed SMA appliances. CMS reduces the total cost of operation and simplifies the management of multiple VPN appliances for organizations.

Global HA enables SMA appliances to scale performance by deploying multiple appliances under the same service name (e.g. access.example.com). Global HA eliminates a single point of failure and provides resilience whether customers deploy 2 SMA appliances in the same data center or clusters of up to 100 physical and virtual appliances across multiple data centers around the globe. A distributed data store shares user session state and licensing information across the mesh network of SMA appliances in an active-active cluster. This allows for session persistence across data centers. In the event of a fail-over, users get connected to another appliance in the service. Their experience is frictionless and productivity is not impacted. The distributed data store also allows for central user licenses to be shared across appliances and data centers.

NOTE: SMA appliances in the Global HA mesh must be able to communicate with each other via their internet-routable IP addresses in order for them to be able to share information in the distributed data store.

The VPN administrator uses the Central Management Console (CMC) of the CMS to manage all the VPN appliances regardless of location. CMS and managed appliances are closely integrated through native communications secured with TLS.

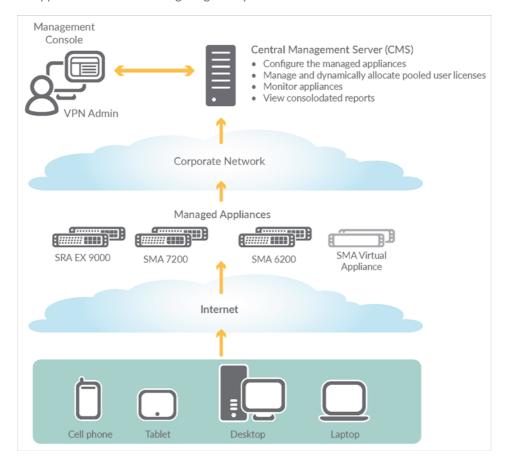
The CMS is a virtual machine, requiring no dedicated appliance or hardware, and provides the following features:

- A single dashboard for managing a distributed VPN infrastructure.
- Simplified license management with a centralized license that eliminates the need for separate appliance licenses. Licenses are shared by appliances
- Central Management Console (CMC) to configure, maintain, and monitor appliances.
- Reduced Total Cost of Operation (TCO) of the VPN infrastructure..
- Reduced operator errors associated with managing multiple appliances that may be in different data centers
- Centralized alerts via the console dashboard and SNMP traps.
- Global High Availability that is enabled with the Global Traffic Optimizer (GTO) service

This dashboard view in the CMC gives the administrator a summarized view of all managed appliances.

Administrators can apply a common configuration to managed appliances from the CMC. Consolidated monitoring and reporting gives the administrator an overview of all the appliances that are being managed.

An administrator can click on a single appliance in the CMC to launch the Appliance Management Console (AMC) for that appliance because of a single-sign on system.



CMS Deployment Options

Depending on your operational needs, CMS can be deployed in four phases:

• Phase 1: Deploy CMS to only monitor and maintain standalone SMA appliances

This gives you a dashboard view and a single console from which to monitor and maintain all your SMA appliances.

• Phase 2: Enable Central User Licenses on CMS

Central user licenses allows you to optimize user licenses across all your SMA appliances.

• Phase 3: Use CMS to manage configurations

A centralized policy on the CMS, that is normalized across all your SMA appliances, simplifies configuration management, and gives users a consistent experience when they get connected to any appliance in your VPN infrastructure.

Phase 4: Enable Global High Availability using the Global Traffic Optimization Service

GTO provides a highly available VPN infrastructure where users connect to a single domain name (such as access.example.com) and get redirected to an available and proximate appliance. Central User Licensing and centralized policies are prerequisites for enabling GTO.

What's New in This Release

Version 12.1 of the Secure Mobile Access (SMA) Central Management Server (CMS) with Global High Availability (Global HA) includes these new features and changes:

- Global High Availability
- Capture Advanced Threat Protection

Global High Availability

Global High Availability (Global HA) facilitates global high availability with load distribution and disaster recovery capabilities across the SMA appliances in the GTO service. The high availability can be deployed in a single datacenter or across dispersed data centers.

Capture Advanced Threat Protection

Capture Advanced Threat Protection (Capture ATP) is a cloud-based service that analyzes various types of content for malicious behavior. This function is integrated with the WorkPlace File Explorer feature. When files are uploaded, the file can be sent to the Capture ATP service for analysis.

New User Licensing Options

SMA 12.1 provides new user licensing options:

- Central Spike User Licenses
- Central Email Licenses
- Perpetual Pooled Licenses

What's Deprecated in This Release

These features are no longer supported in SMA 12:

GMS Deprecation

GMS Deprecation

SMA 12 does not support the SonicWall Global Management System (GMS). SMA 12 appliances must be managed by the Central Management Server (CMS).

Central Management Server

CMS is only available as a virtual machine. Details about the supported platforms is listed in Supported Platforms for CMS with Global HA.

CMS can manage up to 100 appliances (physical and virtual appliances), but before an appliance can be managed it must be registered with CMS. CMS registration is secured with encryption using a one time password. Its purpose is to bootstrap TLS communication by exchanging public keys. Following registration all CMS/appliance communication is secured with TLS.

The CMS communicates with each managed appliance to receive:

- Data on the Control channel for configuring, licensing, maintaining appliances.
- Periodic health and status information from managed appliances.

CMS periodically communicates with MySonicWall for license validation. This ensures correct system wide timing and use of licenses.

CMS also requires access to the following two online services:

	SonicWall Licensing Server	SonicWall Geo Server		
FQDN	software.sonicwall.com geows.global.sonicwall.co			
IP addresses	204.212.170.115	208.17.117.116		
	217.149.45.76			
Ports	80	80		
	443	443		

NOTE: CMS must also be able to communicate with the internal IP address on Port 8444 for each SMA appliance.

(i) NOTE: Do not use more than one CMS for a single managed appliance.

Central Management Console

The Central Management Console (CMC) provides the user with a single screen (called the Dashboard) to show Active alerts, Appliance status, License status, and Geographic View of all appliances on a map of the world. The Dashboard also allows you, from a single point to:

- Configure appliances (using push configuration settings).
- Maintain appliances, that is, Upgrade/hotfix, EPC update, and Restart.
- Use a one-click (single sign-on) to the AMC of managed appliance.
- View health history and reports for all appliances.
- Configure alerts, manage alert notifications for appliances or CMS.
- Install a central user license. Central licenses are available to all appliances as user demand changes between appliances.

Managed Appliances

Managed appliances are SMA 1000 series appliances that are registered with the CMS so that they can be centrally managed.

Each managed appliance must be an SMA Version 12.1 (or later) SMA appliance. A group of managed appliances may consist of physical and/or virtual appliances.

In this document, the term SMA 1000 series appliance refers to the EX6000, EX7000, EX9000, SMA 6200, SMA 7200, and SMA 8200v appliances.

(i) NOTE: The Virtual Appliance name has been changed to the SMA 8200v virtual appliance.

Managed appliances send health and status information to the CMS. They accept policy configuration, user licenses, and maintenance commands from the CMS. Managed appliance communication with a CMS is secured with TLS.

(i) NOTE: CMS must be able to communicate with appliances on port 8444.

Licensing CMS

CMS has the ability to manage appliances licensed with different feature sets. Unlike SMA appliances, the CMS contacts the online SonicWall License Manager service to obtain its license.

(i) NOTE: SMA appliances download and import a license file from the MySonicWall portal.

To license the CMS initially, you enter the serial number and authentication code into the CMS console. The CMS then contacts the License Manager service and obtains its license. After that, the CMS periodically contacts the License Manager service to refresh its license.

A CMS Base License is available at no cost from MySonicWall. You enable a CMS Base License by entering the serial number and the authentication code. A CMS Base License allows you to manage three appliances. A CMS Base license comes with a trial for pooled licenses for a limited period of time. A CMS Base License enables you to use the CMS without pooled licensing. A CMS Base License enables you to manage and monitor licensed SMA appliances. You can upgrade from a Trial License to a Base License.

Central User Licenses (Pooled Licenses) are shared licenses that are available to CMS-managed appliances. To use pooled licensing, you must add Central User Licenses to the CMS Base License. Central User Licenses can be subscription licenses (valid for specific periods of time, such as 1 year or 3 years), or perpetual licenses (without an expiration date).

(i) NOTE: CMS subscription licenses do not have SUPPORT SKUs. CMS subscription user licenses include support costs.CMS perpetual licenses require SUPPORT SKUs.

Central User Licenses

CMS supports an optional pooled licensing model that allows user licenses to be centralized on the CMS and available to the managed appliances. Individual VPN appliances no longer need their own license. Customers with appliances that are globally distributed can benefit from the fluctuating demands for user licenses due to time differences. Central user licenses are available to managed appliances where user demands have peaked when license demand has fallen in other regions due to off-work/night hours. For more information, refer to Central User Licensing.

Global Traffic Optimizer

GTO allows customers to deploy a VPN infrastructure without the need for load balancers or global traffic management using a CMS and SMA 1000 series appliances. The SMA appliances may be located in a datacenter or globally distributed.

GTO allows customers to deploy the SonicWall GTO service. A GTO service is an online VPN service that is enabled by a cluster of SMA appliances working in concert to provide users with a highly available and optimized VPN infrastructure.

The GTO service distributes VPN connection requests from users to the appropriate SMA appliances. Load distribution is done using heuristics based on system parameters that are known and monitored by the GTO service. These parameters include appliance availability, appliance proximity to the user, user load, and appliance capacity.

(i) NOTE: To use GTO with Connect Tunnel, Connect Tunnel must be upgraded to 11.4.0 or above.

FIPS and CMS

FIPS appliances with their own appliance-based license can be registered with a CMS.

- Central user licensing and GTO cannot be used with FIPS.
- A FIPS appliance configuration cannot be imported into the CMS.

Getting Started in Five Steps

- 1 Install and configure the CMS and apply the CMS license. Refer to Installing and Configuring the Central Management Server.
- 2 Configure GTO.Refer to Setting up GTO
- 3 Setup the VPN appliances to be managed. Refer to Configuring Appliances for Central Management.
- 4 Define the collection of managed appliances. Refer to Add/Remove.
- 5 Monitor and manage appliances from the CMS Dashboard. Refer to Dashboard.
- (i) NOTE: When updating an SMA infrastructure that is already in place with upgrades and hotfixes, the managed SMA appliances are updated first, and then CMS is updated last.

Installing and Configuring the Central Management Server

Topics

- Overview
- Supported Platforms for CMS with Global HA
- Hardware Resource Requirements
- Installation Files
- Setting Up a CMS

Overview

The Central Management Server with Global High Availability (CMS with Global HA) is located inside a corporation's intranet. CMS requires a new type of license called a CMS License that is issued by SonicWall.

The CMS runs as a virtual machine that can be hosted on VMware ESX/ESXi or Microsoft Hyper-V. CMS is not designed to run on custom hardware such as VPN appliances.

CMS with Global HA provides the following features:

- Central Management Console (CMC) to monitor, maintain, and configure SMA appliances
- Simplified license management with a centralized license that eliminates the need for individual appliance licenses
- Centralized alerts via the console dashboard and SNMP traps
- Global Traffic Optimizer (GTO)

Supported Platforms for CMS with Global HA

CMS with Global HA runs as a virtual machine on the following hypervisor platforms:

Supported Platforms

VMWare	Microsoft Windows Hyper-V Server 2012 R2		
ESXi 5.5 or higher			
	Windows Server 2016		

CMS with Global HA is supported on the following SMA 1000 series appliances:

•	EX6000	•	EX7000	•	EX9000
•	SMA 6200	•	SMA 7200	•	SMA 8200v (ESX/Hyper-V)

Hardware Resource Requirements

The virtual instance of CMS requires the following hardware resources:

- 8 GB RAM
- 4 CPU

Installation Files

The Central Management Server should run the same firmware version as the appliances it manages.

- To install on VMware hypervisors, the Open Virtualization Archive (.OVA) file with the following file name format is available for import and deployment to your ESX/ESXi server: ex_sra_vm_12.x.x-xxx.ova
- To install in a Microsoft Hyper-V environment, use an International Organization for Standardization (.ISO) file such as: 12.x.x-xxx.iso.

The 12.x.x indicates the SMA release version and xxx represent a build number.

(i) NOTE: The same firmware is used for both the CMS and the SMA 8200v. The Central Management feature is enabled during the setup process.

For information on installing the SMA 8200v, refer to the SMA 8200v Getting Started Guide.

Setting Up a CMS

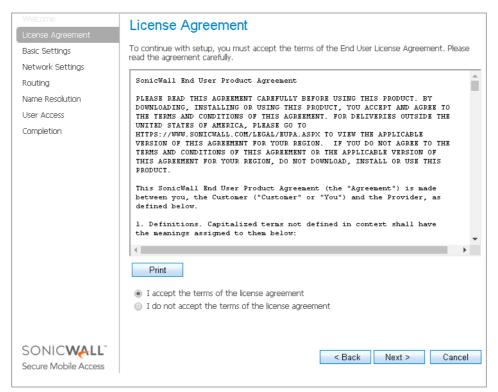
To setup a Centrally Managed VPN infrastructure:

- 1 Setup a virtual instance (ESX or Hyper-V) of the release firmware.
- 2 Start the virtual machine and wait for a login prompt to appear.
- 3 Login as **root** (no password is required).
- 4 Press any key to continue.
- 5 Enter the network settings for the internal interface (labeled **2** on the appliance).
 - IP Address
 - Subnet mask
 - Gateway
 - **(i) NOTE:** If you are on the same network as the appliance, press **Enter** when prompted for the gateway.

6 Continue until instructed to access the console from a browser at https://<Internal-IP-Address>:8443.

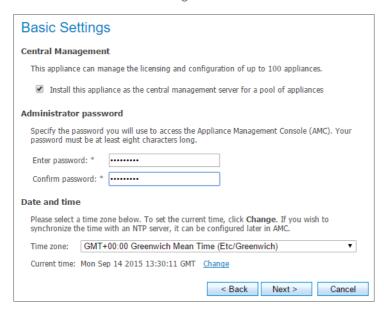


7 Click Next to view the License Agreement.

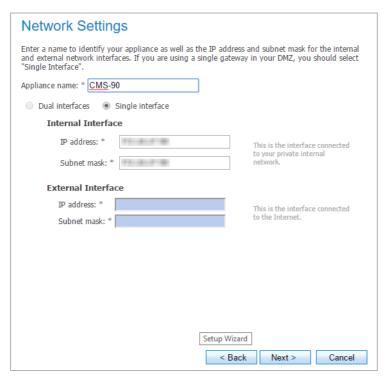


8 Read the agreement and if you agree, select I accept the terms of the license agreement.

9 Click Next to select Basic Settings.



- 10 Select Install this appliance as the central management server for a pool of appliances.
- 11 Under Administrator password, enter the password you want for the administrator and confirm it.
 - (i) IMPORTANT: Be sure to save or write this password down in a secure location. It is encrypted and is difficult to recover if you forget it.
- 12 Under **Date and time**, select the time zone from the **Time Zone** menu.
- 13 Click Next.



14 Enter a descriptive name in the Appliance name field.

- 15 Select the Single interface option.
 - (i) IMPORTANT: CMS should not be set up with a dual interface. HA Pairs are no longer supported.
- 16 Enter the Internal Interface IP address and Subnet mask.
- 17 Click Next.

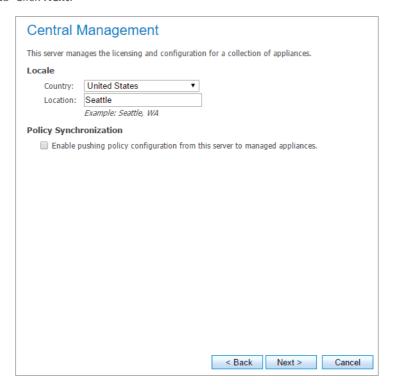


- 18 From the Routing mode menu, select Default gateway.
- 19 In the **Default gateway IP address** field, enter the gateway IP address.
- 20 Click Next.



21 Enter your domain in the **Default domain** field.

- 22 Enter the IP address of the primary DNS server into the **DNS Server** field.
- 23 Click Next.



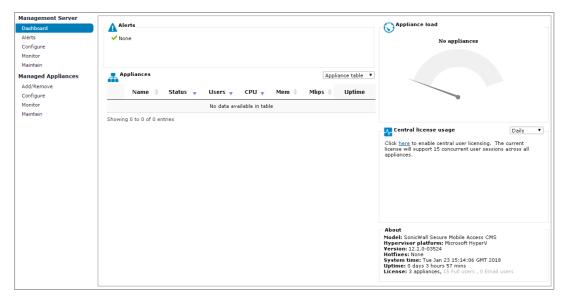
- 24 Under Locale, enter the Country and the Location.
- 25 Select Enable pushing policy configuration from this server to managed appliances.
- 26 Click Next.



27 Click **Finish.** The configuration changes are applied and a **Logon** screen appears.



28 Login with username **admin** and the password that you just configured. The **Central Management Console (CMC) Dashboard** Page appears.



You can now download and install a CMS license from MySonicWall.com. Refer to Licensing Pages.

Configuring Appliances for Central Management

Topics

- Overview
- Firmware Compatibility with the CMS
- Enabling Central Management and Registering an SMA Appliance with the CMS
- Previously Configured Appliances

Overview

This section describes how to configure SMA appliances for CMS with Global HA, so that they become Managed Appliances.

A CMS can manage up to 100 appliances. Managed Appliances can be any combination of physical and virtual appliances (for example, EX6000, EX7000, EX9000, SMA 6200, SMA 7200, and SMA 8200v).

Firmware Compatibility with the CMS

CMS can only manage appliances running compatible firmware versions. It must be at the same firmware version as the managed appliances for features like Global High Availability to work across the cluster of appliances.

CMS can be used to manage appliance that have been upgraded to a new release that is one version above the CMS version. However, newer features on the managed appliances may not work until the CMS is upgraded to the same version as all the managed appliances.

For more information about upgrading CMS and its managed appliances, refer to the SMA 12.1 Upgrade Guide.

Enabling Central Management and Registering an SMA Appliance with the CMS

Before an appliance can be registered with the CMS, it must first be enabled for Central Management. In addition, the CMS must have an unused appliance license (obtained from the CMS license) before an SMA Appliance can be registered. The administrator must enable Central Management and type the One-Time

Password into the console of the SMA appliance. In addition the administrator must register the appliance with the CMS.

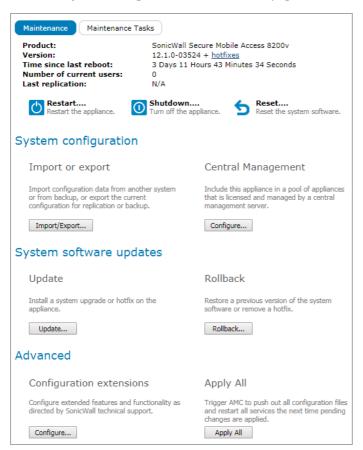
The One-Time Password is used to establish a secure channel, and all subsequent communications go through the secure channel. The appliance uploads its information (model, version, serial#) to the CMS. The CMS pushes a Leased License to the appliance, and then (if configured), pushes the configuration settings to the appliance.

The managed appliance is now online and ready to accept VPN connections.

(i) NOTE: After you have registered a SMA 8200v appliance with a CMS, you cannot re-register it to a different CMS.

To enable central management:

1 Go to the **System Configuration > Maintenance** page.

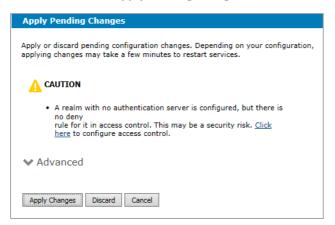


2 Click Configure under Central Management in the System Configuration section.

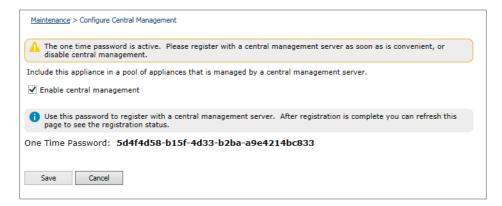


- 3 Verify that **Enable central management** is selected.
- 4 Choose Save.

5 Click on the link to **Apply Pending Changes**.



6 Click **Apply Changes**. The one time password is now active and the appliance is ready to be registered by the CMS.



Previously Configured Appliances

Standalone appliances that were originally configured from their AMC can be registered with a CMS without affecting the appliance's policy settings.

For information on how to synchronize (or not) policy on an appliance from the CMS, refer to Configure.

Using the Management Console Menus

Topics

- Overview
- Management Server
 - Dashboard
 - Alerts
 - Configure
 - Monitor
 - Maintain
- Managed Appliances
 - Add/Remove
 - Configure
 - Monitor for Managed Appliances
 - Maintain for Managed Appliances

Overview

The Central Management Console is the interface you use to manage all the registered VPN appliances. The menu is listed on the left and the content of the window varies depending on the option selected. When you first login to the console, the Dashboard page is the default screen that appears.

The menu has two sections: Management Server and Managed Appliance. Management Server has the commands for central management, licensing and so forth. Managed Appliances have the commands for managing the registered VPN appliances in your infrastructure.

Management Server

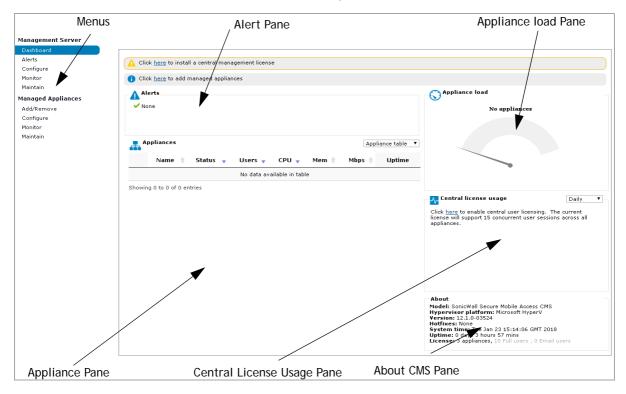
This section provides information about the Management Server commands:

- Dashboard
- Alerts
- Configure
- Monitor
- Maintain

Dashboard

The **Dashboard** page is the first screen that appears after you log in. You can also access it anytime by clicking **Management Server > Dashboard** from the menus.

The Dashboard is divided into the sections illustrated and explained below.



- Menus Contains the commands for central management of your devices.
- Alerts Contains a list of currently active alerts. Select an Alert to view more information.
- **Appliance load** an estimate of the current load on an appliance based on metrics such as CPU and memory usage.
- **Appliances** Shows all online appliances. Select a managed appliance to view information about it Appliances are sorted starting with the appliance with the most users.
- Central License Usage Displays information about license usage.
- **About** Displays CMS Information consisting of Model, Hypervisor platform, Version, Hotfixes, System Time, Uptime, License.

Each pane is independently refreshed with updated information/status.

The Dashboard panes use the following color codes:

- Green (OKAY)
- Yellow (WARNING)
- Red (ERROR)

Alerts Pane

The **Alerts** pane on the Dashboard shows a consolidated view of all currently active alerts that have not been acknowledged by the administrator. These alerts appear when specific thresholds are met. Warnings and Errors are shown on the CMC Dashboard.



Red icons represent critical alerts and yellow icons represent warnings. Errors are listed first, followed by warnings with the most recent being listed at the top of each category.

Alerts can be acknowledged by the administrator by clicking on the X to the right of the it. An acknowledged alert no longer appear in the dashboard, but it re-appears if the state changes. Alerts are automatically removed if the cause of the alert ceases. Click on an individual alert to see the details.

All alerts can be seen when you chose the Alert command. Refer to Alerts for more details.

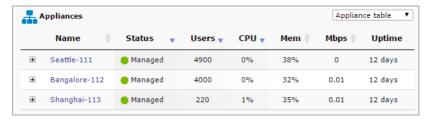
Appliances Pane

The **Appliances** pane displays a quick overview of the appliances being managed. It provide real-time data for online, managed appliances and includes:

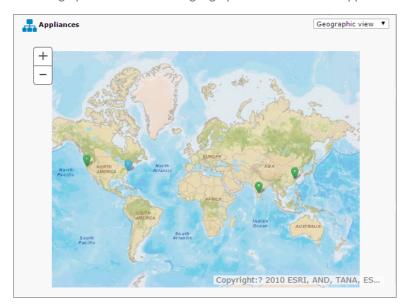
- Name
- Status
- Users
- CPU usage
- Memory usage
- Mbps, Uptime.

The drop down menu on the top, right side provides toggling views of the appliances

• The Appliance Table is the default view.



The Geographic View shows the geographic location of each appliance on a world map.



The Geographic View shows a visual location of the appliance based on its city and country obtained during configuration. You can reposition the icon for an appliance by dragging and dropping the icon to another location. You may need to do this if the icon for an appliance is not correctly positioned on the map, or if multiple appliance icons are positioned too closely to each other.

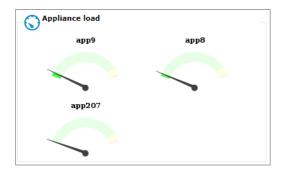
By moving your cursor across the colored icons on the map, details about that appliance appears. In addition, the color of the icon has meaning:

- A blue icon represent the CMS Server and displays Host name and address.
- A green icon represents a selected managed appliance that is online. The interface displays Host, Status, Users, CPU, Memory, Bandwidth information.
- A red icon represents an appliance that is offline.

Zoom (+) and UnZoom (-) buttons allow the map view to be changed. The last map viewed is saved.

Appliance Load Pane

The **Appliance load** pane displays an estimate of the load level of the appliance based on metrics such as CPU, memory usage, and the number of users logged into the appliance. For more information, see the **Appliances**Pane



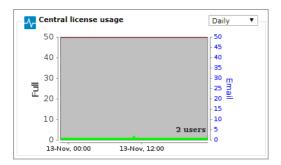
The dial for each appliance displays an estimate of how busy the appliance is:

- Green indicates that the appliance is not very busy.
- Yellow is a warning that the appliance is starting to get busy.

• Red indicates that the appliance is busy or has a 100% load; the user experience may degrade.

Central License Usage Pane

This **Central License Usage** pane displays the history of CMS user license consumption relative to the maximum license capacity. The drop-down menu allows you to change the display to different time periods, such as Now, Hourly, Daily, Weekly, Monthly, and Quarterly.



The graph displays the number of users as a function of time and colors are use to indicate the status of the licensing:

- Green indicates that the CMS license usage is running within the Central User Licensed capacity.
- Yellow indicates that the license capacity has reached 75%, the default threshold for a CMS license usage warning.
- Red indicates that the license capacity has reached 90% threshold, default threshold for the a CMS license usage alert.

About Pane

About

Model: SonicWall Secure Mobile Access CMS
Hypervisor platform: VMware
Version: 12.1.0-03524
Hotfixes: clt-hotfix-12.1.0-04072 pform-hotfix-12.1.0-04072
pform-hotfix-12.1.0-04087
System time: Mon Nov 13 22:16:12 GMT 2017
Uptime: 19 days 14 hours 21 mins
License: 5 appliances, 50 Full users , 50 Email users

The **About** pane displays the information about the Central Management Server:

- Model name
- Hypervisor platform and version number
- Installed hotfixes
- current system time
- current uptime statistics
- licensing summary

Alerts

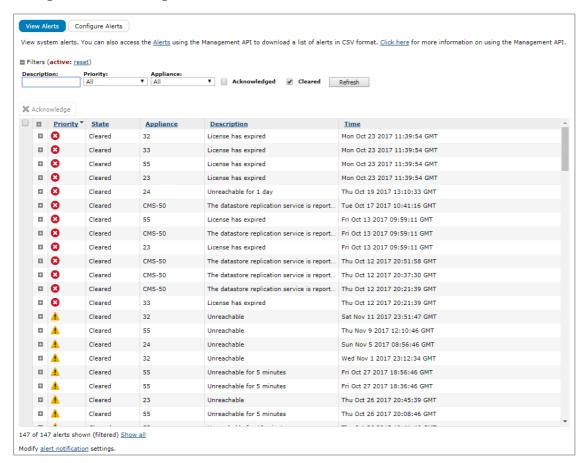
CMS generates alerts that are either Warnings or Errors. Alerts are displayed prominently on the CMS dashboard and can also be accessed by selecting the **Alerts** menu option. Alerts typically originate from a condition that occurs on the CMS or on a managed appliance.

For detailed information about alerts and using alerts with SNMP, refer to Alerts and SNMP.

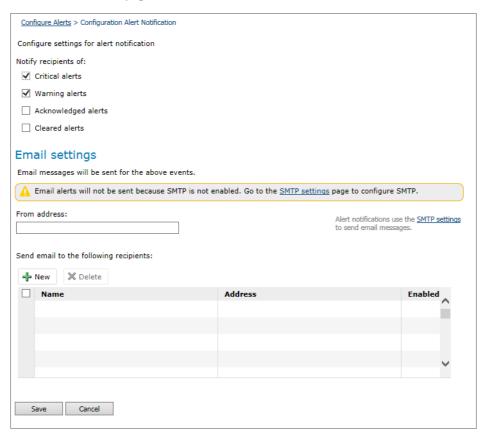
To view and configure alerts:

1 Select Management Server > Alerts. This page has two tabs: View Alerts and Configure Alerts.

The **View Alerts** tab is the default view and shows all the alerts in table form. You can sort the table by clicking on the table headings to sort the data.



2 At the bottom of the page, click **alert notification**.

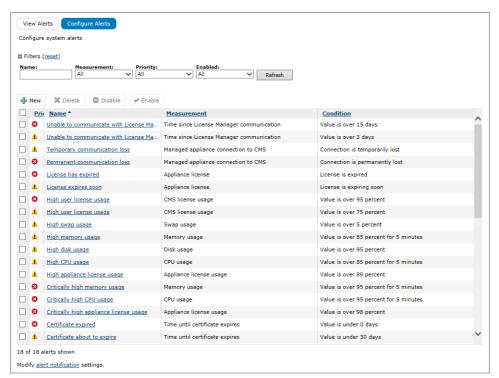


- 3 Select the alerts for which you want to be notified:
 - Critical alerts
 - Warning alerts
 - Acknowledged alerts
 - Cleared alerts
- 4 Under Email Settings, enter the Email address from which alert notifications is sent.
- 5 To add an Email address to send alert notifications to, click the **New** button.
- 6 Enter the **Name** and Email **Address** of the recipient to be notified and click **OK**. Repeat to add more recipients.
 - NOTE: The OK option is location next to the email address field. You may need to expand the window to see it.
- 7 Click Save.

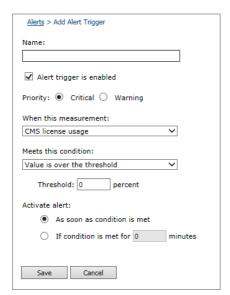
Adding an Alert Trigger

To add an alert trigger:

1 Select to the **Configure Alerts** option.



2 Click New.



- 3 In the **Name** field, enter a name for the alert.
- 4 Select Add trigger is enabled.
- 5 Select the **Priority**.
- 6 Select the other conditions and options that you want.
- 7 Click Save.

Configure

The Configure option allows you to set various options for the Central Management Console. Select Management Server > Configure to see the options.

Central Management Settings

Configure CMS location, central user licensing, global traffic optimizer, and policy synchronization.

Licensing

License holder: "SonicWall" Maximum users: Maximum appliances:

Maximum appliances: 3
Appliance serial number: 004010277D29
Authentication code: 7P7MWAT2

General options

720 minutes credential lifetime Client security: Date and time Wed Apr 26 2017 04:49:46 IST Current time:

Time zone: GMT+05:30 India Standard Time (Asia/Kolkata)

Administration

Define administrators and authentication servers for managing the central management server.

Network Settings

Modify server IP address, routing, and name resolution.

Network Services

Modify settings for server services NTP, SSH, SNMP, and SMTP.

SSL Settings

Modify the management console certificate and SSL settings.

Topics:

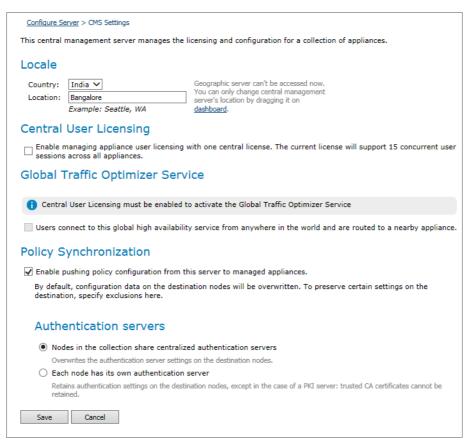
- Central Management Settings
- Licensing Pages
- General Options
- Administration
- Network Settings
- **Network Services**
- SSL Settings

Central Management Settings

Use the **Central Management Settings** option to configure CMS location, central user licensing, Global Traffic Optimizer, and policy synchronization.

To configure the Central Management Settings:

1 Select Management Server > Configure > Central Management Settings.



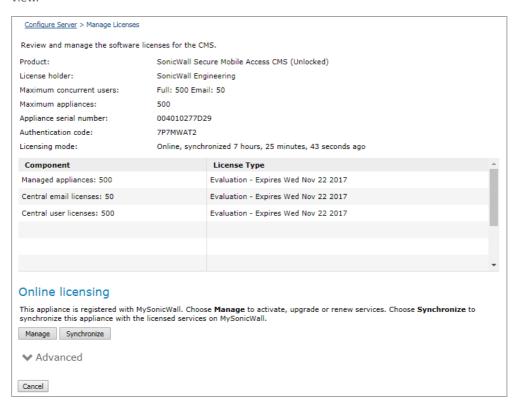
- 2 Under Locale, enter your Country and Location.
- 3 Under Central User Licensing, select Enable managing appliance user licensing with one central license.
- 4 Under Global Traffic Optimizer Service, select Users connect to this global high availability service from anywhere in the world and are routed to a nearby appliance.
 - (i) NOTE: Central User Licensing must be enabled to activate the Global Traffic Optimizer service.
- 5 Under Policy Synchronization, select Enable pushing policy configuration from this server to managed appliances.
- 6 Under Authentication servers, select one of the following:
 - Nodes in the collection share centralized authentication servers
 - Each node has its own authentication server
- 7 Click Save.

Licensing Pages

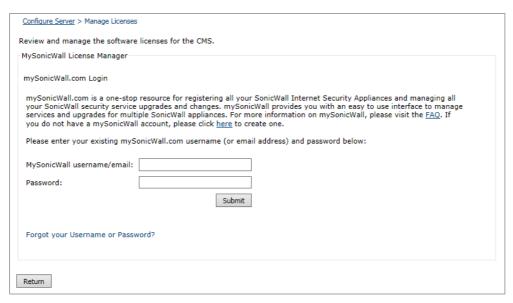
Use the Licensing option to review and manage the software licenses for CMS.

To manage the licenses:

1 Go to the Management Server > Configure > Licensing page. The default view is the Manage Licenses view.



- 2 Review your license information.
- 3 Under Online licensing:
 - Choose **Manage** to activate, upgrade or renew services.
 - Expand the **Advanced** section to manage spike licensing.



- (i) NOTE: If you choose Synchronize, this appliance synchronizes with the licensed services on MySonicWall.
- 4 Login to MySonicWall with your MySonicWall credentials.
- 5 Follow the prompts to manage or create a license.

General Options

Use the **General Options** to control security settings for users and set the date and time.

To configure the General Options:

1 Select Management Server > Configure > General Options.



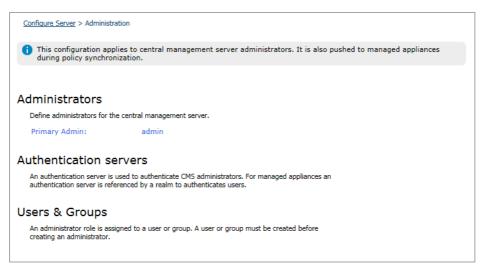
- 2 Set the credential lifetime in minutes. This refers to he length of a user session. If it exceeds the time specified the user is asked to re-authenticate.
- 3 Set the date and time, if needed.
- 4 Click Save.

Administration

Use the **Administration** option to define who the administrators are and what authentication server are used for managing the Central Management Server.

To configure the Administration settings:

1 Select Management Server > Configure > Administration.



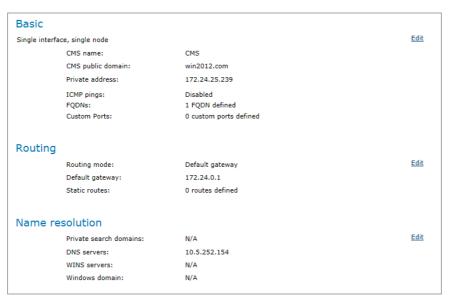
- 2 Select any of the three items: Administrators, Authentication servers, and Users & Groups.
- 3 Make the changes you want.
- 4 When finished, click Save.

Network Settings

Use Network Settings to modify server IP address, routing and name resolution.

To configure the network settings:

1 Select Management Server > Configure > Network Settings.



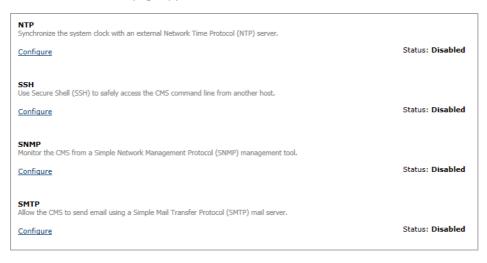
- 2 Click **Edit** to configure any of the **Basic**, **Routing**, or **Name resolution** settings.
- 3 When finished, click Save.

Network Services

Use the Network Services option to modify the settings for server services like NTP, SSH, SNMP and SMTP.

To configure Network Services:

Select Management Server > Configure > Network Services. The Network Services page appears.



- 2 Click Configure for the item you want to configure: NTP, SSH, SNMP, or SMTP.
- 3 Make the desired changes.
- 4 When finished, click Save.

SSL Settings

Use the SSL Settings option to modify the management console certificate and SSL settings.

To configure SSL settings:

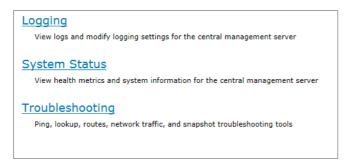
1 Select Management Server > Configure > SSL Settings.



- 2 Click Edit for the item you want to edit: SSL certificates or SSL encryption.
- 3 Make the desired changes.
- 4 When finished, click Save and Apply Pending Changes.

Monitor

The Monitor option allows you to set various options for monitoring. Select **Managed Server > Monitor** to see the options.



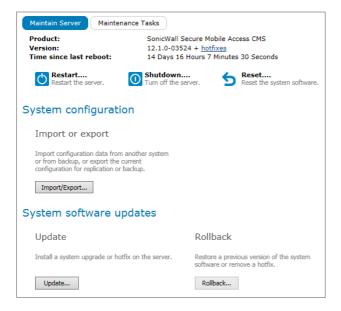
- To view or edit logging settings for the CMS, click Logging. Make the changes and click Save.
- To view health metrics and system information for the CMS, click **System Status**. Make the changes and click **Save**.
- To ping, lookup, view network traffic or use snapshot troubleshooting tools, click **Troubleshooting**. Make the changes and click **Save**.

Maintain

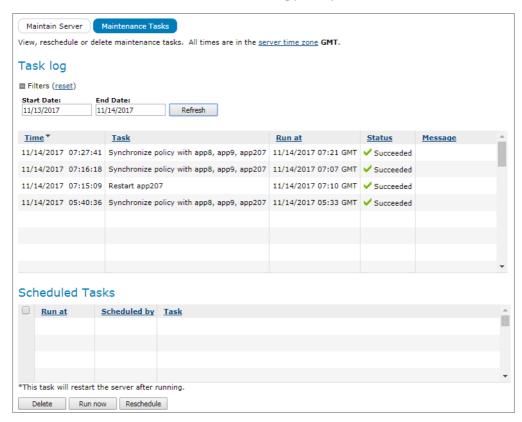
The Maintain option allows you to set various options for monitoring. Select **Managed Server > Maintain** to see the options. The default view is Maintain Server.

To maintain the CMS:

1 Select Management Server > Maintain.



- 2 Do any of the following:
 - To restart the CMS, click **Restart**.
 - To shutdown the CMS, click **Shutdown**.
 - To reset the CMS, click Reset.
- 3 To import or export a system configuration file, click **Import/Export**. Provide additional information on the next window.
- 4 To update the system software to a newer version, click the **Update** button.
- 5 To rollback the system software to a previous version, click the **Rollback** button.
- 6 Click the Maintenance Tasks button. In the Task log panel, you can view the tasks that are scheduled.



- 7 Filter the Task log table by setting a Start Date and End Date and clicking Refresh.
 - (i) NOTE: If the Start Date and End Date fields aren't visible, click on the plus sign (+) by Filters.
- 8 In the **Scheduled Tasks** panel, you can select a task and **Delete, Run now**, or **Reschedule**.

Managed Appliances

This section provides information about the Managed Appliances commands:

- Add/Remove
- Configure
- Monitor for Managed Appliances
- Maintain for Managed Appliances

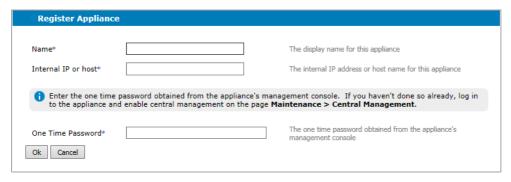
Add/Remove

The Add/Remove option allows you to manage the licensing and configuration for collection of appliances from a central location. Select **Managed Appliances > Add/Remove** to see the Appliance Collection.



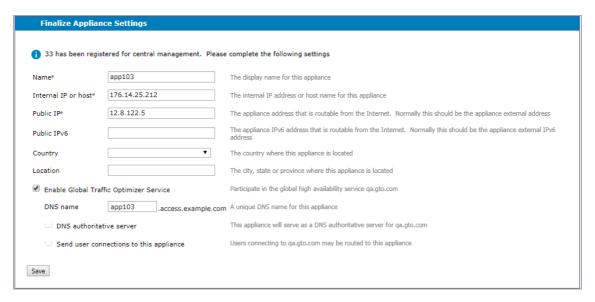
To add a new appliance:

1 Click the **New** button.



- 2 In the Name field, enter a name for the new appliance. For example, Seattle-01.
- 3 In the Internal IP or host field, enter the IP address for the new appliance.
- 4 In the **One Time Password** field, enter the one time password obtained from the **Maintenance > Central Management** page of the SMA appliance.

- 5 Click **OK**. This registers the appliance with the CMS and adds it to the CMS list. The dialog changes with more options.
 - (i) **NOTE:** The client certificate warning, **DNS name** field, and **Public IP** field are only visible when CMS is enabled for GTO.



- 6 From the Country menu, select the country where the appliance is located.
- 7 In the **Location** field, enter the city, state, or province where the appliance is located.
- 8 Select the checkbox for **Enable Global Traffic Optimizer Service**.
- 9 In the DNS name field, enter a unique DNS-legal name for this appliance, for example seattle01.
- 10 In the **Public IP** field, enter the internet-visible, public IP address for this appliance.
 - (i) NOTE: The Public IP should be the address by which remote users will access this appliance. The default IP address is the external IP address of the appliance. The public IP address may be different from its external IP address if the public WAN addresses are using NAT at the DMZ.
- 11 Check the box for **DNS authoritative server** if this appliance will be delegated in public DNS as an authoritative server.
- 12 Check the box for **Send user connections to this appliance**, so that users connecting to access.example.com may be routed to this appliance.
- 13 Click Save.

To delete a managed appliance:

- 1 Select the appliance you want to delete.
- 2 Click the **Delete** button.
- 3 Click OK.

Configure

Topics:

- Overview
- Configuring the Managed Appliances

Overview

An administrator can import policies from an existing appliance and define configurations. Policies can be applied to all appliances or just a subset. An existing managed appliance configuration may be partially imported into the CMS to startup the CMS global configuration.

Services do not need to be restarted after this configuration.

The first time the CMS synchronizes a policy with an appliance, it overwrites the policy on the appliance. This is equivalent to the appliance partially importing the CMS configuration. After the initial policy synchronization, further policy synchronizations replicate the CMS configuration onto the appliance.

Also, after the initial policy synchronization, the administrator can manually modify the address pools of the appliance and the authentication servers. The administrator changes are not overwritten during subsequent CMS policy synchronizations.

The policy settings that are replicated during synchronization are:

- Security policy, including access control rules and EPC configuration
- Network resources
- Users and groups
- Realms
- Authentication servers (the authentication server names should match those on the sending node, even if the IP addresses do not).
 - NOTE: When you define a collection of appliances, you have the option of either overwriting authentication server settings (which would be typical in a deployment where there is a shared, central server), or excluding server settings from being overwritten during replication.
- WorkPlace shortcuts
- CA certificates
- Certificate revocation lists downloaded from a remote CDP (CRL distribution point)
- Agent configuration, including graphical terminal agents (Citrix and Windows Terminal Server) and Web browser profiles
- Local user accounts
- Single sign-on profiles

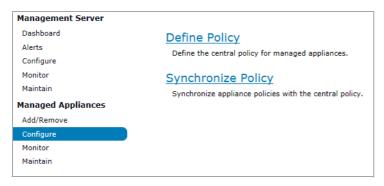
The policy settings that are not replicated during synchronization are:

- Network settings, including IP addresses, routing information, name resolution settings (DNS and WINS), and the settings for the network services (NTP, SSH and SNMP)
- The unique list of fallback servers configured for your Connect Tunnel users
- License files
- SSL certificates

- WorkPlace configuration data (customized templates)
- Administrator user accounts and role definitions
 - NOTE: You can optionally exclude authentication server settings from being overwritten during replication, which is typical for a deployment where each appliance has its own authentication server.

Configuring the Managed Appliances

Select Managed Appliances > Configure to see the configuration options.



- The Define Policy option provides access to the Security Administration, User Access, and System Configuration policy pages.
- The **Synchronize Policy** option allows you to view and schedule policy synchronization events.

Define Policies

To define policies:

1 Go to Managed Appliances > Configure > Define Policy.

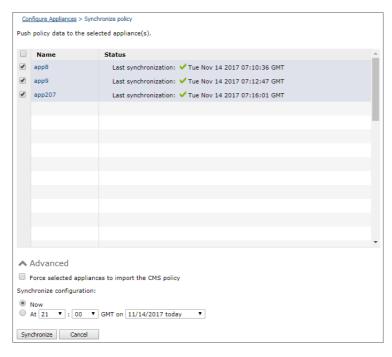
Security Administration **Access Control** Review and manage your access control rules. Resources Manage web, network, and file system resources. Manage resource groups and variables. Users & Groups Manage users and groups **User Access** A realm references an authentication server and determines which access agents are provisioned to your users and what end point control restrictions are imposed **Network Tunnel Service** Manages TCP/IP connections from the network tunnel clients (Connect Tunnel and OnDemand Manages HTTP and TCP/IP connections from web browsers, OnDemand, and Connect Tunnel. Manage workplace shortcuts, shortcut groups, sites, appearance, and settings. **Agent Configuration** Manage access agents and other agents. **End Point Control** Manage end point control settings

- 2 Under Security Administration, define
 - Access Control
 - Resources (web, file, group and variables)
 - Users & Groups
- 3 Under User Access, define:
 - Realms
 - Network Tunnel Service
 - Web Proxy Service
 - WorkPlace
 - Agent Configuration
 - End Point Control
 - Capture Advanced Threat Protection
- 4 Under System Configuration, define:
 - Administrators
 - Authentication Servers
 - CA certificates
 - OSCP (Online Certificate Status Protocol)
- 5 When you are finished defining a policy, click **Save** or **OK**.

Synchronize Policy

To synchronize a policy:

1 Go to Managed Appliances > Configure > Synchronize Policy.



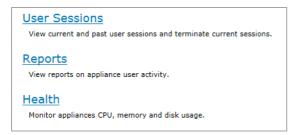
2 Click **Advanced** to open the **Advanced** panel.

- 3 Select the **Force selected appliance to import the CMS policy** checkbox. This triggers the next synchronization (or scheduled sync) to overwrite the policies of the selected appliances with the CMS policy (just as the initial policy synchronization would). This is a way to reset appliance policy to the baseline CMS policy.
- 4 Select **Now** if you want to synchronize immediately, or select **At** and choose the time and date from the drop-down menus to schedule the synchronization.
- 5 Click Synchronize.

Synchronizing a policy does not usually terminate existing user sessions. If a synchronization does terminate any user sessions, a warning message is displayed for that appliance on the **Sync Policy** page.

Monitor for Managed Appliances

The Monitor option for Managed appliances provides detailed information on **User Sessions**, **Reports** and **Health**. Select **Managed Appliances > Monitor** to see the options.



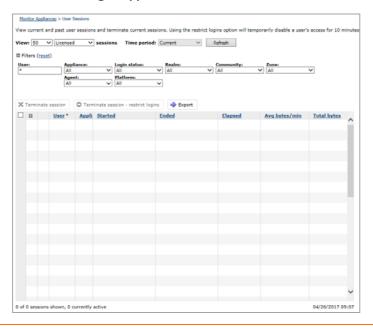
User Sessions

On the User Sessions page, you can view current and past user sessions and terminate current sessions.

If you select a session and then select the **Terminate session-restrict logins** option, it temporarily disables the user's access for up to 10 minutes.

To monitor user sessions:

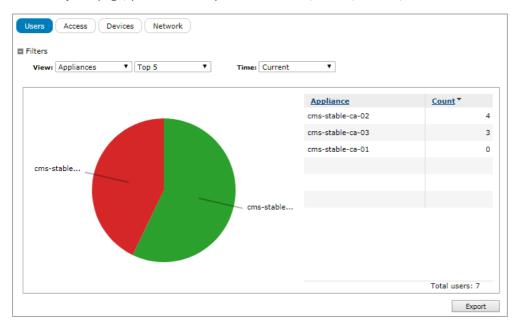
1 Go to the Managed Appliances > Monitor > User Sessions.



- 2 Define the how the data appears in the table:
 - a In the View field, select the number of users to show per page.
 - b In the **sessions** field select the type of session to view: **Licensed**, **All open**, or **All**.
 - c From the drop-down menus under **Filters**, select the items you want to view or manage.
- 3 If you want to filter the data further, select options from the drop down lists under **Appliance**, **Login status**, **Realm**, **Community**, **Zone**, **Agent**, and **Platform**.

Reports

On the Reports page, you can view reports about Users, Access, Devices, and the Network.



- **User** View reports that show the number of user sessions on appliances or realms, for example, the number of user sessions currently on selected appliances, or the count for each of the top five realms of licensed users for the last day.
- Access View reports that show the policy rules matched and destinations accessed by users on
 managed appliances, for example, the top five permit rules and how many times they have been
 enforced over the last hour, or the count for each of the top five most accessed destinations over the last
 day.
- **Devices** View reports that show the platforms and zones in use by users, for example, a user's platform distribution for the last week, or a user's zone placement count for the last month.
- **Network** View reports on the bandwidth consumption of appliances and the data transferred to users. For example, the top five users who transferred the most data and how much they transferred over the last hour or over the last three months, or view the top five appliances that consume the most bandwidth and how much they are currently consuming.

To view the reports:

- 1 Select the category: **Users**, **Access**, **Devices**, or the **Network**.
- 2 From the drop down lists, select the options for **View**.
 - (i) NOTE: The option for the View fields vary according to the type of report selected.

3 Select an option from the **Time** drop down list.

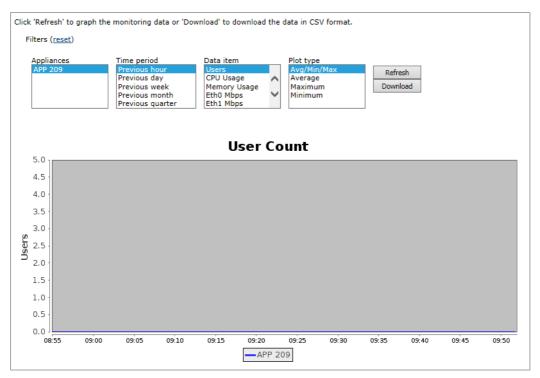
The display adjusts according to the selections made. Select **Refresh** to refresh the data in the report. Select **Export** to export the data to a CSV file.

Health

On the **Health** page, you can set up and monitor various health metrics on a graph that charts users against time. The data is downloadable to a CSV file.

To monitor health metrics:

1 Go to the Managed Appliances > Monitor > Health.

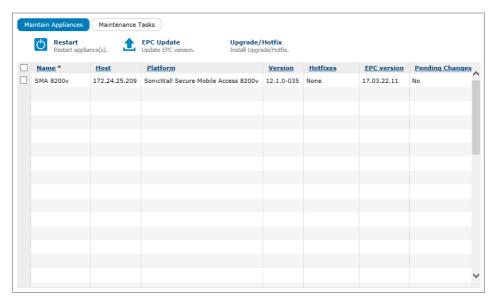


- 2 From the **Appliances** menu, select the appliance you want to graph.
- 3 From the **Time period** menu, select the time period you want the graph to display.
- 4 From the **Data item** menu, select the data you want the graph to display.
- 5 From the **Plot type** menu, select the type of graph you want to plot.
- 6 Select **Refresh** to refresh the data or select **Download** to download the data to a CSV file.

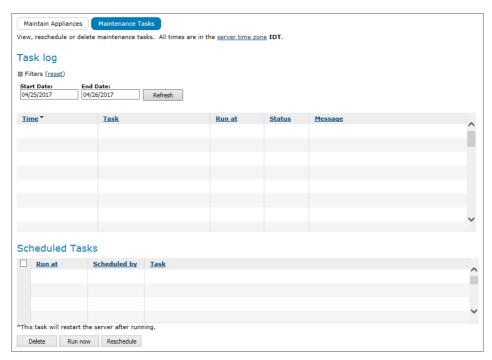
Maintain for Managed Appliances

To maintain a managed appliance:

1 Go to the Managed Appliances > Maintain page. This page has two options: Maintain Appliances and Maintenance Tasks.



- 2 Under the **Maintain Appliances** tab, check the box for an appliance and use the buttons across the top to perform any of the following tasks: **Restart**, **EPC Update**, **Upgrade/Hotfix**.
- 3 Select the Maintenance Tasks tab.



- 4 In the **Task log** panel, you can view the tasks that are scheduled.
- 5 In the **Scheduled Tasks** panel, you can select a task and **Delete**, **Run now**, or **Reschedule** that task.

Central User Licensing

Topics

- Overview
- How Central User Licenses Work
- Enabling Central User Licensing
- Getting Started with Central User Licensing

Overview

Central User Licensing is an optional feature that allows a CMS to share a pool of user licenses among managed appliances. Managed appliances do not have their own user licenses and share the common pool of licenses. Customers with appliances that are globally distributed can use their licenses more efficiently with central user licenses where user demands peaks in one geographic area while it falls in a different geographic area due to off-work/night hours. Appliances that are in a datacenter can share licenses instead of having individual licenses for each appliance. When new or replacement appliances (physical or virtual) are added under CMS management, they get to share the pool of central user licenses.

Central user licensing must be enabled to use Global High Availability.

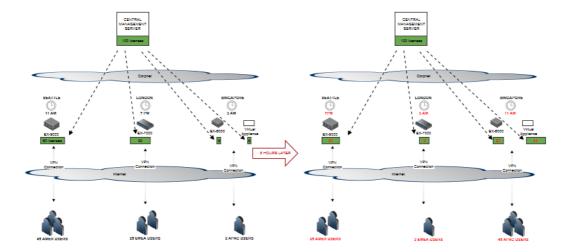
(i) **NOTE:** If CMS is used to manage appliances that have their own license, the administrator is responsible for ensuring that licenses across all managed appliances have the same features. CMS cannot manage configurations on appliances with a heterogeneous set of licensed features.

How Central User Licenses Work

User licenses do not have to be applied to individual VPN appliances. The pooled licensing model allows central user licenses to be shared among the managed appliances. Central user licensing makes use of a distributed data store to keep track of license usage. The distributed data store has storage nodes on multiple appliances so that central user licensing is resilient to the failure of (or communication loss with) the CMS or any one appliance.

NOTE: Managed appliances must be able to communicate with each other via their *internet-routable IP* addresses in order for them to be able to share information in the distributed data store.

The following drawing illustrates centrally managed licenses for globally located VPN appliances.



(i) NOTE: Beginning with the SMA 12.1 release, CMS no longer uses "leased licenses". Instead, a distributed data store is used to track user license consumption for each appliance and to regulate the total number of pooled user licenses being used.

In the event of a CMS failure (or loss of communication):

- Managed appliances will continue to access the distributed data store and share central user licenses
- All central user licenses will expire in 30 days if the CMS does not recover and re-establish communication

In the event an appliance is orphaned (unable to communicate with the CMS or other appliances):

• An orphaned appliance will have access to the all the central user licenses (and spike licenses) for 7 days or until communications are re-established.

In the event of a communications loss between the CMS and MySonicWall:

• The central user licenses continue to be valid for 30 days.

Topics:

- Central Spike User Licenses
- Central Email Licenses
- Perpetual Pooled Licenses

Central Spike User Licenses

Spike licensing allows temporary increases in the number of available licenses to meet sudden increases in demand for licenses due to inclement weather or disaster. Spike licenses can be applied to a CMS using either a subscription user license or perpetual user license. Spike user licenses are "full" user licenses and allow any type of connection (e.g., tunnel, web, ActiveSync). A spike license is automatically activated for a day if the user session count exceeds the CMS user license count.

When a spike is active, it allows the appliances to service up to sum of:

- the CMS base license max user count
- the spike license max user count

The CMS Dashboard and Licensing page will indicate that a spike is in effect, along with its Start and Stop times.

A central spike license allows any of these user licenses to spike:

- Subscription full-user license
- Subscription tiered-user license
- Perpetual full-user license
- (i) NOTE: When a spike license is installed on a CMS with a subscription user license, and the subscription license expires, the spike will remain enabled.

When SMA is licensed with a standalone license, and that license is expires, the spike license also expires.

The CMS administrator can control whether or not to use automatic spike licensing.

Central Email Licenses

Different terms for central email licensing are available:

Full license permits a connection of any of these connection types: - VPN tunnel,

web, ActiveSync, or Outlook Anywhere

Tiered license permits a connection of a specific connection type: VPN tunnel, web,

ActiveSync, or Outlook Anywhere

Email license a tiered license that permits an ActiveSync or Outlook Anywhere

connection

Depending on which licensing terms are available for the appliance, licensing for email connections will be applied in this way:

- During operation, if an ActiveSync connection request is made and Email licenses are available, then an Email license will be used.
- If all Email licenses are consumed and an ActiveSync connection request is made (and full licenses are available), then a full license will be used.
- The license that is issued when a connection begins will remain with the connection until it ends.

Perpetual Pooled Licenses

Perpetual pooled licenses are CMS-based user licenses that do not expire in the way that subscription-based licenses do:

- Perpetual licenses are full user licenses and allow any type of connection (e.g., tunnel, web, ActiveSync).
- Perpetual CMS licenses are stackable. Licenses remains perpetual after being stacked.
- (i) NOTE: Perpetual CMS user licenses cannot be stacked with a subscription CMS user license.

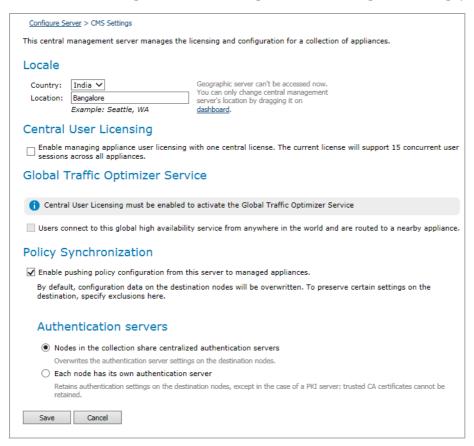
These licenses and components can be used with a perpetual pooled license:

- subscription email license
- subscription Capture CMS license
- time-limited subscription components

Enabling Central User Licensing

To enable Central User Licensing on the CMS:

1 Go to the Management Server > Configure > Central Management Settings page.



- 2 Under Central User Licensing, select Enable managing appliance user licensing with one central license.
- 3 Click Save.

Getting Started with Central User Licensing

This section describes how to migrate from a standalone appliance to CMS with Global HA and Central User Licenses.

Topics

- Setting Up CMS to Use Central User Licenses
- Setting up CMS for Centralized Appliance Configuration and Management

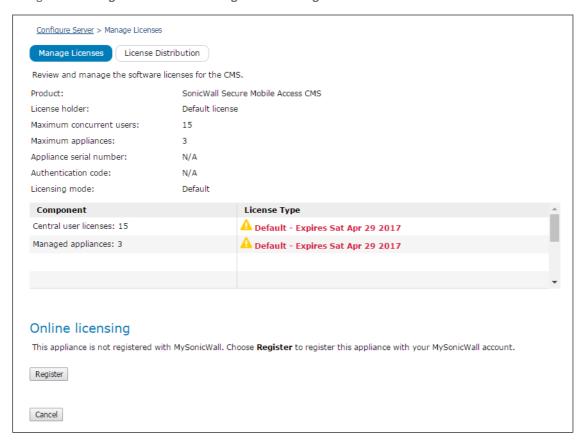
Setting Up CMS to Use Central User Licenses

Once you have SMA appliances registered with CMS, you can transition to Central User Licensing.

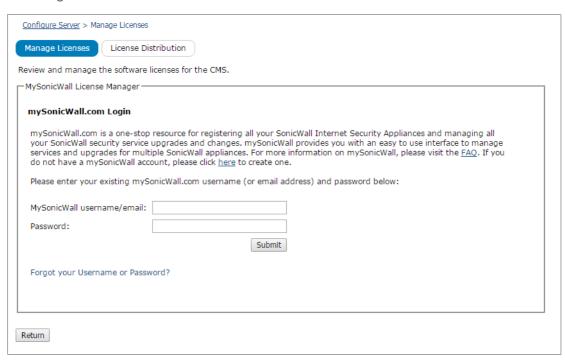
NOTE: If you have an HA Pair, you need to engage with SonicWall Sales to exchange your HA pair licenses for CMS-based Central User Licenses.

To transition standalone SMA appliances to use the Central User License model:

- 1 Log into the Central Management Console.
- 2 Navigate to Management Server > Configure > Licensing.



3 Select Register.

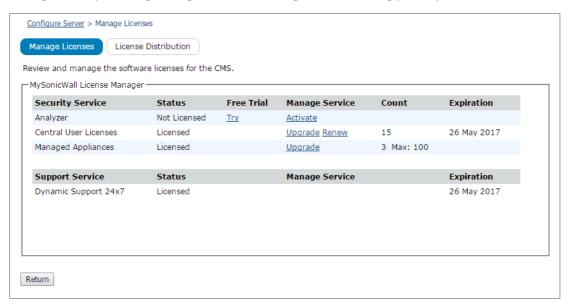


4 Enter the MySonicWall credentials of the MySonicWall account who owns the licenses for the Central Management Server.

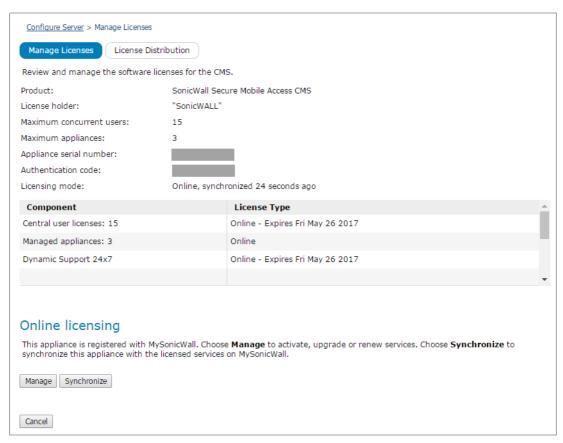


- 5 Enter the serial number and authentication code that match the license in MySonicWall.
- 6 Enter a friendly name to identify this CMS in your MySonicWall account.

7 Select **Submit**. You see the MySonicWall view of your license. You can get back to this at any time after are registered by choosing **Manage Licenses** > **Manage** and re-entering your MySonicWall credentials.



8 Select **Return**. This is the normal view of a registered CMS license. It shows the licensing mode as online and how long since it was last synchronized. It should never be more than 24 hours since was last synchronized.



(i) NOTE: You can also select Synchronize to force an immediate synchronization with the backend.

Setting up CMS for Centralized Appliance Configuration and Management

Once you have a cluster of SMA appliances that share a central license pool and you can monitor and maintain them from a single console.

If your appliances have very different configurations, you should normalize the differences so that you can take full advantage of CMS, GTO, and Global HA.

To use CMS to centralize appliance configuration management:

- 1 Normalize the appliance configurations.
- 2 Export the configuration from your SMA appliance.
- 3 Import the configuration to CMS.
- 4 Synchronize the CMS policy with the managed appliances.
- 5 Configure the CMS as described in Configure.

Resetting a CMS License

The license state on a Central Management Server can be reset or undone.

- 1 Navigate to the **Licensing** page.
- 2 Add?troubleshoot=1.
- 3 Select Reset.

This reboots the CMS with no license and it can be registered again with MySonicWall.

Global High Availability

Global High Availability (Global HA) facilitates global high availability with load distribution and disaster recovery capabilities across the SMA appliances in the GTO service. The high availability can be deployed in a single datacenter or across dispersed data centers.

Topics:

- High Availability of the VPN Service
- High Availability of the CMS
- Disaster Recovery for the VPN Service
- Global High Availability Versus HA Pair

(i) NOTE: Global High Availability replaces the HA Pair model. Secure Mobile Access version 11.4 is the last version of SMA that supports HA Pairs. See the Comparison of HA Pair and GTO with Global HA table for a comparison of the two models.

High Availability of the VPN Service

Global High Availability (Global HA) is configured from the CMS console by first enabling the Global Traffic Optimizer (GTO) service. Users access the VPN using the service name (e.g. access.example.com) in the VPN tunnel clients (Connect Tunnel or Mobile Connect) or the web client. The GTO service directs user connections to an appliance that is available.

Global HA enables SMA appliances to scale performance by deploying multiple appliances under a service name. Global HA eliminates a single point of failure and provides a highly available global VPN service. Customers can deploy 2 SMA appliances in the same data center or deploy clusters of up to 100 physical and virtual appliances across multiple data centers around the globe.

A distributed data store shares user session state as well as licensing information across the mesh network of SMA appliances. This allows for session persistence across appliances. In the event of a failover, users are connected to another appliance in the service. The distributed data store also allows for central user licenses to be shared across appliances and data centers.

All of the SMA appliances that are configured for the GTO service participate in the highly available VPN service. If an appliance that is part of the service fails due to hardware, power, or network issues:

- New connection requests (by tunnel or web clients) will get directed to other available appliances.
- Existing connections (that were connected to the appliance that failed) are automatically reconnected to another available appliance. Users typically do not need to re-enter their credentials.

High Availability of the CMS

Customers can setup their CMS in a virtual infrastructure (ESXi or Hyper-V) that supports high availability. The following HA models can be used to enable a fault tolerant CMS.

CMS High Availability and Disaster Recovery Features

CMS Global HA and Disaster Recovery Scenarios	VMware ESXi	Microsoft Hyper-V	Comments
HA Clustering	Yes	Yes	Seamless transition of CMS in a HA cluster from host 1 to host 2, when host 1 is rebooted or shutdown
Cloning of CMS	Yes	Yes	CMS can be successfully cloned followed by resumption of communication with managed appliances and the License Manager service.
Export/Import	Yes	Yes	CMS could be successfully exported from host 1 and imported to host 2 followed by resumption of communication with managed appliances and the License Manager service.
Snapshot/Checkpoint	Yes	Yes	Successful preservation and transition

Disaster Recovery for the VPN Service

Customers can setup Disaster Recovery (DR) for VPN by locating appliances that are in a Global Traffic Optimizer (GTO) service at different data centers.

Disaster recovery of the VPN service enables the continuation of remote access capabilities when a disaster or failure occurs to a major location. Users use the same GTO service name (such as access.example.com) and SMA appliances that are located at other locations that are part of the global VPN service accepts the connection requests.

Planning the Disaster Recovery (DR) for the VPN service is done in conjunction with DR planning of other essential IT services. SMA appliances (that are part of the GTO service) must be located at alternate data centers along with other key infrastructure components.

If a disaster destroys a data center that has SMA appliances, the remaining appliances continue to provide service.

Global High Availability Versus HA Pair

Global Traffic Optimizer (GTO) with Global High Availability (Global HA) is a new solution for SMA 12.1 and later that facilitates high availability and disaster recovery for SMA products.

The High Availability (HA) Pair product is not supported after SMA version 11.4.

The Comparison of HA Pair and GTO with Global HA table compares the features of an HA Pair with the features of GTO with Global HA.

Comparison of HA Pair and GTO with Global HA

	HA Pair	GTO with Global HA
High availability model	Active-Standby	All appliances in the cluster are active.
Number of appliances in HA cluster	Always 2	2 to 100
Licensing model	Two separate appliance-based license files	CMS-based pooled user license obtained from the License Manager Service
Location of appliances	Appliances must be in a single data center less than 3 feet apart.	Globally distributed locations
SMA appliances supported	All physical appliances. Virtual appliances are not supported.	All SMA physical and virtual appliances are supported.
Virtual infrastructure	Not needed	Required. CMS is a virtual machine and must be hosted on virtual infrastructure (VMWare ESX/i or Microsoft Hyper-V)
Mix of appliances	Both appliances in the HA Pair must be identical (for example two SMA EX-7200s)	The cluster can have any combination of physical and virtual SMA appliances.
Release versions	SMA 10.7.2 and 11.4.0	SMA 12.1 and higher
supported	Not supported after 11.4.0 support expires	No plans to back port to 11.4
End of Life	April 2019 (3 years after release of 11.4)	This is the next generation of SMA HA
Disaster Recovery	Not Supported. Appliances in an HA Pair must be in the same data center.	Supported. Appliances in the cluster can be globally distributed.
Redirection model	Uses a VIP	DNS-based redirection
		Requires customers to configure DNS for Global Traffic Optimizer.
Session restoration	Session is automatically restored on the paired appliance.	VPN reconnection and session restoration is supported with Global HA in SMA 12.1.

Comparison of HA Pair and GTO with Global HA

Data persistence	Personal Bookmarks, Local User accounts, Device Registration. Per-app VPN data persists across a failover. User lock out persists across a failover.	Personal bookmarks, Local User accounts, Device Registratio, per-app VPN data, and user lockouts are supported with Global HA in SMA 12.1.
Single Points of	HA Pair is installed in one	CMS server failure.
Failure	datacenter which is susceptible to power, network or other disasters	A CMS outage for a few minutes has little or no adverse affect on HA.
		CMS is a virtual appliance and relies on the HA model of the IT department for it virtual infrastructure.
		CMS has a relatively low MTTR if a full clone is instantiated or the HA Cluster model is used.
		License Manager Service.
		CMS queries the License Manager every 24 hours and continues to operate for 30 days without access to the License Manager.

Alerts and SNMP

It consists of the following topics:

- Overview
- Pre-Configured Alerts
- Configuring SNMP

Overview

This section contains detailed information about alerts and the use of SNMP in the CMS.

The CMS generates alerts that are either Warnings or Errors. Alerts are displayed prominently on the CMS dashboard. Alerts can originate from a condition that occurs on the CMS, or from a managed appliance.

Alerts can be configured to generate SNMP traps that are monitored by any IT infrastructure Network Management System (NMS).

Pre-Configured Alerts

The Table of Pre-Configured Alerts below has a fixed set of conditions that can trigger alerts.

(I) NOTE: The Priority symbols represent a Warning or an Error or an Error or an Error .

Table of Pre-Configured Alerts

Priority	Name	Measurement	Condition
8	Unable to communicate with License Manager	CMS connection to MySonicWall	Connection is lost for 10080 minutes
A	Unable to communicate with License Manager	CMS connection to MySonicWall	Connection is lost for 10080 minutes
A	Temporary communication loss	Manage appliance connection to CMS	Connection is temporarily lost
8	Permanent communication loss	Managed appliance connection to CMS	Connection is permanently lost
8	Managed appliances intercommunication failure	Managed appliances intercommunication	Connection is lost
A	License has expired	CMS license expiration date	Expiration date is past
A	License expires soon	CMS license expiration date	Expiration date is a certain number of days away
8	High user license usage	CMS license usage	Value is over 95 percent
A	High user license usage	CMS license usage	Value is over 75 percent

Table of Pre-Configured Alerts

Priority	Name	Measurement	Condition
A	High swap usage	Swap usage	Value is over 5 percent
A	High memory usage	Memory usage	Value is over 85 percent for 5 minutes
8	High email user license usage	CMS Email license usage	Value is over 95 percent
A	High email user license usage	CMS Email license usage	Value is over 75 percent
A	High disk usage	Disk usage	Value is over 95 percent
A	High CPU usage	CPU usage	Value is over 85 percent for 5 minutes
A	High appliance license usage	Appliance license usage	Value is over 89 percent
8	Critically high memory usage	Memory usage	Value is over 95 percent for 5 minutes
8	Critically high CPU usage	CPU usage	Value is over 95 percent for 5 minutes
8	Critically high appliance license usage	Appliance license usage	Value is over 98 percent
A	CMS Spike license is active	CMS Spike license usage	Spike license is active
A	CMS Spike license days left is low	CMS Spike license days left	Value is under 5 days
8	CMS Spike license days left is critically low	CMS Spike license days left	Value is under 2days
8	Certificate expired	Time until certificate expires	Value is under 0 days
A	Certificate about to expire	Time until certificate expires	Value is under 30 days

The administrator can edit the pre-configured alerts as follows:

- Modify or customize these pre-configured default alerts.
- Disable them
- Make changes to the threshold, duration and message.
- Configure additional alerts. The Table of Alerts lists all the conditions that can be used to configure Alerts.
- Configure the priority of an alert to either Critical or Warning. SNMP traps are generated for all Critical alerts.

For these activities, use the following guidelines:

- When an appliance-related alert is configured, it applies to all the managed appliance, that is, alerts cannot be individually configured/tailored for a specific appliance.
- The maximum number of alerts that can be configured by the administrator on a CMS is 100.

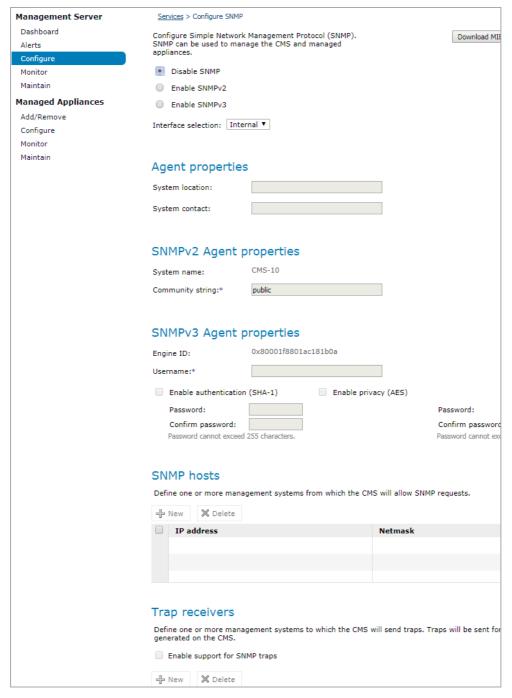
Alerts shown on the dashboard can be dismissed by the administrator. Dismissed alerts will no longer be displayed in the dashboard view, but can be seen in the Alerts page. If the alert condition toggles (ON->OFF->ON), a new alert for the same condition will be raised in the dashboard.

All alerts are stored in the Alerts Database. A rolling history of 90 days worth of alerts are retained in the Alerts Database. An Alerts View allows the administrator to see all Alerts in the past Day, Week, Month or Quarter.

Configuring SNMP

To enable SNMP:

- 1 Click Management Server > Configure > Network Services.
- 2 Under SNMP, click Configure.



- 3 Enter the information you want in the appropriate fields.
- 4 Click Save and Apply Pending Changes.

Capture Advanced Threat Protection

Capture Advanced Threat Protection (Capture ATP) is a cloud-based service that analyzes various types of content for malicious behavior. This function is integrated with the WorkPlace File Explorer feature. When files are uploaded, the file can be sent to the Capture ATP service for analysis.

(Capture ATP) is an add-on security service to the firewall that helps a firewall identify whether a file is malicious.

Before you can enable Capture ATP you must first get a license. If the Capture ATP license has not been activated, an error message displays:



After Capture ATP is licensed, you can view Capture ATP status in your MySonicWall account as well as configure and receive alerts and notifications.

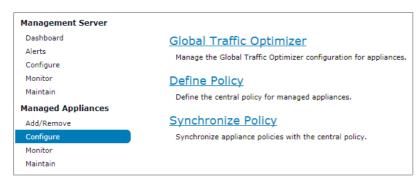
For further information about Capture ATP, licensing it, and using your MySonicWall account to configure and receive alerts and notifications, see the *SonicOS 6.5 Capture Advanced Threat Protection Feature Guide*.

Enabling Capture ATP

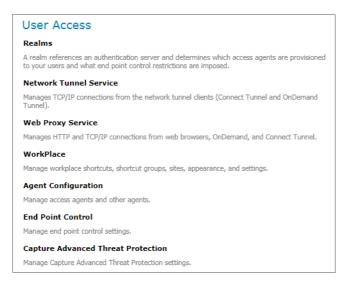
After being successfully licensed, Capture ATP must be enabled before it will begin analyzing files for malicious behavior.

To enable Capture ATP:

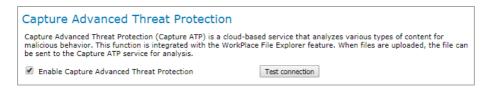
1 Select Managed Appliances > Configure > Define Policy.



2 Under User Access, select Capture Advanced Threat Protection.



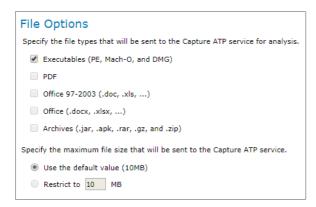
3 Under Capture Advanced Threat Protection, select Enable Capture Advanced Threat Protection.



4 To verify the connection to the Capture ATP service, click the **Test connection** button.

File Options

The **File Options** settings allow you to specify which file types will be sent to the Capture ATP service for analysis and the maximum size of those files.

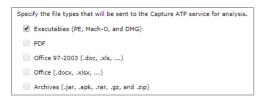


Topics:

- Setting the File Types
- Setting the Maximum File Size

Setting the File Types

You can select the types of files to be submitted to Capture ATP for inspection.

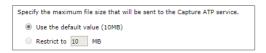


To set which file types are analyzed:

- 1 Select Managed Appliances > Configure > Define Policy.
- 2 Under User Access, select Capture Advanced Threat Protection.
- 3 Select the file types you want analyzed by the Capture ATP service. By default, only the **Executables (PE, Mach-O, and DMG)** file type is enabled.
- 4 Click the Save button.

Setting the Maximum File Size

You can select the maximum size of files to be submitted to Capture ATP for inspection.



To set the maximum file size:

- 1 Select Managed Appliances > Configure > Define Policy.
- 2 Under User Access, select Capture Advanced Threat Protection.
- 3 Choose one of the options.
 - Select **Use the default value (10MB)** to use the default file size of 10MB.
 - Restrict to __ MB to specify your own maximum file size.
- 4 Click the **Save** button.

Advanced Settings

The **Advanced** settings allows you to choose to block or allow uploaded files that are not evaluated by Capture ATP.



- Select Block uploads when the file size exceeds the above limit to . (This is selected by default.)
- Select Block uploads when there is a failure communicating with the Capture ATP service to .(This is selected by default.)

Global High Availability

- Introduction to Global HA and GTO
- Planning GTO Deployment
- Setting up GTO
- Extending GTO Deployment

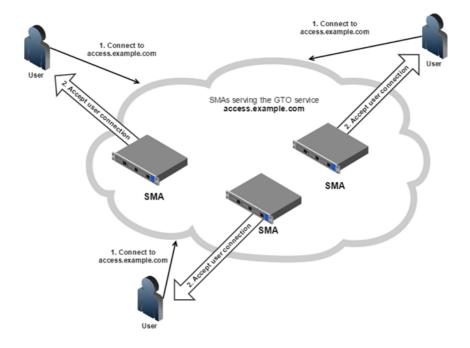
Introduction to Global HA and GTO

Topics

- Overview
- CMS with GTO
- Exchange ActiveSync and Outlook Anywhere
- Custom FQDN for Mapped Resources
- Viewing GTO Status from the CMS Console
- GTO and IPv6
- Deployment Notes

Overview

Global High Availability (Global HA) is a set of SMA features that come together to deliver a highly available VPN service. Global HA presents a collection of SMA appliances to end users through a single service name (for example access.example.com). Global Traffic Optimizer (GTO) is the underlying service that is enabled from the CMS console.



Previously, the benefits provided by GTO could only be achieved by deploying and coordinating an array of separate third-party appliances and services, such as content-distribution-network DNS redirectors, local traffic managers, and load balancers often under separate administrative control. GTO replaces this scenario with a single external DNS delegation, which manages all aspects of user traffic distribution automatically, including license provisioning and leveling.

(i) NOTE: Remember to keep the DNS port open on the firewall. Refer to Additional Deployment Notes for more details.

Users have one consistent sign-on procedure with one GTO service name that connects them with the appropriate SMA appliance for their current location and circumstances, and gives them a similar experience every time they use the system anywhere in the world.

GTO makes intelligent routing decisions based on real-time data such as appliance availability, health, load, Internet and Intranet conditions. GTO redirects user connection requests to an available appliance.

This guide provides instructions on how to deploy CMS with GTO, including DNS configuration and certificate requirements.

CMS with GTO

CMS with GTO supports the following services and features:

- Exchange ActiveSync and Outlook Anywhere
- Custom FQDN for access to resources and Workplace sites
- Administration visibility into GTO status from the CMS console
- IPv6

GTO is a superior model over the fallback server model, and fallback is not supported with GTO. When an appliance is in GTO mode, it does not send fallback information to the clients.

When a client interacts with a GTO service, it does not receive fallback information. Consequently, GTO does not attempt to do fallback.

(i) NOTE: An SMA appliance must be dual homed to participate in GTO.

Exchange ActiveSync and Outlook Anywhere

From the CMS console, you can configure Exchange ActiveSync and Outlook Anywhere across all appliances in the GTO service. For example, if the GTO service name is access.example.com the custom FQDN could be mail.example.com.

Mail clients using Exchange ActiveSync or Outlook Anywhere protocol can connect to the GTO service, using a custom FQDN, and experience global traffic Optimizer, such connection to a proximate appliance, improved availability, and load distribution.



(i) NOTE: Public DNS must be configured for the ActiveSync and Outlook Anywhere FQDN, and the names must similar to the GTO service names.

CMS with GTO supports roaming as follows:

- When an Exchange ActiveSync client connects to a GTO service it may get directed to a different appliance from the last time it connected.
- Exchange ActiveSync clients send credentials with each request and after they get authenticated, they can access the ActiveSync server.
- A new pooled license is issued for each connection.
- The license is released after the ActiveSync connection is terminated.

Custom FQDN for Mapped Resources

You can configure custom FQDNs to backend resources across all appliances in a GTO service, and you can access those resources through the appliances that are part of the GTO service.

Users connecting to custom FQDNs can experience the benefits of GTO:

- GTO connection to a proximate appliance
- Improved availability
- Load distribution

Resources should be accessed with the FQDN name rather than with the IP address.

The public DNS must be configured appropriately for each custom FQDN, in that each custom FQDN name must be similar to the GTO service name. For example, if the GTO service name is **access.example.com**, the custom FQDN name for Email should be **mail.example.com**.

In Workplace, all links must point to the same appliance.

The maximum number of custom FQDNs that can be configured for all appliances is the same as that of a standalone SMA appliance. If you are already authenticated to a GTO service, you will need to re-authenticate if you enter a Vanity FQDN into a Web browser.

You can deploy configurations with the following types custom FQDNs to appliances that are configured for GTO:

- Vanity FQDNs that are currently supported on a single appliance.
- Custom FQDN Mapped Resource Access where the backend resource or server is mapped to an external fully qualified domain name (host and domain).
- Workplace site with a domain name that is different from the GTO service domain name.

Viewing GTO Status from the CMS Console

You can view and monitor the following capabilities on the CMC dashboard:

- Appliances successfully enabled for GTO
- Appliances not functioning correctly with GTO
- Appliances that have the recommended certificate SANs for the primary GTO service
- Appliances that do not have the recommended certificate SANs for the primary GTO service
- DNS status of appliances delegated as authoritative servers

GTO and IPv6

- End users on IPv6-only networks can reach SMA appliances with IPv6 addresses through GTO.
- SMA appliances serving as authoritative DNS servers include IPv6 AAAA records in their responses where appropriate.
- IPv6 is not supported on the internal interfaces of SMA appliances.

Deployment Notes

- You should configure a minimum of two SMA appliances and delegate them in DNS as authoritative servers. This minimizes the likelihood that your users ever lose DNS resolution of the GTO service.
- You must enable UDP 53 on your firewall for all traffic that is sent to CMS-managed appliances that are configured as authoritative servers.

Planning GTO Deployment

This section describes how to make deploying GTO easier by planning and adhering to a few guidelines as described below:

Topics

- Choosing a Deployment Model
- Minimizing Configuration Differences
- GTO Service Names and DNS Delegations
- Provisioning Certificates

Choosing a Deployment Model

Before you set up your equipment, you need to choose a deployment model that meets your organization's needs. There are several ways you can set up the network hierarchy of your GTO deployment:

- SMA Appliances Located in One Data Center
- SMA Appliances Geo-Distributed across Multiple Data Centers
- Mixed Mode

SMA Appliances Located in One Data Center

This model is typically employed by mid-sized organizations with major operations in a single location. All their SMA appliances are located in the organization's primary data center. Users have a single GTO service name (such as access.example.com) to access the network.

GTO eliminates the need for a load balancer in the data center for VPN traffic. User connections are automatically directed to an available appliance in the data center. The CMS and SMA appliances are all located in the data center. If any one of the appliances fails, the CMS detects the failure, and GTO automatically redirects the VPN connections to another appliance.

SMA Appliances Geo-Distributed across Multiple Data Centers

This model is typically employed by mid-sized organizations with operations in more than one geographic location, and their SMA appliances are located in different geographic locations. For example, an organization deploys two SMA appliances, one located in their New York City data center and the second appliance located in their London branch office. The employees in the Americas connect to the appliance in New York City, while the employees in Europe connect to the appliance in London.

The CMS and one of their SMA appliances is located in New York City. The other SMA appliance is located in London and is also managed by the CMS. All the employees in the Americas and in Europe use a single service name: access.example.com, which directs all connections to an available and proximate appliance.

Mixed Mode

This model is typically employed by larger sized organizations with a global workforce. Their SMA appliances are located in multiple geographic locations, and they may have more than one SMA appliance in the data center. For example, an organization has six SMA appliances: three in New York City, two in London, and one in Tokyo. Employees globally use the same service name: access.example.com.

GTO automatically directs connections from employees in the Americas to the SMA appliances in New York City, connections from employees in Europe to the SMA appliances in London, and connections from employees in Asia to the SMA appliance in Tokyo. GTO eliminates the need for a global traffic manager or load balancer in the data center.

Minimizing Configuration Differences

In a GTO service, users can get directed to different SMA appliances frequently, and users expect the same experience, regardless. You can minimize configuration differences between SMA appliances in a GTO service by observing the following guidelines:

- Maintain the same resource set and access rules on each SMA appliance in the GTO service. The best way
 to do this is to define one central policy on the CMS and synchronize it with all the managed
 SMA appliances.
- Use only DHCP tunnel address pools at each SMA deployment site. Other types of address pools can be used, but managing SMA appliances with different configurations is difficult. However, this can be done and is described in Varying Tunnel Address Pools.
- Use a single authentication server configuration for all SMA appliances. If necessary, use
 transparently-distributed authentication services. CMS policy replication does include support for
 varying the authentication server configurations at each SMA appliance. You can do this by configuring
 locally-replicated authentication servers at the SMA appliance console. See Using Distributed
 Authentication Servers.
- Use wildcard certificates for user access. GTO makes all of its SMA appliances available under a variety of names, each of which must match the certificate. It is possible to identify all such names each time the configuration changes and generate certificates without wildcards. It is recommended that you use wildcard certificates instead.

GTO Service Names and DNS Delegations

To establish a GTO service, you must choose a GTO service name and establish DNS delegations.

Topics

- Choosing a GTO Service Name
- Establishing the GTO Service Name Delegations in DNS

Choosing a GTO Service Name

The GTO service name is a delegated DNS zone, which means you must control the parent zone and make a delegation from it to one or more SMA appliances under the GTO service.

If your organization controls the example.com DNS zone, the access.example.com or vpn.example.com could be appropriate GTO service names.

Establishing the GTO Service Name Delegations in DNS

A GTO service name delegation is a DNS subzone delegation. It requires NS records that identify the authoritative server names for the subzone, and corresponding glue-A record that provides IP addresses for those authoritative server names.

DNS delegations must be created for the following components on each of the managed appliances:

- Primary GTO service
- Custom FQDN
- Custom Workplace Sites
- Outlook Anywhere
- Active Sync

The authoritative servers themselves are SMA appliances that are part of the GTO service and are identified by their public IP addresses and the NS record names in the following format:

<DNSname>.ns.<GTOserviceName>

For example, the following two DNS records in the zone configuration of example.com could establish a delegation for the GTO service and SMA appliance described above:

access.example.com. 86400 IN NS node1.ns.access.example.com.

node1.ns.access.example.com. 86400 IN A 123.231.55.77

In a typical GTO deployment with multiple SMA appliances, it is important to establish at least two such delegations. This ensures that the GTO service remains available if any one the SMA appliances is brought down for maintenance (or a network outage).

At least one authoritative server (SMA appliance) must be running at any given moment. Otherwise, users are not be able to connect.

Additional authoritative servers can provide redundancy and improved performance for some users. You should limit GTO service delegations to about three. Ideally, they should be geographically distributed.

Provisioning Certificates

You must provision certificates on the GTO-enabled SMA appliances to facilitate the GTO service. Provisioning certificates must be created for the following components on each of the managed appliances:

- Primary GTO service
- Custom FQDN
- Custom Workplace Sites
- Outlook Anywhere
- Active Sync

Certificates, which give connecting users proof of SMA authenticity before they submit credentials, must be configured on each individual SMA appliance. A single wildcard certificate naming both the GTO service name and all names underneath it (such as access.example.com and *.access.example.com) can be copied onto every SMA appliance.

The CMS console Dashboard provides convenient links to the management consoles of each SMA appliance, where certificates are uploaded under SSL Settings.

You can generate a CSR for a certificate that is appropriate for all the SMA appliances in the GTO service.

To generate a CSR for a certificate that is appropriate for all the SMA appliances in the GTO service:

- 1 Go to the **Certificate Signing Requests** page.
- 2 In the **Fully Qualified Domain Name** field, enter the GTO service name.
- 3 In the Alternate Names field, enter the corresponding wildcard name (such as *.access.example.com).

Setting up GTO

This section describes how to configure a basic GTO deployment, consisting of a CMS that manages at least one SMA appliance.

Topics

- Setting up the CMS and SMA appliances
- Setting up a Basic GTO Service
- Registering an SMA Appliance with the CMS
- Monitoring and Configuring GTO
- Defining the Central Policy

Setting up the CMS and SMA appliances

Before you can configure the GTO, you must first set up a CMS and at least one SMA appliance. GTO uses a distributed data store to shares session state and licensing information across the SMA appliances.

(i) **NOTE:** Managed appliances must be able to communicate with each other via their *internet-routable IP addresses* in order for them to be able to share information in the distributed data store.

Set up a CMS by following the instructions in Installing and Configuring the Central Management Server for establishing a CMS virtual machine to control the GTO service and manage the configuration of its component SMA appliances.

Set up at least one SMA appliance by following the instructions in Configuring Appliances for Central Management. Follow the initial Setup Wizard configuration steps for cabling, administrator password, internal and external interface addresses, routing mode, and gateways, etc.

(i) NOTE: GTO deployments do not support single-homed appliances.

Setting up a Basic GTO Service

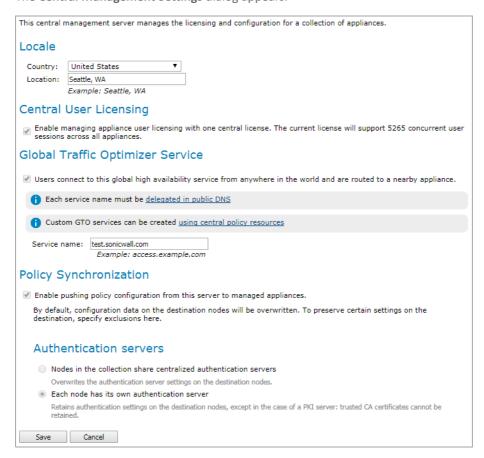
After you set up the Central Management Server (CMS) and at least one SMA appliance, you can set up a basic GTO deployment.

To set up a basic GTO deployment:

1 On the CMS, navigate to the Management Server > Configure.



2 Select the Central Management Settings option. The Central Management Settings dialog appears.



- 3 Under Central User Licensing, check box for Enable managing appliance user licensing with one central license. The current license will support 500 concurrent user sessions across all appliances.
- 4 Under Global Traffic Optimizer Service, check the box for Users connect to a service from anywhere in the world and are routed to the nearest managed appliance.
 - NOTE: The Global Traffic Optimizer Service check box is grayed out if Central User Licensing is not enabled. You must enable Central User Licensing before you can enable the Global Traffic Optimizer Service.

After you enable the Global Traffic Optimizer Service, the following message is displayed:

The service name must be delegated in public DNS, see the admin guide for details.

- 5 In the Service name field, enter the name of your service. For example, access.example.com.
- 6 Under Policy Synchronization, check the box for Enable pushing policy configuration from this server to managed appliances. This feature is recommended so that users will have a consistent experience on all GTO-enabled appliances.
- 7 Under Authentication servers, select Nodes in the collection share centralized authentication servers.

Registering an SMA Appliance with the CMS

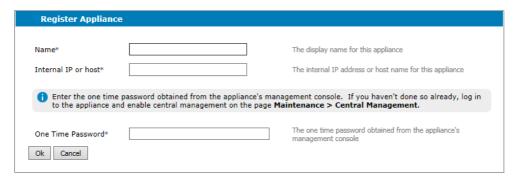
After you configure GTO on the CMS, you must register the SMA appliance with the CMS.

To register the SMA appliance with the CMS:

1 On the CMS, go to Managed Appliances > Add/Remove.

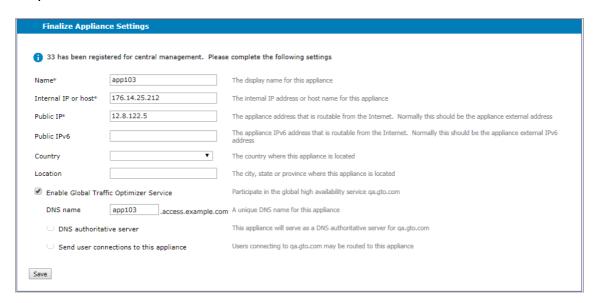


2 Click the **New** button.



- 3 In the Name field, enter a name for the new appliance. For example, Seattle-01.
- 4 In the Internal IP or host field, enter the IP address for the new appliance.
- 5 In the **One Time Password** field, enter the one time password obtained from the **Maintenance > Central Management** page of the SMA appliance.

- 6 Click **OK**. This registers the appliance with the CMS and adds it to the CMS list. The dialog changes with more options.
 - (i) **NOTE:** The client certificate warning, **DNS name** field, and **Public IP** field are only visible when CMS is enabled for GTO.



- 7 From the **Country** menu, select the country where the appliance is located.
- 8 In the **Location** field, enter the city, state, or province where the appliance is located.
- 9 Select the checkbox for **Enable Global Traffic Optimizer Service**.
- 10 In the DNS name field, enter a unique DNS-legal name for this appliance, for example seattle01.
- 11 In the Public IP field, enter the internet-visible, public IP address for this appliance.
 - (i) NOTE: The Public IP should be the address by which remote users will access this appliance. The default IP address is the external IP address of the appliance. The public IP address may be different from its external IP address if the public WAN addresses are using NAT at the DMZ.
- 12 Check the box for **DNS authoritative server** if this appliance will be delegated in public DNS as an authoritative server.
- 13 Check the box for **Send user connections to this appliance**, so that users connecting to access.example.com may be routed to this appliance.
- 14 Click Save.

Monitoring and Configuring GTO

The CMC dashboard shows which appliances are participating in GTO. A GTO participant appliance's nominal status is **GTO** with a green globe icon. A non-participant appliance's nominal status is **Managed**. The top of the dashboard displays GTO service warnings and errors, if any.



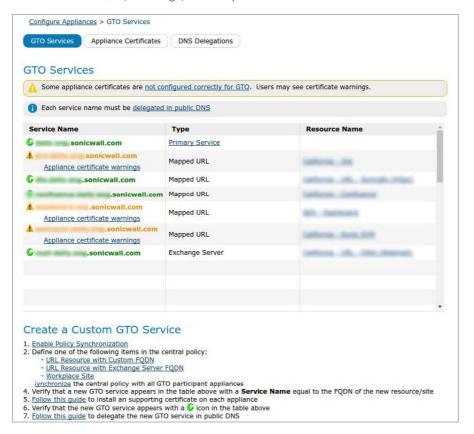
GTO services can be managed on the Managed Appliances > Configure > Global Traffic Optimizer page.



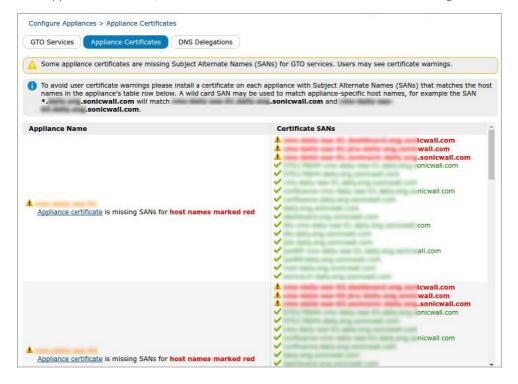
From this page, you can manage the following items:

- Global Traffic Optimizer (GTO)
- Central policies for managed appliances
- Synchronize appliance policies with the central policy

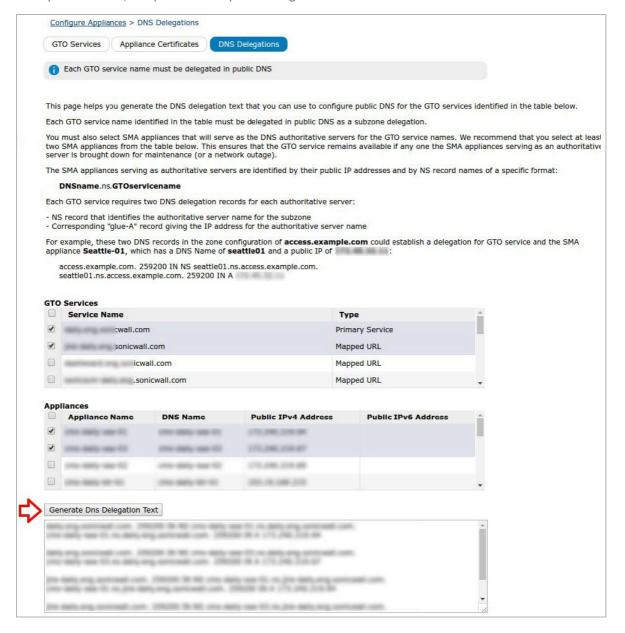
The **GTO Services** page shows a table of all GTO services and their statuses. GTO services are colored green, yellow, or red to reflect their health status. On the lower part of the page is a guide for creating a GTO service with a Custom FQDN, Exchange, or Workplace Site.



The **Appliance Certificates** page shows which Certificate Subject Alternative Names (SANs) must be included in each appliance certificate, and notifies the administrator which SANs are missing.



The **DNS Delegations** page describes the additional steps an administrator must take to configure the public DNS system for GTO, and provides a helper tool to generate DNS records in BIND format.



Defining the Central Policy

From the Central Management Console (CMS), you can define the central policy for a single-appliance SMA deployment. You can define the policies for your authentication servers and realms, resources and access rules, web and tunnel access methods, end-point control, and so on.

(i) NOTE: The steps in this section are optional.

To define the central policy:

1 On the CMS, go to the Managed Appliances > Configure > Define policy page.

Security Administration

Access Control

Review and manage your access control rules.

Resources

Manage web, network, and file system resources. Manage resource groups and variables.

Users & Groups

Manage users and groups

User Access

Realms

A realm references an authentication server and determines which access agents are provisioned to your users and what end point control restrictions are imposed.

Network Tunnel Service

Manages TCP/IP connections from the network tunnel clients (Connect Tunnel and OnDemand Tunnel).

Web Proxy Service

Manages HTTP and TCP/IP connections from web browsers, OnDemand, and Connect Tunnel.

WorkPlace

Manage workplace shortcuts, shortcut groups, sites, appearance, and settings.

Agent Configuration

Manage access agents and other agents.

End Point Control

Manage end point control settings.

Capture Advanced Threat Protection

Manage Capture Advanced Threat Protection settings.

System Configuration

Administrators

Manage AMC administrator accounts. Accounts are mapped to administrator roles.

Authentication Servers

Authentication servers are referenced by a realm to authenticate users.

CA certificates

CA certificates are used to establish a trust relationship with an Active Directory or LDAP connection that is secured with SSL, a connection to a back-end HTTPS Web server, or to validate a connection from an end user who is authenticating with a client certificate.

OCSF

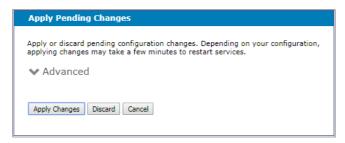
The Online Certificate Status Protocol (OCSP) can be used to verify the status of client certificates

2 Define the policies you want.

See the following sections for instructions on defining server certificates, authentication servers, and tunnel address pools:

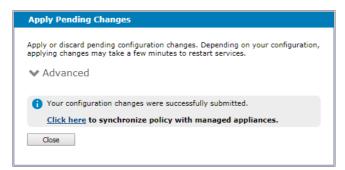
- Enabling Cached Credentials
- Using Distributed Authentication Servers
- Varying Tunnel Address Pools

3 When you have finished defining your policy, click **Pending Changes**. The **Apply Pending Changes** dialog displays.

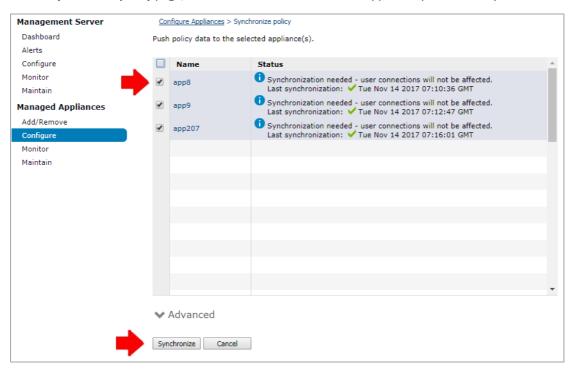


Expand the **Advanced** section if you want to schedule when you want the pending changes will be applied.

- 4 Click **Apply Changes**.
- 5 Select the link in **Click here to synchronize policy with managed appliances** to synchronize the policy across all of the appliances managed by the CMS.



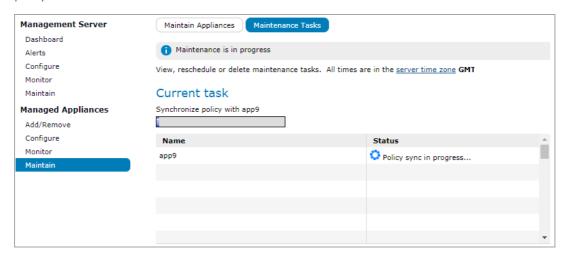
6 On the **Synchronize** policy page, select the checkbox for the SMA appliance you want to synchronize.



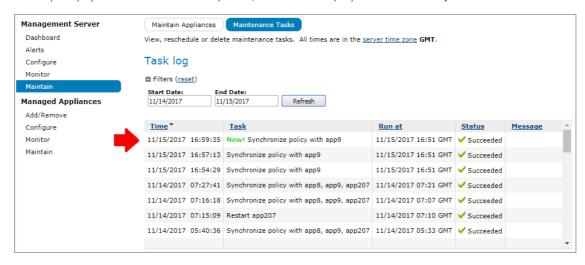
Expand the **Advanced** section if you want to schedule when you want the pending changes will be applied.

7 Click Synchronize.

The message, "Synchronizing data, please wait..." appears as the policy is overwritten by the central policy.



8 When policy synchronization has completed, the screen displays the Status as Synchronization finished.



You can now type the GTO service name into the address bar of any standard Internet Web browser, anywhere in the world, and sign in to securely access the configured resources.

Extending GTO Deployment

Topics

- Adding Additional SMA Appliances
- Enabling Cached Credentials
- Using Distributed Authentication Servers
- Varying Tunnel Address Pools
- Additional Deployment Notes

Adding Additional SMA Appliances

Additional SMA appliances can be added to the basic GTO configuration by following the steps in Setting up GTO. Each SMA appliance that is added automatically begins serving new requests for GTO user connections.

When a new SMA appliance is added to a different location than the existing appliances, it becomes available to GTO. When GTO evaluates a new user relative to the available SMA appliances, it includes the new appliance at the different location, and directs the new connection to the appropriate SMA appliance. This evaluation is repeated each time a user connects. GTO may connect users to different SMA appliances in different circumstances.

Enabling Cached Credentials

If your security settings allow cached credentials on end-user devices, you can assign nearly-seamless failover and high-availability capabilities to Connect Tunnel clients and Mobile Connect SSL VPN Tunnel clients. You can do this even if the SMA appliances are in different locations (and therefore do not share an internal network).

To enable cached credentials:

- 1 Go to the Managed Appliances > Configure page.
- 2 Go to Realms > Community > Access Methods > Tunnel.
- 3 Click the **Configure** button.

Using Distributed Authentication Servers

The latency and reliability of authentication services can be improved in some situations by replicating authentication servers in widely-distributed locations, and configuring specific SMA appliances to use a nearby replicated authentication server instead of the central instance, which might be on another continent.

To accomplish this:

- 1 Establish the authentication server settings in the central policy and then synchronize the central policy with all the managed SMA appliances. See Setting up a Basic GTO Service.
- On the Management Server > Configure > Central Management Settings page, change the Policy synchronization settings so that the Each node has its own authentication server option is selected.

Policy Synchronization

✓ Enable pushing policy configuration from this server to managed appliances.

By default, configuration data on the destination nodes will be overwritten. To preserve certain settings on the destination, specify exclusions here.

Authentication servers

- Nodes in the collection share centralized authentication servers
 Overwrites the authentication server settings on the destination nodes.
- Each node has its own authentication server
 Retains authentication settings on the destination nodes, except in the case of a PKI server: trusted CA certificates cannot be retained.
- 3 Click Save.
- 4 Click **Pending changes**. The **Apply Pending Changes** dialog box displays.
- 5 Click Apply Pending Changes.

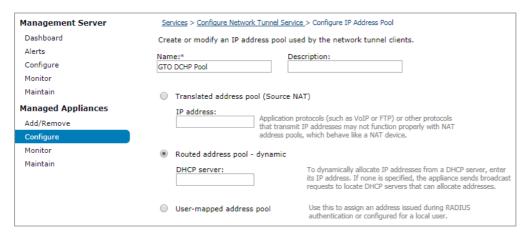
Now the central authentication server settings will only be pushed to appliances during policy synchronization if an authentication server of the same name does not already exist at the SMA managed appliance. Stated another way, if an SMA appliance already has an authentication server setting whose name matches a name configured at the CMS, that setting will not be touched during policy synchronization.

For each SMA appliance that needs local modifications to authentication server settings, log onto the management console at that appliance and adjust the configuration of the existing authentication server(s).

As long as each central policy authentication server has a corresponding SMA policy authentication server with the same name, your local changes will be preserved. Don't create or delete authentication servers from the SMA policy as you cannot modify other parts of the local configuration that reference these servers. Those changes will be overwritten the next time CMS synchronizes the central policy with this SMA.

Varying Tunnel Address Pools

The preferred tunnel address pool policy for GTO deployments is a single DHCP pool replicated to all SMA appliances, with no specific DHCP server mentioned in the policy. This is done using the Routed address pool dynamic setting after clicking New in the IP address pools section on the Managed Appliances > Configure > **Define Policy > User Access > Network Tunnel Service** page and not specifying a DHCP server (as shown below), so that appliances send broadcast requests to locate DHCP servers that can allocate addresses. This requires DHCP services to be available on the internal network that the appliances are on. Other policies are possible, but CMS does not help maintain them.



A tunnel address pool in the SMA policy will not be overwritten during policy synchronization if there is a corresponding tunnel address pool in the central policy with the same name. Be aware though, that the CMS will not synchronize with an SMA appliance at all if a tunnel address pool exists at the SMA appliance, but not in the CMS configuration. So the trick here is to create a tunnel address pool at the CMS, synchronize the central policy to all SMA appliances (to create the pool there), then adjust the configuration of that pool at each individual SMA appliance.

(i) NOTE: You can adjust the parameters of pools (such as the address ranges in static pools or the NAT-from address in a NAT pool), but you cannot change the pool's type.

Additional Deployment Notes

Topics:

- Notes on SMA Appliances
- Web Limitations if an Appliance Fails

Notes on SMA Appliances

It is recommended that you configure a minimum of two SMA appliances, and that you delegate them in DNS as authoritative servers to minimize the likelihood that your users ever lose DNS resolution of the GTO service.

You must enable UDP 53 on your firewall for all traffic that is sent to CMS-managed appliances that are configured as authoritative servers.

Web Limitations if an Appliance Fails

Web users may face some limitations with GTO if an appliance fails. GTO services should DNS-resolve to more than one MA node, and web browsers given a multi-address DNS response should connect to the first address that works. When CMS finds an MA unresponsive for a minute, it instructs the DNS authoritative server nodes to reconfigure around the broken MA, but during that reconfiguration time, the broken MA node can still appear in DNS responses. If this situation occurs and the user's Workplace session fails, the user sees what looks like a typical failure of a website. The user needs to reconnect by retyping the GTO service name. They are redirected through a different node and can access that web site again.

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- **4. Proprietary Rights**. Customer understands and agrees that (i) the Products are protected by copyright and other intellectual property laws and treaties, (ii) Provider, its Affiliates and/or its licensors own the copyright, and other intellectual property rights in the Products, (iii) the Software is licensed, and not sold, (iv) this Agreement does not grant Customer any rights to Provider's trademarks or service marks, and (v) Provider reserves any and all rights, implied or otherwise, which are not expressly granted to Customer in this Agreement.
- **5. Title**. Provider, its Affiliates and/or its licensors own the title to all Software.
- **6. Payment.** Customer agrees to pay to Provider (or, if applicable, the Partner) the fees specified in each order, including any applicable shipping fees. Customer will be invoiced promptly following delivery of the Products or prior to the commencement of any Renewal Maintenance Period and Customer shall make all payments due to Provider in full within thirty (30) days from the date of each invoice or such other period (if any) stated in an order. Provider reserves the right to charge Customer a late penalty of 1.5% per month (or the maximum rate permitted by law, whichever is the lesser) for any amounts payable to Provider by Customer that are not subject to a good faith dispute and that remain unpaid after the due date until such amount is paid.
- **7. Taxes**. The fees stated in an order from Provider or a Partner may not include taxes. If Provider is required to pay sales, use, property, value-added or other taxes based on the Products or Maintenance Services provided under this Agreement or on Customer's use of Products or Maintenance Services, then such taxes shall be billed to and paid by Customer. This Section does not apply to taxes based on Provider's or a Partner's income.

8. Termination.

(a) This Agreement or the Licenses granted hereunder may be terminated (i) by mutual written agreement of Provider and Customer or (ii) by either party for a breach of this Agreement by the other party (or a Third Party User) that the breaching party fails to cure to the non-breaching party's reasonable satisfaction within thirty (30) days following its receipt of notice of the breach. Notwithstanding the foregoing, in the case of MSP Licenses, if Customer or its Client breaches this Agreement two (2) times in any twelve (12) consecutive month period, the breaching party shall not have a cure period for such breach and Provider may terminate this Agreement immediately upon providing written notice to the breaching party.

- (b) Upon termination of this Agreement or expiration or termination of a License for any reason, all rights granted to Customer for the applicable Software shall immediately cease and Customer shall immediately: (i) cease using the applicable Software and Documentation, (ii) remove all copies, installations, and instances of the applicable Software from all Appliances, Customer computers and any other devices on which the Software was installed, and ensure that all applicable Third Party Users and Clients do the same, (iii) return the applicable Software to Provider together with all Documentation and other materials associated with the Software and all copies of any of the foregoing, or destroy such items, (iv) cease using the Maintenance Services associated with the applicable Software, (v) pay Provider or the applicable Partner all amounts due and payable up to the date of termination, and (vi) give Provider a written certification, within ten (10) days, that Customer, Third Party Users, and Clients, as applicable, have complied with all of the foregoing obligations.
- (c) Any provision of this Agreement that requires or contemplates execution after (i) termination of this Agreement, (ii) a termination or expiration of a License, or (iii) the expiration of a SaaS Term, is enforceable against the other party and their respective successors and assignees notwithstanding such termination or expiration, including, without limitation, the Restrictions, Payment, Taxes, Termination, Survival, Warranty Disclaimer, Infringement Indemnity, Limitation of Liability, Confidential Information, Compliance Verification, and General Sections of this Agreement. Termination of this Agreement or a License shall be without prejudice to any other remedies that the terminating party or a Partner may have under law, subject to the limitations and exclusions set forth in this Agreement.
- 9. Export. Customer acknowledges that the Products and Maintenance Services are subject to the export control laws, rules, regulations, restrictions and national security controls of the United States and other applicable foreign agencies (the "Export Controls") and agrees to abide by the Export Controls. Customer hereby agrees to use the Products and Maintenance Services in accordance with the Export Controls, and shall not export, re-export, sell, lease or otherwise transfer the Products or any copy, portion or direct product of the foregoing in violation of the Export Controls. Customer is solely responsible for obtaining all necessary licenses or authorizations relating to the export, re-export, sale, lease or transfer of the Products and for ensuring compliance with the requirements of such licenses or authorizations. Customer hereby (i) represents that Customer, and if Customer is providing services under the MSP License herein each of its Clients, is not an entity or person to which shipment of Products, or provision of Maintenance Services, is prohibited by the Export Controls; and (ii) agrees that it shall not export, re-export or otherwise transfer the Products to (a) any country subject to a United States trade embargo, (b) a national or resident of any country subject to a United States trade embargo, (c) any person or entity to which shipment of Products is prohibited by the Export Controls, or (d) anyone who is engaged in activities related to the design, development, production, or use of nuclear materials, nuclear facilities, nuclear weapons, missiles or chemical or biological weapons. Customer shall, at its expense, defend Provider and its Affiliates from any third party claim or action arising out of any inaccurate representation made by Customer regarding the existence of an export license, Customer's failure to provide information to Provider to obtain an export license, or any allegation made against Provider due to Customer's violation or alleged violation of the Export Controls (an "Export Claim") and shall pay any judgments or settlements reached in connection with the Export Claim as well as Provider's costs of responding to the Export Claim.

10. Maintenance Services.

- (a) **Description**. During any Maintenance Period, Provider shall:
- (i)Make available to Customer new versions and releases of the Software, if and when Provider makes them generally available without charge as part of Maintenance Services.
- (ii)Respond to communications from Customer that report Software failures not previously reported to Provider by Customer. Nothing in the foregoing shall operate to limit or restrict follow up communication by Customer regarding Software failures.
- (iii)Respond to requests from Customer's technical coordinators for assistance with the operational/technical aspects of the Software unrelated to a Software failure. Provider shall have the right to limit such responses if Provider reasonably determines that the volume of such non-error related requests for assistance is excessive or overly repetitive in nature.
- (iv)Provide access to Provider's software support web site at https://support.sonicwall.com(the "Support Site").

(v)For Customers that have purchased Maintenance Services continuously since the purchase of such License, provide the repair and return program described on the Support Site for the Appliance on which the Software is delivered.

Maintenance Services are available during regional business support hours ("Business Hours") as indicated on the Support Site, unless Customer has purchased 24x7 Support. The list of Software for which 24x7 Support is available and/or required is listed in the Global Support Guide on the Support Site.

The Maintenance Services for Software that Provider has obtained through an acquisition or merger may, for a period of time following the effective date of the acquisition or merger, be governed by terms other than those in this Section. The applicable different terms, if any, shall be stated on the Support Site.

(b) Maintenance Period. The first period for which Customer is entitled to receive Maintenance Services begins on the date of the registration of the Product at Provider's registration portal (the "Registration") and ends twelve (12) months thereafter (the "Initial Maintenance Period"). Following the Initial Maintenance Period, Maintenance Services for the Product(s) may then be renewed for additional terms of twelve (12) or more months (each, a "Renewal Maintenance Period") For purposes of this Agreement, the Initial Maintenance Period and each Renewal Maintenance Period shall be considered a "Maintenance Period." For the avoidance of doubt, this Agreement shall apply to each Renewal Maintenance Period. Cancellation of Maintenance Services will not terminate Customer's rights to continue to otherwise use the Products. Maintenance fees shall be due in advance of each Renewal Maintenance Period and shall be subject to the payment requirements set forth in this Agreement. The procedure for reinstating Maintenance Services for the Products after it has lapsed is posted at https://support.sonicwall.com/essentials/support-guide. Maintenance Services are optional and only provided if purchased separately.

For SaaS Software, the Maintenance Period is equal to the duration of the applicable SaaS Term. For non-perpetual Licenses or for non-perpetual MSP Licenses, the Maintenance Period is equal to the duration of the License.

11. Warranties and Remedies.

- (a) **Software Warranties.** Provider warrants that, during the applicable Warranty Period (as defined in subsection (c) below),
- (i) the operation of the Software, as provided by Provider, will substantially conform to its Documentation (the "Operational Warranty");
- (ii) the Software, as provided by Provider, will not contain any viruses, worms, Trojan Horses, or other malicious or destructive code designed by Provider to allow unauthorized intrusion upon, disabling of, or erasure of the Software, except that the Software may contain a key limiting its use to the scope of the License granted, and license keys issued by Provider for temporary use are time-sensitive (the "Virus Warranty");
- (iii)it will make commercially reasonable efforts to make the SaaS Software available twenty-four hours a day, seven days a week except for scheduled maintenance, the installation of updates, those factors that are beyond the reasonable control of Provider, Customer's failure to meet any minimum system requirements communicated to Customer by Provider, and any breach of this Agreement by Customer that impacts the availability of the SaaS Software (the "SaaS Availability Warranty").
- (b) **Appliance Warranties.** Provider warrants that, during the applicable Warranty Period, the Appliance will operate in a manner which allows the SNWL Software, respectively, to be used in substantial conformance with the Documentation (the ""**Appliance Warranty**",).
- (c) Warranty Periods. The "Warranty Period" for each of the above warranties (except for E-class appliances which do not include a Software warranty, shall be as follows: (i) for the Operational Warranty as it applies to Software and the Virus Warranty, ninety (90) days following the initial Registration of the Software; (ii) for the Operational Warranty as it applies to SaaS Software and the SaaS Availability Warranty, the duration of the SaaS Term; and (iv) for the Appliance Warranty, one (1) year following the date the Appliance is registered with Provider.
- (d) **Remedies**. Any breach of the foregoing warranties must be reported by Customer to Provider during the applicable Warranty Period. Customer's sole and exclusive remedy and Provider's sole obligation for any such breach shall be as follows:

- (i)For a breach of the *Operational Warranty* that impacts the use of Software, Provider shall correct or provide a workaround for reproducible errors in the Software that caused the breach within a reasonable time considering the severity of the error and its effect on Customer or, at Provider's option, refund the license fees paid for the nonconforming Software upon return of such Software to Provider and termination of the related License(s) hereunder.
- (ii)For a breach of the *Operational Warranty* that impacts the use of SaaS Software, Provider shall correct or provide a workaround for reproducible errors in the Software that caused the breach and provide a credit or refund of the fees allocable to the period during which the Software was not operating in substantial conformance with the applicable Documentation.
- (iii) For a breach of the *Virus Warranty*, Provider shall replace the Software with a copy that is in conformance with the Virus Warranty.
- (v) For a breach of the *SaaS Availability Warranty*, Provider shall provide a credit or refund of the fees allocable to the period during which the SaaS Software was not available for use.
- (e) **Warranty Exclusions**. The warranties set forth in this Section shall not apply to any non-conformance (i) that Provider cannot recreate after exercising commercially reasonable efforts to attempt to do so; (ii) caused by misuse of the applicable Product or by using the Product in a manner that is inconsistent with this Agreement or the Documentation; or (iii) arising from the modification of the Product by anyone other than Provider.
- (f) **Third Party Products**. Certain Software may contain features designed to interoperate with third-party products. If the third-party product is no longer made available by the applicable provider, Provider may discontinue the related product feature. Provider shall notify Customer of any such discontinuation, however Customer will not be entitled to any refund, credit or other compensation as a result of the discontinuation.
- (g) Warranty Disclaimer. THE EXPRESS WARRANTIES AND REMEDIES SET FORTH IN THIS SECTION ARE THE ONLY WARRANTIES AND REMEDIES PROVIDED BY PROVIDER HEREUNDER. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALL OTHER WARRANTIES OR REMEDIES ARE EXCLUDED, WHETHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, NON-INFRINGEMENT, SATISFACTORY QUALITY, AND ANY WARRANTIES ARISING FROM USAGE OF TRADE OR COURSE OF DEALING OR PERFORMANCE. PROVIDER DOES NOT WARRANT UNINTERRUPTED OR ERROR-FREE OPERATION OF THE PRODUCTS.
- (h) **High-Risk Disclaimer.** CUSTOMER UNDERSTANDS AND AGREES THAT THE PRODUCTS ARE NOT FAULT-TOLERANT AND ARE NOT DESIGNED OR INTENDED FOR USE IN ANY HIGH-RISK OR HAZARDOUS ENVIRONMENT, INCLUDING WITHOUT LIMITATION, THE OPERATION OF NUCLEAR FACILITIES, AIRCRAFT NAVIGATION, AIR TRAFFIC CONTROL, LIFE SUPPORT MACHINES, WEAPONS SYSTEMS, OR ANY OTHER APPLICATION WHERE THE FAILURE OR MALFUNCTION OF ANY PRODUCT CAN REASONABLY BE EXPECTED TO RESULT IN DEATH, PERSONAL INJURY, SEVERE PROPERTY DAMAGE OR SEVERE ENVIRONMENTAL HARM (A "HIGH RISK ENVIRONMENT"). ACCORDINGLY, (I) CUSTOMER SHOULD NOT USE THE PRODUCTS IN A HIGH RISK ENVIRONMENT, (II) ANY USE OF THE PRODUCTS BY CUSTOMER IN A HIGH RISK ENVIRONMENT IS AT CUSTOMER'S OWN RISK, (III) PROVIDER, ITS AFFILIATES AND SUPPLIERS SHALL NOT BE LIABLE TO CUSTOMER IN ANY WAY FOR USE OF THE PRODUCTS IN A HIGH RISK ENVIRONMENT, AND (IV) PROVIDER MAKES NO WARRANTIES OR ASSURANCES, EXPRESS OR IMPLIED, REGARDING USE OF THE PRODUCTS IN A HIGH RISK ENVIRONMENT.
- 12. Infringement Indemnity. Provider shall indemnify Customer from and against any claim, suit, action, or proceeding brought against Customer by a third party to the extent it is based on an allegation that the Software directly infringes any patent, copyright, trademark, or other proprietary right enforceable in the country in which Provider has authorized Customer to use the Software, including, but not limited to the country to which the Software is delivered to Customer, or misappropriates a trade secret in such country (a "Claim"). Indemnification for a Claim shall consist of the following: Provider shall (a) defend or settle the Claim at its own expense, (b) pay any judgments finally awarded against Customer under a Claim or any amounts assessed against Customer in any settlements of a Claim, and (c) reimburse Customer for the reasonable administrative costs or expenses, including without limitation reasonable attorneys' fees, it necessarily incurs in responding to the Claim. Provider's obligations under this Infringement Indemnity Section are conditioned upon Customer (i) giving prompt written notice of the Claim to Provider, (ii) permitting Provider to retain sole control of the investigation, defense or settlement of the Claim, and (iii) providing Provider with cooperation and assistance as

Provider may reasonably request in connection with the Claim. Provider shall have no obligation hereunder to defend Customer against any Claim (a) resulting from use of the Software other than as authorized by this Agreement, (b) resulting from a modification of the Software other than by Provider, (c) based on Customer's use of any release of the Software after Provider recommends discontinuation because of possible or actual infringement and has provided a non-infringing version at no charge, or (d) to the extent the Claim arises from or is based on the use of the Software with other products, services, or data not supplied by Provider if the infringement would not have occurred but for such use. If, as a result of a Claim or an injunction, Customer must stop using any Software ("Infringing Software"), Provider shall at its expense and option either (1) obtain for Customer the right to continue using the Infringing Software, (2) replace the Infringing Software with a functionally equivalent non-infringing product, (3) modify the Infringing Software so that it is non-infringing, or (4) terminate the License for the Infringing Software and (A) for non-SaaS Software, accept the return of the Infringing Software and refund the license fee paid for the Infringing Software, pro-rated over a sixty (60) month period from the date of initial delivery of such Software, or (B) for SaaS Software, discontinue Customer's right to access and use the Infringing Software and refund the unused pro-rated portion of any license fees pre-paid by Customer for such Software. This Section states Provider's entire liability and its sole and exclusive indemnification obligations with respect to a Claim and Infringing Software.

13. Limitation of Liability. EXCEPT FOR (A) ANY BREACH OF THE RESTRICTIONS OR CONFIDENTIAL INFORMATION SECTIONS OF THIS AGREEMENT, (B) AMOUNTS CONTAINED IN JUDGMENTS OR SETTLEMENTS WHICH PROVIDER OR CUSTOMER IS LIABLE TO PAY TO A THIRD PARTY UNDER THE INFRINGEMENT INDEMNITY SECTION OF THIS AGREEMENT AND CUSTOMER IS LIABLE TO PAY ON BEHALF OF OR TO PROVIDER UNDER THE CONDUCT, EXPORT, MSP LICENSE, AND USE BY THIRD PARTIES SECTIONS OF THIS AGREEMENT, OR (C) ANY LIABILITY TO THE EXTENT LIABILITY MAY NOT BE EXCLUDED OR LIMITED AS A MATTER OF APPLICABLE LAW, IN NO EVENT SHALL CUSTOMER OR ITS AFFILIATES, OR PROVIDER, ITS AFFILIATES OR SUPPLIERS BE LIABLE FOR (X) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL LOSS OR DAMAGE OF ANY KIND OR (Y) LOSS OF REVENUE, LOSS OF ACTUAL OR ANTICIPATED PROFITS, LOSS OF BUSINESS, LOSS OF CONTRACTS, LOSS OF GOODWILL OR REPUTATION, LOSS OF ANTICIPATED SAVINGS, LOSS OF, DAMAGE TO OR CORRUPTION OF DATA, HOWSOEVER ARISING, WHETHER SUCH LOSS OR DAMAGE WAS FORESEEABLE OR IN THE CONTEMPLATION OF THE PARTIES AND WHETHER ARISING IN OR FOR BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), BREACH OF STATUTORY DUTY, OR OTHERWISE.

EXCEPT FOR (A) ANY BREACH OF THE SOFTWARE LICENSE. RESTRICTIONS. OR CONFIDENTIAL INFORMATION SECTIONS OF THIS AGREEMENT, OR ANY OTHER VIOLATION OF THE OTHER PARTY'S INTELLECTUAL PROPERTY RIGHTS; (B) PROVIDER'S EXPRESS OBLIGATIONS UNDER THE INFRINGEMENT INDEMNITY SECTION OF THIS AGREEMENT AND CUSTOMER'S EXPRESS OBLIGATIONS UNDER THE CONDUCT, EXPORT, MSP LICENSE, AND USE BY THIRD PARTIES SECTIONS OF THIS AGREEMENT, (C) PROVIDER'S COSTS OF COLLECTING DELINQUENT AMOUNTS WHICH ARE NOT THE SUBJECT OF A GOOD FAITH DISPUTE; (D) A PREVAILING PARTY'S LEGAL FEES PURSUANT TO THE LEGAL FEES SECTION OF THIS AGREEMENT; OR (E) ANY LIABILITY TO THE EXTENT LIABILITY MAY NOT BE EXCLUDED OR LIMITED AS A MATTER OF APPLICABLE LAW, THE MAXIMUM AGGREGATE AND CUMULATIVE LIABILITY OF CUSTOMER AND ITS AFFILIATES, AND PROVIDER, ITS AFFILIATES AND SUPPLIERS, FOR DAMAGES UNDER THIS AGREEMENT, WHETHER ARISING IN OR FOR BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), BREACH OF STATUTORY DUTY, OR OTHERWISE, SHALL BE AN AMOUNT EQUAL TO (Y) THE GREATER OF THE FEES PAID AND/OR OWED (AS APPLICABLE) BY CUSTOMER OR ITS AFFILIATES FOR THE PRODUCTS THAT ARE THE SUBJECT OF THE BREACH OR FIVE HUNDRED DOLLARS (\$500.00), EXCEPT FOR (Z) MAINTENANCE SERVICES OR A PRODUCT SUBJECT TO RECURRING FEES, FOR WHICH THE MAXIMUM AGGREGATE AND CUMULATIVE LIABILITY SHALL BE THE GREATER OF THE AMOUNT PAID AND/OR OWED (AS APPLICABLE) FOR SUCH MAINTENANCE SERVICE OR PRODUCT DURING THE TWELVE (12) MONTHS PRECEDING THE BREACH OR FIVE HUNDRED DOLLARS (\$500.00). THE PARTIES AGREE THAT THESE LIMITATIONS OF LIABILITY ARE AGREED ALLOCATIONS OF RISK CONSTITUTING IN PART THE CONSIDERATION FOR PROVIDER PROVIDING PRODUCTS AND SERVICES TO CUSTOMER, AND SUCH LIMITATIONS WILL APPLY NOTWITHSTANDING THE FAILURE OF THE ESSENTIAL PURPOSE OF ANY LIMITED REMEDY AND EVEN IF A PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LIABILITIES OR FAILURES.

Provider's Affiliates and suppliers and Customer's Affiliates shall be beneficiaries of this *Limitation of Liability* Section and Customer's Clients and Third Party Users are entitled to the rights granted under the MSP License and *Use by Third Parties* Sections of this Agreement; otherwise, no third party beneficiaries exist under this

Agreement. Provider expressly excludes any and all liability to Third Party Users, Clients and to any other third party.

14. Confidential Information.

(a) **Definition**. "Confidential Information" means information or materials disclosed by one party (the "Disclosing Party") to the other party (the "Receiving Party") that are not generally available to the public and which, due to their character and nature, a reasonable person under like circumstances would treat as confidential, including, without limitation, financial, marketing, and pricing information, trade secrets, know-how, proprietary tools, knowledge and methodologies, the Software (in source code and/or object code form), information or benchmark test results regarding the functionality and performance of the Software, any Software license keys provided to Customer, and the terms and conditions of this Agreement.

Confidential Information shall not include information or materials that (i) are generally known to the public, other than as a result of an unpermitted disclosure by the Receiving Party after the date that Customer accepts the Agreement (the "Effective Date"); (ii) were known to the Receiving Party without an obligation of confidentiality prior to receipt from the Disclosing Party; (iii) the Receiving Party lawfully received from a third party without that third party's breach of agreement or obligation of trust; (iv) are protected by Provider in accordance with its obligations under the Protected Data Section below, or (v) are or were independently developed by the Receiving Party without access to or use of the Disclosing Party's Confidential Information.

- (b) **Obligations.** The Receiving Party shall (i) not disclose the Disclosing Party's Confidential Information to any third party, except as permitted in subsection (c) below and (ii) protect the Disclosing Party's Confidential Information from unauthorized use or disclosure by exercising at least the same degree of care it uses to protect its own similar information, but in no event less than a reasonable degree of care. The Receiving Party shall promptly notify the Disclosing Party of any known unauthorized use or disclosure of the Disclosing Party's Confidential Information and will cooperate with the Disclosing Party in any litigation brought by the Disclosing Party against third parties to protect its proprietary rights. For the avoidance of doubt, this Section shall apply to all disclosures of the parties' Confidential Information as of the Effective Date, whether or not specifically arising from a party's performance under this Agreement.
- (c) **Permitted Disclosures.** Notwithstanding the foregoing, the Receiving Party may disclose the Disclosing Party's Confidential Information without the Disclosing Party's prior written consent to any of its Affiliates, directors, officers, employees, consultants, contractors or representatives (collectively, the "*Representatives*"), but only to those Representatives that (i) have a "need to know" in order to carry out the purposes of this Agreement or to provide professional advice in connection with this Agreement, (ii) are legally bound to the Receiving Party to protect information such as the Confidential Information under terms at least as restrictive as those provided herein, and (iii) have been informed by the Receiving Party of the confidential nature of the Confidential Information and the requirements regarding restrictions on disclosure and use as set forth in this Section. The Receiving Party shall be liable to the Disclosing Party for the acts or omissions of any Representatives to which it discloses Confidential Information which, if done by the Receiving Party, would be a breach of this Agreement.

Additionally, it shall not be a breach of this Section for the Receiving Party to disclose the Disclosing Party's Confidential Information as may be required by operation of law or legal process, provided that the Receiving Party provides prior notice of such disclosure to the Disclosing Party unless expressly prohibited from doing so by a court, arbitration panel or other legal authority of competent jurisdiction.

15. Protected Data. For purposes of this Section, "**Protected Data**" means any information or data that is provided by Customer to Provider during this Agreement that alone or together with any other information relates to an identified or identifiable natural person or data considered to be personal data as defined under Privacy Laws, and "**Privacy Laws**" means any applicable law, statute, directive or regulation regarding privacy, data protection, information security obligations and/or the processing of Protected Data.

Except as permitted herein or to the extent required by Privacy Laws or legal process, Provider shall implement reasonable technical and organizational measures to prevent unauthorized disclosure of or access to Protected Data by third parties, and shall only store and process Protected Data as may be required to fulfill its obligations under this Agreement. If Provider complies with Customer's written instructions with respect to the Protected Data, Provider shall have no liability to Customer for any breach of this Section resulting from such compliance. Provider shall promptly notify Customer of any disclosure of or access to the Protected Data by a third party in

breach of this Section and shall cooperate with Customer to reasonably remediate the effects of such disclosure or access. Provider further affirms to Customer that it has adequate agreements in place incorporating the EU standard contractual clauses for the transfer of Protected Data from the European Union ("EU") to a country outside the EU.

Customer hereby (i) represents that it has the right to send the Protected Data to Provider, (ii) consents for Provider to store and use the Protected Data worldwide for the sole purpose of performing its obligations under this Agreement, (iii) agrees that the Protected Data may be accessed and used by Provider and its Representatives worldwide as may be needed to support Provider's standard business operations, and (iv) agrees that Protected Data consisting of Customer contact information (e.g., email addresses, names) provided as part of Maintenance Services may be sent to Provider's third party service providers as part of Provider's services improvement processes.

16. Compliance Verification. Customer agrees to maintain and use systems and procedures to accurately track, document, and report its installations, acquisitions and usage of the Software. Such systems and procedures shall be sufficient to determine if Customer's deployment of the Software or, if applicable, use of the SaaS Software is within the quantities, terms, and maintenance releases to which it is entitled. Provider or its designated auditing agent shall have the right to audit Customer's deployment of the Software or, if applicable, use of the SaaS Software for compliance with the terms and conditions of this Agreement. Any such audits shall be scheduled at least ten (10) days in advance and shall be conducted during normal business hours at Customer's facilities. Customer shall provide its full cooperation and assistance with such audit and provide access to the applicable records and computers. Without limiting the generality of the foregoing, as part of the audit, Provider may request, and Customer agrees to provide, a written report, signed by an authorized representative, listing Customer's then current deployment of the Software and/or the number of individuals that have accessed and used SaaS Software. If Customer's deployment of the Software or, if applicable, use of the SaaS Software is found to be greater than its purchased entitlement to such Software, Customer will be invoiced for the over-deployed quantities at Provider's then current list price plus the applicable Maintenance Services and applicable over-deployment fees. All such amounts shall be payable in accordance with this Agreement. Additionally, if the unpaid fees exceed five percent (5%) of the fees paid for the applicable Software, then

Customer shall also pay Provider's reasonable costs of conducting the audit. The requirements of this Section shall survive for two (2) years following the termination of the last License governed by this Agreement.

17. SaaS Provisions.

(a) **Data**. Customer may store data on the systems to which it is provided access in connection with its use of the SaaS Software (the "*SaaS Environment*"). Provider may periodically make back-up copies of Customer data, however, such back-ups are not intended to replace Customer's obligation to maintain regular data backups or redundant data archives. Customer is solely responsible for collecting, inputting and updating all Customer data stored in the SaaS Environment, and for ensuring that it does not (i) knowingly create and store data that actually or potentially infringes or misappropriates the copyright, trade secret, trademark or other intellectual property right of any third party, or (ii) use the SaaS Environment for purposes that would reasonably be seen as obscene, defamatory, harassing, offensive or malicious.. Provider shall have the right to delete all Customer data stored in connection with the use of the SaaS Software thirty (30) days following any termination of this Agreement or any License to SaaS Software granted hereunder.

Customer represents and warrants that it has obtained all rights, permissions and consents necessary to use and transfer all Customer and/or third party data within and outside of the country in which Customer or the applicable Customer Affiliate is located (including providing adequate disclosures and obtaining legally sufficient consents from Customer's employees, customers, agents, and contractors). If Customer transmits data to a third-party website or other provider that is linked to or made accessible by the SaaS Software, Customer will be deemed to have given its consent to Provider enabling such transmission and Provider shall have no liability to Customer in connection with any claims by a third party in connection with such transmission.

(b) **Conduct**. In connection with the use of SaaS Software, Customer may not (i) attempt to use or gain unauthorized access to Provider's or to any third-party's networks or equipment; (ii) permit other individuals or entities to copy the SaaS Software; (iii) provide unauthorized access to or use of any SaaS Software or the associated access credentials; (iv) attempt to probe, scan or test the vulnerability of the SaaS Software, the SaaS

Environment, or a system, account or network of Provider or any of Provider's customers or suppliers; (v) interfere or attempt to interfere with service to any user, host or network; (vi) engage in fraudulent, offensive or illegal activity of any nature or intentionally engage in any activity that infringes the intellectual property rights or privacy rights of any individual or third party; (vii) transmit unsolicited bulk or commercial messages; (viii) intentionally distribute worms, Trojan horses, viruses, corrupted files or any similar items; (ix) restrict, inhibit, or otherwise interfere with the ability of any other person, regardless of intent, purpose or knowledge, to use or enjoy the SaaS Software (except for tools with safety and security functions); or (x) restrict, inhibit, interfere with or otherwise disrupt or cause a performance degradation to any Provider (or Provider supplier) facilities used to provide the SaaS Environment. Customer shall cooperate with Provider's reasonable investigation of SaaS Environment outages, security issues, and any suspected breach of this Section, and shall, at its expense, defend Provider and its Affiliates from any claim, suit, or action by a third party (a "Third Party Claim") alleging harm to such third party caused by Customer's breach of any of the provisions of this Section. Additionally, Customer shall pay any judgments or settlements reached in connection with the Third Party Claim as well as Provider's costs of responding to the Third Party Claim.

(c) **Suspension**. Provider may suspend Customer's use of SaaS Software (a) if so required by law enforcement or legal process, (b) in the event of an imminent security risk to Provider or its customers, or (c) if continued use would subject Provider to material liability. Provider shall make commercially reasonable efforts under the circumstances to provide prior notice to Customer of any such suspension.

18. General.

- (a) **Governing Law and Venue.** This Agreement shall be governed by and construed in accordance with the laws of the State of California, without giving effect to any conflict of laws principles that would require the application of laws of a different state. Any action seeking enforcement of this Agreement or any provision hereof shall be brought exclusively in the state or federal courts located in the Santa Clara County, California. Each party hereby agrees to submit to the jurisdiction of such courts. The parties agree that neither the United Nations Convention on Contracts for the International Sale of Goods, nor the Uniform Computer Information Transaction Act (UCITA) shall apply to this Agreement, regardless of the states in which the parties do business or are incorporated.
- (b) **Assignment**. Except as otherwise set forth herein, Customer shall not, in whole or part, assign or transfer any part of this Agreement, the Licenses granted under this Agreement or any other rights, interest or obligations hereunder, whether voluntarily, by contract, by operation of law or by merger (whether that party is the surviving or disappearing entity), stock or asset sale, consolidation, dissolution, through government action or order, or otherwise without the prior written consent of Provider. Any attempted transfer or assignment by Customer that is not permitted by this Agreement shall be null and void.
- (c) **Severability**. If any provision of this Agreement shall be held by a court of competent jurisdiction to be contrary to law, such provision will be enforced to the maximum extent permissible by law to effect the intent of the parties and the remaining provisions of this Agreement will remain in full force and effect. Notwithstanding the foregoing, the terms of this Agreement that limit, disclaim, or exclude warranties, remedies or damages are intended by the parties to be independent and remain in effect despite the failure or unenforceability of an agreed remedy. The parties have relied on the limitations and exclusions set forth in this Agreement in determining whether to enter into it.
- (d) **Use by U.S. Government.** The Software is a "commercial item" under FAR 12.201. Consistent with FAR section 12.212 and DFARS section 227.7202, any use, modification, reproduction, release, performance, display, disclosure or distribution of the Software or Documentation by the U.S. government is prohibited except as expressly permitted by the terms of this Agreement. In addition, when Customer is a U.S. government entity, the language in Subsection (ii) of the *Infringement Indemnity* Section of this Agreement and the *Injunctive Relief* Section of this Agreement shall not be applicable.
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django-mysql-pymysql

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pytz

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haveged

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mod proxy msrpc

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dropbear - Tiny SSH daemon for recovery

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- * curve25519-donna: Curve25519 elliptic curve, public key function
- * http://code.google.com/p/curve25519-donna/
- * Adam Langley <agl@imperialviolet.org>
- * Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
- * More information about curve25519 can be found here
- * http://cr.yp.to/ecdh.html

- *
- * djb's sample implementation of curve25519 is written in a special assembly
- $\ensuremath{^{*}}$ language called qhasm and uses the floating point registers.
- *
- $\ensuremath{^{*}}$ This is, almost, a clean room reimplementation from the curve25519 paper. It
- * uses many of the tricks described therein. Only the crecip function is taken
- * from the sample implementation.

*/

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curl - URL retrieval library

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slf4j - Java logging library

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radvd - IPv6 routing daemon

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- 4. [4]Virai Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood kirkwood@striderfm.intel.com port to WindowsNT 3.5
- 5. [6]Michael Barone <michael,barone@Imco.com> GPSVME fixes
- 6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- 7. [8] Greg Brackley < greg.brackley@bigfoot.com > Major rework of WINNT

- port. Clean up recybuf and iosignal code into separate modules.
- 8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
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- 10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
- 11. [12]Jean-Francois Boudreault
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- 12. [13] Reg Clemens < reg@dwf.com > Oncore driver (Current maintainer)
- 13. [14] Steve Clift < clift@ml.csiro.au > OMEGA clock driver
- 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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- 18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
- 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
- 20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
- 21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
- 22. [23] Glenn Hollinger < glenn@herald.usask.ca> GOES clock driver
- 23. [24] Mike Iglesias <i glesias@uci.edu> DEC Alpha port
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- 26. [27] Hans Lambermont < Hans. Lambermont@nl.origin-it.com > or [28] < H. Lambermont@chello.nl > ntpsweep
- 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- 28. [30]Frank Kardel [31]</ri>
 kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- 29. [32]Johannes Maximilian Kuehn < kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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- 42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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- 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
- 50. [54] Michael Shields < shields@tembel.org > USNO clock driver
- 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
- 52. [56]Harlan Stenn harlan@pfcs.com GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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- 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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axis2 - Web Service Container

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Yoshinori K. Okuji designed and implemented the initial version.

Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs in ext2fs.

Marco Gerards added ext2fs support, grub-emu, a new command-line engine, and fixed many bugs.

Omniflux added terminfo and serial support.

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Hollis Blanchard implemented many parts of PowerPC support.

Tomas Ebenlendr added the command chainloader into the normal mode, fixed some bugs.

Guillem Jover merged architecture-independent ELF support code.

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detect-element-resize.js

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5. Time Zone Database

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#

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libdnet

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libmnl

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