

Fireware v12.0 Release Notes

Supported Devices	Firebox T10, T30, T50, T70, M200, M300, M370, M400, M440 M470, M500, M570, M670, M4600, M5600 XTM 3, 5, 8, 800, 1500, and 2500 Series XTM 25, XTM 26, XTM 1050, XTM 2050 FireboxV, XTMv, Firebox Cloud, WatchGuard AP
Release Date:	11 September 2017
Release Notes Revision:	11 September 2017
Fireware OS Build	540035
WatchGuard System Manager Build	539211
WatchGuard AP Device Firmware	For AP100, AP102, AP200: Build 1.2.9.13 For AP300: Build 2.0.0.8 For AP120, AP320, AP322, AP420: Build 8.3.0-648

Introduction

WatchGuard is pleased to announce the release of Fireware v12.0 and WatchGuard System Manager v12.0. This feature release introduces many new features and feature enhancements, including:

Improved Malware Detection

- New Gateway AntiVirus Engine. Bitdefender, replaces AVG. This brings improvements to the product that include:
 - More effective detection of a variety of different types of malware
 - Faster scan times to improve traffic throughput
 - Lighter, more frequent incremental signature updates result in faster response times to new malware attacks, and for more robust FireCluster performance
- APT Blocker delays email (typically 1 to 3 minutes) until it gets a response back from the sandbox in the cloud, which prevents the delivery of zero-day malware infections through email.
- APT Blocker scans JavaScript files that are sent through email, which stops a potential distribution channel for ransomware.

VPN Security Enhancements

- VPN connections have stronger default cryptography settings for authentication and encryption.
- This release removes support for Mobile VPN with PPTP because it is no longer considered to be a secure protocol.

Support for More Advanced Networking Use Cases

- Host header redirection through our new Content Actions enables the routing of traffic to different IP
 addresses based on domains and URL paths included in the HTTP request *host header*. With host
 header redirection, you can host different server applications behind a single public IP address. It also
 enables SSL offload on the Firebox, removing the need to do decryption on servers and clients behind
 the firewall.
- Multicast traffic is supported. This enables the Firebox to work in environments where Multicast (PIM-SM) is used to deliver application traffic from one to many nodes.
- Several enhancements for the Gateway Wireless Controller and Wireless access points

Other New Features and Enhancements

- New IMAP proxy enables inspection of IMAP connections for email clients and servers in your network. Support for IMAP over SSL will be available in a future release.
- Updated AP firmware improves initial discovery and pairing time, provides rate shaping improvements, and updates terminology for consistency with the WatchGuard Wi-Fi Cloud.

For more information on the feature updates and available bug fixes in this release, see the <u>Enhancements and</u> <u>Resolved Issues</u> section. For more detailed information about the feature enhancements and functionality changes included in Fireware v12.0, see Fireware Help or review What's New in Fireware v12.0.

Important Information about Firebox Certificates

SHA-1 is being deprecated by many popular web browsers, and WatchGuard recommends that you now use SHA-256 certificates. Because of this, we have upgraded our default Firebox certificates. Starting with Fireware v11.10.4, all newly generated default Firebox certificates use a 2048-bit key length. In addition, newly generated default Proxy Server and Proxy Authority certificates use SHA-256 for their signature hash algorithm. Starting with Fireware v11.10.5, all newly generated default Firebox certificates use SHA-256 for their signature hash algorithm. New CSRs created from the Firebox also use SHA-256 for their signature hash algorithm.

Default certificates are not automatically upgraded after you install Fireware v11.10.5 or later releases.

To regenerate any default Firebox certificates, delete the certificate and reboot the Firebox. If you want to regenerate default certificates without a reboot, you can use the CLI commands described in the next section. Before you regenerate the Proxy Server or Proxy Authority certification, there are some important things to know.

The Proxy Server certificate is used for inbound HTTPS with content inspection and SMTP with TLS inspection. The Proxy Authority certificate is used for outbound HTTPS with content inspection. The two certificates are linked because the default Proxy Server certificate is signed by the default Proxy Authority certificate. If you use the CLI to regenerate these certificates, after you upgrade, you must redistribute the new Proxy Authority certificate to your clients or users will receive web browser warnings when they browse HTTPS sites, if content inspection is enabled.

Also, if you use a third-party Proxy Server or Proxy Authority certificate:

- The CLI command will not work unless you first delete either the Proxy Server or Proxy Authority certificate. The CLI command will regenerate both the Proxy Server and Proxy Authority default certificates.
- If you originally used a third-party tool to create the CSR, you can simply re-import your existing third-party certificate and private key.
- If you originally created your CSR from the Firebox, you must create a new CSR to be signed, and then import a new third-party certificate.

CLI Commands to Regenerate Default Firebox Certificates

To regenerate any default Firebox certificates, delete the certificate and reboot the Firebox. If you want to regenerate default certificates without a reboot, you can use these CLI commands:

- To upgrade the default Proxy Authority and Proxy Server certificates for use with HTTPS content inspection, you can use the CLI command: upgrade certificate proxy
- To upgrade the Firebox web server certificate, use the CLI command: upgrade certificate web
- To upgrade the SSLVPN certificate, use the CLI command: ${\tt upgrade\ certificate\ sslvpn}$
- To upgrade the 802.1x certificate, use the CLI command: <code>upgrade certificate 8021x</code>

For more information about the CLI, see the Command Line Interface Reference.

Before You Begin

Before you install this release, make sure that you have:

- A supported WatchGuard Firebox or XTM device. This device can be a WatchGuard Firebox T10, T30, T50, T70, XTM 2 Series (models 25 and 26 only), 3 Series, 5 Series (515/525/535/545), 8 Series, 800 Series, XTM 1050, XTM 1500 Series, XTM 2050 device, XTM 2500 Series, or Firebox M Series. You can also use this version of Fireware on FireboxV or XTMv (any edition), and Firebox Cloud for AWS. We do not recommend you install Fireware v12.x on XTM 505, 510, 520 or 530 devices.
- The required hardware and software components as shown below. If you use WatchGuard System Manager (WSM), make sure your WSM version is equal to or higher than the version of Fireware OS installed on your Firebox or XTM device and the version of WSM installed on your Management Server.
- Feature key for your Firebox or XTM device If you upgrade your device from an earlier version of
 Fireware OS, you can use your existing feature key. If you do not have a feature key for your device, you
 can log in to the WatchGuard website to download it.
- If you are upgrading to Fireware v12.x from Fireware v11.10.x or earlier, we strongly recommend you review the <u>Fireware v11.12.4 release notes</u> for important information about significant feature changes that occurred in Fireware v11.12.x release cycle.

Note that you can install and use WatchGuard System Manager v12.x and all WSM server components with devices running earlier versions of Fireware. In this case, we recommend that you use the product documentation that matches your Fireware OS version.

If you have a new Firebox or XTM physical device, make sure you use the instructions in the *Quick Start Guide* that shipped with your device. If this is a new FireboxV installation, make sure you carefully review Fireware Help for important installation and setup instructions. We also recommend that you review the Hardware Guide for your Firebox or XTM device model. The Hardware Guide contains useful information about your device interfaces, as well as information on resetting your device to factory default settings, if necessary.

Product documentation for all WatchGuard products is available on the WatchGuard web site at http://www.watchguard.com/wgrd-help/documentation/overview.

Localization

This release includes localized management user interfaces (WSM application suite and Web UI) current as of Fireware v11.11. UI changes introduced since v11.11 may remain in English. Supported languages are:

- French (France)
- Japanese
- Spanish (Latin American)

Note that most data input must still be made using standard ASCII characters. You can use non-ASCII characters in some areas of the UI, including:

- Proxy deny message
- Wireless hotspot title, terms and conditions, and message
- WatchGuard Server Center users, groups, and role names

Any data returned from the device operating system (e.g. log data) is displayed in English only. Additionally, all items in the Web UI System Status menu and any software components provided by third-party companies remain in English.

Fireware Web UI

The Web UI will launch in the language you have set in your web browser by default.

WatchGuard System Manager

When you install WSM, you can choose what language packs you want to install. The language displayed in WSM will match the language you select in your Microsoft Windows environment. For example, if you use Windows 7 and want to use WSM in Japanese, go to Control Panel > Regions and Languages and select Japanese on the Keyboards and Languages tab as your Display Language.

Dimension, WebCenter, Quarantine Web UI, and Wireless Hotspot

These web pages automatically display in whatever language preference you have set in your web browser.

Documentation

Localization updates are also available for *Fireware Help*, available on the <u>WatchGuard website</u> or as contextsensitive Help from the localized user interfaces.

Fireware and WSM v12.0 Operating System Compatibility

Last revised 11 September 2017

WSM/ Fireware Component	Microsoft Windows 7, 8, 8.1, 10 (32-bit & 64-bit)	Microsoft Windows Server 2012 & 2012 R2 (64-bit)	Microsoft Windows Server 2016 (64-bit)	Mac OS X v10.9, v10.10, v10.11 & v10.12	Android 4.x &5.x	iOS v7, v8, v9, & v10
WatchGuard System Manager	\checkmark	\checkmark	✓			
WatchGuard Servers For information on WatchGuard Dimension, see the <u>Dimension Release</u> <u>Notes</u> .	~	~	~			
Single Sign-On Agent (Includes Event Log Monitor) ¹		~	~			
Single Sign-On Client	\checkmark	\checkmark	✓	\checkmark		
Single Sign-On Exchange Monitor ²		\checkmark	✓			
Terminal Services Agent ³		\checkmark	✓			
Mobile VPN with IPSec	\checkmark			\checkmark^4	\checkmark	✓4
Mobile VPN with SSL	\checkmark			\checkmark	\checkmark	✓

Notes about Microsoft Windows support:

• Windows 8.x support does not include Windows RT.

The following browsers are supported for both Fireware Web UI and WebCenter (Javascript required):

- IE 11 and later
- Microsoft Edge
- Firefox v55
- Safari 10
- Safari iOS 10
- Chrome v60

¹The Server Core installation option is supported for Windows Server 2016.

²Microsoft Exchange Server 2007 and 2010 are supported. Microsoft Exchange Server 2013 is supported if you install Windows Server 2012 or 2012 R2 and .NET Framework 3.5

³Terminal Services support with manual or Single Sign-On authentication operates in a Microsoft Terminal Services or Citrix XenApp 4.5, 5.0, 6.0, 6.5, 7.6, or 7.12 environment.

⁴Native (Cisco) IPSec client and OpenVPN are supported for Mac OS and iOS. For Mac OS X 10.8 -10.12, we also support the WatchGuard IPSec Mobile VPN Client for Mac, powered by NCP.

Authentication Support

This table gives you a quick view of the types of authentication servers supported by key features of Fireware. Using an authentication server gives you the ability to configure user and group-based firewall and VPN policies in your Firebox or XTM device configuration. With each type of third-party authentication server supported, you can specify a backup server IP address for failover.

✓ Fully supported by WatchGuard └── Not yet supported, but tested with success by WatchGuard customers

	Active Directory ¹	LDAP	RADIUS 2	SecurID	Firebox (Firebox-DB) Local Authentication
Mobile VPN with IPSec/Shrew Soft	\checkmark	\checkmark	✓ ³	-	\checkmark
Mobile VPN with IPSec/WatchGuard client (NCP)	\checkmark	✓	✓	\checkmark	\checkmark
Mobile VPN with IPSec for iOS and Mac OS X native VPN client				\checkmark	\checkmark
Mobile VPN with IPSec for Android devices	\checkmark	✓	✓	_	\checkmark
Mobile VPN with SSL for Windows	\checkmark	\checkmark	✓4	✓4	\checkmark
Mobile VPN with SSL for Mac	\checkmark	\checkmark	\checkmark	\checkmark	✓
Mobile VPN with SSL for iOS and Android devices				\checkmark	\checkmark
Mobile VPN with L2TP	✓ ⁶	_	\checkmark	_	✓
Built-in Authentication Web Page on Port 4100	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Single Sign-On Support (with or without client software)	✓	\checkmark	_	_	_
Terminal Services Manual Authentication	\checkmark				\checkmark
Terminal Services Authentication with Single Sign-On	✓ ⁵	_	_	_	-
Citrix Manual Authentication					✓
Citrix Manual Authentication with Single Sign-On	✓ ⁵	_	_	_	-

- 1. Active Directory support includes both single domain and multi-domain support, unless otherwise noted.
- RADIUS and SecurID support includes support for both one-time passphrases and challenge/response authentication integrated with RADIUS. In many cases, SecurID can also be used with other RADIUS implementations, including Vasco.
- 3. The Shrew Soft client does not support two-factor authentication.
- 4. Fireware supports RADIUS Filter ID 11 for group authentication.
- 5. Both single and multiple domain Active Directory configurations are supported. For information about the supported Operating System compatibility for the WatchGuard TO Agent and SSO Agent, see the current Fireware and WSM Operating System Compatibility table.
- 6. Active Directory authentication methods are supported only through a RADIUS server.

System Requirements

	If you have WatchGuard System Manager client software only installed	If you install WatchGuard System Manager and WatchGuard Server software
Minimum CPU	Intel Core or Xeon	Intel Core or Xeon
	2GHz	2GHz
Minimum Memory	1 GB	2 GB
Minimum Available Disk Space	250 MB	1 GB
Minimum Recommended Screen Resolution	1024x768	1024x768

FireboxV System Requirements

With support for installation in both a VMware and a Hyper-V environment, a WatchGuard FireboxV virtual machine can run on a VMware ESXi 5.5, 6.0, or 6.5 host, or on Windows Server 2012 R2 or 2016, or Hyper-V Server 2012 R2 or 2016.

The hardware requirements for FireboxV are the same as for the hypervisor environment it runs in.

Each FireboxV virtual machine requires 5 GB of disk space. CPU and memory requirements vary by model:

FireboxV Model	vCPUs (maximum)	Memory (recommended)
Small	2	1024 MB
Medium	4	2048 MB
Large	8	4096 MB
Extra Large	16	4096 MB

System requirements for XTMv are included in Fireware Help.

Downloading Software

You can download software from the WatchGuard Software Downloads Center.

There are several software files available for download with this release. See the descriptions below so you know what software packages you will need for your upgrade.

WatchGuard System Manager

With this software package you can install WSM and the WatchGuard Server Center software:

WSM12_0.exe — Use this file to install WSM v12.0 or to upgrade WatchGuard System Manager from an earlier version to WSM v12.0.

Fireware OS

If your Firebox is running Fireware v11.10 or later, you can upgrade the Fireware OS on your Firebox automatically from the Fireware Web UI **System > Upgrade OS** page.

If you prefer to upgrade from Policy Manager, or from an earlier version of Fireware, you can use download the Fireware OS image for your Firebox or XTM device. Use the .exe file if you want to install or upgrade the OS using WSM. Use the .zip file if you want to install or upgrade the OS manually using Fireware Web UI. Use the .ova or .vhd file to deploy a new XTMv device.

If you have	Select from these Fireware OS packages
Firebox M5600	Firebox_OS_M4600_M5600_12_0.exe firebox_M4600_M5600_12_0.zip
Firebox M4600	Firebox_OS_M4600_M5600_12_0.exe firebox_M4600_M5600_12_0.zip
Firebox M670	Firebox_OS_M370_M470_M570_M670_12_0.exe firebox_M370_M470_M570_M670_12_0.zip
Firebox M570	Firebox_OS_M370_M470_M570_M670_12_0.exe firebox_M370_M470_M570_M670_12_0.zip
Firebox M500	Firebox_OS_M400_M500_12_0.exe firebox_M400_M500_12_0.zip
Firebox M470	Firebox_OS_M370_M470_M570_M670_12_0.exe firebox_M370_M470_M570_M670_12_0.zip
Firebox M440	Firebox_OS_M440_12_0.exe firebox_M440_12_0.zip
Firebox M400	Firebox_OS_M400_M500_12_0.exe firebox_M400_M500_12_0.zip
Firebox M370	Firebox_OS_M370_M470_M570_M670_12_0.exe firebox_M370_M470_M570_M670_12_0.zip
Firebox M300	Firebox_OS_M200_M300_12_0.exe firebox_M200_M300_12_0.zip
Firebox M200	Firebox_OS_M200_M300_12_0.exe firebox_M200_M300_12_0.zip
Firebox T70	Firebox_OS_T70_12_0.exe firebox_T70_12_0.zip
Firebox T50	Firebox_OS_T30_T50_12_0.exe firebox_T30_T50_12_0.zip
Firebox T30	Firebox_OS_T30_T50_12_0.exe firebox_T30_T50_12_0.zip
Firebox T10	Firebox_OS_T10_12_0.exe firebox_T10_12_0.zip
FireboxV All editions for VMware	FireboxV_12_0.ova XTM_OS_FireboxV_12_0.exe xtm_FireboxV_12_0.zip
FireboxV All editions for Hyper-V	FireboxV_12_0_vhd.zip XTM_OS_FireboxV_12_0.exe xtm_FireboxV_12_0.zip

If you have	Select from these Fireware OS packages
Firebox Cloud	firebox_FireboxCloud_12_0.zip
XTM 2500 Series	XTM_OS_XTM800_1500_2500_12_0.exe xtm_xtm800_1500_2500_12_0.zip
XTM 2050	XTM_OS_XTM2050_12_0.exe xtm_xtm2050_12_0.zip
XTM 1500 Series	XTM_OS_XTM800_1500_2500_12_0.exe xtm_xtm800_1500_2500_12_0.zip
XTM 1050	XTM_OS_XTM1050_12_0.exe xtm_xtm1050_12_0.zip
XTM 800 Series	XTM_OS_XTM800_1500_2500_12_0.exe xtm_xtm800_1500_2500_12_0.zip
XTM 8 Series	XTM_OS_XTM8_12_0.exe xtm_xtm8_12_0.zip
XTM 5 Series	XTM_OS_XTM5_12_0.exe xtm_xtm5_12_0.zip
XTM 330	XTM_OS_XTM330_12_0.exe xtm_xtm330_12_0.zip
XTM 33	XTM_OS_XTM3_12_0.exe xtm_xtm3_12_0.zip
XTMv All editions for VMware	xtmv_12_0.ova XTM_OS_xtmv_12_0.exe xtm_xtmv_12_0.zip
XTMv All editions for Hyper-V	xtmv_12_0_vhd.zip XTM_OS_XTMv_12_0.exe xtm_xtmv_12_0.zip

Single Sign-On Software

These files are available for Single Sign-On. Most files have been updated with Fireware v12.0.

- WG-Authentication-Gateway_12_0.exe (SSO Agent software required for Single Sign-On and includes optional Event Log Monitor for clientless SSO)
- WG-Authentication-Client_12_0.msi (SSO Client software for Windows)
- WG-SSOCLIENT-MAC_12_0.dmg (SSO Client software for Mac OS X)
- SSOExchangeMonitor_x86_12_0.exe (Exchange Monitor for 32-bit operating systems)
- SSOExchangeMonitor_x64_12_0.exe (Exchange Monitor for 64-bit operating systems)

For information about how to install and set up Single Sign-On, see the product documentation.

Terminal Services Authentication Software

This file is not updated with the Fireware v12.0 release.

• T0_AGENT_SETUP_11_12.exe (This installer includes both 32-bit and 64-bit file support.)

Mobile VPN with SSL Client for Windows and Mac

There are two files available for download if you use Mobile VPN with SSL and are both updated with this release:

- WG-MVPN-SSL_12_0.exe (Client software for Windows)
- WG-MVPN-SSL_12_0.dmg (Client software for Mac)

Mobile VPN with IPSec client for Windows and Mac

There are several available files to download. These files are not updated with the Fireware v12.0 release.

Shrew Soft Client

• Shrew Soft Client 2.2.2 for Windows - No client license required.

WatchGuard IPSec Mobile VPN Clients

The current WatchGuard IPSec Mobile VPN Client for Windows is version 12.10.

- WatchGuard IPSec Mobile VPN Client for Windows (32-bit), powered by NCP There is a license required for this premium client, with a 30-day free trial available with download.
- WatchGuard IPSec Mobile VPN Client for Windows (64-bit), powered by NCP-There is a license required for this premium client, with a 30-day free trial available with download.

This release includes an update to the IPSec Mobile VPN Client for Mac OS X. The updated Mac OS X client remains version 2.0.5.

• WatchGuard IPSec Mobile VPN Client for Mac OS X, powered by NCP - There is a license required for this premium client, with a 30-day free trial available with download.

WatchGuard Mobile VPN License Server

• WatchGuard Mobile VPN License Server (MVLS) v2.0, powered by NCP-Click <u>here</u> for more information about MVLS.

Upgrade to Fireware v12.0



If your Firebox is a T10, XTM 25, or XTM 26 device, you may not be able to perform a backup before you upgrade the Firebox. This occurs because the memory use by recent versions of Fireware does not leave enough memory free to successfully complete the upgrade process on these devices. For these devices, we recommend you save a copy of the .xml configuration file with a distinctive name, as described here: <u>Save the Configuration File</u>.

If you need to downgrade the Firebox after you complete the upgrade to Fireware v12.x, we recommend you <u>Downgrade with Web UI</u>. This process deletes the configuration file, but does not remove the device feature keys and certificates. After you downgrade the Firebox, you can use Policy Manager to <u>Save the Configuration File</u> to the Firebox.

Important Information about the upgrade process:

- We recommend you use Fireware Web UI to upgrade to Fireware v12.x. You can also use Policy Manager if you prefer.
- We strongly recommend that you save a local copy of your Firebox configuration and create a Firebox backup image before you upgrade.
- If you use WatchGuard System Manager (WSM), make sure your WSM version is equal to or higher than the version of Fireware OS installed on your Firebox and the version of WSM installed on your Management Server. Also, make sure to upgrade WSM *before* you upgrade the version of Fireware OS on your Firebox.



If you want to upgrade an XTM 2 Series, 3 Series, or 5 Series device, we recommend that you reboot your Firebox before you upgrade. This clears your device memory and can prevent many problems commonly associated with upgrades in those devices.

Back Up Your WatchGuard Servers

It is not usually necessary to uninstall your previous v11.x server or client software when you upgrade to WSM v12.0. You can install the v12.x server and client software on top of your existing installation to upgrade your WatchGuard software components. We do, however, strongly recommend that you back up your WatchGuard Servers (for example, your WatchGuard Management Server) to a safe location before you upgrade. You will need these backup files if you ever want to downgrade.

To back up your Management Server configuration, from the computer where you installed the Management Server:

- 1. From WatchGuard Server Center, select **Backup/Restore Management Server**. *The WatchGuard Server Center Backup/Restore Wizard starts*.
- 2. Click **Next**. The Select an action screen appears.
- 3. Select Back up settings.
- 4. Click **Next**. The Specify a backup file screen appears.
- 5. Click **Browse** to select a location for the backup file. Make sure you save the configuration file to a location you can access later to restore the configuration.
- 6. Click Next.
 - The WatchGuard Server Center Backup/Restore Wizard is complete screen appears.
- 7. Click Finish to exit the wizard.

Upgrade to Fireware v12.0 from Web UI

If your Firebox is running Fireware v11.10 or later, you can upgrade the Fireware OS on your Firebox automatically from the **System > Upgrade OS** page. If your Firebox is running v11.9.x or earlier, use these steps to upgrade:

- 1. Before you begin, save a local copy of your configuration file.
- 2. Go to System > Backup Image or use the USB Backup feature to back up your current device image.
- 3. On your management computer, launch the OS software file you downloaded from the WatchGuard Software Downloads page.

If you use the Windows-based installer on a computer with a Windows 64-bit operating system, this installation extracts an upgrade file called *[product series]_[product code].sysa-dl* to the default location of C:\Program Files(x86)\Common Files\WatchGuard\resources\FirewareXTM\12.0\[model] or [model][product_code].

On a computer with a Windows 32-bit operating system, the path is: C:\Program Files\Common Files\WatchGuard\resources\FirewareXTM\12.0

- 4. Connect to your Firebox with the Web UI and select System > Upgrade OS.
- 5. Browse to the location of the [product series] [product code].sysa-dl from Step 2 and click Upgrade.

If you have installed a beta release of Fireware v12.0 on your computer, you must run the Fireware v12.0 installer twice (once to remove v12.0 software and again to install v12.0).

Upgrade to Fireware v12.0 from WSM/Policy Manager

- 1. Before you begin, save a local copy of your configuration file.
- 2. Select File > Backup or use the USB Backup feature to back up your current device image.
- On a management computer running a Windows 64-bit operating system, launch the OS executable file you downloaded from the WatchGuard Portal. This installation extracts an upgrade file called [Firebox or xtm series]_[product code].sysa-dl to the default location of C:\Program Files(x86)\Common files\WatchGuard\resources\FirewareXTM\12.0\[model] or [model][product_code].
 On a computer with a Windows 32-bit operating system, the path is: C:\Program Files\Common Files\WatchGuard\resources\FirewareXTM\12.0.
- 4. Install and open WatchGuard System Manager v12.0. Connect to your Firebox and launch Policy Manager.
- 5. From Policy Manager, select **File > Upgrade**. When prompted, browse to and select the [product series]_[product code].sysa-dl file from Step 2.

If you have installed a beta release of Fireware v12.0 on your computer, you must run the Fireware v12.0 installer twice (once to remove v12.0 software and again to install v12.0).



If you like to make updates to your Firebox configuration from a saved configuration file, make sure you open the configuration from the Firebox and save it to a new file after you upgrade. This is to make sure that you do not overwrite any configuration changes that were made as part of the upgrade.

Other Upgrade Issues:

There is an upgrade issue that affects some Firebox M400/M500 and M440 devices. Please review this knowledge base article carefully before you upgrade.

We do not recommend that Firebox X 5 Series devices, models 505, 510, 520 or 530, to Fireware v12.x.

Before you upgrade to Fireware v12.x, your Firebox must be running:

- 1
- Fireware XTM v11.8.4

- Fireware XTM v11.7.5

- Fireware XTM v11.9 or higher

If you try to upgrade from Policy Manager and your Firebox is running an unsupported version, the upgrade is prevented.

If you try to schedule an OS update of managed devices through a Management Server, the upgrade is also prevented.

If you use the Fireware Web UI to upgrade your device, you see a warning, but it is possible to continue so you must make sure your Firebox is running v11.7.5, v11.8.4, or v11.9.x, or v11.10.x before you upgrade to Fireware v12.x or your Firebox will be reset to a default state.

Upgrade Notes for XTMv

You cannot upgrade an XTMv device to FireboxV. For Fireware v11.11 and higher, the XTMv device is a 64-bit virtual machine. You cannot upgrade an XTMv device from Fireware v11.10.x or lower to Fireware v11.11 or higher. Instead, you must use the OVA file to deploy a new 64-bit Fireware v11.11.x XTMv VM, and then use Policy Manager to move the existing configuration from the 32-bit XTMv VM to the 64-bit XTMv VM. For more information about how to move the configuration, see <u>Fireware Help</u>. For more information about how to deploy a new XTMv VM, see the latest *WatchGuard XTMv Setup Guide* available <u>here</u>. When your XTMv instance has been updated to v11.11 or higher, you can then use the usual upgrade procedure, as detailed above.



WatchGuard updated the certificate used to sign the .ova files with the release of Fireware v11.11. When you deploy the OVF template, a certificate error may appear in the OVF template details. This error occurs when the host machine is missing an intermediate certificate from Symantic (Symantec Class 3 SHA256 Code Signing CA), and the Windows CryptoAPI was unable to download it. To resolve this error, you can download and install the certificate from Symantec.

Update AP Devices

Beginning with Fireware v11.12.4, AP firmware is no longer bundled with Fireware OS. All AP device firmware is managed by the Gateway Wireless Controller on your Firebox. The Gateway Wireless Controller automatically checks for new AP firmware updates and enables you to download the firmware directly from WatchGuard servers.

All AP firmware is updated with the Fireware v12.0 release.

The current AP firmware versions for each AP device model are:

AP Device Model	Current Firmware Version
AP100, AP102, AP200	1.2.9.13
AP300	2.0.0.8
AP120, AP320, AP322, AP420	8.3.0-648

To manage AP firmware and download the latest AP firmware to your Firebox:

- From Fireware Web UI, select Dashboard > Gateway Wireless Controller. From the Summary tab, click Manage Firmware.
- From Firebox System Manager, select the Gateway Wireless Controller tab, then click Manage Firmware.

Note that you cannot upgrade an AP120, AP320, AP322, or AP420 to 8.3.0-648 or higher unless your Firebox is running Fireware v11.12.4 or higher. If your Firebox does not run v11.12.4. or higher, you will not see an option to upgrade to AP firmware v8.3.0-648.

If you have enabled automatic AP device firmware updates in Gateway Wireless Controller, your AP devices are automatically updated between midnight and 4:00am local time.

To manually update firmware on your AP devices:

- 1. On the Access Points tab, select one or more AP devices.
- 2. From the Actions drop-down list, click Upgrade.
- 3. Click **Yes** to confirm that you want to upgrade the AP device.

Upgrade your FireCluster to Fireware v12.0

You can upgrade Fireware OS for a FireCluster from Policy Manager or Fireware Web UI. To upgrade a FireCluster from Fireware v11.10.x or lower, we recommend you use Policy Manager.

As part of the upgrade process, each cluster member reboots and rejoins the cluster. Because the cluster cannot do load balancing while a cluster member reboot is in progress, we recommend you upgrade an active/active cluster at a time when the network traffic is lightest.

For information on how to upgrade your FireCluster, see this Help topic.

There is an upgrade issue that affects some Firebox M400/M500 and M440 devices. Please review this knowledge base article carefully before you upgrade.

Before you upgrade to Fireware v11.11 or higher, your Firebox must be running:

- Fireware XTM v11.7.5
- Fireware XTM v11.8.4
- Fireware XTM v11.9 or higher

If you try to upgrade from Policy Manager and your Firebox is running an unsupported version, the upgrade is prevented.

If you try to schedule an OS update of managed devices through a Management Server, the upgrade is also prevented.

If you use the Fireware Web UI to upgrade your device, you see a warning, but it is possible to continue so you must make sure your Firebox is running v11.7.5, v11.8.4, or v11.9.x before you upgrade to Fireware v11.11.x or higher or your Firebox will be reset to a default state.

To upgrade a FireCluster from Fireware v11.3.x to Fireware v11.9.x or higher, you must perform a manual upgrade. For manual upgrade steps, see <u>this Knowledge Base article</u>.

Downgrade Instructions

Downgrade from WSM v12.0 to WSM v11.x

If you want to revert from v12.0 to an earlier version of WSM, you must uninstall WSM v12.0. When you uninstall, choose **Yes** when the uninstaller asks if you want to delete server configuration and data files. After the server configuration and data files are deleted, you must restore the data and server configuration files you backed up before you upgraded to WSM v12.0.

Next, install the same version of WSM that you used before you upgraded to WSM v12.0. The installer should detect your existing server configuration and try to restart your servers from the **Finish** dialog box. If you use a WatchGuard Management Server, use WatchGuard Server Center to restore the backup Management Server configuration you created before you first upgraded to WSM v12.0. Verify that all WatchGuard servers are running.

Downgrade from Fireware v12.0 to Fireware v11.x



If you use the Fireware Web UI or CLI to downgrade from Fireware v12.0 to an earlier version, the downgrade process resets the network and security settings on your device to their factory-default settings. The downgrade process does not change the device passphrases and does not remove the feature keys and certificates.

If you want to downgrade from Fireware v12.0 to an earlier version of Fireware, the recommended method is to use a backup image that you created before the upgrade to Fireware v12.0. With a backup image, you can either:

- Restore the full backup image you created when you upgraded to Fireware v12.0 to complete the downgrade; or
- Use the USB backup file you created before the upgrade as your auto-restore image, and then boot into recovery mode with the USB drive plugged in to your device. This is not an option for XTMv users.

See *Fireware Help* for more information about these downgrade procedures, and information about how to downgrade if you do not have a backup image.

Downgrade Restrictions

See this Knowledge Base article for a list of downgrade restrictions.



When you downgrade the Fireware OS on your Firebox or XTM device, the firmware on any paired AP devices is not automatically downgraded. We recommend that you reset the AP device to its factory-default settings to make sure that it can be managed by the older version of Fireware OS.

Enhancements and Resolved Issues in Fireware v12.0

General

- Firebox Web UI now correctly uses the term *Backup IP* in the Mobile VPN with SSL configuration options instead of *Secondary*. [FBX-6597]
- This release suppresses excessive wrapper rsync log messages at the Error level. [FBX-6463]
- The Firebox now uses openvpn-2.3.17, which resolves multiple vulnerabilities that are described at https://community.openvpn.net/openvpn/wiki/VulnerabilitiesFixedInOpenVPN243. [FBX-6486]
- This release improves Firebox stability in environments with a high volume of connections. [FBX-5233, FBX-2724, FBX-2748]
- This release resolves an issue that caused some Fireboxes to lock up and not pass traffic. [FBX-2202, FBX-2652]
- Web UI > Traffic Monitor now correctly displays protocol for ICMP connections that are denied as unhandled. [FBX-5547]
- Web Setup wizard now works correctly for Firebox Cloud on AWS for BYOL license users. [FBX-6567]
- This release improves the passphrase security of WSM role-based access control. [FBX-2334]

Proxies and Services

- This release adds an IMAP proxy for email retrieved by IMAP clients. [FBX-91]
- The Firebox now uses BitDefender for Gateway AV. This replaces the previous AVG engine. [FBX-1675]
- This release adds a new larger signature set for IPS for higher model Fireboxes. [FBX-4807, 86471]
- The Firebox now correctly sends traffic messages for polices with Application Control enabled. [FBX-3324]
- The SMTP proxy no longer incorrectly drops emails with attachments over 2 megabytes in size. [FBX-2313]
- This release removes the erroneous Replace action from the SMTP proxy configuration. [FBX-2628]
- Policy Manager now correctly allows wildcards in spamBlocker exceptions. [FBX-5672]
- This release improves SIP-ALG handling of Ringing 180 messages. [FBX-6685]
- Default NAT settings are now correctly added to the WatchGuard Threat Detection and Response policy in Fireware Web UI. [FBX-6454]
- The presence of saved AP firmware and fault reports in XTM 25 and XTM 26 appliance storage no longer causes signature updates to fail. [FBX-5659]
- This release resolves an issue in which emails encrypted with TLS fail when sent with large attachments and large Gateway AV scan limit. [FBX-2620, FBX-2621]
- The SMTP proxy Lock action now correctly formats file name when the original name includes an umlaut character. [FBX-2644]
- The SMTP proxy can now delay email delivery to allow time for APT scans to complete and reduce risk of malicious emails. [FBX-4960]
- The Firebox now uses HTTPS to securely request website classification for WebBlocker with Websense cloud. [FBX-1356]

Authentication and Single Sign-On (SSO)

- This release improves the reliability of the SSO Agent service. [FBX-6234]
- SSO with Exchange Monitor will no longer try to authenticate users in the External network zone. [FBX-2617]
- This release resolves an issue that caused the Firebox to deny traffic from the Terminal Services Backend-Service user as unhandled. [FBX-6104]

VPN

- This release resolves an IKE process crash that occurred when IKEv2 VPN negotiation fails. [FBX-7050]
- This release resolves an IKE crash that occurred with IKEv2 negotiation. [FBX-7050]
- The Firebox no longer unexpectedly fragments ESP packets. [FBX-6307]
- The MacOS client for Mobile VPN with SSL now configures DNS servers in the same order as they appear in the Firebox configuration. [FBX-5052]

Networking and Modem Support

- The Firebox can now act as a local multicast router to forward multicast traffic from the source to receivers on your network. [FBX-1176]
- Policy Manager now correctly retrieves the Default Gateway from the configuration file when you do not have an external interface configured. [FBX-5734]
- The Firebox now correctly supports Huawei E3372h-153 USB LTE Modem. [FBX-2916]
- This release adds support for the D-Link DWM-222 modem. [FBX-3741]
- This release improves Bandwidth Guarantee performance in Traffic Management. [FBX-2515, FBX-2348]
- XTM 25 and XTM 26 devices no longer lose link after DHCP renewal. [FBX-5821]
- External interfaces configured for DHCP now correctly set the specified IP address in configuration. [FBX-5704]

FireCluster

• This release improves FireCluster stability during configuration changes in environments with a high volume of connections. [FBX-5887]

Wireless

- The Gateway Wireless Controller global passphrase is no longer corrupted when you upgrade from Fireware v11.12.1 or earlier release. As a result, AP devices no longer become stuck in an *Authenticating* state. *[FBX-6552,FBX-6394]*
- Gateway Wireless Controller in Firebox System Manager no longer clears selected objects on refresh.
 [FBX-5359]
- Policy Manager can now save to FireClusters with Gateway Wireless Controller and Fireware v11.12.1 and earlier. [FBX-6381]

Dimension and Centralized Management

• Management Server no longer allows users to access information outside their level of permissions. [FBX-2828]

ConnectWise Integration

- ConnectWise integration can now close tickets after you remove the default Close status type. [FBX-6504]
- ConnectWise can now create tickets when there is no contact defined in the account. [FBX-7193]
- You can now configure ConnectWise integration to set priority for tickets created by your Firebox. [FBX-1802]

Known Issues and Limitations

Known issues for Fireware v12.0 and its management applications, including workarounds where available, can be found on the <u>Technical Search > Knowledge Base</u> tab. To see known issues for a specific release, from the **Product & Version** filters you can expand the Fireware version list and select the check box for v12.0.

Using the CLI

The Fireware CLI (Command Line Interface) is fully supported for v12.x releases. For information on how to start and use the CLI, see the *Command Line Reference Guide*. You can download the latest CLI guide from the documentation web site for <u>WatchGuard Firebox</u>, XTM & <u>Dimension</u>.

Technical Assistance

For technical assistance, contact WatchGuard Technical Support by telephone or log in to the WatchGuard Portal on the Web at http://www.watchguard.com/wgrd-support/overview. When you contact Technical Support, you must supply your registered Product Serial Number or Partner ID.

	Phone Number
U.S. End Users	877.232.3531
International End Users	+1 206.613.0456
Authorized WatchGuard Resellers	206.521.8375