Fireware v12.11.1 Update 1 Release Notes

Supported Devices	Firebox NV5, T20, T25, T40, T45, T55, T70, T80, T85, M270, M290, M370, M390, M470, M570, M590, M670, M690, M4600, M4800, M5600, M5800 FireboxV, Firebox Cloud, WatchGuard AP
Release Date	12.11.1 Update 1: 21 March 2025 12.11.1: 13 February 2025
Release Notes Revision	16 April 2025
Fireware OS Build	12.11.1 Update 1: 713274 12.11.1: 711554
WatchGuard System Manager Build	12.11.1: 710721
WatchGuard AP Firmware	AP125, AP225W, AP325, AP327X, AP420: 11.0.0-36-4

Introduction

Fireware v12.11.1 Update 1

On 21 March 2025, WatchGuard released Fireware v12.11.1 Update 1. This release includes a number of important resolved issues. For more information, go to Enhancements and Resolved Issues in Fireware v12.11.1 Update 1.

Fireware v12.11.1

Fireware v12.11.1 introduces several enhancements to Fireware and resolves numerous issues and bugs.

Features in this release include:

WatchGuard IPSec Mobile VPN Client (NCP) for Windows support for IKEv2

You can now import an IKEv2 VPN profile to the WatchGuard IPSec Mobile VPN client for Windows. To import an IKEv2 profile, download an IKEv2 .INI profile configuration file and a .PEM certificate file from the Firebox.

This feature requires the IPSec Mobile VPN Client for Windows v15.19 released with Fireware v12.11.

Support for the Message-Authenticator attribute for RADIUS authentication servers

You can now configure RADIUS authentication servers on the Firebox to require the Message-Authenticator attribute. The Message-Authenticator attribute is a field in RADIUS packets that verifies the integrity of the packet and prevents spoofing.

IPv6 connection support for the T45-CW 5G Modem

You can now enable IPv6 support for 5G modem connections on the T45-CW. This enables IPv4/IPv6 dual-stack capabilities for the connection. Enable this option for specific carriers that require IPv6 to establish a connection.

WatchGuard IPSec Mobile VPN Client for macOS v4.73

An updated version of the WatchGuard IPSec Mobile VPN Client for macOS includes minor enhancements and bug fixes.

With the release of Fireware v12.9, WatchGuard announced the deprecation of the WatchGuard Log Server, Report Server, and Quarantine Server. WSM v12.11 still includes these server components but they are no longer supported in v12.9 and higher. We will remove them in a future WSM release.

For a full list of the enhancements in this release, go to Enhancements and Resolved Issues or review the What's New in Fireware v12.11.1 PowerPoint.

Before You Begin

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

- A supported WatchGuard Firebox. This device can be a WatchGuard Firebox NV5, T20, T25, T40, T45, T55, T70, T80, T85, M270, M290, M370, M390, M470, M570, M590, M670, M690, M4600, M4800, M5600, M5800, FireboxV, or Firebox Cloud.
- 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 and the version of WSM installed on your Management Server.
- Feature key for your Firebox — 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 Fireware v11.12.4 release notes for important information about significant feature changes that occurred in the Fireware v11.12.x release cycle.
- Some Known Issues are especially important to be aware of before you upgrade, either to or from specific versions of Fireware. To learn more, go to Release-specific upgrade notes.

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 software that matches your Fireware OS version.

If you have a new Firebox, 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 in the WatchGuard Help Center for important installation and setup instructions. We also recommend that you review the Hardware Guide for your Firebox 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 https://www.watchguard.com/wgrd-help/documentation/overview.

Enhancements and Resolved Issues

Enhancements and Resolved Issues in Fireware v12.11.1 Update 1

- This release resolves an issue where the Geolocation database loaded only partially or failed to load, which caused failed Geolocation lookups or failures to identify sites that Geolocation should block. *[FBX-29123, FBX-29128]*
- This release resolves an issue that caused RDP sessions on the Access Portal to disconnect automatically after a few minutes. *[FBX-28525,FBX-28684]*
- When the Block Failed Logins feature adds an IP address to the blocked sites list, the reason now shows correctly as `default threat protection` in log messages. *[FBX-28658]*
- Automatic feature key synchronization now works correctly for devices that use MSSP points. *[FBX-28799]*
- This release resolves an issue that caused the HTTPS proxy to prematurely disconnect from Web Servers that do not support secure renegotiation. *[FBX-28602, FBX-28459]*
- The *proxy* process no longer crashes when it scans email messages with unexpected data in the **Received:** headers. *[FBX-27536]*
- The Session Timeout and Idle Timeout values for Firewall authentication now take effect for Mobile VPN with SSL sessions that use a SAML authentication server. *[FBX-28797]*
- This release resolves high CPU usage that occurred when the mobile VPN configuration included many IKEv2 user groups. *[FBX-25568]*
- This release resolves a packet loss issue that occurred when traffic passed through a BOVPN on a Firebox with a large number of active VPN tunnels. *[FBX-28744]*
- Fireware Web UI now shows the correct Firebox port health index values for FireCluster. *[FBX-28611]*
- This release resolves an issue that could unlock a FireCluster user a few seconds after they were locked out. *[FBX-28746]*
- FireCluster status now displays correctly when a failover occurs. *[FBX-28716]*
- The CLI command **show connection count by-policy** now returns data for all policies. *[FBX-7183]*

Enhancements and Resolved Issues in Fireware v12.11.1

Security Issues

- You can now configure RADIUS authentication servers on the Firebox to require the Message-Authenticator attribute in responses. This attribute protects from exploits such as Blast-RADIUS (CVE-2024-3596). View the full advisory details on psirt.watchguard.com. *[WGSA-2024-00013, FBX-27715, FBX-27761]*
- This release resolves a cross-site scripting (XSS) vulnerability in spamBlocker (CVE-2025-1071). View the full advisory details on psirt.watchguard.com. *[WGSA-2025-00001]*
- This release resolves a cross-site scripting (XSS) vulnerability in the Blocked Sites list (CVE-2025-1239). View the full advisory details on psirt.watchguard.com. *[WGSA-2025-00002]*
- This release resolves a host header injection vulnerability in the Fireware Web UI (CVE-2025-0178). View the full advisory details on psirt.watchguard.com. *[WGSA-2025-0003]*

General

- This release adds security headers to responses returned by the Firebox web server. *[FBX-20639, FBX-26206]*

- This release resolves an issue that caused failed deployment of blocked sites exceptions from the public Firebox Management API. *[FBX-28450]*
- This release resolves an issue with the `samld.fcgi` process that caused high CPU load. *[FBX-28493]*
- Autotask ticket creation no longer fails when the Queue value is invalid. *[FBX-28288]*
- Firebox log messages in Traffic Monitor no longer reference the TDR Host Sensor and previous references to Host Sensor Enforcement now appear as Network Access Enforcement. *[FBX-25907]*
- This release resolves an issue that caused backup image creation to fail if the first character in the system name is a period. *[FBX-27930]*
- Fireware Web UI now shows the correct FireCluster status. *[FBX-28485, FBX-27179]*
- This release resolves an issue where the `certd` process became unresponsive, which caused errors in Firebox System Manager. *[FBX-28527, FBX-28538]*

Authentication

- The Firebox now generates Event log messages when authentication fails to the AuthPoint authentication server. *[FBX-28355]*
- This release resolves an issue that caused a `403 Forbidden – Invalid Session` message to appear when a user initiated SAML login from the IdP provider. *[FBX-28458]*

Networking

- You can now enable IPv6 support for 5G modem connections on the T45-CW. *[FBX-27386]*
- You can no longer delete a VLAN used as the management interface in a FireCluster configuration. *[FBX-28524]*

Proxies, Policies, and Services

- Default TLS Profiles now show TLS v1.2 as the Minimum Protocol version. *[FBX-28497]*
- This release resolves an issue that caused HTTPS-Proxy content inspection to slow over time. *[FBX-27187]*

VPN

- The WatchGuard IPSec Mobile VPN Client for Windows v15.19 (released with Fireware v12.11) now supports IKEv2. *[FBX-21056]*
- This release resolves an issue that caused Fireware Web UI to reset the **Allow SSLVPN Users** and **WatchGuard SSLVPN** policies to default settings. *[FBX-20498]*

WSM

- Policy Manager now prevents the erroneous configuration of DHCP server pools that overlap across two interfaces. *[FBX-28605]*
- Policy Manager no longer removes **Any-Trusted** and **Any-Optional** interface aliases from the **WatchGuard SSLVPN** policy. *[FBX-28557]*
- This release resolves an issue that marked the configuration as changed when Policy Manager opened. *[FBX-28492]*
- When you save a configuration without a feature key to a file, DNSWatch is no longer disabled. *[FBX-27985]*

WatchGuard IPSec Mobile VPN Client for macOS v4.73, Powered by NCP

- This release resolves a compatibility issue with macOS Sequoia 15.2. *[FBX-28620]*
- This release resolves disconnections caused by incorrect DPD processing (Dead Peer Detection).

- This release resolves an issue that sent a DNS request to a DNS server outside of the VPN tunnel.

Known Issues and Limitations

Known issues for Fireware v12.11.1 Update 1 and its management applications, including workarounds where available, can be found on the Technical Search > Knowledge Base tab. To go to known issues for a specific release, from the **Product & Version** filters you can expand the Fireware version list and select the check box for that version.

Some Known Issues are especially important to be aware of before you upgrade, either to or from specific versions of Fireware. To learn more, go to Release-specific upgrade notes.

Download Software

You can download software from the WatchGuard Software Downloads Center.

There are several software files available for download with this release. The descriptions below detail which software packages you need for your upgrade.

WatchGuard System Manager

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

`WSM_12_11_1.exe` — Use this file to install WSM v12.11.1 or to upgrade WatchGuard System Manager from an earlier version.

Fireware OS

You can upgrade the Fireware OS on your Firebox automatically from the Fireware Web UI **System > Upgrade OS** page or from WatchGuard Cloud.

If you prefer to upgrade from Policy Manager, or from an earlier version of Fireware, you can download the Fireware OS image for your Firebox. 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 FireboxV device.

The file name for software downloads always includes the product group, such as T20_T40 for the Firebox T20 or T40.

If you have…	Select from these Fireware OS packages
Firebox M270/M370/M470/M570/M670	`Firebox_OS_M270_M370_M470_M570_M670_12_11_1_U1.exe` `firebox_M270_M370_M470_M570_M670_12_11_1_U1.zip`
Firebox M290	`Firebox_OS_M290_12_11_1_U1.exe` `firebox_M290_12_11_1_U1.zip`
Firebox M390	`Firebox_OS_M390_12_11_1_U1.exe` `firebox_M390_12_11_1_U1.zip`
Firebox M590/M690	`Firebox_OS_M590_M690_12_11_1_U1.exe` `firebox_M590_M690_12_11_1_U1.zip`
Firebox M4600/M5600	`Firebox_OS_M4600_M5600_12_11_1_U1.exe` `firebox_M4600_M5600_12_11_1_U1.zip`
Firebox M4800/M5800	`Firebox_OS_M4800_M5800_12_11_1_U1.exe` `firebox_M4800_M5800_12_11_1_U1.zip`
Firebox NV5	`Firebox_OS_NV5_12_11_1_U1.exe` `firebox_NV5_12_11_1_U1.zip`
Firebox T20/T40	`Firebox_OS_T20_T40_12_11_1_U1.exe` `firebox_T20_T40_12_11_1_U1.zip`

If you have…	Select from these Fireware OS packages
Firebox T25/T45	`Firebox_OS_T25_T45_12_11_1_U1.exe` `firebox_T25_T45_12_11_1_U1.zip`
Firebox T55	`Firebox_OS_T55_12_11_1_U1.exe` `firebox_T55_12_11_1_U1.zip`
Firebox T70	`Firebox_OS_T70_12_11_1_U1.exe` `firebox_T70_12_11_1_U1.zip`
Firebox T80	`Firebox_OS_T80_12_11_1_U1.exe` `firebox_T80_12_11_1_U1.zip`
Firebox T85	`Firebox_OS_T85_12_11_1_U1.exe` `firebox_T85_12_11_1_U1.zip`

FireboxV
All editions for VMware
	`FireboxV_12_11_1_U1.ova`
	`Firebox_OS_FireboxV_12_11_1_U1.exe`
	`firebox_FireboxV_12_11_1_U1.zip`

FireboxV
All editions for Hyper-V
	`FireboxV_12_11_1_U1.vhd.zip`
	`Firebox_OS_FireboxV_12_11_1_U1.exe`
	`firebox_FireboxV_12_11_1_U1.zip`

Firebox Cloud	`Firebox_OS_FireboxCloud_12_11_1_U1.exe` `fireboxCloud_12_11_1_U1.zip`

Additional Firebox Software

The files in the list below are not directly used by the Firebox or for Firebox management, but are necessary for key features to work. In most cases, the file name includes the Fireware version that was current at the time of release.

File name	Description	Updated in this release
WG-Authentication-Gateway_12_10_2.exe	Single Sign-On Agent software - required for Single Sign-On and includes optional Event Log Monitor for clientless SSO[4]	No
WG-Authentication-Client_12_7.msi	Single Sign-On Client software for Windows[4]	No
WG-SSOCLIENT-MAC_12_5_4.dmg	Single Sign-On Client software for macOS[4]	No
SSOExchangeMonitor_x86_12_10.exe	Exchange Monitor for 32-bit operating systems	No
SSOExchangeMonitor_x64_12_10.exe	Exchange Monitor for 64-bit operating systems	No

File name	Description	Updated in this release
TO_AGENT_SETUP_12_10.exe	Terminal Services software for both 32-bit and 64-bit systems	No
WG-MVPN-SSL_12_11.exe	Mobile VPN with SSL Client for Windows	No
WG-MVPN-SSL_12_10_4.dmg	Mobile VPN with SSL Client for macOS	No
WG-Mobile-VPN_Windows_x86-64_1519_29720.exe[1]	WatchGuard IPSec Mobile VPN Client for Windows (64-bit), powered by NCP[2]	No
WatchGuard_Mobile_VPN_x86-64_473_30031.dmg[1]	**WatchGuard IPSec Mobile VPN Client for macOS, powered by NCP**[2]	**Yes**
Watchguard_MVLS_Win_x86-64_200_rev19725.exe[1]	WatchGuard Mobile VPN License Server (MVLS) v2.0, powered by NCP[3]	No

[1] The version number in this file name does not match any Fireware version number.

[2] There is a license required for this premium client, with a 30-day free trial available with download.

[3] Click here for more information about MVLS. If you have a VPN bundle ID for macOS, it must be updated on the license server to support the macOS 3.00 or higher client. To update your bundle ID, contact WatchGuard Customer Support. Make sure to have your existing bundle ID available to expedite the update.

[4] SSO Agent v12.10.2 supports Fireware v12.5.4 or higher only. Before you install SSO Agent v12.10.2, you must upgrade the Firebox to Fireware v12.5.4 or higher. If you install SSO Agent v12.10.2, we recommend that you upgrade all SSO Clients to v12.7. You cannot use SSO Client v12.7 with versions of the SSO Agent lower than v12.5.4. Fireware v12.11 supports previous versions of the SSO Agent.

Upgrade to Fireware v12.11.1 Update 1

Important information about the upgrade process:

- You can use WatchGuard Cloud, Fireware Web UI, or Policy Manager to upgrade your Firebox.
- 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.
- In Fireware v12.6.2 or higher, Fireware Web UI prevents the addition of users with reserved user names to the Firebox-DB authentication server. We recommend that you delete or replace any user with a reserved name before you upgrade to Fireware v12.6.2 or higher. For more information, go to Reserved Firebox-DB authentication server user names.
- In Fireware v12.7 or higher, you cannot name new authentication servers *AuthPoint*. If you have an existing authentication server called *AuthPoint*, it will be automatically renamed to *AuthPoint.1* when you upgrade your Firebox to Fireware v12.7 or higher, or when you use WSM v12.7 or higher to manage a Firebox that runs Fireware 12.6.x or lower.

Back Up Your WatchGuard Servers

It is not usually necessary to uninstall your previous server or client software when you upgrade to WSM v12.x. 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.

For instructions on how to back up your Management Server configuration, go to Fireware Help.

Upgrade to Fireware v12.11.1 Update 1 from WatchGuard Cloud

From WatchGuard Cloud, you can upgrade the firmware for a Firebox that runs Fireware v12.5.2 or higher. To upgrade from WatchGuard Cloud, go to Upgrade Firmware from WatchGuard Cloud in *WatchGuard Cloud Help*.

Upgrade to Fireware v12.11.1 Update 1 from Fireware Web UI

You can upgrade the Fireware OS on your Firebox automatically from the **System > Upgrade OS** page. To upgrade manually, go to Upgrade Fireware OS or WatchGuard System Manager in *Fireware Help*.

If your Firebox runs Fireware v11.9.x or lower, follow the steps in this knowledge base article.

If you have installed another release of this OS version on your computer, you must run the installer twice (once to remove the previous release and again to install this release).

Upgrade to Fireware v12.11.1 Update 1 from WSM/Policy Manager

To upgrade from WSM/Policy Manager, go to Upgrade Fireware OS or WatchGuard System Manager in *Fireware Help*.

If you have installed another release of this OS version on your computer, you must run the installer twice (once to remove the previous release and again to install this release).

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.

Update Access Points

All access point (AP) 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.

As of Fireware v12.11, only AP125, AP225W, AP325, AP327X, AP420 devices that run the latest v11.0.0-36-4 AP firmware are supported by the Gateway Wireless Controller. Upgrade to the latest AP firmware before you upgrade to Fireware v12.11 or higher.

AP Firmware Upgrade

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.**

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

To manually update firmware on your APs:

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

Upgrade a FireCluster to Fireware v12.11.1 Update 1

You can upgrade Fireware 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, go to this Help topic.

Fireware v12.11.1 Update 1 Operating System Compatibility Matrix

Last reviewed: 21 March 2025

WSM/ Fireware Component	Microsoft Windows 10, 11	Microsoft Windows Server 2019, 2022, & 2025	macOS v10.14, v10.15, v11, v12, v13, v14, & v15	Android 7, 8, 9, 10, 11, 12, 13, 14, & 15	iOS v9, v10, v11, v12, v13, v14, v15, v16, v17, & v18
WatchGuard System Manager	✓	✓			
WatchGuard Servers *For information on WatchGuard Dimension, go to the Dimension Release Notes.*	✓	✓			
Single Sign-On Agent (Includes Event Log Monitor)[11]		✓			
Single Sign-On Client	✓	✓	✓[2, 13]		
Single Sign-On Exchange Monitor		✓			
Terminal Services Agent[1]		✓			
Mobile VPN with IPSec	✓		✓[2,3,8]	✓	✓[3]
Mobile VPN with SSL	✓		✓ 2,6,9,12	✓[4]	✓[4]
Mobile VPN with IKEv2	✓		✓[2,7]	✓[5]	✓
Mobile VPN with L2TP	✓		✓[3]	✓[10]	✓

Note about Microsoft Windows support:

- *Documentation might include references and examples for Windows OS versions that are no longer supported. This is provided to assist users with those OS versions, but we cannot guarantee compatibility.*

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

- *Microsoft Edge116*
- *Firefox v117*
- *Safari 16 (macOS)*
- *Chrome v116*

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

[2]To learn more about client support for different macOS versions, go to the macOS software compatibility KB articles for macOS Catalina 10.15, macOS Big Sur 11, macOS Monterey 12, macOS Ventura 13, and macOS Sonoma 14, and macOS Sequoia 15.

[3]Native (Cisco) IPSec client is supported for all recent versions of macOS and iOS.

[4]OpenVPN is supported for all recent versions of Android and iOS.

[5]StrongSwan is supported for all recent versions of Android.

[6]In macOS 10.15 (Catalina) or higher, you must install v12.5.2 or higher of the WatchGuard Mobile VPN with SSL client.

[7]In macOS 12 (Monterey) or higher, you must manually update the authentication settings after you install the Mobile VPN with IKEv2 client profile. For more information, go to this KB article.

[8] Mobile VPN with IPSec NCP client for macOS (version 4.61 build 29053) supports macOS Big Sur 11 or higher only.

[9] macOS 13 (Ventura) and higher do not accept SSL connections to untrusted self-signed certificates. For more information, go to this KB article.

[10] The built-in Android OS L2TP client is supported for all Android versions except Android 12 and higher (Android 12 removed support for L2TP VPN).

[11] The WatchGuard Single-Sign On Agent v12.10.1 supports computers that are joined to your domain with Azure Active Directory.

[12] The WatchGuard Mobile VPN with SSL Client v12.10.4 for macOS does not support macOS 10.15 (Catalina) or lower.

[13] The Single Sign-On Client does not support macOS 15 (Sequoia).

Authentication Support

This table provides 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 supported by WatchGuard*

	AuthPoint Authentication Server	AuthPoint RADIUS Server	Active Directory	LDAP	RADIUS	SecurID	Firebox (Firebox-DB) Local Authentication	SAML
Mobile VPN with IPSec for iOS, Windows, and macOS	–	✓	✓	✓	✓	✓	✓	–
Mobile VPN with IPSec for Android	–	✓	✓	✓	✓	–	✓	–
Mobile VPN with SSL	✓	✓	✓	✓	✓	✓	✓	✓[2]
Mobile VPN with IKEv2 for Windows	✓	✓	✓[1]	–	✓	–	✓	–
Mobile VPN with L2TP	–	✓	✓[1]	–	✓	–	✓	–
Built-in Web Page on Port 4100 and 8080	✓	✓	✓	✓	✓	✓	✓	✓[3]
Access Portal	–	✓	✓	✓	✓	✓	✓	✓
AD Single Sign-On Support *(with or without client software)*	–	–	✓	✓	–	–	–	–
Terminal Services Manual Authentication	–	–	✓	✓	✓	✓	✓	–
Terminal Services Authentication with Single Sign-On	–	–	✓	–	–	–	–	–

[1] Active Directory authentication methods are supported only through a RADIUS server.

[2] Supported with the Mobile VPN with SSL Client for Windows.

[3] Port 8080 does not support SAML authentication.

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 2GHz	Intel Core or Xeon 2GHz
Minimum Memory	1 GB	2 GB
Minimum Available Disk Space	250 MB	1 GB
Minimum Recommended Screen Resolution	1024x768	1024x768

FireboxV System Requirements

A WatchGuard FireboxV virtual machine can run on:

- VMware ESXi 6.5, 6.7, 7.0, or 8.0
- Hyper-V for Microsoft Windows Server 2019, 2022, or 2025, and Hyper-V Server 2019
- KVM in CentOS 8.1

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	Minimum Total Memory	Recommended Memory	Maximum vCPUs
Micro	2048 MB[1]	4096 MB	2
Small	2048 MB[1]	4096 MB	2
Medium	4096 MB	4096 MB	4
Large	4096 MB	8192 MB	8
Extra Large	4096 MB	16384 MB	16

[1] 4096 MB is required to enable Access Portal and IntelligentAV, and to use the Full signature set for IPS/Application Control.

Firebox Cloud System Requirements

Firebox Cloud can run on Amazon Web Services (AWS) and Microsoft Azure cloud computing platforms.

Firebox Cloud CPU and memory requirements:

- Minimum CPU cores: 2
- Minimum total memory: 2048 MB[1]
- Recommended minimum total memory: 4096 MB

[1] 4096 MB is required to enable Access Portal and IntelligentAV, and to use the Full signature set for IPS/Application Control.

WatchGuard recommends an instance that has at least 1024 MB of memory for each CPU core. For example, if the instance has four CPU cores, we recommend a minimum total memory of 4096 MB. Refer to the AWS and Azure documentation to identify instances that meet these requirements.

For Firebox Cloud with a BYOL license, the Firebox Cloud model determines the maximum number of CPU cores. For more information, go to Firebox Cloud License Options in Help Center.

For a BYOL license, Azure automatically selects an instance size based on the License Type you select. For more information, go to the Firebox Cloud Deployment Guide.

Downgrade Instructions

You cannot downgrade a Firebox T20, T25, T40, T45, T55, T70, T80, T85, M270, M290, M370, M390, M470, M570, M590, M670, M690, M4600, M4800, M5600, or M5800 to a version of Fireware lower than Fireware v12.7.2 Update 2.

Downgrade from WSM v12.11.1

If you want to downgrade from WSM v12.11.1 to a lower version, you must uninstall WSM v12.11.1. 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 v12.11.1.

Next, install the same version of WSM that you used before you upgraded to WSM v12.11.1. 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 v12.11.1. Verify that all WatchGuard servers are running.

Downgrade from Fireware v12.11.1

If you want to downgrade from Fireware v12.11.1 to a lower version of Fireware, the recommended method is to use a backup image that you created before the upgrade to Fireware v12.11.1. With a backup image, you can either:

- Restore the full backup image you created when you upgraded to Fireware v12.11.1 to complete the downgrade.
- 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.

If you need to downgrade a Firebox without a backup file after you complete the upgrade to Fireware v12.x, we recommend you Use the Web UI to Downgrade Fireware. 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 Save the Configuration File to the Firebox.

If you use the Fireware Web UI or CLI to downgrade 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.

Go to *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

Go to this Knowledge Base article for a list of downgrade restrictions.

When you downgrade the Fireware OS on your Firebox, 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.

Technical Assistance

For technical assistance, contact WatchGuard Technical Support by telephone or log in to the WatchGuard Portal at https://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

Localization

This release includes updates to the localization for the management user interfaces (WSM application suite and Web UI) through Fireware v12.6.4. UI changes introduced since v12.6.4 might 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

Although some other Web UI and Policy Manager fields might accept Unicode characters, problems can occur if you enter non-ASCII characters in those fields.

Any data returned from the device operating system (e.g. log data) is displayed in English only. Additionally, all items in the Fireware 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 set in your web browser by default.

WatchGuard System Manager

When you install WSM, you can choose which 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 10 and want to use WSM in Japanese, go to Control Panel > Language and select Japanese as your Display Language.

Dimension, WebCenter, Quarantine Web UI, and Wireless Hotspot

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

Documentation

The latest version of localized Fireware Help is available from WatchGuard Help Center. In the top-right of a Fireware Help page, select your language from the drop-down list.