

# Release Notes

**FortiManager 7.2.3**



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FortiManager 7.2.3 Release Notes

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# Change Log

Date	Change Description
2023-06-08	Initial release.
2023-06-13	Updated <a href="#">Known Issues on page 49</a> and <a href="#">Resolved Issues on page 41</a> .
2023-06-16	Updated <a href="#">Resolved Issues on page 41</a> .
2023-06-19	Updated <a href="#">Special Notices on page 11</a> , <a href="#">Known Issues on page 49</a> , and <a href="#">Resolved Issues on page 41</a> .
2023-06-21	Updated <a href="#">Known Issues on page 49</a> and <a href="#">Resolved Issues on page 41</a> .
2023-06-26	Updated <a href="#">FortiOS and FortiOS Carrier on page 21</a> and <a href="#">Known Issues on page 49</a> .
2023-06-27	Updated <a href="#">Special Notices on page 11</a> and <a href="#">Resolved Issues on page 41</a> .
2023-06-30	Updated <a href="#">Known Issues on page 49</a> .
2023-07-04	Updated <a href="#">Known Issues on page 49</a> and <a href="#">Resolved Issues on page 41</a> .
2023-07-10	Updated <a href="#">Known Issues on page 49</a> and <a href="#">FortiProxy on page 23</a> .
2023-07-19	Updated <a href="#">Web browsers on page 21</a> .
2023-07-26	Updated <a href="#">Special Notices on page 11</a> .
2023-08-21	Updated <a href="#">Known Issues on page 49</a> .
2023-09-20	Updated <a href="#">FortiProxy on page 23</a> and <a href="#">FortiGate special branch models on page 29</a> .
2023-09-25	Updated <a href="#">FortiClient on page 22</a> .
2023-10-12	Updated <a href="#">Resolved Issues on page 41</a> and <a href="#">Known Issues on page 49</a> .
2023-10-19	Updated <a href="#">Management extension applications on page 9</a> .
2023-11-15	Updated <a href="#">Resolved Issues on page 41</a> .
2023-11-16	Updated <a href="#">FortiOS and FortiOS Carrier on page 21</a> .
2024-01-03	Updated <a href="#">Known Issues on page 49</a> .
2024-01-05	<i>Added FortiManager 7.2.3 and later firmware on FortiGuard Special Notice.</i>
2024-01-26	Updated <a href="#">FortiProxy on page 23</a> .
2024-03-11	Updated <a href="#">Special Notices on page 11</a> : Access lists as ADOM-level objects.
2024-03-26	Updated <a href="#">Known Issues on page 49</a> .
2024-04-23	Updated <a href="#">Resolved Issues on page 41</a> and <a href="#">Known Issues on page 49</a> .
2024-07-11	Updated <a href="#">Management extension applications on page 9</a> .
2024-12-03	Updated <a href="#">Special Notices on page 11</a> .

Date	Change Description
2024-12-10	Updated <a href="#">Supported models on page 8</a> with information about access to FortiManager container versions.
2025-02-11	Updated <a href="#">Known Issues on page 49</a> .

# FortiManager 7.2.3 Release

This document provides information about FortiManager version 7.2.3 build 1405.



The recommended minimum screen resolution for the FortiManager GUI is 1920 x 1080. Please adjust the screen resolution accordingly. Otherwise, the GUI may not display properly.

This section includes the following topics:

- [Supported models on page 8](#)
- [FortiManager VM subscription license on page 8](#)
- [Management extension applications on page 9](#)

## Supported models

FortiManager version 7.2.3 supports the following models:

<b>FortiManager</b>	FMG-200F, FMG-200G, FMG-300F, FMG-400E, FMG-400G, FMG-1000F, FMG-2000E FMG-3000F, FMG-3000G, FMG-3700F, and FMG-3700G.
<b>FortiManager VM</b>	FMG_VM64, FMG_VM64_ALI, FMG_VM64_AWS, FMG_VM64_AWSOnDemand, FMG_VM64_Azure, FMG_VM64_GCP, FMG_VM64_IBM, FMG_VM64_HV (including Hyper-V 2016, 2019, and 2022), FMG_VM64_KVM, FMG_VM64_OPC, FMG_VM64_XEN (for both Citrix and Open Source Xen).



For access to container versions of FortiManager, contact [Fortinet Support](#).

## FortiManager VM subscription license

The FortiManager VM subscription license supports FortiManager version 6.4.1 and later. For information about supported firmware, see [FortiManager VM firmware on page 18](#).

See also [Appendix B - Default and maximum number of ADOMs supported on page 56](#).

## Management extension applications

The following section describes supported models and minimum system requirements for management extension applications (MEA) in FortiManager 7.2.3.



FortiManager uses port TCP/443 or TCP/4443 to connect to the Fortinet registry and download MEAs. Ensure that the port is also open on any upstream FortiGates. For more information about incoming and outgoing ports, see the [FortiManager 7.0 Ports Guide](#).

## Supported models for MEA

As of FortiManager 7.2.3, the *Management Extensions* pane is only visible in the GUI when docker status is enabled and at least one MEA is enabled and downloaded. For more information about enabling and using the MEAs, see the Management Extensions documentation in the [FortiManager Documents Library](#).

You can use any of the following FortiManager models as a host for management extension applications:

<b>FortiManager</b>	FMG-3000F, FMG-3000G, FMG-3700F, and FMG-3700G.
<b>FortiManager VM</b>	FMG_VM64, FMG_VM64_ALI, FMG_VM64_AWS, FMG_VM64_AWSOnDemand, FMG_VM64_Azure, FMG_VM64_GCP, FMG_VM64_IBM, FMG_VM64_HV (including Hyper-V 2016, 2019, and 2022), FMG_VM64_KVM, FMG_VM64_OPC, FMG_VM64_XEN (for both Citrix and Open Source Xen).

## Minimum system requirements

By default FortiManager VMs use the following system resource settings:

- 4 vCPU
- 16 GB RAM
- 500 GB disk space

Starting with FortiManager 7.0.0, RAM and CPU is capped at 50% for MEAs. (Use the `config system docker` command to view the setting.) If FortiManager has 8 CPUs and 16 GB RAM, then only 4 CPUs and 8 GB RAM are available to MEAs by default, and the 4 CPUs and 8 GB RAM are used for all enabled MEAs.

Some management extension applications have minimum system requirements that require you to increase system resources. The following table identifies the minimum requirements for each MEA as well as the recommended system resources to function well in a production environment.

MEA minimum system requirements apply only to the individual MEA and do not take into consideration any system requirements for resource-sensitive FortiManager features or multiple, enabled MEAs. If you are using multiple MEAs, you must increase the system resources to meet the cumulative need of each MEA.

Management Extension Application	Minimum system requirements	Recommended system resources for production*
<b>FortiAIOps</b>	<ul style="list-style-type: none"> <li>• 8 vCPU</li> <li>• 32 GB RAM</li> <li>• 500 GB disk storage</li> </ul>	No change
<b>FortiSigConverter</b>	<ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> </ul>	No change
<b>FortiSOAR</b>	<ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> <li>• 500 GB disk storage</li> </ul>	<ul style="list-style-type: none"> <li>• 16 vCPU</li> <li>• 64 GB RAM</li> <li>• No change for disk storage</li> </ul>
<b>Policy Analyzer</b>	<ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> </ul>	No change
<b>Universal Connector</b>	<ul style="list-style-type: none"> <li>• 1 GHZ vCPU</li> <li>• 2 GB RAM</li> <li>• 1 GB disk storage</li> </ul>	No change
<b>Wireless Manager (FortiWLM)</b>	<ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> </ul>	No change

\*The numbers in the *Recommended system resources for production* column are a combination of the default system resource settings for FortiManager plus the minimum system requirements for the MEA.

# Special Notices

This section highlights some of the operational changes that administrators should be aware of in 7.2.3.

## Install On column for policies

Prior to version 7.2.3, the 'Install-on' column for policies in the policy block had no effect. However, starting from version 7.2.3, the 'Install-on' column is operational and significantly impacts the behavior and installation process of policies. It's important to note that using 'Install-on' on policies in the policy block is not recommended. If required, this setting can only be configured through a script or JSON APIs.

## FortiManager 7.2.3 and later firmware on FortiGuard

Starting in FortiManager 7.2.1, a setup wizard executes to prompt the user for various configuration steps and registration with FortiCare. During the execution, the FortiManager unit attempts to communicate with FortiGuard for a list of FortiManager firmware images currently available on FortiGuard – older and newer.

In the case of FortiManager 7.2.2, a bug in the GUI prevents the wizard from completing and prevents the user from accessing the FortiManager unit. The issue has been fixed in 7.2.3 and later and a CLI command has been added to bypass the setup wizard at login time.

```
config system admin setting
    set firmware-upgrade-check disable
end
```

Fortinet has not uploaded FortiManager 7.2.3 and later firmware to FortiGuard in order to work around the GUI bug, however, the firmware is available for download from the [Fortinet Support website](#).

## Option to enable permission check when copying policies

As of 7.2.3, a new command is added in the CLI:

```
config system global
    set no-copy-permission-check {enable | disable}
end
```

By default, this is set to `disable`. When set to `enable`, a check is performed when copying policies to prevent changing global device objects if the user does not have permission.

## Management Extensions visibility in the GUI

As of FortiManager 7.2.3, the *Management Extensions* pane is only visible in the GUI when docker status is enabled and at least one management extension application (MEA) is enabled and downloaded. For more information about enabling and using the MEAs, see the Management Extensions documentation in the [FortiManager Documents Library](#).

## FortiManager creates faulty dynamic mapping for VPN manager interface during PP import

If policy changes are made directly on the FortiGates, the subsequent PP import creates faulty dynamic mappings for VPN manager.

It is strongly recommended to create a fresh backup of the FortiManager's configuration prior to this workaround. Perform the following command to check & repair the FortiManager's configuration database:

```
diagnose cdb check policy-packages <adom>
```

After executing this command, FortiManager will remove the invalid mappings of vpnmgr interfaces.

## SD-WAN Orchestrator removed in 7.2

Starting in 7.2.0, the SD-WAN Orchestrator is no longer available in FortiManager. Instead, you can use the *SD-WAN Overlay Template* wizard to configure your SD-WAN overlay network.

For more information, see [SD-WAN Overlay Templates](#) in the FortiManager Administration Guide.

## Changes to FortiManager meta fields

Beginning in 7.2.0, FortiManager supports policy object metadata variables.

When upgrading from FortiManager 7.0 to 7.2.0 and later, FortiManager will automatically create ADOM-level metadata variable policy objects for meta fields previously configured in System Settings that have per-device mapping configurations detected. Objects using the meta field, for example CLI templates, are automatically updated to use the new metadata variable policy objects.

Meta fields in *System Settings* can continue to be used as comments/tags for configurations.

For more information, see [ADOM-level meta variables for general use in scripts, templates, and model devices](#).

## Setup wizard requires FortiCare registration

Starting in FortiManager 7.2.1, the FortiManager Setup wizard requires you to complete the *Register with FortiCare* step before you can access the FortiManager appliance or VM. Previously the step was optional.

For FortiManager units operating in a closed environment, contact customer service to receive an entitlement file, and then load the entitlement file to FortiManager by using the CLI.

## Access lists as ADOM-level objects

Starting in 7.2.0, FortiManager supports IPv4 and IPv6 access list firewall policies as ADOM-level object configurations from FortiGate. Previously, these access lists were controlled by the device database/FortiGate configuration.

After upgrading to 7.2.0 from an earlier release, the next time you install changes to a FortiGate device with an IPv4 or IPv6 access list firewall policy (`config firewall acl/acl6`), FortiManager will purge the device database/FortiGate configuration which may have previously contained the access list.

To address this, administrators can re-import the FortiGate policy configuration to an ADOM's policy package or re-create the IPv4/IPv6 access list firewall policy in the original package.

## View Mode is disabled in policies when policy blocks are used

When policy blocks are added to a policy package, the *View Mode* option is no longer available, and policies in the table cannot be arranged by *Interface Pair View*. This occurs because policy blocks typically contain policies with multiple interfaces, however, *View Mode* is still disabled even when policy blocks respect the interface pair.

## Reconfiguring Virtual Wire Pairs (VWP)

A conflict can occur between the ADOM database and device database when a Virtual Wire Pair (VWP) is installed on a managed FortiGate that already has a configured VWP in the device database. This can happen when an existing VWP has been reconfigured or replaced.

Before installing the VWP, you must first remove the old VWP from the device's database, otherwise a policy and object validation error may occur during installation. You can remove the VWP from the device database by going to *Device Manager > Device & Groups*, selecting the managed device, and removing the VWP from *System > Interface*.

## Scheduling firmware upgrades for managed devices

Starting in FortiManager 7.0.0, firmware templates should be used to schedule firmware upgrades on managed FortiGates. Attempting firmware upgrade from the FortiManager GUI by using legacy methods may ignore the *schedule upgrade* option and result in FortiGates being upgraded immediately.

## Modifying the interface status with the CLI

Starting in version 7.0.1, the CLI to modify the interface status has been changed from *up/down* to *enable/disable*.

For example:

```
config system interface
  edit port2
    set status <enable/disable>
  next
end
```

## SD-WAN with upgrade to 7.0

Due to design change with SD-WAN Template, upgrading to FortiManager 7.0 may be unable to maintain dynamic mappings for all SD-WAN interface members. Please reconfigure all the missing interface mappings after upgrade.

## Citrix XenServer default limits and upgrade

Citrix XenServer limits ramdisk to 128M by default. However the FMG-VM64-XEN image is larger than 128M. Before updating to FortiManager 6.4, increase the size of the ramdisk setting on Citrix XenServer.

### To increase the size of the ramdisk setting:

1. On Citrix XenServer, run the following command:  

```
xenstore-write /mh/limits/pv-ramdisk-max-size 536,870,912
```
2. Confirm the setting is in effect by running `xenstore-ls`.  

```
-----  
limits = ""  
pv-kernel-max-size = "33554432"  
pv-ramdisk-max-size = "536,870,912"  
boot-time = ""  
-----
```
3. Remove the pending files left in `/run/xen/pygrub`.



The ramdisk setting returns to the default value after rebooting.

---

## Multi-step firmware upgrades

Prior to using the FortiManager to push a multi-step firmware upgrade, confirm the upgrade path matches the path outlined on our support site. To confirm the path, please run:

```
dia fwmanager show-dev-upgrade-path <device name> <target firmware>
```

Alternatively, you can push one firmware step at a time.

## Hyper-V FortiManager-VM running on an AMD CPU

A Hyper-V FMG-VM running on a PC with an AMD CPU may experience a kernel panic. Fortinet recommends running VMs on an Intel-based PC.

## SSLv3 on FortiManager-VM64-AWS

Due to known vulnerabilities in the SSLv3 protocol, FortiManager-VM64-AWS only enables TLSv1 by default. All other models enable both TLSv1 and SSLv3. If you wish to disable SSLv3 support, please run:

```
config system global  
set ssl-protocol tlsv1
```

end

# Upgrade Information



Prior to upgrading your FortiManager, please review the FortiManager Upgrade Guide in detail as it includes all of the necessary steps and associated details required to upgrade your FortiManager device or VM.

See [FortiManager 7.2.3 Upgrade Guide](#).

You can upgrade FortiManager 7.0.1 or later directly to 7.2.3.



Before upgrading FortiManager, check ADOM versions. Check the ADOM versions supported by the destination firmware and the current firmware. If the current firmware uses ADOM versions not supported by the destination firmware, upgrade ADOM versions in FortiManager before upgrading FortiManager to the destination firmware version.

For example, FortiManager 7.0 supports ADOM versions 6.2, 6.4, and 7.0, but FortiManager 7.2 supports ADOM versions 6.4, 7.0, and 7.2. Before you upgrade FortiManager 7.0 to 7.2, ensure that all ADOM 6.2 versions have been upgraded to ADOM version 6.4 or later. See [FortiManager 7.2.3 Upgrade Guide](#).

This section contains the following topics:

- [Downgrading to previous firmware versions on page 17](#)
- [Firmware image checksums on page 17](#)
- [FortiManager VM firmware on page 18](#)
- [SNMP MIB files on page 19](#)

## Downgrading to previous firmware versions

FortiManager does not provide a full downgrade path. You can downgrade to a previous firmware release by using the GUI or CLI, but doing so results in configuration loss. A system reset is required after the firmware downgrade process has completed. To reset the system, use the following CLI commands via a console port connection:

```
execute reset {all-settings | all-except-ip}  
execute format {disk | disk-ext4 | disk-ext3}
```

## Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. After logging in, go to *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

## FortiManager VM firmware

Fortinet provides FortiManager VM firmware images for Amazon AWS, Amazon AWSOnDemand, Citrix and Open Source XenServer, Linux KVM, Microsoft Hyper-V Server, and VMware ESX/ESXi virtualization environments.

### Amazon Web Services

- The 64-bit Amazon Machine Image (AMI) is available on the AWS marketplace.

### Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the QCOW2 file for the Open Source Xen Server.
- `.out.CitrixXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the Citrix XenServer Virtual Appliance (XVA), Virtual Hard Disk (VHD), and OVF files.

### Google Cloud Platform

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.gcp.zip`: Download the 64-bit package for a new FortiManager VM installation.

### Linux KVM

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.kvm.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains QCOW2 that can be used by qemu.

### Microsoft Azure

The files for Microsoft Azure have AZURE in the filenames, for example `<product>_VM64_AZURE-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiManager VM installation.

### Microsoft Hyper-V Server

The files for Microsoft Hyper-V Server have HV in the filenames, for example, `<product>_VM64_HV-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiManager VM installation.
- `.hyperv.zip`: Download the package for a new FortiManager VM installation. This package contains a Virtual Hard Disk (VHD) file for Microsoft Hyper-V Server.



Microsoft Hyper-V 2016 is supported.

---

### Oracle Private Cloud

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.opc.zip`: Download the 64-bit package for a new FortiManager VM installation.

### VMware ESX/ESXi

- `.out`: Download the 64-bit firmware image to upgrade your existing VM installation.
- `.ovf.zip`: Download either the 64-bit package for a new VM installation. This package contains an Open Virtualization Format (OVF) file for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.



For more information see the [FortiManager Data Sheet](#) available on the Fortinet web site. VM installation guides are available in the [Fortinet Document Library](#).

---

## SNMP MIB files

You can download the *FORTINET-FORTIMANAGER-FORTIANALYZER.mib* MIB file in the firmware image file folder. The Fortinet Core MIB file is located in the main FortiManager version 5.00 file folder.

# Product Integration and Support

This section lists FortiManager 7.2.3 support of other Fortinet products. It also identifies what FortiManager features are supported for managed platforms and what languages FortiManager supports. It also lists which Fortinet models can be managed by FortiManager.

The section contains the following topics:

- [Supported software on page 20](#)
- [Feature support on page 25](#)
- [Language support on page 25](#)
- [Supported models on page 26](#)

## Supported software

FortiManager 7.2.3 supports the following software:

- [Web browsers on page 21](#)
- [FortiOS and FortiOS Carrier on page 21](#)
- [FortiADC on page 21](#)
- [FortiAnalyzer on page 21](#)
- [FortiAnalyzer-BigData on page 22](#)
- [FortiAuthenticator on page 22](#)
- [FortiCache on page 22](#)
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- [FortiFirewall and FortiFirewallCarrier on page 23](#)
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- [FortiSwitch ATCA on page 24](#)
- [FortiTester on page 24](#)
- [FortiWeb on page 24](#)
- [Virtualization on page 24](#)



To confirm that a device model or firmware version is supported by the current firmware version running on FortiManager, run the following CLI command:

```
diagnose dvm supported-platforms list
```

---



Always review the Release Notes of the supported platform firmware version before upgrading your device.

---

## Web browsers

FortiManager 7.2.3 supports the following web browsers:

- Microsoft Edge 114
- Mozilla Firefox version 96
- Google Chrome version 114

Other web browsers may function correctly, but are not supported by Fortinet.

## FortiOS and FortiOS Carrier



The *FortiManager Release Notes* communicate support for FortiOS versions that are available at the time of the FortiManager 7.2.3 release. For additional information about other supported FortiOS versions, please refer to the FortiManager compatibility chart in the [Fortinet Document Library](#).

See [FortiManager compatibility with FortiOS](#).

---

FortiManager 7.2.3 supports the following versions of FortiOS and FortiOS Carrier:

- 7.2.0 to 7.2.5
- 7.0.0 to 7.0.13
- 6.4.0 to 6.4.16

## FortiADC

FortiManager 7.2.3 supports the following versions of FortiADC:

- 7.2.0 and later
- 7.1.0 and later
- 7.0.0 and later

## FortiAnalyzer

FortiManager 7.2.3 supports the following versions of FortiAnalyzer:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## FortiAnalyzer-BigData

FortiManager 7.2.3 supports the following versions of FortiAnalyzer-BigData:

- 7.2.0 and later
- 7.0.0 and later

## FortiAuthenticator

FortiManager 7.2.3 supports the following versions of FortiAuthenticator:

- 6.4.0 and later
- 6.3.0 and later
- 6.2.0 and later

## FortiCache

FortiManager 7.2.3 supports the following versions of FortiCache:

- 4.2.0 and later
- 4.1.0 and later
- 4.0.0 and later

## FortiClient

FortiManager 7.2.3 supports the following versions of FortiClient:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later
- 6.2.1 and later

## FortiDDoS

FortiManager 7.2.3 supports the following versions of FortiDDoS:

- 6.4.0 and later
- 6.3.0 and later
- 6.2.0 and later

Limited support. For more information, see [Feature support on page 25](#).

## FortiDeceptor

FortiManager 7.2.3 supports the following versions of FortiDeceptor:

- 5.0.0 and later
- 4.3.0 and later
- 4.2.0 and later

## FortiFirewall and FortiFirewallCarrier

FortiManager 7.2.3 supports the following versions of FortiFirewall and FortiFirewallCarrier:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## FortiMail

FortiManager 7.2.3 supports the following versions of FortiMail:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## FortiProxy

FortiManager 7.2.3 supports configuration management for the following versions of FortiProxy:

- 7.2.2 to 7.2.3
- 7.0.7 to 7.0.10



Configuration management support is identified as *Management Features* in these release notes. See [Feature support on page 25](#).

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FortiManager 7.2.3 supports logs from the following versions of FortiProxy:

- 7.2.0 to 7.2.6
- 7.0.0 to 7.0.12
- 2.0.0 to 2.0.5
- 1.2.0 to 1.2.13
- 1.1.0 to 1.1.6
- 1.0.0 to 1.0.7

## FortiSandbox

FortiManager 7.2.3 supports the following versions of FortiSandbox:

- 4.2.0 and later
- 4.0.0 and 4.0.1

- 3.2.0 and later

## FortiSOAR

FortiManager 7.2.3 supports the following versions of FortiSOAR:

- 7.3.0 and later
- 7.2.0 and later
- 7.0.0 and later

## FortiSwitch ATCA

FortiManager 7.2.3 supports the following versions of FortiSwitch ATCA:

- 5.2.0 and later
- 5.0.0 and later
- 4.3.0 and later

## FortiTester

FortiManager 7.2.3 supports the following versions of FortiTester:

- 7.1.0 and later
- 7.0.0 and later
- 4.2.0 and later

## FortiWeb

FortiManager 7.2.3 supports the following versions of FortiWeb:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## Virtualization

FortiManager 7.2.3 supports the following virtualization software:

- Amazon Web Service AMI, Amazon EC2, Amazon EBS
- Citrix XenServer 7.2
- Google Cloud Platform
- Linux KVM Redhat 7.1
- Microsoft Azure
- Microsoft Hyper-V Server 2012, 2016, and 2019
- Nutanix AHV (AOS 5.10.5)
- OpenSource XenServer 4.2.5

- Oracle Private Cloud
- VMware ESXi versions 6.5 and later

## Feature support

The following table lists FortiManager feature support for managed platforms.

Platform	Management Features	FortiGuard Update Services	VM License Activation	Reports	Logging
FortiGate	✓	✓	✓	✓	✓
FortiCarrier	✓	✓	✓	✓	✓
FortiADC		✓	✓		
FortiAnalyzer			✓	✓	✓
FortiAuthenticator					✓
FortiCache			✓	✓	✓
FortiClient		✓		✓	✓
FortiDDoS			✓	✓	✓
FortiDeceptor		✓			
FortiFirewall	✓				✓
FortiFirewall Carrier	✓				✓
FortiMail		✓	✓	✓	✓
FortiProxy	✓	✓	✓	✓	✓
FortiSandbox		✓	✓	✓	✓
FortiSOAR		✓	✓		
FortiSwitch ATCA	✓				
FortiTester		✓			
FortiWeb		✓	✓	✓	✓
Syslog					✓

## Language support

The following table lists FortiManager language support information.

Language	GUI	Reports
English	✓	✓
Chinese (Simplified)	✓	✓
Chinese (Traditional)	✓	✓
French	✓	✓
Japanese	✓	✓
Korean	✓	✓
Portuguese		✓
Spanish		✓

To change the FortiManager language setting, go to *System Settings > Admin > Admin Settings*, in *Administrative Settings > Language* select the desired language on the drop-down menu. The default value is *Auto Detect*.

Russian, Hebrew, and Hungarian are not included in the default report languages. You can create your own language translation files for these languages by exporting a predefined language from FortiManager, modifying the text to a different language, saving the file as a different language name, and then importing the file into FortiManager. For more information, see the *FortiManager Administration Guide*.

## Supported models

The following tables list which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch ATCA, FortiWeb, FortiCache, FortiProxy, and FortiAuthenticator models and firmware versions that can be managed by a FortiManager or send logs to a FortiManager running version 7.2.3.



Software license activated LENC devices are supported, if their platforms are in the supported models list. For example, support of FG-3200D indicates support of FG-3200D-LENC.

This section contains the following topics:

- [FortiGate models on page 27](#)
- [FortiGate special branch models on page 29](#)
- [FortiCarrier models on page 31](#)
- [FortiCarrier special branch models on page 32](#)
- [FortiADC models on page 34](#)
- [FortiAnalyzer models on page 34](#)
- [FortiAnalyzer-BigData models on page 35](#)
- [FortiAuthenticator models on page 35](#)
- [FortiCache models on page 35](#)
- [FortiDDoS models on page 36](#)
- [FortiDeceptor models on page 36](#)
- [FortiFirewall models on page 36](#)

- [FortiFirewallCarrier models on page 37](#)
- [FortiMail models on page 38](#)
- [FortiProxy models on page 38](#)
- [FortiSandbox models on page 38](#)
- [FortiSOAR models on page 39](#)
- [FortiSwitch ATCA models on page 39](#)
- [FortiTester models on page 39](#)
- [FortiWeb models on page 40](#)

## FortiGate models

The following FortiGate models are released with FortiOS firmware. For information about supported FortiGate models on special branch releases of FortiOS firmware, see [FortiGate special branch models on page 29](#).

Model	Firmware Version
<b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-70F, FortiGate-71F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300E, FortiGate-301E, FortiGate-400E, FortiGate-400F, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-401F, FortiGate-500E, FortiGate-501E, FortiGate-600E, FortiGate-600F, FortiGate-601E, FortiGate-601F, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3000F, FortiGate-3001F, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3500F, FortiGate-3501F, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F <b>FortiGate 5000 Series:</b> FortiGate-5001E, FortiGate-5001E1 <b>FortiGate 6000 Series:</b> FortiGate-6000F, FortiGate-6300F, FortiGate-6300F-DC, FortiGate-6301F, FortiGate-6301F-DC, FortiGate-6500F, FortiGate-6500F-DC, FortiGate-6501F, FortiGate-6501F-DC <b>FortiGate 7000 Series:</b> FortiGate-7000E, FortiGate-7000F, FortiGate-7030E, FortiGate-7040E, FortiGate-7060E, FortiGate-7060E-8-DC, FortiGate-7081F, FortiGate-7121F, FortiGate-7121F-2, FortiGate-7121F-2-DC, FortiGate-7121F-DC <b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2201E-ACDC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3960E-ACDC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC	7.2

Model	Firmware Version
<b>FortiWiFi:</b> FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-3G4G-POE, FWF-81F-2R-POE <b>FortiGate VM:</b> FortiGate-ARM64-AWS, FortiGate-ARM64-Azure, FortiGate-ARM64-GCP, FortiGate-ARM64-KVM, FortiGate-ARM64-OCI, FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-AWS, FortiGate-VM64-Azure, FortiGate-VM64-GCP, FortiGate-VM64-HV, FortiGate-VM64-IBM, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-RAXONDEMAND, FortiGate-VM64-XEN, FortiGate-VMX-Service-Manager <b>FortiOS-VM:</b> FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-Xen <b>FortiGate Rugged:</b> FGR-60F, FGR-60F-3G4G	
<b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-70F, FortiGate-71F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-400F, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-401F, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-600F, FortiGate-601E, FortiGate-601F, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3000F, FortiGate-3001F, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3500F, FortiGate-3501F, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F,	7.0
<b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1 <b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2201E-ACDC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-ACDC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC <b>FortiWiFi:</b> FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-3G4G-POE, FWF-81F-2R-POE <b>FortiGate VM:</b> FortiGate-ARM64-AWS, FortiGate-ARM64-KVM, FortiGate-ARM64-OCI, FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-AWS, FortiGate-VM64-Azure, FortiGate-VM64-GCP, FortiGate-VM64-HV, FortiGate-VM64-IBM, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-RAXONDEMAND, FortiGate-VM64-XEN, FortiGate-VMX-Service-Manager <b>FortiOS-VM:</b> FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-Xen <b>FortiGate Rugged:</b> FGR-60F, FGR-60F-3G4G	

Model	Firmware Version
<b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-601E, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F,	6.4
<b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1	
<b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2201E-ACDC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-ACDC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC	
<b>FortiGate Hardware Low Encryption:</b> FortiGate-100D-LENC	
<b>FortiWiFi:</b> FWF-40F, FWF-40F-3G4G, FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-3G4G-POE, FWF-81F-2R-POE	
<b>FortiGate VM:</b> FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-ALIONDEMAND, FortiGate-VM64-AWS, FortiGate-VM64-AZUREONDEMAND, FortiGate-VM64-Azure, FortiGate-VM64-GCP, VM64-GCPONDEMAND, FortiGate-VM64-HV, FortiGate-VM64-IBM, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-RAXONDEMAND, FortiGate-VM64-XEN, FortiGate-VMX-Service-Manager	
<b>FortiOS-VM:</b> FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-Xen	
<b>FortiGate Rugged:</b> FGR-60F, FGR-60F-3G4G	

## FortiGate special branch models

The following FortiGate models are released on special branches of FortiOS. FortiManager version 7.2.3 supports these models on the identified FortiOS version and build number.

For information about supported FortiGate models released with FortiOS firmware, see [FortiGate models on page 27](#).

## FortiOS 7.2

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-3200F	7.2.5	4373
FortiGate-3201F	7.2.5	4384
FortiGate-3700F, FortiGate-3701F	7.2.5	4394
FortiGate-4800F, FortiGate-4801F	7.2.5	4394

## FortiOS 7.0

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-80F-DSL	7.0.11	4974
FortiGate-900G, FortiGate-901G	7.0.10	6566
FortiGate-1000F, FortiGate-1001F	7.0.12	6660
FortiGate-3200F, FortiGate-3201F	7.0.12	6661
FortiGate-3700F, FortiGate-3701F	7.0.12	6661
FortiGate-4800F, FortiGate-4801F	7.0.12	6661
FortiGate-6000F, FortiGate-6300F, FortiGate-6300F-DC, FortiGate-6301F, FortiGate-6301F-DC, FortiGate-6500F, FortiGate-6500F-DC, FortiGate-6501F, FortiGate-6501F-DC	7.0.12	0163
FortiGate-7000E, FortiGate-7030E, FortiGate-7040E, FortiGate-7060E, FortiGate-7060E-8-DC	7.0.12	0163
FortiGate-7000F, FortiGate-7081F, FortiGate-7121F, FortiGate-7121F-2, FortiGate-7121F-2-DC, FortiGate-7121F-DC	7.0.12	0163
FortiGateRugged-70F, FortiGateRugged-70F-3G4G	7.0.11	6565

## FortiOS 6.4

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-400F, FortiGate-401F	6.4.12	5429
FortiGate-600F, FortiGate-601F	6.4.12	5429

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-3500F	6.4.6	5886
FortiGate-3501F	6.4.6	6132
FortiGate-6000F, FortiGate-6300F, FortiGate-6300F-DC, FortiGate-6301F, FortiGate-6301F-DC, FortiGate-6500F, FortiGate-6500F-DC, FortiGate-6501F, FortiGate-6501F-DC	6.4.13	1926
FortiGate-7000E, FortiGate-7030E, FortiGate-7040E, FortiGate-7060E, FortiGate-7060E-8-DC	6.4.13	1926
FortiGate-7000F, FortiGate-7081F, FortiGate-7121F, FortiGate-7121F-2, FortiGate-7121F-2-DC, FortiGate-7121F-DC	6.4.13	1926
FortiWiFi-80F-2R-3G4G-DSL	6.4.7	5003

## FortiCarrier models

The following FortiCarrier models are released with FortiCarrier firmware.

For information about supported FortiCarrier models on special branch releases of FortiCarrier firmware, see [FortiCarrier special branch models on page 32](#).

Model	Firmware Version
<b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3000F, FortiCarrier-3001F, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3300E, FortiCarrier-3301E, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3500F, FortiCarrier-3501F, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-4200F, FortiCarrier-4201F, FortiCarrier-4400F, FortiCarrier-4401F, FortiCarrier-5001E, FortiCarrier-5001E1 <b>FortiCarrier 6000 Series:</b> FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6300F-DC, FortiCarrier-6301F, FortiCarrier-6301F-DC, FortiCarrier-6500F, FortiCarrier-6500F-DC, FortiCarrier-65001F, FortiCarrier-6501F-DC <b>FortiCarrier 7000 Series:</b> FortiCarrier-7000E, FortiCarrier-7000F, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC, FortiCarrier-7081F, FortiCarrier-7121F, FortiCarrier-7121F-2, FortiCarrier-7121F-2-DC, FortiCarrier-7121F-DC <b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3600E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC, FortiCarrier-4200F-DC, FortiCarrier-4201F-DC, FortiCarrier-4400F-DC, FortiCarrier-4401F-DC	7.2

Model	Firmware Version
<b>FortiCarrier-VM:</b> FortiCarrier-ARM64-AWS, FortiCarrier-ARM64-Azure, FortiCarrier-ARM64-GCP, FortiCarrier-ARM64-KVM, FortiCarrier-ARM64-OCI, FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-IBM, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen	
<b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3000F, FortiCarrier-3001F, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3300E, FortiCarrier-3301E, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3500F, FortiCarrier-3501F, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1	7.0
<b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3600E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC	
<b>FortiCarrier-VM:</b> FortiCarrier-ARM64-AWS, FortiCarrier-ARM64-KVM, FortiCarrier-ARM64-OCI, FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-IBM, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen, FortiCarrier-ARM64-KVM	
<b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3300E, FortiCarrier-3301E, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3500F, FortiCarrier-3501F, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1	6.4
<b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3600E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC	
<b>FortiCarrier-VM:</b> FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-IBM, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen	

## FortiCarrier special branch models

The following FortiCarrier models are released on special branches of FortiOS Carrier. FortiManager version 7.2.3 supports these models on the identified FortiOS Carrier version and build number.

For information about supported FortiCarrier models released with FortiOS Carrier firmware, see [FortiCarrier models on page 31](#).

## FortiCarrier 7.2

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-3200F	7.2.5	4373
FortiCarrier-3201F	7.2.5	4384
FortiCarrier-3700F, FortiCarrier-3701F	7.2.5	4394
FortiCarrier-4800F, FortiCarrier-4801F	7.2.5	4394

## FortiCarrier 7.0

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-3200F, FortiCarrier-3201F	7.0.12	6661
FortiCarrier-3700F, FortiCarrier-3701F	7.0.12	6661
FortiCarrier-4800F, FortiCarrier-4801F	7.0.12	6661
FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6300F-DC, FortiCarrier-6301F, FortiCarrier-6301F-DC, FortiCarrier-6500F, FortiCarrier-6500F-DC, FortiCarrier-65001F, FortiCarrier-6501F-DC	7.0.12	0163
FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC	7.0.12	0163
FortiCarrier-7000F, FortiCarrier-7081F, FortiCarrier-7121F, FortiCarrier-7121F-2, FortiCarrier-7121F-2-DC, FortiCarrier-7121F-DC	7.0.12	0163

## FortiCarrier 6.4

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-3500F	6.4.6	5886
FortiCarrier-3501F	6.4.6	6132
FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6300F-DC, FortiCarrier-6301F, FortiCarrier-6301F-DC, FortiCarrier-6500F, FortiCarrier-6500F-DC, FortiCarrier-65001F, FortiCarrier-6501F-DC	6.4.13	1926

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC	6.4.13	1926
FortiCarrier-7000F, FortiCarrier-7081F, FortiCarrier-7121F, FortiCarrier-7121F-2, FortiCarrier-7121F-2-DC, FortiCarrier- 7121F-DC	6.4.13	1926

## FortiADC models

Model	Firmware Version
<b>FortiADC:</b> FortiADC-100F, FortiADC-120F, FortiADC-200D, FortiADC-200F, FortiADC-220F, FortiADC-300D, FortiADC-300F, FortiADC-400D, FortiADC-400F, FortiADC-700D, FortiADC-1000F, FortiADC-1200F, FortiADC-1500D, FortiADC-2000D, FortiADC-2000F, FortiADC-2200F, FortiADC-4000D, FortiADC-4000F, FortiADC-4200F, FortiADC-5000F <b>FortiADC VM:</b> FortiADC-VM	7.0, 7.1, 7.2

## FortiAnalyzer models

Model	Firmware Version
<b>FortiAnalyzer:</b> FortiAnalyzer-150G, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3000G, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3700G, FortiAnalyzer-3900E <b>FortiAnalyzer VM:</b> FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-AWS-OnDemand, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-IBM, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen	7.2
<b>FortiAnalyzer:</b> FortiAnalyzer-150G, FortiAnalyzer-200F, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3000G, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3700G, FortiAnalyzer-3900E <b>FortiAnalyzer VM:</b> FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-ALI-OnDemand, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-GCP-OnDemand, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-IBM, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen	7.0

Model	Firmware Version
<b>FortiAnalyzer:</b> FortiAnalyzer-150G, FortiAnalyzer-200F, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000E, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3000G, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3700G, FortiAnalyzer-3900E <b>FortiAnalyzer VM:</b> FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-ALI-OnDemand, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-AWSOnDemand, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-GCP-OnDemand, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen	6.4

## FortiAnalyzer-BigData models

Model	Firmware Version
<b>FortiAnalyzer-BigData:</b> FortiAnalyzer-BigData-4500F <b>FortiAnalyzer-BigData VM:</b> FortiAnalyzer-BigData-VM64	7.2
<b>FortiAnalyzer-BigData:</b> FortiAnalyzer-BigData-4500F <b>FortiAnalyzer-BigData VM:</b> FortiAnalyzer-BigData-VM64	7.0

## FortiAuthenticator models

Model	Firmware Version
<b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-300F, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E, FAC-3000F <b>FortiAuthenticator VM:</b> FAC-VM	6.4
<b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-300F, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E <b>FortiAuthenticator VM:</b> FAC-VM	6.2, 6.3

## FortiCache models

Model	Firmware Version
<b>FortiCache:</b> FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3000E, FCH-3900E <b>FortiCache VM:</b> FCH-KVM, FCH-VM64	4.1, 4.2
<b>FortiCache:</b> FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E <b>FortiCache VM:</b> FCH-VM64	4.0

## FortiDDoS models

Model	Firmware Version
<b>FortiDDoS:</b> FortiDDoS-200F, FortiDDoS-1500F, FortiDDoS-2000F, FortiDDoS-3000F <b>FortiDDoS VM:</b> FortiDDoS-VM	6.4
<b>FortiDDoS:</b> FortiDDoS-200F, FortiDDoS-1500F, FortiDDoS-2000F <b>FortiDDoS VM:</b> FortiDDoS-VM	6.3
<b>FortiDDoS:</b> FortiDDoS-200F, FortiDDoS-1500F <b>FortiDDoS VM:</b> FortiDDoS-VM	6.2

## FortiDeceptor models

Model	Firmware Version
<b>FortiDeceptor:</b> FDC-100G, FDC-1000F, FDC-1000G <b>FortiDeceptor Rugged:</b> FDCR-100G <b>FortiDeceptor VM:</b> FDC-VM	5.0
<b>FortiDeceptor:</b> FDC-1000F, FDC-1000G <b>FortiDeceptor Rugged:</b> FDCR-100G <b>FortiDeceptor VM:</b> FDC-VM	4.3
<b>FortiDeceptor:</b> FDC-1000F, FDC-1000G <b>FortiDeceptor Rugged:</b> FDCR-100G <b>FortiDeceptor VM:</b> FDC-VM	4.2

## FortiFirewall models

Some of the following FortiFirewall models are released on special branches of FortiFirewall firmware. FortiManager version 7.2.3 supports these models on the identified FortiFirewall firmware version and build number.

### FortiFirewall 7.2

Model	Firmware Version
<b>FortiFirewall:</b> FortiFirewall-3980E <b>FortiFirewall-VM:</b> FortiFirewall-VM64, FortiFirewall-VM64-KVM	7.2

## FortiFirewall 7.0

Model	Firmware Version	Firmware Build (for special branch)
<b>FortiFirewall:</b> FortiFirewall-3001F	7.0.10	4955
<b>FortiFirewall:</b> FortiFirewall-3501F	7.0.10	4940
<b>FortiFirewall:</b> FortiFirewall-3980E <b>FortiFirewall DC:</b> FortiFirewall-3980E-DC	7.0	
<b>FortiFirewall-VM:</b> FortiFirewall-VM64, FortiFirewall-VM64-KVM	7.0	

## FortiFirewall 6.4

Model	Firmware Version	Firmware Build (for special branch)
<b>FortiFirewall:</b> FortiFirewall-1801F, FortiFirewall-2600F <b>FortiFirewall DC:</b> FortiFirewall-1801F-DC, FortiFirewall-2600F-DC	6.4.12	5423
<b>FortiFirewall:</b> FortiFirewall-3980E <b>FortiFirewall DC:</b> FortiFirewall-3980E-DC	6.4	
<b>FortiFirewall:</b> FortiFirewall-4200F, FortiFirewall-4400F	6.4	1999
<b>FortiFirewall:</b> FortiFirewall-4401F <b>FortiFirewall DC:</b> FortiFirewall-4401F-DC	6.4.12	5423
<b>FortiFirewall-VM:</b> FortiFirewall-VM64, FortiFirewall-VM64-KVM	6.4	

## FortiFirewallCarrier models

Some of the following FortiFirewallCarrier models are released on special branches of FortiFirewallCarrier firmware. FortiManager version 7.2.3 supports these models on the identified FortiFirewallCarrier firmware version and build number.

Model	Firmware Version	Firmware Build
<b>FortiFirewallCarrier:</b> FortiFirewallCarrier-3001F	7.0.10	4955
<b>FortiFirewallCarrier:</b> FortiFirewallCarrier-3501F	7.0.10	4940

Model	Firmware Version	Firmware Build
<b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F	6.4	1999
<b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F	6.2.7	5148
<b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4401F	6.4.9	5318

## FortiMail models

Model	Firmware Version
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-2000F, FE-3000F	7.2
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-2000F, FE-3000D, FE-3000E, FE-3000F, FE-3200E <b>FortiMail VM:</b> FML-VM, FortiMail Cloud	7.0
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E <b>FortiMail VM:</b> FML-VM, FortiMail Cloud	6.4

## FortiProxy models

Model	Firmware Version
<b>FortiProxy:</b> FPX-400E, FPX-2000E, FPX-4000E, <b>FortiProxy VM:</b> FortiProxy-AliCloud, FortiProxy-AWS, FortiProxy-Azure, FortiProxy-GCP, FortiProxy-HyperV, FortiProxy-KVM, FortiProxy-VM64	7.2
<b>FortiProxy:</b> FPX-400E, FPX-400G, FPX-2000E, FPX-2000G, FPX-4000E, FPX-4000G <b>FortiProxy VM:</b> FortiProxy-AliCloud, FortiProxy-AWS, FortiProxy-Azure, FortiProxy-GCP, FortiProxy-HyperV, FortiProxy-KVM, FortiProxy-VM64	7.0
<b>FortiProxy:</b> FPX-400E, FPX-2000E, FPX-4000E <b>FortiProxy VM:</b> FortiProxy-KVM, FortiProxy-VM64	1.0, 1.1, 1.2, 2.0

## FortiSandbox models

Model	Firmware Version
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3000F, FSA-3500D <b>FortiSandbox DC:</b> FSA-1000F-DC	4.2

Model	Firmware Version
<b>FortiSandbox-VM:</b> FortiSandbox-AWS, FortiSandbox-Cloud, FSA-VM	
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3000F, FSA-3500D <b>FortiSandbox DC:</b> FSA-1000F-DC <b>FortiSandbox-VM:</b> FortiSandbox-AWS, FortiSandbox-Cloud, FSA-VM	4.0
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox DC:</b> FSA-1000F-DC <b>FortiSandbox-VM:</b> FortiSandbox-AWS, FSA-VM	3.2

## FortiSOAR models

Model	Firmware Version
<b>FortiSOAR VM:</b> FortiSOAR-VM	7.0, 7.2, 7.3

## FortiSwitch ATCA models

Model	Firmware Version
<b>FortiController:</b> FTCL-5103B, FTCL-5903C, FTCL-5913C	5.2
<b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B <b>FortiController:</b> FTCL-5103B	5.0
<b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B	4.3

## FortiTester models

Model	Firmware Version
<b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2000F, FortiTester-2500E, FortiTester-3000E, FortiTester-3000F, FortiTester-4000E, FortiTester-4000F <b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL, FortiTester-VM-ALI-PAYG, FortiTester-VM-AWS-BYOL, FortiTester-VM-AWS-PAYG, FortiTester-VM-AZURE-BYOL, FortiTester-VM-AZURE-PAYG, FortiTester-VM-GCP-BYOL, FortiTester-VM-GCP-PAYG, FortiTester-VM-IBM-PAYG, FortiTester-VM-KVM, FortiTester-VM-OCI-BYOL, FortiTester-VM-OCI-PAYG	7.1
<b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2000F, FortiTester-2500E, FortiTester-3000E, FortiTester-3000F, FortiTester-4000E, FortiTester-4000F	7.0

Model	Firmware Version
<b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL, FortiTester-VM-ALI-PAYG, FortiTester-VM-AWS-BYOL, FortiTester-VM-AWS-PAYG, FortiTester-VM-AZURE-BYOL, FortiTester-VM-AZURE-PAYG, FortiTester-VM-GCP-BYOL, FortiTester-VM-GCP-PAYG, FortiTester-VM-IBM-PAYG, FortiTester-VM-KVM, FortiTester-VM-OCI-BYOL, FortiTester-VM-OCI-PAYG	
<b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2500E, FortiTester-3000E, FortiTester-3000F, FortiTester-4000E, FortiTester-4000F	4.2
<b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL, FortiTester-VM-ALI-PAYG, FortiTester-VM-AWS-BYOL, FortiTester-VM-AWS-PAYG, FortiTester-VM-AZURE-BYOL, FortiTester-VM-AZURE-PAYG, FortiTester-VM-GCP-BYOL, FortiTester-VM-GCP-PAYG, FortiTester-VM-KVM, FortiTester-VM-OCI-BYOL, FortiTester-VM-OCI-PAYG	

## FortiWeb models

Model	Firmware Version
<b>FortiWeb:</b> FortiWeb-100D, FortiWeb-100E, FortiWeb-400C, FortiWeb-400D, FortiWeb-400E, FortiWeb-600D, FortiWeb-600E, FortiWeb-1000D, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-2000F, FortiWeb-3000C, FortiWeb-3000CFSX, FortiWeb-3000D, FortiWeb-3000DFSX, FortiWeb-3000E, FortiWeb-3000F, FortiWeb-3010E, FortiWeb-4000C, FortiWeb-4000D, FortiWeb-4000E, FortiWeb-4000F	6.4, 7.0, 7.2
<b>FortiWeb VM:</b> FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XENServer	

# Resolved Issues

The following issues have been fixed in 7.2.3. To inquire about a particular bug, please contact [Customer Service & Support](#).

## AP Manager

Bug ID	Description
781561	User may not be able to access <i>AP Manager</i> with custom read only admin profile.
861941	FortiManager attempts to install "arp-profile" even if "darp" is disabled.
871334	Installation to FortiGate with NP7 Acceleration feature enabled might fail when FortiManager attempted to modify the QoS settings. Changing the "default-qos-type" to values other than its default may result in a FortiGate reboot (FortiOS Behavior).
881548	Unable to install successfully when creating a SSID using its default value.
889811	Under WIFI and switch controller for Managed FortiAPs, there is not any LLDP info found.
910182	<i>AP Manager</i> doesn't load if admin profile permission is Read-Only.

## Device Manager

Bug ID	Description
777693	Provisioning templates change meta data's values.
801886	FortiManager does not assign the correct VDOM name when configuring a new inter-vgom link interface.
803425	Installation failed due to the some of the "os-check-list" items, which are not supported by the FortiGates anymore.
817346	Editing interface with normalized interface mapping displays some unnecessary messages for mapping change.
831874	FortiManager's GUI keeps refreshing when clicking on the devices under the <i>Managed Devices</i> .
836933	Changes on the External-Resource settings from ADOMs for specific VDOMs/FortiGates alter the External-Resource settings for other ADOMs and VDOMs.

Bug ID	Description
837213	Browser may crash when clicking "view diff" to compare with current device config. This might happen due to the network slowness.
838462	Adding device using "Add Model HA Cluster" feature failed as FortiManager does not allow "virtual switch interfaces" being used as "heartbeat interfaces".
839334	FortiManager does not allow empty value for "Interface Preference" as SD-WAN Rules under the SD-WAN Templates.
876040	Status of Certificates is displayed as "pending" under the System's Certificates.
879833	Adding a model device with variable to FortiManager displays an error message: "a[i].replace is not a function".
881148	SAML user - retrieve/refresh/install and device authorization fail from GUI post upgrade.
881308	The default value of the "router.static.vrf" leads to installation failure when attempting to install blackhole routes to FortiGates.
885454	After upgrading FortiManager, certificates for FGT 1100E's are missing from the <i>Device Manager</i> .
886917	FortiManager's ipsec templates remove the sdwan member and bgp neighbor attached to an ipsec interface. This causes the sdwan member to be removed even when it's used.
888930	
887903	System template interface table gets purged when trying to create VLAN type with name length greater than 15.
888658	Editing DHCP Settings of a FortiGate interface displays the following error message: "You have no permission to access this device/vdom".
891216	Unable to edit/save interface with DHCP relay enabled.
891341	Installation fails due to the Copy failure error; system template created with some empty string values which are assigned to devices.
891967	When management VDOM is non-root and has been assigned to a different ADOM, FortiManager displays the error; "Can not access device global setting if management VDOM is not in current ADOM".
893592	Exporting the Device List to CSV and Excel file doesn't include the FortiAPs and FortiSwitches info.
896998	Unable to get access to the Certificates via <i>Device Manager</i> > <i>DEVICE_NAME</i> > <i>VDOM_NAME</i> > <i>System</i> .
897863	After deselecting the 'allow-dns' feature under the application control list, the changes cannot be saved.
898814	FortiManager keeps changing the <code>cert-id-validation</code> value to its default value during the installation.
899903	FortiManager GUI does not list all NTP interfaces.
909867	FortiManager attempts to configure unsupported syntax for "sdwan health-check".

Bug ID	Description
912833	Adding FortiGates with Open Authentication (OAuth) Method, Fortinet Security Fabric dialog box does not display the FortiManager's related info.

## FortiSwitch Manager

Bug ID	Description
872802	FortiManager automatically sets "default" as dnsfilter-profile under dns-server for fortilink interface.
890205	Selecting multiple ports to "Edit" is not possible as it is greyed out.

## Global ADOM

Bug ID	Description
826522	Unable to remove global object from Global Database in workspace mode.
870944	Global Policy Assignment displays the following error: "Double global assignment exists".
906058	Firewall address cannot be deleted from Global ADOM; it displays an error message indicating that the object is being used in ADOM root.

## Others

Bug ID	Description
713714	The schedule for firmware upgrade for FortiGates does not work if the upgrade request is issued from the CLI; instead, firmware upgrade starts immediately.
788006	FortiManager consumes license count for the Admin Type VDOMs.
802922	The application "newcli" process crashes when the "diagnose cdb upgrade check +all" command runs.
804987	License Status, under the <i>FortiGuard</i> tile, does not display the unregistered FortiGates license.
814425	Sorting FortiExtenders by Network, RSSI, RSRP, RSRQ, and SINR does not work properly.
829046	After the upgrade, some of the metadata variables are missing.
832351	FortiManager does not allow users to enter to the "root" ADOM; it displays the "ADOM license

Bug ID	Description
	was expired..." message.
838638	FortiGates are upgraded successfully via FortiManager's Group Firmware upgrade feature; however, the task monitor displays "Image upgrade failed" for some of the FortiGates.
851586	FortiManager displays "invalid scope" errors when running the "diagnose cdb check policy-packages" command.
869955	BGP Template route map option does not support Meta Variables.
871608	Unable to retrieve routing information from FortiGate via FortiManager when there is a large routing table.
873110	FortiManager displays "expired" instead of "not licensed" for non-purchased FortiGuard services.
875006	When clicking on the warning message, which indicates critical security vulnerabilities, a list of all types of security vulnerabilities is displayed.
883548	FMG/FAZ is forcing its users to upgrade the Firmware version upon login.
889917	During the upgrade process, a non-critical error message, "Duplicate root nodes found in ADOM." has been observed. This error is harmless and does not impact the functionality of the FortiManager/FortiAnalyzer.
891869	FortiManager wrongly recommends lower version for upgrade the FortiGates.
895081	Some FortiGates were unable to be upgraded from FortiManager due to firmware ID discrepancies between FortiManager and FortiGuard.
899570	Unable to add the "FortiGateRugged-60F" FGT to the FortiManager.
899750	ADOM upgrade makes the Policy Packages status modified.
906533	Group options, when creating/editing the workflow approval group, displays wrong info.
919088	GUI may not work properly in Google Chrome and Microsoft Edge version 114.

## Policy and Objects

Bug ID	Description
656991	FortiManager should not allow VIP to be created with same IP for External IP and Mapped IP Address.
739489	It's not possible to enable NAT with Outgoing Interface Address by directly right-clicking on the NAT section of a firewall policy.
774058	Rule list order may not be saved under File Filter Profile.
777017	FortiManager purges the "arp-profile" when installing the v6.2 policy packages to v6.4 FortiGates.

Bug ID	Description
798955	Traffic shaping policy changes does not trigger any changes/updates on the Policy Packages status.
803460	"User Definitions" entries under the "User & Authentication" cannot be removed from FortiManager.
804160	FortiManager does not remove "Radius Server" on the FortiGate when it becomes unused.
806378	Searching policies on FortiManager does not work properly.
814468	FortiManager purges 'gcp-project-list' and unsets several values from GCP sdn-connector.
821114	EMS ZTNA Tags in FortiManager and FortiGate are using different naming convention; therefore, installing the policies with those tags to FortiGates do not work.
824652	Under the "Advanced Options" for firewall policy, "session-ttl" feature cannot be set to "never".
827416	FortiManager does not display any copy failure errors when utilized objects do not have any default values or per-device mapping.
846634	GUI does not allow to edit the custom Application and Filter Overrides
853347	ZTNA tags name/format from EMS/FGTs don't match with the ones from FortiManager's DB.
862014 880359	FortiManager is purging 'replacement message group custom' configuration after install verification fails.
866724	Copy Failed error has been observed with the error message, "Virtual server limit reached!"; this limit is 50 for FGT AWS ONDEMAND.
866826	Failed to modify Virtual Server addresses in Firewall Policies with Deny Action.
867809	During installation, FortiManager unsets status for the proxy policies.
870800	Even though each interface is mapped to be used in specific vdoms, the already mapped interface still can be selected for other VDOMs.
873006	Firewall Address entries cannot be modified and GUI displays an error message, "Objects already exists."
877477	Domain Name Threat Feeds are not available in <i>DNS Filter &gt; Remote Categories</i> .
880431	Unable to define Exempt IP in IPS Sensor.
880575	When using the "reinstall policy" option to install to devices with different policy packages, the corresponding event log shows the same policy package pushed to all devices.
881634	When multiple VDOMs are selected for installation using the Re-install Policy feature, FortiManager only applies "re-install policy" for one VDOM from each devices.
881857	Multiple security console Application crashes have been observed during the Policy Package installation when static router template and router static entry in device db are used.
882477	Error Message, "Object already exists", is displayed when editing per device mapping for

Bug ID	Description
	Address Group.
882996	Unable to install to FortiGates when using null values for "local-gw6" and "remote-gw6".
883527	Install Preview does not display any info during the installation when using device groups in PP Installation Targets.
884275	Not able to move policy blocks properly.
885827	FortiManager does not save and keep the selected "collapse all" mode for the policy package.
885992	Duplicate section names are created for policy package when View Mode interface pair View is selected.
886370	FortiManager doesn't sort by interface per view results correctly; the results are not displayed in alphabetical order.
886906	When scrolling the policy page down/up, the policy page appeared to be blank.
887278	Installation failed due to the limit on max entry for "endpoint-control fctems".
888483	The "automation email" under the "Replacement Message Group" is blank.
889068	Unable to push policies when VDOMs are in different ADOMs.
889563	FortiManager, for ADOM version 6.4, does not support Creating, Importing, and Inserting Above or Below actions for a deny policy with a "Log Violation Traffic" disabled.
891832	The install preview for policy package being used by multiple FortiGates is taking some time to load.
891996	"Find and Replace" feature does not display the entries correctly and it does not allow any changes.
892293	Unable to Import Virtual Servers/VIPs in Central DNAT Mode.
894052	Unable to remove per-device mapping entry via GUI in dynamic address groups.
895979	FortiManager attempts setting the Zone as the interface for firewall policy, during the installation.
896491	Installation fails with unclear error message, "vdom copy failed".
899339	FortiManager does not seek for confirmation when deleting an object from firewall policy.
911146	Under the Policy & Objects, GUI does not display the Address Object list.
911632	When retrieving the configuration from the FortiGate, the FortiManager shows the new cert; however, those can't be assigned to the FCT EMS connector.
912732	The installation fails when the IPS signature contains CVE references.

## Revision History

Bug ID	Description
672609	After import, FortiManager may prompt password error on administrator during install.

## Script

Bug ID	Description
876917	"Capture Diff to a Script" does not work properly. It does not display the changes.

## System Settings

Bug ID	Description
873078	FortiManagers HA cannot be configured as the initial sync never completes.
884168	FortiManager suggests wrong versions to upgrade FortiGates in order to resolve the PSIRT Vulnerability.
884396	The firmware upgrade notification on the FMG and FAZ keeps appearing continuously after each login.
884848	FortiManager/FortiAnalyzer HA is not syncing after upgrade as the synchronization between the cluster units never completes.
888374	Admin user's ADOM setting cannot be synced to secondary when <code>adom-access</code> is set to <code>specify</code> .
894366	Any changes related to "lan" interface on FGT 40F, where the role is defined as "LAN", FortiManager tries installing firewall address "lan address" with type interface-subnet linked to interface "lan". The Install Verification fails for "lan address" as "entry not found in database".

## VPN Manager

Bug ID	Description
798995	It's not possible to delete an SSL VPN portal profile from FortiManager GUI if the profile has been already installed.
857051	Installing a policy package with IPSec VPN to FortiGates fail with the following error: "TCL error(The remote gateway is a duplicate of another IPsec gateway entry)".

Bug ID	Description
888272	Single entry of SSLVPN settings cannot be selected under <i>VPN Manager</i> .
894705	FortiManager's GUI becomes unresponsive after any changes on the Advanced SSL Profiles in <i>VPN Manager</i> .

## Common Vulnerabilities and Exposures

Visit <https://fortiguard.com/psirt> for more information.

Bug ID	CVE references
841029	FortiManager 7.2.3 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-25607</li></ul>
850883	FortiManager 7.2.3 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-36638</li></ul>
889979	FortiManager 7.2.3 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-41679</li></ul>

# Known Issues

The following issues have been identified in 7.2.3. To inquire about a particular bug or to report a bug, please contact [Customer Service & Support](#).

## AP Manager

Bug ID	Description
865486	The FortiManager's <i>AP Manager</i> permits the use of invalid channels with a 40MHz channel width.
884233	FortiManager displays the AP critical security vulnerability info even after FortiAPs are being upgraded.
892773	Assigning AP Profile returns invalid value.

## Device Manager

Bug ID	Description
768289	There is a discrepancy in the usage of quotation marks (") when configuring DHCP relay from FortiManager or retrieving it from FortiGate.
831624	<i>SD-WAN Monitor</i> under the Monitors displays time frame as "invalid date - invalid date".
895001	The "gui-ztna" configuration is displayed as enabled on the FortiManager even though this setting is disabled on the FortiGate.
896127	When attempting to create a VLAN type with a name longer than 15 characters, FortiManager displays an error message.
896367	The geographic coordination config of FortiGates on <i>Device Manager</i> is being reset to 0, 0 after a certain period of time.
899350	Promote button is missing for FortiGate 80F Clusters.
899541	An error message, "upgrade image failed", is shown even though the upgrade has been completed successfully.
902908	Managed FortiAnalyzer is not listed under <i>System Template</i> .
905367	An error message, "upgrade image failed" is shown, even though the upgrade has been completed successfully.

Bug ID	Description
905869	Invalid default value for VRF ID is observed when creating static route.
910391	When FortiManager operates in a non-default workspace mode, it may attempt to purge the configuration of the FortiGate devices due to database corruption.
911535	Adding a Model device with MetaVariables changes the status of other devices which using the MetaVariables to Modified/unknown.
915361	FortiWiFi devices are displayed in FortiManager under the Vulnerable devices as FortiAP.
917969	FortiManager is unable to search static routes via its interface name.
919613	When using a space character in "psksecret", the FortiManager is unable to install the "psksecret" and displays an error message.
921094	<p>In 6.2 or 6.4 ADOMs, problems might occur when attempting to add or modify static routes.</p> <p><b>Workarounds:</b></p> <p>Please create a fresh backup of your FMG and FGT, and then try either of the following:</p> <ol style="list-style-type: none"> <li>1. Configure static routes directly on the FortiGate and retrieve routes from FortiGates to FortiManager. The configuration will not be lost during the next installation.</li> <li>2. Run Scripts (static routes config) as target: Remote FortiGate Directly (via CLI) to FGT and auto-retrieve by a script manager or a manual retrieve if auto-update is disabled.</li> </ol>
922543	FortiManager attempts to unset authentication mode in ospf settings.
925546	Assigned Devices on Provisioning Template/CLI Template shows incorrect VDOM.
925684	Only a maximum of 10 devices can be previewed before installation using "install preview".
925854	FortiManager fails to load the security fabric data for FortiGates (Versions 7.0.5+ & 7.2.5).
931736	Adding a new cli template script into existing cli template group changes order of cli templates to alphabetical order.
936544	When importing CLI Templates, GUI displays a blank page.
950391	FortiManager attempts to unset the "peervd" parameter under the system "cluster-sync", resulting in installation failure.

## FortiSwitch Manager

Bug ID	Description
881766	Event logs or task manager do not show which user authorized a FortiSwitch.
947651	Per-device under the <i>FortiSwitch Manager</i> cannot edit FortiSwitch name and GUI returns error "invalid value".

## Global ADOM

Bug ID	Description
894714	FortiManager does not allow creating/modification or removing the per-device mapping in global objects in assigned ADOM.
925188	The per-device mapping for any assigned global objects cannot be modified.

## Others

Bug ID	Description
703585	FortiManager may return 'Connection aborted' error with JSON API request.
777831	When FortiAnalyzer is added as a managed device to FortiManager, " <i>Incident &amp; Event</i> " tile will be displayed instead of the " <i>FortiSoC</i> ".
880465	TCP ports 8902 & 8903 are opened and in listening mode after the upgrade.
885665	Unable to specify type of objects in FortiProxy ADOM.
894947	FortiManager fails to trigger the event handler for its local events after enabling the FortiAnalyzer features.
895982	Admin with a super user profile is not able to create the Firmware Template when FortiManager is working in the Workflow mode.
900512	FortiManager ADOM Upgrade fails with the error message: "Peer type cannot be peer when authentication method is pre-share key".
910175	When provisioning the FortiExtender via CLI template, FortiManager displays the "mismatch interface" error message.
914027	FortiManager does not display/use the latest ISDB version for all of its ADOMs.
916463	The approval emails are not being sent to the "Email Notification" admins when a new session is created and submitted for approval.
918129	FortiManager does not support the AWS Security Token Service in AWS SDN connector.
919981	Installation fails to Azure FortiGate standalone as FortiManager attempts to set the peervd to "root".
921273	Unable to upgrade ADOMs due to the XSS vulnerability characters check on wireless-controller.
925778	FortiGates are displayed <i>Offline</i> and <i>Inactive</i> on FortiWLM MEA.
928163	Unable to export packages under <i>FortiGuard</i> .
930425	When downloading the install preview, the file name does not include the timestamp.

## Policy & Objects

Bug ID	Description
751443	<p>FortiManager displays policy installation copy failures error when ipsec template gets unassigned.</p> <p><b>Workaround:</b> Instead of unassigning IPSec template, modify IPSec template, replace the reference to IPSec tunnel interface with another interface. Please ensure a fresh FortiManager backup is created prior to any changes.</p>
780058	FortiManager's GUI does not support the "src-vendor-mac" objects in Firewall policy.
843716	FortiManager tries to unset url-map for TCP forwarding ZTNA virtual server.
845022	SDN Connector failed to import objects from VMware VSphere.
855073	<p>The "where used" feature (under the Source &amp; Destination objects) incorrectly displays "No Record Found" even when these objects are in use.</p> <p><b>Workaround:</b></p> <p>Run the following command:</p> <pre>diagnose cdb upgrade force-retry add-missing-ref</pre>
863819	Unable to delete unused objects.
873358	Installation fails as FortiManager tries to set "cgn-client-startip" and "cgn-client-endip" settings when ipool object has been modified.
880418	The default values of the <i>Application Control Profile</i> entries cannot be changed.
883064	If any admin makes changes to "Object Selection Pane", either setting it to "Dock to Right", "Dock to Bottom" or "Classic Dual Pane", it will affect all other Admin's GUI preferences.
889586	Azure Service Tags not displayed correctly in FortiManager.
896461	FortiManager disables ip6-send-adv after opening and closing interface configuration.
898883	Exported firewall policies do not contain firewall address values IP, netmask, and other details.
902298	FortiManager does not generate error messages when invalid or obsolete application IDs are used in the policy. Instead, it allows installation and sets the category to "pass" or "monitor".
912114	FortiManager is unable to import OpenStack SDN connector and the following error message is displayed: "send_sdn_connector_openstack_cmd: Failed to get openstack token".
914945	Unable to modify or clone the "SSL/SSH inspection profile" in the Policy & Object on the ADOM 7.0 version.
914981	In <i>Policy &amp; Objects</i> , local policy is not displayed if view mode "Interface pair view" is selected.
916459	The option "Allow Websites When a Rating Error Occurs" is not being saved correctly in the default web filter.
919415	Unable to "Edit" and "Delete" Installation Target after enable classic dual pane mode.
919681	The incoming and outgoing interfaces are not loading after creating a custom policy package

Bug ID	Description
	in a 7.2 FortiGate ADOM.
920740	Unable to create a per-device mapping for a virtual server.
922648	FortiManager unable to push WiFi SSID to FortiGates.
924680	Policy packages containing geo-based ISDB objects may not be successfully installed to the FortiGates.
925058	"Web URL Filter" entries are not visible in the Web Filter Profile.
925076	FortiManager tries to install different preconnection-id under VPN SSL WEB Portal > Profile > Bookmark-Group > Gui-Bookmark > Book.
939979	After editing authentication-rule/portal mapping, FortiManager installs unexpected changes to these rules.
954399	Cloning Webfilter profiles does not save the FortiGuard Category Based Filter action.
958206	Policy package import fails due to a certificate error in the SSL VPN web realm configuration for the virtual host server.

## Revision History

Bug ID	Description
904710	Restoring a revision of a policy removes the information of all the SD-WAN rules.

## Script

Bug ID	Description
801614	FortiManager might display an error message, "Failed to create a new revision." for some FortiGates, when retrieving their configurations.
913360	Device script is trying to add additional configuration; therefore, installation fails.
923966	When FortiManager is operating in Workspace mode, there are no options to save changes after executing a CLI script.
931196	Scheduled Scripts created by the ldap users cannot be run and FortiManager displays "Data is not ready" error message.
1020938	After the image upgrade, users may encounter a "Temporarily Unavailable" page message. This problem specifically occurs when special characters, like "\$ ( . . ) ", are used within a TCL script in an ADOM. The Meta variable parsing function incorrectly identifies these characters as meta variable delimiters.

## System Settings

Bug ID	Description
861997	Unable to delete a particular non-default empty ADOM.
890956	SAML SSO Authentication only works with the default local certs.

## VPN Manager

Bug ID	Description
784385	<p>If policy changes are made directly on the FortiGates, the subsequent PP import creates faulty dynamic mappings for <i>VPN Manager</i>.</p> <p><b>Workaround:</b> It is strongly recommended to create a fresh backup of the FortiManager's configuration prior to the workaround. Perform the following command to check &amp; repair the FortiManager's configuration database.</p> <pre>diagnose cdb check policy-packages &lt;adom&gt;</pre> <p>After running this command, FortiManager will remove the invalid mappings of vpnmgr interfaces.</p>
847479	Despite being configured for 'SHA-256,' FortiManager is installing 'SHA-1' certificates on FortiGates.
863424	The "Latest Patch Level" should be available with action "Check-up-to-date" under the SSL VPN Portal.
923221	Provision Template - IPsec Tunnel: cannot Activate IPsec_Fortinet_Recommended. GUI returns error.
931564	In <i>VPN Manager</i> , ipsec vpn map, topology view, and traffic view does not display map normally.

## Appendix A - FortiGuard Distribution Servers (FDS)

In order for FortiManager to request and retrieve updates from FDS, and for FortiManager to serve as an FDS, please configure the necessary settings on all devices between FortiManager and FDS, or between FortiManager and FortiGate devices based on the following items:

- FortiManager accesses FDS for antivirus and attack updates through TCP/SSL port 443.
- If there is a proxy server between FortiManager and FDS, FortiManager uses port 80 to communicate with the proxy server by default, and connects to the proxy server using HTTP protocol.
- If FortiManager manages a FortiGate device located behind a proxy server, the proxy server permits TCP/SSL traffic to pass through port 443.

### FortiGuard Center update support

You can configure FortiManager as a local FDS to provide FortiGuard updates to other Fortinet devices and agents on your network. The following table lists which updates are available per platform:

Platform	Update Service	Query Service
FortiGate	✓	✓
FortiADC	✓	
FortiCache	✓	
FortiCarrier	✓	✓
FortiClient	✓	
FortiDeceptor	✓	✓
FortiDDoS	✓	
FortiEMS	✓	
FortiMail	✓	✓
FortiProxy	✓	✓
FortiSandbox	✓	✓
FortiSOAR	✓	
FortiTester	✓	
FortiWeb	✓	

## Appendix B - Default and maximum number of ADOMs supported

This section identifies the supported number of ADOMs for FortiManager hardware models and virtual machines.

### Hardware models

FortiManager supports a default number of ADOMs based on hardware model.

Some hardware models support an ADOM subscription license. When you purchase an ADOM subscription license, you increase the number of supported ADOMs. For example, you can purchase an ADOM subscription license for the FMG-3000G series, which allows you to use up to a maximum of 8000 ADOMs.

Other hardware models do not support the ADOM subscription license. For hardware models that do not support the ADOM subscription license, the default and maximum number of ADOMs is the same.

FortiManager Platform	Default number of ADOMs	ADOM license support?	Maximum number of ADOMs
200G Series	30		30
300F Series	100		100
400G Series	150		150
1000F Series	1000		1000
2000E Series	1200		1200
3000G Series	4000	✓	8000
3700G Series	10,000	✓	12,000

For FortiManager F series and earlier, the maximum number of ADOMs is equal to the maximum devices/VDOMs as described in the [FortiManager Data Sheet](#).

### Virtual Machines

FortiManager VM subscription license includes five (5) ADOMs. Additional ADOMs can be purchased with an ADOM subscription license.

For FortiManager VM perpetual license, the maximum number of ADOMs is equal to the maximum number of Devices/VDOMs listed in the [FortiManager Data Sheet](#).



FortiManager VM subscription and perpetual licenses are stackable.

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