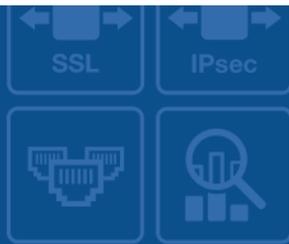




FortiManager - Release Notes

VERSION 5.4.5



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FortiManager - Release Notes

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Change Log

Date	Change Description
2018-02-14	Initial release of 5.4.5.
2018-02-20	Added information about upgrading from 5.2.x.
2018-04-10	Added 481694 to <i>Known Issues > Others</i> .
2018-05-11	Added 5.4.9 support to <i>Product Integration & Support > FortiOS</i> . Added 5.4.9 section to <i>Compatibility with FortiOS</i> .
2018-06-27	Added note to <i>Product Integration > Supported Models > FortiGate Models > 5.4 > FortiGate Hardware Low Encryption</i> .
2018-08-22	Added support for FortiOS 5.4.10 to <i>Product Integration and Support</i> .

Introduction

This document provides the following information for FortiManager 5.4.5 build 1235:

- Supported models
- Special Notices
- Upgrade Information
- Product Integration and Support
- Compatibility with FortiOS Versions
- Resolved Issues
- Known Issues
- FortiGuard Distribution Servers (FDS)

For more information on upgrading your device, see the FortiManager *Upgrade Guide*.

Supported models

FortiManager version 5.4.5 supports the following models:

FortiManager	FMG-200D, FMG-200F, FMG-300D, FMG-300E, FMG-400E, FMG-1000C, FMG-1000D, FMG-2000E, FMG-3000C, FMG-3000F, FMG-3900E, FMG-4000D, and FMG-4000E.
FortiManager VM	FMG-VM64, FMG-VM64-AWS, FMG-VM64-Azure, FMG-VM64-HV (including Hyper-V 2016), FMG-VM64-KVM, and FMG-VM64-XEN (for both Citrix and Open Source Xen).

What's new in FortiManager 5.4.5

There are no new features or enhancements in FortiManager version 5.4.5.

Special Notices

This section highlights some of the operational changes that administrators should be aware of in 5.4.5.

FortiGate VM 16/32/UL license support

FortiOS 5.4.4 introduces new VM license types to support additional vCPUs. FortiManager 5.4.3 supports these new licenses with the prefixes of FGVM16, FGVM32, and FGVMUL.

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.

IPsec connection to FortiOS for logging

FortiManager 5.4.2 with FortiAnalyzer Features enabled no longer supports an IPsec connection with FortiOS 5.0.x/5.2.x. However UDP or TCP + reliable are supported.

Instead of IPsec, you can use the FortiOS reliable logging feature to encrypt logs and send them to FortiManager. You can enable the reliable logging feature on FortiOS by using the `configure log fortianalyzer setting` command. You can also control the encryption method on FortiOS by using the `set enc-algorithm default/high/low/disable` command.

FortiManager 5.4.1 and earlier supports IPsec connection with FortiOS 5.0.x/5.2.x.

VM License (VM-10K-UG) Support

FortiManager 5.4.2 introduces a new VM license (VM-10K-UG) that supports 10,000 devices. It is recommended to upgrade to FortiManager 5.4.2 before applying the new license to avoid benign GUI issues.

If you use the new license with FortiManager 5.4.1 or 5.2.x and earlier, the maximum number of devices is correctly enforced, but the GUI may display some VM information incorrectly. For example, the VM storage maximum may incorrectly display 100GB in the *License Information* widget on the *System Settings* pane. The VM license type may not appear (FortiManager 5.4.1), and the VM license type may show *Unknown* (FortiManager 5.2.9).

System Configuration or VM License is Lost after Upgrade

When upgrading FortiManager from 5.4.0 or 5.4.1 to 5.4.2, it is imperative to reboot the unit before installing the 5.4.2 firmware image. Please see the *FortiManager Upgrade Guide* for details about upgrading. Otherwise, FortiManager may lose system configuration or VM license after upgrade. There are two options to recover the FortiManager unit:

1. Reconfigure the system configuration or add VM license via CLI with `execute add-vm-license <vm license>`.
2. Restore the 5.4.0 backup and upgrade to 5.4.2.

FortiOS 5.4.0 Support

With the enhancement in password encryption, FortiManager 5.4.2 no longer supports FortiOS 5.4.0. Please upgrade FortiGate to 5.4.2.



The following ADOM versions are not affected: 5.0 and 5.2.

Local in-policy after upgrade

After upgrading to FortiManager 5.4.1, you must import or reconfigure local in-policy entries. Otherwise, the subsequent install of policy packages to FortiGate will purge the local in-policy entries on FortiGate.

ADOM for FortiGate 4.3 Devices

FortiManager 5.4 no longer supports FortiGate 4.3 devices. FortiManager cannot manage the devices after the upgrade. To continue managing those devices, please upgrade all FortiGate 4.3 to a supported version, retrieve the latest configuration from the devices, and move the devices to an ADOM database with the corresponding version.

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

Upgrading to FortiManager 5.4.5

You can upgrade FortiManager 5.2.0 or later directly to 5.4.5. If you are upgrading from versions earlier than 5.2.0, you will need to upgrade to FortiManager 5.2 first. (We recommend that you upgrade to 5.2.9, the latest version of FortiManager 5.2.)

Bug ID	Description
404193	<p>ADOM upgrade will fail if the MGMT interface is a dedicated management port and mapped to a dynamic interface.</p> <p>Workaround: Before upgrading to 5.4, you should remove MGMT interface from dynamic interface zone, if a managed FortiGate has MGMT interface and if it is a dedicated management port. This is because MGMT interface being set to a dedicated management port cannot be mapped to a dynamic interface zone in 5.4.</p>



When upgrading from FMG 5.2, an *Import Policy Package* should be performed on all FortiGates using *Local-In-Policies*. As of FMG 5.4, these are handled in Policies & Objects.



For details about upgrading your FortiManager device, see the *FortiManager Upgrade Guide*.



During upgrade from 5.2.4 or earlier, invalid dynamic mappings and duplicate package settings are removed from the ADOM database. Please allow sufficient time for the upgrade to complete.

After changing the SFTP tool in FMG 5.4.4, a full directory path may now be required for some servers. Users may need to update their configuration after upgrade.

Previously, the following config example was working:

```
# config system backup all-settings
# set directory "folder/subfolder"
```



After upgrading to 5.4.4, the full path may need to be defined as in the example below:

```
# config system backup all-settings
# set directory "/home/username/folder/subfolder/"
```

The CLI command for manual backup is also affected.

Previously, it was working with:

```
# exec backup all-settings sftp 000.000.000.000
folder/subfolder/ username password
```

After upgrading to 5.4.4:

```
# exec backup all-settings sftp 000.000.000.000
/home/username/folder/subfolder/ username password
```

Upgrading from 5.2.x

Starting with FortiManager 5.4.0, you can create a maximum number of Global and ADOM objects for each object category, and the maximum is enforced. The maximum numbers are high and unlikely to be met. The purpose of the maximum is to help avoid excessive database sizes, which can impact performance.

During upgrade from FortiManager 5.2.x to 5.4.x to 5.6.2, objects are preserved, even if the 5.2 ADOM contains more than the maximum number of allowed objects. If you have met the maximum number of allowed objects, you cannot add additional objects after upgrading to FortiManager 5.6.2.

Following are examples of object limits:

- Firewall service custom: 8192 objects
- Firewall service group: 2000 objects

If you have reached the maximum number of allowed objects, you can reduce the number of objects by deleting duplicate or obsolete objects from the ADOM.

You can also reach the maximum number of allowed objects if you have multiple FortiGate/VDOMs in the same ADOM.

You can reduce the number of objects by moving the FortiGates/VDOMs into different ADOMs.

Downgrading to previous firmware versions

FortiManager does not provide a full downgrade path. You can downgrade to a previous firmware release via the GUI or CLI, but doing so results in configuration loss. A system reset is required after the firmware downgrading 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}
```

FortiManager VM firmware

Fortinet provides FortiManager VM firmware images for Amazon AWS, 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 FortiAnalyzer 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.

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 `FMG_VM64_AZURE-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 Azure.

Microsoft Hyper-V Server

The files for Microsoft Hyper-V Server have HV in the filenames, for example, `FMG_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.

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 product data sheet available on the Fortinet web site, <http://www.fortinet.com/products/fortimanager/virtualappliances.html>. VM installation guides are available in the [Fortinet Document Library](#).

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 select *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

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

FortiManager 5.4.5 support

The following table lists 5.4.5 product integration and support information:

Web Browsers

- Microsoft Internet Explorer version 11 or Edge 40
Due to limitation on Microsoft Internet Explorer or Edge, it may not completely render a page with a large set of policies or objects.
 - Mozilla Firefox version 58
 - Google Chrome version 64
- Other web browsers may function correctly, but are not supported by Fortinet.

FortiOS/FortiOS Carrier

- 5.4.10
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.4.10 with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.4.10 on page 27](#).
- 5.4.9
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.4.9 with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.4.9 on page 27](#).
- 5.4.8
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.4.8, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.4.8 on page 27](#).
- 5.4.7
- 5.4.6
- 5.4.5
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.4.5, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.4.5 on page 27](#).
- 5.4.4
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.4.4, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.4.4 on page 28](#).
- 5.4.1 to 5.4.3
- 5.2.8 to 5.2.11
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.10, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.2.10 on page 28](#).
- 5.2.7
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.7, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.2.7 on page 28](#).
- 5.2.6
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.6, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.2.6 on page 29](#).
- 5.2.2 to 5.2.5
- 5.2.1
FortiManager 5.4.5 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.1, with some minor interoperability issues. For information, see [Compatibility issues with FortiOS 5.2.1 on page 29](#).

FortiAnalyzer	<ul style="list-style-type: none">• 5.4.0 to 5.4.5• 5.2.0 to 5.2.11• 5.0.0 to 5.0.13
FortiCache	<ul style="list-style-type: none">• 4.2.2• 4.1.2• 4.0.0 to 4.0.4
FortiClient	<ul style="list-style-type: none">• 5.4.3• 5.4.1• 5.2.0 and later
FortiMail	<ul style="list-style-type: none">• 5.3.7 to 5.3.9• 5.2.9• 5.1.6• 5.0.10
FortiSandbox	<ul style="list-style-type: none">• 2.4.1• 2.4.0• 2.3.2• 2.2.1• 2.1.2• 1.4.0 and later• 1.3.0• 1.2.0 and 1.2.3
FortiSwitch ATCA	<ul style="list-style-type: none">• 5.2.3• 5.0.0 and later• 4.3.0 and later• 4.2.0 and later
FortiWeb	<ul style="list-style-type: none">• 5.8.1• 5.8.0• 5.6.0• 5.5.4• 5.4.1• 5.3.8• 5.2.4• 5.1.4• 5.0.6

FortiDDoS	<ul style="list-style-type: none"> • 4.3.1 • 4.4.2 • 4.2.3 • 4.1.11 <p>Limited support. For more information, see Feature support on page 17.</p>
FortiAuthenticator	<ul style="list-style-type: none"> • 4.3.2
Virtualization	<ul style="list-style-type: none"> • Amazon Web Service AMI, Amazon EC2, Amazon EBS • Citrix XenServer 6.2 • Linux KVM Redhat 6.5 • Microsoft Azure • Microsoft Hyper-V Server 2008 R2, 2012 & 2012 R2 • OpenSource XenServer 4.2.5 • VMware <ul style="list-style-type: none"> • ESX versions 4.0 and 4.1 • ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, 6.0 and 6.5



To confirm that a device model or firmware version is supported by 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.

Feature support

The following table lists FortiManager feature support for managed platforms.

Platform	Management Features	FortiGuard Update Services	Reports	Logging
FortiGate	✓	✓	✓	✓
FortiCarrier	✓	✓	✓	✓
FortiAnalyzer			✓	✓
FortiCache			✓	✓

Platform	Management Features	FortiGuard Update Services	Reports	Logging
FortiClient		✓	✓	✓
FortiDDoS			✓	✓
FortiMail		✓	✓	✓
FortiSandbox		✓	✓	✓
FortiSwitch ATCA	✓			
FortiWeb		✓	✓	✓
FortiAuthenticator				✓
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 import language translation files for these languages via the command line interface using one of the following commands:

```
execute sql-report import-lang <language name> <ftp> <server IP address> <user name>
<password> <file name>
```

```
execute sql-report import-lang <language name> <sftp <server IP address> <user name>
  <password> <file name>
execute sql-report import-lang <language name> <scp> <server IP address> <user name>
  <password> <file name>
execute sql-report import-lang <language name> <tftp> <server IP address> <file name>
```

For more information, see the *FortiManager CLI Reference*.

Supported models

The following tables list which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch ATCA, FortiWeb, and FortiCache models and firmware versions that can be managed by a FortiManager or send logs to a FortiManager running version 5.4.5.



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.

FortiGate models

Model	Firmware Version
<p>FortiGate: FG-30D, FG-30D-POE, FG-30E, FG-30E-3G4G-INTL, FG-30E-3G4G-NAM, FG-50E, FG-51E, FG-52E, FG-60D, FG-60D-POE, FG-60E, FG-60E-DSL, FG-60E-POE, FG-61E, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90D, FG-90D-POE, FG-90E, FG-91E, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-100E, FG-100EF, FG-101E, FG-140D, FG-140E, FG-140D-POE, FG-140E-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-200E, FG-201E, FGT-300D, FG-300E, FG-301E, FG-400D, FG-500D, FG-500E, FG-501E, FG-600C, FG-600D, FG-800C, FG-800D, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3810D, FG-3815D, FG-2000E, FG-2500E, FG 3800D, FG-3960E, FG-3980E,</p> <p>FortiGate 5000 Series: FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p>FortiGate 7000 Series: FG-7030E-Q, FG-7030E-S, FG-7040E-1, FG-7040E-2, FG-7040E-3, FG-7040E-4, FG-7040E-5, FG-7040E-6, FG-7040E-8, FG-7040E-8-DC, FG-7060E-1, FG-7060E-2, FG-7060E-3, FG-7060E-4, FG-7060E-5, FG-7060E-6, FG-7060E-8</p> <p>FortiGate DC: FG-80C-DC, FG-600C-DC, FG-800C-DC, FG-1000C-DC, FG-1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-8000D-DC</p> <p>FortiGate Hardware Low Encryption: FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> <p>Note: All license-based LENC is supported based on the FortiGate support list.</p> <p>FortiWiFi: FWF-30D, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-30D-POE, FWF-60D, FWF-60D-POE, FWF-60E-DSL, FWF-90D, FWF-90D-POE, FWF-92D, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM</p> <p>FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-AZUREONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN, FG-VMX-Service-Manager</p> <p>FortiGate Rugged: FGR-30D, FGR-35D, FGR-60D, FGR-90D</p>	5.4

Model	Firmware Version
<p>FortiGate: FG-20C, FG-20C-ADSL-A, FG-30D, FG-30D-POE, FG-40C, FG-60C, FG-60C-POE, FG-60C-SFP, FG-60D, FG-60D-3G4G-VZW, FG-60D-POE, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-110C, FG-111C, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200B, FG-200B-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-400D, FG-500D, FG-600D, FG-900D, FG-600C, FG-620B, FG-621B, FG-800C, FG-800D, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-1500DT, FG-3000D, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3810A, FG-3810D, FG-3815D, FG-3950B, FG-3951B</p> <p>FortiGate 5000 Series: FG-5001A, FG-5001A-SW, FG-5001A-LENC, FG-5001A-DW-LENC, FG-5001A-SW-LENC, FG-5001B, FG-5001C, FG-5001D, FG-5101C</p> <p>FortiGate DC: FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-1500D-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, G-3700D-DC, FG-3810A-DC, FG-3810D-DC, FG-3815D-DC, FG-3950B-DC, FG-3951B-DC, FG-8000D-DC</p> <p>FortiGate Low Encryption: FG-20C-LENC, FG-40C-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-LENC, FG-620B-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-310B-LENC, FG-600C-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC</p> <p>FortiWiFi: FWF-20C, FWF-20C-ADSL-A, FWF-30D, FWF-30D-POE, FWF-40C, FWF-60C, FWF-60CM, FWF-60CX-ADSL-A, FWF-60D, FWF-60D-3G4G-VZW, FWF-60D-POE, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p>FortiGate Rugged: FGR-60D, FGR-100C</p> <p>FortiGate VM: FG-VM-Azure, FG-VM, FG-VM64, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p>FortiSwitch: FS-5203B, FCT-5902D</p>	5.2

Model	Firmware Version
<p>FortiGate: FG-20C, FG-20C-ADSL-A, FG-30D, FG-30D-POE, FG-40C, FG-60C, FG-60C-POE, FG-60C-SFP, FG-60D, FG-60D-3G4G-VZW, FG-60D-POE, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-110C, FG-111C, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200B, FG-200B-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-500D, FG-600C, FG-620B, FG-621B, FG-700D, FG-800C, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-3000D, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3810A, FG-3950B, FG-3951B</p> <p>FortiGate 5000 Series: FG-5001A, FG-5001A-SW, FG-5001A-LENC, FG-5001A-DW-LENC, FG-5001A-SW-LENC, FG-5001B, FG-5001C, FG-5001D, FG-5101C</p> <p>FortiGate DC: FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-1500D-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC</p> <p>FortiGate Low Encryption: FG-20C-LENC, FG-40C-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-LENC, FG-310B-LENC, FG-600C-LENC, FG-620B-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC</p> <p>FortiWiFi: FWF-20C, FWF-20C-ADSL-A, FWF-30D, FWF-30D-POE, FWF-40C, FWF-60C, FWF-60CM, FWF-60CX-ADSL-A, FWF-60D, FWF-60D-POE, FWF-60D-3G4G-VZW, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p>FortiGate Rugged: FGR-60D, FGR-90D, FGR-100C</p> <p>FortiGateVoice: FGV-40D2, FGV-70D4</p> <p>FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p>FortiSwitch: FS-5203B</p>	5.0

FortiCarrier Models

Model	Firmware Version
<p>FortiCarrier: FCR-3000D, FCR-3100D, FCR-3200D, FCR-3700D, FCR-3700DX, FCR-3800D, FCR-3810D, FCR-3815D, FCR-5001C, FCR-5001D, FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3240C, FCR-3600C, FCR-3700D-DC, FCR-3810D-DC, FCR-5001C</p> <p>FortiCarrier DC: FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3240C-DC, FCR-3600C-DC, FCR-3700D-DC, FCR-3800D-DC, FCR-3810D-DC, FCR-3815D-DC</p> <p>FortiCarrier VM: FCR-VM, FCR-VM64, FCR-VM64-AWS, FCR-VM64-AWSONDEMAND, FCR-VM64-HV, FCR-VM64-KVM</p>	5.4
<p>FortiCarrier: FCR-3000D, FCR-3100D, FCR-3200D, FCR-3240C, FCR-3600C, FCR-3700D, FCR-3700DX, FCR-3810A, FCR-3810D, FCR-3815D, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5001D, FCR-5101C, FCR5203B, FCR-5902D</p> <p>FortiCarrier DC: FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3700D-DC, FCR-3810D-DC</p> <p>FortiCarrier Low Encryption: FCR-5001A-DW-LENC</p> <p>FortiCarrier VM: FCR-VM, FCR-VM64, FCR-VM64-HV, FCR-VM64-KVM, FCR-Vm64-XEN, FCR-VM64-AWSONDEMAND</p>	5.2
<p>FortiCarrier: FCR-3240C, FCR-3600C, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5001D, FCR-5101C</p> <p>FortiCarrier DC: FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3950B-DC, FCR-3951B-DC</p> <p>FortiCarrier Low Encryption: FCR-5001A-DW-LENC</p> <p>FortiCarrier VM: FCR-VM, FCR-VM64</p>	5.0

FortiDDoS models

Model	Firmware Version
<p>FortiDDoS: FI-200B, FI400B, FI-600B, FI-800B, FI-900B, FI-1000B, FI-1200B, FI-2000B, FI-3000B</p>	4.2, 4.1, 4.0

FortiAnalyzer models

Model	Firmware Version
<p>FortiAnalyzer: FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3900E, and FAZ-4000B.</p> <p>FortiAnalyzer VM: FAZ-VM64, FMG-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-XEN (Citrix XenServer and Open Source Xen), FAZ-VM64-KVM, and FAZ-VM64-AWS.</p>	5.4
<p>FortiAnalyzer: FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400C, FAZ-400E, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3900E, FAZ-4000B</p> <p>FortiAnalyzer VM: FAZ-VM, FAZ-VM-AWS, FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-XEN</p>	5.2
<p>FortiAnalyzer: FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400B, FAZ-400C, FAZ-400E, FAZ-1000B, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000A, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-4000A, FAZ-4000B</p> <p>FortiAnalyzer VM: FAZ-VM, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM-KVM, FAZ-VM-XEN</p>	5.0

FortiMail models

Model	Firmware Version
<p>FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000D, FE-3000E, FE-3200E, FE-5002B</p> <p>FortiMail Low Encryption: FE-3000C-LENC</p> <p>FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN</p>	5.3.7
<p>FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B</p> <p>FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN</p>	5.2.8
<p>FortiMail: FE-100C, FE-200D, FE-200E, FE-400B, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5001A, FE-5002B</p> <p>FortiMail VM: FE-VM64</p>	5.1.6
<p>FortiMail: FE-100C, FE-200D, FE-200E, FE-400B, FE-400C, FE-1000D, FE-2000A, FE-2000B, FE-3000C, FE-3000D, FE-4000A, FE-5001A, FE-5002B</p> <p>FortiMail VM: FE-VM64</p>	5.0.10

FortiSandbox models

Model	Firmware Version
FortiSandbox: FSA-1000D, FSA-3000D, FSA-3000E, FSA-3500D FortiSandbox VM: FSA-VM	2.3.2
FortiSandbox: FSA-1000D, FSA-3000D, FSA-3500D FortiSandbox VM: FSA-VM	2.2.0 2.1.0
FortiSandbox: FSA-1000D, FSA-3000D FortiSandbox VM: FSA-VM	2.0.0 1.4.2
FortiSandbox: FSA-1000D, FSA-3000D	1.4.0 and 1.4.1 1.3.0 1.2.0 and later

FortiSwitch ACTA models

Model	Firmware Version
FortiController: FTCL-5103B, FTCL-5902D, FTCL-5903C, FTCL-5913C	5.2.0
FortiSwitch-ATCA: FS-5003A, FS-5003B FortiController: FTCL-5103B, FTCL-5903C, FTCL-5913C	5.0.0
FortiSwitch-ATCA: FS-5003A, FS-5003B	4.3.0 4.2.0

FortiWeb models

Model	Firmware Version
FortiWeb: FWB-2000E	5.6.0
FortiWeb: FWB-100D, FWB-400C, FWB-400D, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E FortiWeb VM: FWB-VM-64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN, FWB-HYPERV, FWB-KVM, FWB-AZURE	5.5.3

Model	Firmware Version
FortiWeb: FWB-100D, FWB-400C, FWB-1000C, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVERT, FWB-HYPERV	5.4.1
FortiWeb: FWB-100D, FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVERT, and FWB-HYPERV	5.3.8
FortiWeb: FWB-100D, FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E FortiWeb VM: FWB-VM64, FWB-HYPERV,FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVERT	5.2.4

FortiCache models

Model	Firmware Version
FortiCache: FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3000E, FCH-3900E FortiCache VM: FCH-VM64, ForiCache-KVM	4.1
FortiCache: FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E FortiCache VM: FCH-VM64	4.0

FortiAuthenticator models

Model	Firmware Version
FortiAuthenticator: FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-1000C, FAC-1000D, FAC-3000B, FAC-3000D, FAC-3000E, FAC-VM	4.0 and 4.1

Compatibility with FortiOS Versions

This section highlights compatibility issues that administrators should be aware of in 5.4.5.

Compatibility issues with FortiOS 5.4.10

Bug ID	Description
508337	FortiManager cannot edit the following configurations for replacement message: system replacemsg mail "email-decompress-limit" system replacemsg mail "smtp-decompress-limit" system replacemsg nntp "email-decompress-limit"

Compatibility issues with FortiOS 5.4.9

Bug ID	Description
486592	FortiManager may report verification failure on the following attributes for RADIUS users: rso-endpoint-attribute rso-endpoint-block-attribute sso-attribute

Compatibility issues with FortiOS 5.4.8

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS 5.4.8.

Bug ID	Description
469700	FortiManager is missing three wtp-profiles: FAP221E, FAP222E, and FAP223E.

Compatibility issues with FortiOS 5.4.5

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS 5.4.5.

Bug ID	Description
434637	FortiGate <code>config ssd-trim-freq</code> causes FortiManager retrieval failure.
417581	AP Profile in AP Manager missing AP Country Code for TZ (Tanzania).

Compatibility issues with FortiOS 5.4.4

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS 5.4.4.

Bug ID	Description
407566	The <i>accesspoint-name</i> of an extended controller is lost when name contains more than thirty one characters.
407577	FortiManager should support the following syntax: <code>gui-domain-ip-reputation</code> and <code>auth-multi-group</code> .
407579	FortiManager should support the CLI, <code>ipsec-dec-subengine-mask</code> , on platforms that equip with the NP6 chipset.

Compatibility issues with FortiOS 5.2.10

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS 5.2.10.

Bug ID	Description
397220	FortiOS 5.2.10 increased the maximum number of the firewall schedule objects for 1U and 2U+ appliances. As a result, a retrieve may fail if more than the maximum objects are configured.

Compatibility issues with FortiOS 5.2.7

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS 5.2.7.

Bug ID	Description
365757	Retrieve may fail on LDAP User Group if object filter has more than 511 characters.
365766	Retrieve may fail when there are more than 50 portals within a VDOM.

Bug ID	Description
365782	Install may fail on system global optimize or system fips-cc entropy-token.

Compatibility issues with FortiOS 5.2.6

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS 5.2.6.

Bug ID	Description
308294	1) New default wtp-profile settings on FOS 5.2.6 cause verification errors during installation. 2) FortiManager only supports 10,000 firewall addresses while FortiOS 5.2.6 supports 20,000 firewall addresses.

Compatibility issues with FortiOS 5.2.1

The following table lists interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS version 5.2.1.

Bug ID	Description
262584	When creating a VDOM for the first time it fails.
263896	If it contains the certificate: <code>Fortinet_CA_SSLProxy</code> or <code>Fortinet_SSLProxy</code> , <code>retrieve</code> may not work as expected.

Compatibility issues with FortiOS 5.2.0

The following table lists known interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS version 5.2.0.

Bug ID	Description
262584	When creating a VDOM for the first time it fails.
263949	Installing a VIP with port forwarding and ICMP to a 5.2.0 FortiGate fails.

Compatibility issues with FortiOS 5.0.5

The following table lists known interoperability issues that have been identified with FortiManager version 5.2.1 and FortiOS version 5.0.5.

Bug ID	Description
230199	FortiManager allows the creation of a new FAP-320C WTP profile on a FortiOS 5.0.5 device causing the install to fail. FAP-320C is new for FortiOS 5.0.6.

Compatibility issues with FortiOS 5.0.4

The following table lists known interoperability issues that have been identified with FortiManager version 5.4.5 and FortiOS version 5.0.4.

Bug ID	Description
226064	Attempting to install time zones 79 and 80 fails. These time zones were added in FortiOS 5.0.5.
226078	When the password length is increased to 128 characters, the installation fails.
226098	When installing a new endpoint-control profile, installation verification fails due to default value changes in FortiOS 5.0.5.
226102	If DHCP server is disabled, installation fails due to syntax changes in FortiOS 5.0.5.
226203	Installation of address groups to some FortiGate models may fail due to table size changes. The address group table size was increased in FortiOS 5.0.5.
226236	The <code>set dedicated-management-cpu enable</code> and <code>set user-anonymize enable</code> CLI commands fail on device install. These commands were added in FortiOS 5.0.5.
230199	FortiManager allows the creation of a new FAP-320C WTP profile on a FortiOS 5.0.4 device causing the install to fail. FAP-320C is new for FortiOS 5.0.6.

Resolved Issues

The following issues have been fixed in 5.4.5. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Device Manager

Bug ID	Description
458825	Editing an <i>SD-SWAN Status Check</i> profile may not trigger a config status change.
371154	In a Policy package re-install, the device selections may change after users do a preview.
453391	Users may not be able to map an interface to a Zone if it has been mapped before.
458969	Selecting a Phase 1 in the <i>Phase 2 Configuration</i> page may reset other settings in this page.
471114	Users may not be able to create a new revision when <code>mas-revs</code> has been reached.
456751	FortiManager may enable log memory for 5.2.2 FOS devices.
456713	FortiManager may accept PSK with less than minimum number of characters.
467091	MTU settings in FortiExtender may be removed upon installation.
452460	Installation may fail if the username or password contains a backslash.
455541	<i>WAN Link Load Balance >Status Check Profiles</i> may not be configured.
458825	Changes in central SD-WAN status check profile may not trigger a config status change.
305141	The messages may be unclear when there are import errors during import policy.
459288	FortiManager may install <code>last-updated</code> for certificates thus causing installations to fail.

Global ADOM

Bug ID	Description
368643	<i>Find Unused Objects</i> and <i>Find Duplicate Objects</i> tools in Global ADOM may not work.
456046	If the Policy Package is in a folder, the Policy package status may not change to <i>Modified</i> after a global assignment.

Policy and Objects

Bug ID	Description
461200	UTM profiles may not be in the right click menu in the Policy List.
450711	Policy package installation may fail when using the <code>unset</code> and <code>reset for system resource-limits</code> .
455627	Users may not be able to create a Zone with multiple interfaces.
459000	When there is a large number of Policy Packages, the search function may freeze the browser.
371069	The Section View may be enabled when <i>any</i> is used as an interface in a policy.
406513	Newly added custom devices in a group may not be installed if they are only used in the <i>SSID Exempt List Device Group</i> .
410123	The authenticate method <i>Negotiate</i> may be missing in FortiManager GUI.
410239	Clicking on an entry in <i>where used results</i> may not highlight the policy.
411805	Search function may not work for Section Titles.
417358	In Policy Object page, the search result may be lost after users edit an object.
421016	In the pop-up Edit page for a Zone object, users can only select one interface for mapping.
436907	Section toggle status may not be remembered for Policy Package sections.
444883	After users collapse a section in Policy Package list, the focus may go up to the top.
452008	Renaming a section may only apply to the first one policy.
453187	The position indication number displayed in the bottom right may not be accurate.

Bug ID	Description
453293	If there are a large number of interface objects, the <i>Interface</i> page may not respond after users scroll up and down.
456155	Users may need to refresh the page to see the update if they try to copy a policy from a package and paste it to another.
457084	Changes in a firewall object may not trigger all of the referenced policies status to change to <i>Modified</i> .
459268	Copy and paste multiple firewall policies between policy packages may result in an unexpected reorder of the rules.
459272	Users may not be able to copy multiple firewall policies with multiple section titles.
459281	Search in Policy Package may yield UUID results even when the UUID column is hidden.
459644	Newly created firewall address from the right pane may replace a firewall address in the source address selection.
460136	Dragging an object under Dual Pane mode may put the object into a policy unexpectedly.
453371	After Object Selector is set to <i>Dock to Bottom</i> , the GUI may not be able to render policies upon a refresh.
464311	<i>Apply & Refresh</i> in FSSO may modify the device status of VDOMs in other ADOMs.
465924	In advanced ADOM mode, VDOMs in different ADOMs may block FSSO retrieval via FortiGate.
463139	FortiManager may not be able to retrieve FSSO users with username containing a backslash.
467781	Users may be unable to search using capital letters in a 5.2 ADOM in Explicit Proxy Policy Packages.
453744	FortiManager may accept a wildcard address for URL filters when the type is set to <i>Simple</i> .
468211	Custom IPS signatures with <code>--icmp.type</code> and <code>--weight</code> may not be accepted by FortiManager.
456748	Selecting a FortiGate device may not have all of its VDOMs selected in policy package install.
453942	Policy import may fail because of <code>server-cert</code> in the <code>ssl-ssh-profile</code> check.
456765	Users may not be able to add custom IPS signatures with <code>-dns.query_type</code> .

Script

Bug ID	Description
459030	Users may be allowed to modify <code>ha-mgmt-interface</code> via CLI script on device db.
417075	The <i>Cancel</i> button in the run script popup may be misleading.

Services

Bug ID	Description
458960	The FortiGuard license status for a device may be incorrect in FortiManager.

System Settings

Bug ID	Description
457906	<code>attributes</code> in LDAP admin settings may be ignored.

VPN Manager

Bug ID	Description
417232	Manually switching portal configurations in SSL-VPN settings may not re-create reference between device DB and ADOM portal object.
457093	SSL-VPN portal changes may not be installed to FortiGate.
460722	Changing portal mappings in SSL-VPN settings may not remove the reference of the policy package to the portal.
459924	VPN interfaces may not be shown in the drop down list in interface mapping if Zones are disabled in VPN manager.

Workplace and WorkFlow

Bug ID	Description
437663	Users may need to lock an object first to view it.
459520	When users are in workspace and dual pane mode, the GUI may not show the ADOM object list if the user did not lock the ADOM before they enter the <i>Policy & Objects</i> page.

Others

Bug ID	Description
457362	It may take longer than usual for users to switch between the Device page and the Policy Package page.
459290	Users may not be able to use the ENTER and ESC keys for <i>OK</i> and <i>Cancel</i> operations in the GUI.
458430	Using XML API to view a device configuration may take a long time.

Known Issues

The following issues have been identified in 5.4.5. For inquiries about a particular bug or to report a bug, please contact [Customer Service & Support](#).

AP Manager

Bug ID	Description
473000	FortiManager should be able to install wtp-profile band setting to 802.11n for a FortiGate-60D on device database.

Device Manager

Bug ID	Description
473970	Policy Package is in Conflict status after changed <code>active-auth-method</code> from basic to negotiate.

Policy & Objects

Bug ID	Description
469657	Drag and drop policy can be moved outside the visible area.
472825	Web Filter profile cannot be changed in Explicit Proxy Policy when profile name has a plus + sign.
473104	FortiManager may not install all TCP or UDP ports to FortiGate when there are many entries.

Revision History

Bug ID	Description
471187	FortiManager returns a validation error due to multiple forward domains on source or destination Interface.

Script

Bug ID	Description
473173	Script execution may hang at 70% and the <code>dmserver</code> stops working.
474309	Running script on device database to add a new VDOM may fail with <code>dmworker</code> crash.

System Settings

Bug ID	Description
467731	All ADOMs information page is very slow to scroll after upgrading FortiManager.

Others

Bug ID	Description
481694	Incorrect unregistered device count.

FortiGuard Distribution Servers (FDS)

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

- 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 via 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/version:

Platform	Version	Antivirus	AntiSpam	Vulnerability Scan	Software
FortiClient (Windows)	<ul style="list-style-type: none">• 5.0.0 and later• 5.2.0 and later• 5.4.0 and later• 5.6.0 and later	✓		✓	
FortiClient (Windows)	<ul style="list-style-type: none">• 4.3.0 and later	✓			
FortiClient (Windows)	<ul style="list-style-type: none">• 4.2.0 and later	✓	✓		✓
FortiClient (Mac OS X)	<ul style="list-style-type: none">• 5.0.1 and later• 5.2.0 and later	✓		✓	
FortiMail	<ul style="list-style-type: none">• 4.2.0 and later• 4.3.0 and later• 5.0.0 and later• 5.1.0 and later• 5.2.0 and later• 5.3.7 to 5.3.9	✓	✓		

Platform	Version	Antivirus	AntiSpam	Vulnerability Scan	Software
FortiSandbox	<ul style="list-style-type: none">• 1.2.0, 1.2.3• 1.3.0• 1.4.0 and later• 2.1.2• 2.2.1• 2.3.2	✓			
FortiWeb	<ul style="list-style-type: none">• 5.0.6• 5.1.4• 5.2.0 and later• 5.3.0• 5.4.1• 5.5.4• 5.6.0• 5.8.0	✓			



To enable FortiGuard Center updates for FortiMail version 4.2 enter the following CLI command:

```
config fmupdate support-pre-fgt-43
  set status enable
end
```



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