



FortiManager - Release Notes

Version 6.0.3



FORTINET DOCUMENT LIBRARY

https://docs.fortinet.com

FORTINET VIDEO GUIDE

https://video.fortinet.com

FORTINET BLOG

https://blog.fortinet.com

CUSTOMER SERVICE & SUPPORT

https://support.fortinet.com

FORTINET TRAINING & CERTIFICATION PROGRAM

https://www.fortinet.com/support-and-training/training.html

NSE INSTITUTE

https://training.fortinet.com

FORTIGUARD CENTER

https://fortiguard.com/

END USER LICENSE AGREEMENT

https://www.fortinet.com/doc/legal/EULA.pdf

FEEDBACK

Email: techdoc@fortinet.com



September 17, 2019 FortiManager 6.0.3 Release Notes 02-603-519402-20190917

TABLE OF CONTENTS

FortiManager 6.0.3 Release	5
Supported models	5
What's new in FortiManager 6.0.3	6
System Settings	
Special Notices	7
Managing FortiGate with VDOMs that use Global Profiles	7
IOC Support on FortiManager	
FortiManager 6.0.2 support for FortiOS 6.0.3	
Reconfigure SD-WAN after Upgrade	
FortiGate VM 16/32/UL license support	8
Hyper-V FortiManager-VM running on an AMD CPU	
VM License (VM-10K-UG) Support	
Recreate Guest List for Guest user group	
FortiOS 5.4.0 Support	
SSLv3 on FortiManager-VM64-AWS	
Upgrade Information	10
Downgrading to previous firmware versions	10
Firmware image checksums	10
FortiManager VM firmware	10
SNMP MIB files	
Product Integration and Support	13
FortiManager 6.0.3 support	
Feature support	
Language support	
Supported models	
FortiGate models	
FortiCarrier models	20
FortiDDoS models	
FortiAnalyzer models	
FortiMail models	
FortiSandbox models FortiSwitch ATCA models	
FortiSwitch models	
FortiWeb models	
FortiCache models	
FortiProxy models	
FortiAuthenticator models	
Compatibility with FortiOS Versions	26
FortiOS 5.6.4 compatibility issues	
FortiOS 5.6.3 compatibility issues	26
FortiOS 5.6.0 and 5.6.1 compatibility issues	
FortiOS 5.4.10 compatibility issues	27

FortiOS 5.4.9 compatibility issues	27
FortiOS 5.2.10 compatibility issues	28
FortiOS 5.2.7 compatibility issues	28
FortiOS 5.2.6 compatibility issues	
FortiOS 5.2.1 compatibility issues	28
FortiOS 5.2.0 compatibility issues	29
Resolved Issues	30
Known Issues	33
Appendix A - FortiGuard Distribution Servers (FDS)	34
FortiGuard Center update support	34
Change Log	36

FortiManager 6.0.3 Release

This document provides information about FortiManager version 6.0.3 build 255.



The recommended minimum screen resolution for the FortiManager GUI is 1280 x 800. Please adjust the screen resolution accordingly. Otherwise, the GUI may not display properly.

This section includes the following topics:

- Supported models on page 5
- What's new in FortiManager 6.0.3 on page 6

Supported models

FortiManager version 6.0.3 supports the following models:

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

What's new in FortiManager 6.0.3

The following is a list of new features and enhancements in 6.0.3. For details, see the *FortiManager Administrator Guide*:



Not all features/enhancements listed below are supported on all models

System Settings

Admin Profile - Device Lock and Permission improvement

Change to Admin Profile to allow granular permissions to be assigned per Device and Policy Package with ADOM unlocked, allowing administrators to execute scripts on the Devices & Policy Packages.

Special Notices

This section highlights some of the operational changes that administrators should be aware of in 6.0.3.

Managing FortiGate with VDOMs that use Global Profiles

FortiManager managing FortiGates with VDOMs enabled and running FortiOS 6.0.0 or later is unable to import global ADOM objects from FortiGate devices. Before adding the FortiGate units to FortiManager, perform the following steps to unset the global ADOM objects. After the default configurations are unset, you can successfully add the FortiGate units to FortiManager.

1. On the Fortigate for each VDOM, unset the following global ADOM objects by using the CLI:

```
config wireless-controller utm-profile
    edit "wifi-default"
       set comment "Default configuration for offloading WiFi traffic."
   next
    edit "q-wifi-default"
        set comment "Default configuration for offloading WiFi traffic."
        set ips-sensor "g-wifi-default"
        set application-list "g-wifi-default"
        set antivirus-profile "g-wifi-default"
        set webfilter-profile "g-wifi-default"
        set firewall-profile-protocol-options "g-wifi-default"
        set firewall-ssl-ssh-profile "g-wifi-default"
    next
end
FGVMULCV30310000 (utm-profile) # ed g-wifi-default
FGVMULCV30310000 (g-wifi-default) # sh
config wireless-controller utm-profile
   edit "q-wifi-default"
       set comment "Default configuration for offloading WiFi traffic."
   next
end
```

2. After the global ADOM objects are unset, you can add the FortiGate unit to FortiManager.

IOC Support on FortiManager

Please note that FortiManager does not support IOC related features even when FortiAnalyzer mode is enabled.

Special Notices 8

FortiManager 6.0.2 support for FortiOS 6.0.3

FortiManager 6.0.2 treats the status field of firewall policies as a mandatory field, and it is set to enable by default. FortiOS 6.0.3 has reverted this change. As a result, FortiManager may report verification failures on installations. The verification report shows that the policy status field has to be installed with the enable setting:

```
"---> generating verification report
  (vdom root: firewall policy 1:status)
  remote original:
  to be installed: enable
<--- done generating verification report
install failed"</pre>
```

Reconfigure SD-WAN after Upgrade

The SD-WAN module has been fully redesigned in FortiManager v6.0 to provide granular monitor and control. Upgrading SD-WAN settings from 5.6 to 6.0 is not supported. Please reconfigure SD-WAN after upgraded to v6.0.

FortiGate VM 16/32/UL license support

FortiOS 5.4.4 introduces new VM license types to support additional vCPUs. FortiManager 5.6.0 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.

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 or later before applying the new license to avoid benign GUI issues.

Special Notices 9

Recreate Guest List for Guest user group

After upgrading to FortiManager 6.0.3, recreate the guest list for the *Guest* user group in ADOM Policy Object before installing device settings to FortiGate devices. For more information, see Bug ID 499568 in *Resolved Issues*.

FortiOS 5.4.0 Support

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



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

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 t1sv1
end

Upgrade Information

You can upgrade FortiManager 5.6.0 or later directly to 6.0.3. If you are upgrading from versions earlier than 5.6.x, you should upgrade to the latest patch version of FortiManager 5.6, then 6.0.0.



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

This section contains the following topics:

- Downgrading to previous firmware versions on page 10
- Firmware image checksums on page 10
- FortiManager VM firmware on page 10
- SNMP MIB files on page 12

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}
```

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*.

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.

Upgrade Information 11

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 GCP

- 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 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.

Upgrade Information 12



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.

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 6.0.3 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:

- FortiManager 6.0.3 support on page 13
- Feature support on page 16
- · Language support on page 16
- Supported models on page 17

FortiManager 6.0.3 support

The following table lists 6.0.3 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 61 Google Chrome version 68 Other web browsers may function correctly, but are not supported by Fortinet.
FortiOS/FortiOS Carrier	 6.0.0 to 6.0.3 5.6.5 to 5.6.6 5.6.4 FortiManager 5.6.3 is fully tested as compatible with FortiOS/FortiOS Carrier 5.6.4, with some minor interoperability issues. For information, see FortiOS 5.6.4 compatibility issues on page 26. 5.6.2 to 5.6.3 FortiManager 5.6.1 is fully tested as compatible with FortiOS/FortiOS Carrier 5.6.2 to 5.6.3, with some minor interoperability issues. For information, see FortiOS 5.6.3 compatibility issues on page 26. 5.6.0 to 5.6.1 FortiManager 5.6.0 is fully tested as compatible with FortiOS/FortiOS Carrier 5.6.0 to 5.6.1, with some minor interoperability issues. For information, see FortiOS 5.6.0 and 5.6.1 compatibility issues on page 27. 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 FortiOS 5.4.10 compatibility issues on page 27. 5.4.9

FortiManager 5.6.3 is fully tested as compatible with FortiOS/FortiOS Carrier 5.4.9, with some minor interoperability issues. For information, see FortiOS 5.4.9 compatibility issues on page 27.

- 5.4.1 to 5.4.8
- 5.2.8 to 5.2.13

FortiManager 5.4.1 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.10, with some minor interoperability issues. For information, see FortiOS 5.2.10 compatibility issues on page 28.

• 5.2.7

FortiManager 5.2.6 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.7, with some minor interoperability issues. For information, see FortiOS 5.2.7 compatibility issues on page 28.

• 5.2.6

FortiManager 5.2.4 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.6, with some minor interoperability issues. For information, see FortiOS 5.2.6 compatibility issues on page 28.

- 5.2.2 to 5.2.5
- 5.2.1

FortiManager 5.2.1 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.1, with some minor interoperability issues. For information, see FortiOS 5.2.1 compatibility issues on page 28.

• 5.2.0

FortiManager 5.2.1 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.0, with some minor interoperability issues .For information, see FortiOS 5.2.0 compatibility issues on page 29.

FortiAnalyzer

- 6.0.0 and later
- 5.6.0 and later
- 5.4.0 and later
- 5.2.0 and later
- 5.0.0 and later

FortiAuthenticator

- 5.0 to 5.3
- 4.0 to 4.3

FortiCache

- 4.2.7
- 4.2.6
- 4.1.2
- 4.0.0 to 4.0.4

FortiClient

- 5.6.6
- 5.6.3
- 5.6.0
- 5.4.0 and later
- 5.2.0 and later

FortiMail

- 5.4.5
- 5.3.12
- 5.2.10

	5.1.75.0.10
FortiSandbox	 2.5.0 to 2.5.2 2.4.0 and 2.4.1 2.3.2 and 2.3.3 2.2.2 2.1.3 1.4.0 and later 1.3.0 1.2.0 and later
FortiSwitch ATCA	5.2.35.0.0 and later4.3.0 and later4.2.0 and later
FortiWeb	 6.0.1 5.9.1 5.8.6 5.8.3 5.8.1 5.8.0 5.7.2 5.6.1 5.5.6 5.4.1 5.3.9 5.2.4 5.1.4 5.0.6
FortiDDoS	 4.5.0 4.4.1 4.2.3 4.1.11 Limited support. For more information, see Feature support on page 16.
Virtualization	 Amazon Web Service AMI, Amazon EC2, Amazon EBS Citrix XenServer 7.2 Linux KVM Redhat 7.1 Microsoft Azure Microsoft Hyper-V Server 2012 and 2016 OpenSource XenServer 4.2.5 VMware ESXi versions 5.0, 5.5, 6.0, 6.5 and 6.7



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			✓	✓
FortiAuthenticator			✓	✓
FortiCache			✓	✓
FortiClient		✓	✓	✓
FortiDDoS			✓	✓
FortiMail		✓	✓	✓
FortiSandbox		✓	✓	✓
FortiSwitch ATCA	✓			
FortiWeb		✓	✓	✓
Syslog				✓

Language support

The following table lists FortiManager language support information.

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

Language	GUI	Reports
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 *FortiAnalyzer 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 6.0.3.



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 18
- FortiCarrier models on page 20
- FortiDDoS models on page 21
- FortiAnalyzer models on page 21
- FortiMail models on page 22
- FortiSandbox models on page 23
- FortiSwitch ATCA models on page 23
- FortiSwitch models on page 23
- · FortiWeb models on page 24
- FortiCache models on page 25
- FortiProxy models on page 25
- FortiAuthenticator models on page 25

FortiGate models

Model	Firmware Version
FortiGate: FG-30D, FG-30D-POE, FG-30E, FG-30E-3G4G-INTL, FG-30E-3G4G-NAM, FG50E, FG-51E, FG-52E, FG-60D, FG-60D-POE, FG-60E, FG-60E-POE, FG-61E, FG-70D, FG-70D-POE, FG-80D, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90D-POE, FG-90D, FG-90E, FG-91E, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-100E, FG-100E, FG-101E, FG-140D, FG-140D-POE, FG-140E, FG-140E-POE, FG200D, FG-200D-POE, FG-200E, FG-201E, FG-240D, FG-240-POE, FG-280D-POE, FG300D, FG-300E, FG-301E, FG-400D, FG-500D, FG-500E, FG-501E, FG-600D, FG-800D, FG-900D, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E FortiGate 5000 Series: FG-5001D, FG-5001E, FG-5001E1 FortiGate DC: FG1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3700D-DC, FG-3800D-DC, FG-381DD-DC, FG-3815D-DC FortiGate Hardware Low Encryption: FG-100D-LENC, FG-600C-LENC Note: All license-based LENC is supported based on the FortiGate support list. FortiWiFi: FWF-30D, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E, FWF-61E, FWF-90D, FWF-90D-POE, FWF-92D FortiGate VM: FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-AZUREONDEMAND, FG-VM64-AZUREONDEMAND, FG-VM64-AZURE, FG-VM64-GCP, VM64-GCPONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-XEN, FG-VMX-Service-Manager, FOS-VM64, FOS-VM64-KVM, FOS-VM64-Xen	6.0
FortiGate Rugged: FGR-30D, FGR-35D, FGR-60D, FGR-90D	
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-POE, FG-60E-DSL, 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-140D-POE, FG-140E, FG-140E-POE, FG-200D, FG-200D-POE, FG-200E, FG-201E, FG-240D, FG-240-POE, FG-280D-POE, FG-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-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3800D, FG-3815D, FG-3960E, FG-3980E,	5.6
FortiGate 5000 Series: FG-5001C, FG-5001D, FG-5001E, FG-5001E1	
FortiGate DC: FG-80C-DC, FG-600C-DC, FG-800C-DC, FG-800D-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-3815D-DC	
FortiGate Hardware Low Encryption: FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC	
Note: All license-based LENC is supported based on the FortiGate support list.	

5.4

Model Firmware Version

FortiWiFi: FWF-30D, FWF-30D-POE, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D

FortiGate VM: FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-Azure, FG-VM64-AZUREONDEMAND, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-XEN, FG-VMX-Service-Manager, FOSVM64, FOSVM64-KVM, FOS-VM64-Xen

FortiGate Rugged: FGR-30D, FGR-35D, FGR-60D, FGR-90D

FortiGate: FG-30D, FG-30D-POE, FG-30E, 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-140D-POE, FG-140E, FG-140-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-200E, FG-201E, FGT-300D, FGT-300E, FGT-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-300D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG 3800D, FG-3810D, FG-3815D, FG-3960E, FG3980E, FG-2000E, FG-2500E

FortiGate 5000 Series: FG-5001C, FG-5001D, FG-5001E, FG-5001E1 **FortiGate 6000 Series:** FG-6300F, FG-6301F, FG-6500F, FG-6501F

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

FortiGate DC: FG-80C-DC, FG-600C-DC, FG-800C-DC, FG-800D-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-3815DC

FortiGate Hardware Low Encryption: FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC

Note: All license-based LENC is supported based on the FortiGate support list.

FortiWiFi: FWF-30D, FWF-30D-POE, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E-DSL, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D

FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-XEN, FG-VMX-Service-Manager, FOS-VM64, FOS-VM64-KVM

FortiGate Rugged: FGR-30D, FGR-30D-ADSL-A, FGR-35D, FGR-60D, FGR-90D

Model	Firmware Version
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-311B, FG-400D, FG-500D, FG-600C, FG-600D, FG-620B, FG-621B, FG-800C, FG-800D, FG-900D, FG-1000C, FG-1000D, 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-3810D, FG-3815D, FG-3950B, FG-3951B	5.2
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	
FortiGate DC: FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-800D-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-3951B-DC	
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	
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	
FortiGate Rugged: FGR-60D, FGR-100C	
FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWSONDEMAND, FG-VM-Azure, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN	
FortiSwitch: FS-5203B, FCT-5902D	

FortiCarrier models

Model	Firmware Version
FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3700D, FGT-3800D, FGT-3810D, FGT-3960E, FGT-3980E, FGT-5001D, FGT-5001E	6.0
FortiCarrier-DC: FGT-3000D-DC, FGT-3100D-DC, FGT-3200D-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC, FGT-3960E-DC, FGT-3980E-DC	
FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-Azure, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-Xen	
FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FGT-3700D, FGT-3700DX, FGT-3800D, FGT-3810D, FGT-3960E, FGT-3980E, FGT-5001C, FGT-5001D, FGT-5001E	5.6

Model	Firmware Version
FortiCarrier-DC : FGT-3000D-DC, FGC-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC, FGT-3960E-DC, FGT-3980E-DC	
FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWS-AWSONDEMAND, FG-VM64-Azure, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-Xen	
FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FGT-3700D, FGT-3700DX, FGT-3800D, FGT-3810D, FGT-5001C, FGT-5001D, FGT-7030E, FGT-7040E	5.4
FortiCarrier-DC: FGT-3000D-DC, FGC-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC	
FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWS-AWSONDEMAND, FG-VM64-Azure, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-Xen	
FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FGT-3700D, FGT-3700DX, , FGT-3810A, FGT-3810D, FGT-3950B, FGT-3951B, FGT-5100B, FGT-5100C, FGT-5001D, FGT-5101C, FS-5203B, FT-5902D	5.2
FortiCarrier-DC: FGT-3000D-DC, FGT-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3810A-DC, FGT-3810D-DC, FGT-3950B-DC, FGT-3951B-DC	
FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWS-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-Xen	

FortiDDoS models

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

FortiAnalyzer models

Model	Firmware Version
FortiAnalyzer: FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-200 FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E.	00B, 5.6
FortiAnalyzer VM: FAZ-VM64, FAZ-VM64-AWS, FMG-VM64-Azure, FAZ-VM64-HV VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).	/, FAZ-

Model	Firmware Version
FortiAnalyzer: FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3500E, and FAZ-4000B.	5.4
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.	
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 FortiAnalyzer VM: FAZ-VM, FAZ-VM-AWS, FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV,	5.2
FAZ-VM64-KVM, FAZ-VM64-XEN	
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-3500E, FAZ-3500F, FAZ-4000A, FAZ-4000B FortiAnalyzer VM: FAZ-VM, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM-KVM, FAZ-VM-XEN	5.0

FortiMail models

Model	Firmware Version
FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000E, FE-3200E FortiMail Low Encryption: FE-3000C-LENC	5.4.5
FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000D, FE-3000E, FE-3000E, FE-5002B FortiMail Low Encryption: FE-3000C-LENC FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN	5.3.12
FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN	5.2.10
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 FortiMail VM: FE-VM64	5.1.7
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 FortiMail VM: FE-VM64	5.0.10

FortiSandbox models

Model	Firmware Version
FortiSandbox: FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D FortiSandbox VM: FSA-KVM, FSA-VM	2.5.2
FortiSandbox: FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D FortiSandbox VM: FSA-VM	2.4.1 2.3.3
FortiSandbox: FSA-1000D, FSA-3000D, FSA-3500D FortiSandbox VM: FSA-VM	2.2.0 2.1.3
FortiSandbox: FSA-1000D, FSA-3000D FortiSandbox VM: FSA-VM	2.0.3 1.4.2
FortiSandbox: FSA-1000D, FSA-3000D	1.4.0 and 1.4.1 1.3.0 1.2.0 and later

FortiSwitch ATCA models

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

FortiSwitch models

Model	Firmware Version
FortiSwitch: FortiSwitch-108D-POE, FortiSwitch-108D-VM, FortiSwitch-108E, FortiSwitch-108E-POE, FortiSwitch-108E-POE, FortiSwitchRugged-112D-POE, FortiSwitch-124D, FortiSwitch-124D-POE, FortiSwitchRugged-124D, FortiSwitch-124E, FortiSwitch-124E-POE, FortiSwitch-124E-POE, FortiSwitch-224D-POE, FortiSwitch-224D-POE, FortiSwitch-224E-POE, FortiSwitch-224E-POE, FortiSwitch-248D-POE, FortiSwitch-248D-POE, FortiSwitch-248D-POE, FortiSwitch-248E-POE, FortiSwitch-248E-POE, FortiSwitch-424D-POE, FortiSwitch-424D-POE, FortiSwitch-424D-POE, FortiSwitch-424D-POE, FortiSwitch-524D, FortiSwitch-524D-FPOE, FortiSwitch-548D, FortiSwitch-548D, FortiSwitch-548D, FortiSwitch-1024D, FortiSwitch-1048D, FortiSwitch-1048E, FortiSwitch-3032D, FortiSwitch-3632D	supports it,

FortiWeb models

Model	Firmware Version
FortiWeb: FWB-100D, FWB-400C, FWB-400D, FWB-600D, FWB-1000D, FWB-1000E, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E FortiWeb VM: FWB-VM, FWB-HYPERV, FWB-XENOPEN, FWB-XENSERVER	6.0.1
FortiWeb: FWB-1000D, FWB-1000E, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-4000C, FWB-400D, FWB-600D FortiWeb VM: FWB-Azure, FWB-CMINTF, FWB-HYPERV, FWB-KVM, FWB-KVM-PAYG, FWB-VM, FWB-VM-PAYG, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.9.1
FortiWeb: FWB-1000C, FWB-1000D, FWB-1000E, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400D, FWB-600D FortiWeb VM: FWB-Azure, FWB-Azure-Ondemand, FWB-CMINTF, FWB-HYPERV, FWB-KVM, FWB-KVM-PAYG, FWB-VM-PAYG, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.8.6
FortiWeb: FWB-1000C, FWB-1000D, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400C, FWB-400D, FWB-600D FortiWeb VM: FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-OS1, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.7.2
FortiWeb: FWB-1000C, FWB-1000D, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400C, FWB-400D, FWB-600D FortiWeb VM: FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.6.1
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-XENSERVER, FWB-	5.5.6
HYPERV, FWB-KVM, FWB-AZURE FortiWeb: FWB-100D, FWB-400C, FWB-1000C, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E	5.4.1
FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVER, FWB-HYPERV	

Model	Firmware Version
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	5.3.9
$\textbf{FortiWeb VM:} \ FWB\text{-VM64}, \ FWB\text{-XENAWS}, \ FWB\text{-XENOPEN}, \ FWB\text{-XENSERVER}, \ and \\ FWB\text{-HYPERV}$	
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	5.2.4
FortiWeb VM: FWB-VM64, FWB-HYPERV, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVER	

FortiCache models

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

FortiProxy models

Model	Firmware Version
FortiProxy: FPX-400E, FPX-2000E	1.0
FortiProxy VM: FPX-KVM, FPX-VM64	

FortiAuthenticator models

Model	Firmware Version
FortiAuthenticator: FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000B, FAC-3000D, FAC-3000E FortiAuthenticator VM: FAC-VM	4.3 and 5.0-5.3
FortiAuthenticator: FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-1000C, FAC-1000D, FAC-3000B, FAC-3000D, FAC-3000E FortiAuthenticator VM: FAC-VM	4.0-4.2

Compatibility with FortiOS Versions

This section highlights compatibility issues that administrators should be aware of in FortiManager 6.0.3. Compatibility issues have been identified for the following FortiOS releases:

FortiOS 5.6	FortiOS 5.6.4 compatibility issues on page 26
	FortiOS 5.6.3 compatibility issues on page 26
	FortiOS 5.6.0 and 5.6.1 compatibility issues on page 27
FortiOS 5.4	FortiOS 5.4.10 compatibility issues on page 27
	FortiOS 5.4.9 compatibility issues on page 27
FortiOS 5.2	FortiOS 5.2.10 compatibility issues on page 28
	FortiOS 5.2.7 compatibility issues on page 28
	FortiOS 5.2.6 compatibility issues on page 28
	FortiOS 5.2.1 compatibility issues on page 28
	FortiOS 5.2.0 compatibility issues on page 29

FortiOS 5.6.4 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.6.3 and FortiOS 5.6.4.

Bug ID	Description
486921	 FortiManager may not be able to support the syntax for the following objects: rsso-endpoint-block-attribute, rsso-endpoint-block-attribute, or sso-attribute for RADIUS users. sdn and its filter attributes for firewall address objects. azure SDN connector type. ca-cert attribute for LDAP users.

FortiOS 5.6.3 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.6.1 and FortiOS 5.6.3.

Bug ID	Description
469993	FortiManager has a different default value for switch-controller-dhcp-snooping from that on FortiGate.

FortiOS 5.6.0 and 5.6.1 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.6.0 and FortiOS 5.6.0 and 5.6.1.

Bug ID	Description
451036	FortiManager may return verification error on proxy enable when installing a policy package.
460639	FortiManager may return verification error on wtp-profile when creating a new VDOM.

FortiOS 5.4.10 compatibility issues

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

FortiOS 5.4.9 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.6.3 and FortiOS 5.4.9.

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

FortiOS 5.2.10 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.4.1 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.

FortiOS 5.2.7 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.2.6 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.
365782	Install may fail on system global optimize or system fips-cc entropy-token.

FortiOS 5.2.6 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.2.4 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.

FortiOS 5.2.1 compatibility issues

The following table lists interoperability issues that have been identified with FortiManager version 5.2.1 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: Fortinet_CA_SSLProxy or Fortinet_SSLProxy, retrieve may not work as expected.

FortiOS 5.2.0 compatibility issues

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

Resolved Issues

The following issues have been fixed in 6.0.3. For inquires about a particular bug, please contact Customer Service & Support.

Bug ID	Description
304522	Wildcard admin is unable to approve a workflow session.
413390	FGFM connection flapping when FortiGate is moved to another ADOM.
423921	Cannot get CSF group name.
434984	Unable to create/edit/delete ADOMs when system setting is read only.
439512	FortiManager attempts to delete user groups that are used only under system admin, if not defined in the management VDOM.
450434	The "wtp-mode" option is unset after change of AP config from AP Manager.
451684	List all conflicting Global assigned objects in Import Wizard and report.
453417	Import of PKCS #12 local certificate failed.
474629	When Security Profile Groups are created on FortiManager, all Security Profile Groups are pushed to all FortiGate units on next policy push.
480400	Device Manager > System Information does not display correct FortiGate system time.
481901	Add a CLI command to reset hitcount for all ADOMs and dbcache.
485859	Should remove Botnet from Application Control for 5.6/6.0 ADOMs.
491926	Rename ADOM interface during Import Policy may fail to add policy.
492893	Installing custom IPS and <i>AppCtI</i> signatures with the same Attack ID will fail installation or not function correctly on FortiGate.
494108	When adding an interface to a zone, the Block intra-zone traffic option is unset.
494253	Some service objects are not visible in GUI of specific ADOMs when backend has invalid service config.
499053	Wrong interface-pair view for Proxy Policy.
499066	Can't verify PKI admin client certificate, if the CA chain has more than 2 certificates.
499341	A new LDAP admin user with GUI access is using an admin profile of a previously created LDAP admin user.
499568	Missing Guest Management support in FortiManager Policy & Objects tab.
500480	After editing an address that is used in an address group, the status did not change for 'Policy Package Status'.
501096	Policy package status of all devices going in Modified state when policy package is imported for

Resolved Issues 31

Bug ID	Description
	new devices.
501467	Application fgdsvr crashes several times per day - parseFragment: url index out of range.
501485	ADOM upgrade from 5.4 to 5.6 tries to change 'Web Filter Local Category' ID from 179 to 192.
501195	Upgrading FGT-60D by FortiManager sometimes fails due to the firmware image transfer stopping.
503072	Application crond crashes are caused by hitcount updates.
504394	AP Manager - WiFi profile FAP221E does not display RADIO 2 option.
504422	Install verification fails after FortiGate HA failover due to vdom-link macaddr mismatch.
504541	Page is not loading properly for AP profiles under AP Manager in 5.2 ADOM.
504636	Some address objects are not visible in GUI of specific ADOMs when backend has invalid address config.
504999	Install SD-WAN static route to FortiGate failed.
505004	Columns overlap in policy list page.
505276	VPN Monitor stuck loading for 5.2/5.4 ADOMs.
507075	Upgrade of ADOM 'root' from 5.6 to 6.0 hangs and crashes svc cdb reader.
507092	FortiManager cannot show 1 ADOM interface page when interface dynamic mapping is missing device information.
507300	FortiManager should not download the FortiGate delta package from FortiGuard.
507394	FortiManager displays the "Error:response with errors" error when creating a new script that is over the tablesize limit.
507628	After successful installation, device config status may show as out of sync or modified or conflict
507919	Need to import firewall internet-service-custom, although it is not directly used by firewall policy.
508810	Administrative Distance is missing for Static Route with Destination type Named Address.
509173	Policy package installation for root ADOM fails after upgrading from 5.4.5 to 5.6.4.
509185	FortiManager installs default certificate instead of dynamically mapped certificate that is used in dynamically mapped virtual server.
509769	5.4 ADOM cannot assign profile to FAP221.
509854	If firewall address groups are recursively defined (for example, its member contains itself), this causes the security console to crash.
510641	Edit policy and click OK. The table scrolls back to top.
510910	When a new object is created from an IPv4 policy, the previous content of the related field is cleared.
510929	GUI Import wizard should display "Renamed Objects" before importing objects.

Resolved Issues 32

Bug ID	Description
510936	Adding a new device to address object dynamic mapping sets the interface to 'any' for previous associated devices.
511170	FortiAnalyzer/Fortimanager cannot sync with some NTP servers.
511753	SNMP event power-supply-failure is missing for some devices.
512350	system.ha.hbdev will not always save. This is applicable to CLI only.
513243	On the device level interface config page, the allow access config cannot disable HTTP.
513255	GUI slowness is caused by viewing, editing, or cloning IPsec phase1/phase2 in Device Manager.
514300	The log FortiAnalyzer filter setting cannot be retrieved or configured on FortiManager.
516789	Fabric Connector for VMWare NSX not importing any object and displays error message 'Internal Error' for NSX version 6.3.3.
516889	FortiManager will use FortiGuard update for FortiGate certificate bundle support.
517204	Add/Retrieve fails with "data not exist" if "external-resource" category is used in "ftgd-dns filters" in DNS filter.
517235	Device Manager System DHCP Server Lease Time changes not editable via GUI.
517243	Refreshing "Policy & Objects" pane clears the "Last Modified" tab on the policies.
517533	Cannot specify more than one DNS server in AP Manager SSID profile.
518668	Inconsistent user-database options when configuring a local Authentication Scheme.
519188	RADIUS VSA attributes can be used to gain read-write access to all ADOMs.
519206	Web Server Error 500 when trying to filter device Session List.

Known Issues

The following issues have been identified in 6.0.3. For inquires about a particular bug or to report a bug, please contact Customer Service & Support.

Bug ID	Description
478257	VPN Manager should filter out invalid interfaces for the default VPN interface.
501202	AP Manager Wifi profiles missing LAN ports configuration settings on FortiManager GUI.
507629	Clicking the Cancel button in the Install wizard causes task errors.
510625	FortiOS-VM traffic drop when Invalid Response received from FortiManager during license check.
510663	Despite the FDS proxy settings, FortiManager is attempting to connect directly to the productapi.fortinet.com.
517232	Invalid Source/Destination "Negate Cell" option for certain policy types and missing "Negate Cell" for IPv4 policy source address.
518680	IP Pool not imported due to error create mapping fail related to "arp-intf" which is a members of a zone setting in ippool.
519108	Scheduled Remote CLI Scripts are struck at 1%.
520899	When editing the Address Group Dynamic mapping configuration entry for the second time, the GUI will show an empty member list. Close the address group configuration page and re-edit the mapping entry as a first time edit.
522310	B255: Unable to edit Global ADOM DB to change global version from GUI.
523156	GUI failed to create or edit SSL VPN portal profile in 5.2, 5.4, and 5.6 ADOMs.

Appendix A - 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	WebFilter	Vulnerability Scan	Software
FortiClient (Windows)	• 6.0.0 and later	✓	✓	✓	✓
FortiClient (Windows)	5.6.0 and later5.4.0 and later	✓		1	
FortiClient (Mac OS X)	6.0.0 and later5.6.0 and later5.4.0 and later	✓		✓	
FortiMail	5.4.55.4.24.3.74.2.95.1.6	√			
FortiSandbox	 2.5.0, 2.5.1 2.4.0, 2.4.1 2.3.2 2.2.1 2.1.2 1.4.0 and later 1.3.0 1.2.0, 1.2.3 				
FortiWeb	• 5.9.0	✓			

Platform	Version	Antivirus	WebFilter	Vulnerability Scan	Software
	 5.8.6 5.6.0 5.5.4 5.4.1 5.3.8 5.2.4 5.1.4 5.0.6 				



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

Change Log

Date	Change Description
2018-11-02	Initial release of 6.0.3.
2018-11-07	Added FMG-VM64-GCP to Supported Models.
2018-11-09	Resolved issues added (423921, 512350). Special notice added for Resolved Issue 499568 in the Special Notices section. Known Issue added (523156).
2018-11-13	Added a Known Issue (520899).
2018-11-21	Updated to fix issue with checkmark symbol in tables.
2018-12-17	Added Known Issue 510625.
2019-01-11	Updated Special Notices and Product Integration.
2019-01-29	Added 501195 to Resolved Issues.
2019-09-17	Added a special notice.





Copyright© 2019 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiGate®, and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.