



FortiManager v5.0.9 Release Notes



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Table of Contents

Change Log	5
Introduction	6
Supported models	6
Special Notices	7
Amazon Web Services.....	7
Monitor upgrade process	7
ADOM upgrade.....	7
CLI commands for configuring dynamic objects.....	8
FortiManager VM	8
Unregistered device table.....	9
FortiAnalyzer feature set.....	9
FortiGate firmware upgrade.....	9
System time on FortiManager VM (VMware).....	9
Memory requirement for FortiManager VM64 (Hyper-V)	10
ADOM for FortiCarrier	10
FortiOS version 5.0 override server setting for FortiGuard Services	10
Example 1: Antivirus/IPS.....	11
Example 2: Web filtering/Antispam.....	11
Update services provided to FortiMail version 4.2 devices.....	11
Endpoint management.....	11
FortiManager VM license check	12
Multi-language display support	12
New hard disk drive partition layout	12
Importing a FortiManager generated policy.....	12
Importing profile group and RADIUS dynamic start server	12
Push update in bi-directional static NAT	13
Upgrade Information	14
Upgrading from FortiManager version 5.0.6 or later	14
Upgrading from FortiManager version 5.0.5 or earlier.....	14
Downgrading to previous firmware versions	14
FortiManager VM firmware	14
Firmware image checksums	15
SNMP MIB Files.....	15
Product Integration and Support	16
FortiManager v5.0.9 support	16
Feature support	17

Language support.....	18
Supported models	19
Compatibility with FortiOS Versions.....	26
Resolved Issues.....	28
Known Issues.....	29
Appendix A: FortiGuard.....	30
FortiGuard Distribution Servers (FDS) and services	30
FortiGuard Center update support	30

Change Log

Date	Change Description
2014-10-23	Initial release.
2014-12-19	Added FMG-VM64-AWS to supported models.
2015-02-05	Added FMG-VM64-KVM and FMG-VM64-XEN to supported models.
2015-04-29	Updated the VM Partition Information in the Upgrade Information chapter.

Introduction

This document provides the following information for FortiManager v5.0.9:

- Supported models
- Special Notices
- Upgrade Information
- Product Integration and Support
- Compatibility with FortiOS Versions
- Resolved Issues
- Known Issues
- FortiGuard

Please review all sections in this document prior to upgrading your device. For more information on upgrading your device, see the *FortiManager Upgrade Guide*.

Supported models

FortiManager v5.0.9 supports the following models:

Table 1: Supported models

FortiManager	FMG-100C, FMG-200D, FMG-300D, FMG-400B, FMG-400C, FMG-1000C, FMG-1000D, FMG-3000B, FMG-3000C, FMG-4000D, FMG-4000E, and FMG-5001A.	Build 0345
FortiManager VM	FMG-VM32, FMG-VM64, and FMG-VM64-HV.	Build 0345
FortiManager VM	FMG-VM64-AWS	Build 4058
FortiManager VM	FMG-VM64-KVM, FMG-VM64-XEN	Build 4061

Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiManager v5.0.9.

Amazon Web Services

FortiManager v5.0.9 introduces a new 64-bit Amazon Machine Image (AMI). There is no upgrade path for existing v5.0.4 customers to upgrade to the new v5.0.9 image. You must deploy the v5.0.9 FortiManager VM for AWS AMI and migrate your database from your existing v5.0.4 deployment to the v5.0.9 deployment.

To migrate your database:

1. Backup the configuration database on your existing version 5.0.4 deployment.
2. Deploy the new version 5.0.9 FortiManager VM for AWS AMI.
3. Restore the version 5.0.4 configuration database to the new version 5.0.9 deployment.

Monitor upgrade process

When upgrading to FortiManager version 5.0.7 or later, FortiManager consolidates dynamic objects from all managing devices to the ADOM database. As a result, the upgrade process takes longer than previous patch releases. The time to complete the upgrade process depends on the number of managed devices and dynamic objects. Please monitor the upgrade progress from the console port. FortiManager prompts the following outputs when consolidating dynamic objects:

```
Upgrading device dynamic objects to Adom DB ...
Upgrading device dynamic objects for 11416/3
Upgrading device dynamic objects for 11416/3 succeeded
Upgrading device dynamic objects for 12614/3
Upgrading device dynamic objects for 12614/3 succeeded
Upgrading device dynamic objects for 12843/3
Upgrading device dynamic objects for 12843/3 succeeded
Upgrading device dynamic objects for 12852/3
...
```

ADOM upgrade

Upgrade is available for ADOM version 4.3 to migrate to version 5.0. Currently, there is no ADOM upgrade option for ADOM version 5.0 to move to version 5.2.

CLI commands for configuring dynamic objects

In FortiManager version 5.0.7 and later, all dynamic objects are consolidated from devices to the ADOM database. For those users who wish to configure a dynamic mapping via a CLI script, the configuration for the mapping must be defined in the dynamic object under the `config dynamic_mapping` sub-tree. Also, the CLI script must be run on policy package instead of the device database. Below are some examples:

Example 1: Dynamic VIP

```
config firewall vip
  edit "vip1"
  ...
  config dynamic_mapping
    edit "FW60CA3911000089"-root"
      set extintf "any"
      set extip 172.18.26.100
      set mappedip 192.168.3.100
      set arp-reply disable
    next
  end
end
```

Example 2: Dynamic Address

```
config firewall address
  edit "address1"
  ...
  config dynamic_mapping
    edit "FW60CA3911000089"-root"
      set subnet 192.168.4.0 255.255.255.0
    next
  end
end
```

Example 3: Dynamic Interface

```
config dynamic interface
  ...
  config dynamic_mapping
    edit "FW60CA3911000089"-root"
      set local-intf internal
      set intrazone-deny disable
    next
  end
end
```

FortiManager VM

In VM environments, upgrade your VM server to latest stable update and patch release offered by the VM host server provider before installing or upgrading FortiManager VM.

Unregistered device table

In FortiManager version 5.0.4 or earlier releases, the `config system global set unregister-pop-up` command is enabled by default. When a device is configured to send logs to FortiManager, the unregistered device table will be displayed. You can decide to promote the device now or at a later date.

In FortiManager version 5.0.5 or later, the `config system global set unregister-pop-up` command is disabled by default. When a device is configured to send logs to FortiManager, the unregistered device table will not be displayed. Instead, a new entry *Unregistered Devices* will appear in the Device Manager tab under *All FortiGate*. You can then promote devices to specific ADOMs or use the right-click menu to delete the device.

FortiAnalyzer feature set

In FortiManager version 5.0.5 or later, the FortiAnalyzer feature set (FortiView, Event Management, and Reports) is disabled by default. To enable the FortiAnalyzer feature set, enter the following CLI commands:

```
config system global
  set faz-status enable
end
```

```
Changing faz status will affect FAZ feature in FMG. If you continue,
system will reboot to add/remove FAZ feature.
```

```
Do you want to continue? (y/n)
```

Enter `y` to continue, your device will reboot with the FortiAnalyzer features enabled.



The FortiAnalyzer feature set is not available on the FortiManager 100C.



In FortiManager version 5.0.7 and later you can enable the FortiAnalyzer feature set in the Web-based Manager. Go to *System Settings > Dashboard*. In the *System Information* widget, beside *FortiAnalyzer Features*, select *Enabled*.

FortiGate firmware upgrade

After completing a FortiGate firmware upgrade via FortiManager, you must manually retrieve the device configuration.

System time on FortiManager VM (VMware)

If an NTP server is not reachable from a FortiManager VM unit, it will use the VMware ESX/ESXi host's time as the system time.

Memory requirement for FortiManager VM64 (Hyper-V)

A minimum of 2GB of memory is required to normally operate FortiManager VM64-HV for Microsoft Hyper-V environments.

ADOM for FortiCarrier

Please note that FortiGate and FortiCarrier devices can no longer be grouped into the same ADOM in FortiManager. FortiCarrier devices should be grouped into a dedicated FortiCarrier ADOM.

After upgrade, FortiCarrier devices will no longer be shown in any of the existing ADOMs. When creating a FortiCarrier ADOM, the FortiCarrier devices will be listed and can be grouped into the ADOM.



ADOM mode must be enabled in order to create a FortiCarrier ADOM and manage FortiCarrier devices.

FortiOS version 5.0 override server setting for FortiGuard Services

FortiOS no longer has the option to specify an IP address or a domain name for FortiGuard services. FortiGate either connects to the FortiGuard Distribution Network or the managing FortiManager for update services. If a FortiGate is required to retrieve updates from a specific FortiManager or FortiGuard server, please use port address translation (PAT) to redirect update traffic to the proper IP address and port.



This is applicable to FortiOS version 5.0 and version 4.3 devices only. FortiOS version 5.2 has a different behavior.

Table 2 lists the ports used by FortiGuard Services.

Table 2: FortiGuard services ports

Port	Service
8890	Antivirus or IPS updates for FortiGate
53 or 8888	Web Filtering or Antispam queries for FortiGate
8891	Antivirus or IPS updates for FortiClient
80	Web Filtering or Antispam queries for FortiClient

The public FortiGuard uses port 443 to provide antivirus/IPS updates. On FortiManager, it uses port 8890 (FortiGate) / port 8891 (FortiClient) instead. See the two examples below.

Example 1: Antivirus/IPS

In this example, the FortiGate (10.1.100.1) is managed by FortiManager1 (172.16.200.102) and gets antivirus/IPS updates from FortiManager2 (172.16.200.207). A NAT/PAT device (10.1.100.2/172.16.200.2) sits between the FortiGate and the FortiManager.

In the FortiGate, enter the following CLI commands to enable FortiManager FDS override and set the FortiManager IP address (internal IP on NAT/PAT device):

```
config system central-management
  set fortimanager-fds-override enable
  set fmg "10.1.100.2"
end
```

On the NAT/PAT device, configure the following IP and port translations:

```
10.1.100.2:8890 -> 172.16.200.207:8890
10.1.100.2:541 -> 172.16.200.102:541
```

Example 2: Web filtering/Antispam

In this example, the FortiGate (10.1.100.1) is managed by FortiManager1 (172.16.200.102) and performs web filtering and antispam queries on FortiManager2 (172.16.200.207). A NAT/PAT device (10.1.100.2/172.16.200.2) sits between the FortiGate and the FortiManager.

On the FortiGate, enter the following CLI commands to enable FortiManager FDS override and set the FortiManager IP address (internal IP on NAT/PAT device):

```
config system central-management
  set fortimanager-fds-override enable
  set fmg "10.1.100.2"
end
```

On the NAT/PAT device, configure the following IP and port translations:

```
10.1.100.2:53/8888 -> 172.16.200.207:53/8888
10.1.100.2:541 -> 172.16.200.102:541
```

Update services provided to FortiMail version 4.2 devices

Please enable the following option in order to provide update services to FortiMail version 4.2 devices:

```
config fmupdate support-pre-fgt43
  set status enable
end
```

Endpoint management

In version 5.0, FortiClient endpoint agent configuration and management are now handled by the FortiGate Endpoint Control feature. You can configure your FortiGate device to discover new devices on your network, enforce FortiClient registration, and deploy a pre-configured endpoint profile to connected devices. This feature requires a FortiGate device running FortiOS version 5.0.0 or later.

For more information, see the *Device and Client Reputation for FortiOS Handbook* available at <http://docs.fortinet.com>.

FortiManager VM license check

As a part of the license validation process FortiManager compares its IP addresses with the IP information in the license file. If the IP addresses do not match, FortiManager returns the error `IP does not match` within CLI command `get system status` output. If a new license has been imported or the FortiManager's IP address has been changed, the FortiManager must be manually rebooted in order for the system to validate the change and operate with a valid license.

Multi-language display support

FortiManager version 5.0.1 and later have restrictions on supporting a FortiGate device's multi-language display.

New hard disk drive partition layout

FortiManager version 5.0.0 introduced a new hard disk drive partition layout which is required for optimal usage and performance. Following an upgrade to version 5.0.0 or later, a backup must be made and then the disk must be reformatted with following command:

```
execute format {disk | disk-ext4}
```

A format will erase all local logs, and FortiGuard database information. Backup any local event logs that you wish to keep. The FortiManager will then need to re-download all of the AV/IPS/AS/WF objects from the FortiGuard Distribution Servers (FDS) which may take up to half a day. During that time managed devices will not be able to obtain these services from the FortiManager. You should configure devices to point to a backup FortiManager or the FDN for these services.

Importing a FortiManager generated policy

FortiManager has the option to import all policies from a FortiGate device into a single policy package. Due to design limitations, the import process removes all policies with FortiManager generated policy IDs, such as 1073741825, that previously were learned by a FortiManager unit. The FortiGate unit may inherit a policy ID from:

- Global Header Policy
- Global Footer Policy
- VPN Console

Importing profile group and RADIUS dynamic start server

Please be advised that the *Import Wizard* does not import profile group and RADIUS dynamic start server objects which are not referenced by firewall policies. Please configure those objects on your FortiManager device.

Push update in bi-directional static NAT

Whenever there is a NAT device between FortiGate devices and the FortiManager with bi-directional static NAT enabled, you must follow the instructions below in order for FortiGate devices to receive *Push Update* announcements from the FortiManager.

Configure the following settings on FortiManager:

```
config fmupdate av-ips push-override-to-client
  set status enable
  config announce-ip
    edit 1
      set ip <the override IP that the FortiGate uses to download
        updates from the FortiManager>
      set port <the port that the FortiManager uses to send the
        update announcement>
    end
  end
end
```

Upgrade Information

Upgrading from FortiManager version 5.0.6 or later

FortiManager v5.0.9 supports upgrade from v5.0.6 or later.

FortiManager version 5.0.7 or later has re-sized the flash partition storing system firmware. If your FortiManager is running v5.0.6, you will need to change the hard disk provisioned size to more than 512 MB in your VM environment before powering on the FortiManager VM. The secondary firmware and System Settings stored in the partition is lost after upgrade. Please reconfigure System Settings as needed.



Upgrading your FMG-400B to version 5.0.9 requires you to use an interim step. You **MUST** upgrade to version 5.0.7 before upgrading to version 5.0.9. For more information see the [FortiManager 5.0.7 Release Notes](#). The upgrade path looks like this:

5.0.5 or earlier > 5.0.6 > 5.0.7 > 5.0.9

Upgrading from FortiManager version 5.0.5 or earlier

In order to accommodate the re-sizing of the flash partition, you **MUST** upgrade to version 5.0.6 first.



Please upgrade your FMG-5001A via the Web-based Manager or command line interface. Upgrade via TFTP from BIOS is not supported for this model.

Downgrading to previous firmware versions

FortiManager does not provide a full downgrade path. You can downgrade to a previous firmware release via the Web-based Manager 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
execute format {disk | disk-ext4}
```

FortiManager VM firmware

Fortinet provides FortiManager VM firmware images for Amazon Web Services, Microsoft Hyper-V Server 2008 R2/2012, and VMware ESX/ESXi and virtualization environments.

Amazon Web Services

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

Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the QCOW2 file for Open Source XenServer.
- `.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 Hyper-V Server

- `.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.

VMware ESX/ESXi

- `.out`: Download either the 32-bit or 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.ovf.zip`: Download either the 32-bit or 64-bit package for a new FortiManager 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 product data sheet available on the Fortinet web site, <http://www.fortinet.com/products/fortimanager/virtualappliances.html>.

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>. To verify the integrity of the download, select the *Checksum* link next to the *HTTPS* download link. A dialog box will be displayed with the image file name and checksum code. Compare this checksum with the checksum of the firmware image.

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 v5.00 file folder.

Product Integration and Support

FortiManager v5.0.9 support

The following table lists FortiManager v5.0.9 product integration and support information.

Table 3: FortiManager v5.0.9 support

Web Browser	<ul style="list-style-type: none"> • Microsoft Internet Explorer version 11 • Mozilla Firefox versions 32 and 33 • Google Chrome version 38 <p>Other web browsers may function correctly, but are not supported by Fortinet.</p>
FortiOS/FortiOS Carrier	<ul style="list-style-type: none"> • 5.2.1 FortiManager v5.0.9 is fully tested as compatible with FortiOS/FortiOS Carrier v5.2.1, with some minor interoperability issues. For information, see “Compatibility with FortiOS Versions” on page 26. • 5.2.0 FortiManager v5.0.9 is fully tested as compatible with FortiOS/FortiOS Carrier v5.2.0, with some minor interoperability issues. For information, see “Compatibility with FortiOS Versions” on page 26. • 5.0.4 to 5.0.10 FortiManager v5.0.9 is fully tested as compatible with FortiOS/FortiOS Carrier v5.0.4 to v5.0.10, with some minor interoperability issues. For information, see “Compatibility with FortiOS Versions” on page 26. • 4.3.2 and later • 4.2.0 and later
FortiAnalyzer	<ul style="list-style-type: none"> • 5.2.0 • 5.0.0 and later
FortiMail	<ul style="list-style-type: none"> • 5.2.0 • 5.1.3 • 5.0.6
FortiWeb	<ul style="list-style-type: none"> • 5.3.0 • 5.2.3 • 5.1.4 • 5.0.6
FortiCache	<ul style="list-style-type: none"> • 3.0.0 and 3.0.1

Table 3: FortiManager v5.0.9 support (continued)

FortiSwitch ATCA	<ul style="list-style-type: none"> • 5.0.0 and later • 4.3.0 and later • 4.2.0 and later
FortiClient	<ul style="list-style-type: none"> • 5.2.0 and later • 5.0.4 and later
FortiSandbox	<ul style="list-style-type: none"> • 1.4.0, 1.4.1, 1.4.2 • 1.3.0 • 1.2.0, 1.2.3
Virtualization Environments	
Amazon	<ul style="list-style-type: none"> • Amazon Web Services AMI Amazon EC2, Amazon EBS
Citrix	<ul style="list-style-type: none"> • XenServer version 6.2
Linux KVM	<ul style="list-style-type: none"> • RedHat 6.5
Microsoft	<ul style="list-style-type: none"> • Hyper-V Server 2008 R2 and 2012
Open Source	<ul style="list-style-type: none"> • XenServer version 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, and 5.5

Feature support

The following table lists FortiManager feature support for managed platforms.

Table 4: Feature support per platform

Platform	Management Features	FortiGuard Update Services	Reports	Logging
FortiGate	✓	✓	✓	✓
FortiAnalyzer				
FortiCache			✓	✓
FortiCarrier	✓	✓	✓	✓
FortiClient		✓		✓
FortiMail		✓	✓	✓
FortiSandbox	✓	✓		✓
FortiSwitch ATCA	✓			

Table 4: Feature support per platform (continued)

Platform	Management Features	FortiGuard Update Services	Reports	Logging
FortiWeb		✓	✓	✓
Syslog				✓

Language support

The following table lists FortiManager language support information.

Table 5: Language support

Language	Web-based Manager	Reports	Documentation
English	✓	✓	✓
Chinese (Simplified)	✓	✓	
Chinese (Traditional)	✓	✓	
French		✓	
Hebrew		✓	
Hungarian		✓	
Japanese	✓	✓	
Korean	✓	✓	
Portuguese		✓	
Russian		✓	
Spanish		✓	

To change the FortiAnalyzer 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, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch ATCA, FortiWeb, and FortiCache models and firmware versions that can be managed by a FortiManager device running v5.0.9.

Table 6: Supported FortiGate models

Model	Firmware Version
<p>FortiGate</p> <p>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-POE, FG-70D, FG-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-94D-POE, FG-100D, FG-110C, FG-111C, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200B, FG-200B-POE, FG-200D, 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-800C, FG-1000C, FG-1240B, FG-1500D, FG-3016B, FG-3040B, FG-3140B, FG-3240C, FG-3600C, FG-3810A, FG-3950B, FG-3951B, FG-5001A, FG-5001B, FG-5001C, FG-5101C</p> <p>FortiGate DC</p> <p>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-3040B-DC, FG-3140B-DC, FG-3240C-DC, FG-3600C-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC</p> <p>FortiGate Low Encryption</p> <p>FG-20C-LENC, FG-40C-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-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</p> <p>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-80CM, FWF-81CM, FWF-90D, FWF-90D-POE,</p> <p>FortiGate VM</p> <p>FG-VM, FG-VM64, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p>FortiSwitch</p> <p>FS-5203B</p>	<p>5.2</p>

Table 6: Supported FortiGate models (continued)

Model	Firmware Version
<p>FortiGate</p> <p>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-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-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-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-500D, FG-600C, FG-620B, FG-621B, FG-800C, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-3016B, FG-3040B, FG-3140B, FG-3240C, FG-3600C, FG-3700D, FG-3810A, FG-3950B, FG-3951B, FG-5001A, FG-5001B, FG-5001C, FG-5101C, FG-5001D</p> <p>FortiGate DC</p> <p>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-3040B-DC, FG-3140B-DC, FG-3240C-DC, FG-3600C-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC</p> <p>FortiGate Low Encryption</p> <p>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-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC</p> <p>FortiWiFi</p> <p>FWF-20C, FWF-20C-ADSL-A, FWF-30D, FWF-30D-POE, FWF-40C, FWF-60C, FWF-60CM, FWF-60CM-3G4G-B, FWF-60CX-ADSL-A, FWF-60D-POE, FWF-60D, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p>FortiGate Rugged</p> <p>FGR-60D, FGR-100C</p> <p>FortiGateVoice</p> <p>FGV-70D4</p> <p>FortiGate VM</p> <p>FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p>FortiSwitch</p> <p>FS-5203B</p>	5.0

Table 6: Supported FortiGate models (continued)

Model	Firmware Version
<p>FortiGate</p> <p>FG-20C, FG-20C-ADSL-A, FG-30B, FG-40C, FG-50B, FG-51B, FG-60B, FG-60C, FG-60C-POE, FG-60C-SFP, FG-80C, FG-80CM, FG-82C, FG-100A, FG-100D, FG-110C, FG-111C, FG-200A, FG-200B, FG-200B-POE, FG-224B, FG-300A, FG-300C, FG-310B, FG-311B, FG-400A, FG-500A, FG-600C, FG-620B, FG-621B, FG-800, FG-800C, FG-800F, FG-1000, FG-1000A, FG-1000AFA2, FG-1000C, FG-1240B, FG-3016B, FG-3040B, FG-3140B, FG-3240C, FG-3600, FG-3600A, FG-3810A, FG-3950B, FG-3951B, FG-5001, FG-5001A, FG-5001B, FG-5001C, FG-5001FA2, FG-5002A, FG-5002FB2, FG-5005FA2, FG-5101C</p> <p>FortiGate DC</p> <p>FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-620B-DC, FG-600C-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-3040B-DC, FG-3140B-DC, FG-3240C-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC</p> <p>FortiGate Low Encryption</p> <p>FG-20C-LENC, FG-40C-LENC, FG-50B-LENC, FG-51B-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-LENC, FG-310B-LENC, FG-600C-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC, FG-5001FA2-LENC, FG-5002A-LENC</p> <p>FortiWiFi</p> <p>FWF-20C, FWF-20C-ADSL-A, FWF-30B, FWF-40C, FWF-50B, FWF-60B, FWF-60C, FWF-60CM, FWF-60CM-3G4G-B, FWF-60CX-ADSL-A, FWF-80CM, FWF-81CM</p> <p>FortiGate Rugged</p> <p>FGR-100C</p> <p>FortiGate One</p> <p>FG-ONE</p> <p>FortiGate VM</p> <p>FG-VM, FG-VM64, FG-VM64-XEN</p> <p>FortiSwitch</p> <p>FS-5203B</p>	4.3

Table 6: Supported FortiGate models (continued)

Model	Firmware Version
<p>FortiGate</p> <p>FG-30B, FG-50B, FG-51B, FG-60B, FG-80C, FG-80CM, FG-80CM, FG-82C, FG-100A, FG-110C, FG-111C, FG-200A, FG-200B, FG-200B-POE, FG-224B, FG-300A, FG-300C, FG-310B, FG-311B, FG-400A, FG-500A, FG-620B, FG-621B, FG-800, FG-800F, FG-1000, FG-1000A, FG-1000AFA2, FG-1240B, FG-3016B, FG-3040B, FG-3140B, FG-3600, FG-3600A, FG-3810A, FG-3950B, FG-3951B, FG-5001, FG-5001A, FG-5001B, FG-5001FA2, FG-5002A, FG-5002FB2, FG-5005FA2</p> <p>FortiGate DC</p> <p>FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-620B-DC, FG-621B-DC, FG-1240B-DC, FG-3040B-DC, FG-3140B-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC</p> <p>FortiGate Low Encryption</p> <p>FG-50B-LENC, FG-51B-LENC, FG-80C-LENC, FG-300C-LENC, FG-310B-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC, FG-5001FA2-LENC, FG-5002A-LENC</p> <p>FortiWiFi</p> <p>FWF-30B, FWF-50B, FWF-60B, FWF-60CX-ADSL-A, FWF-60CM, FWF-80CM, FWF-81CM, FWF-80CM, FWF-81CM</p> <p>FortiGate One</p> <p>FG-ONE</p> <p>FortiGate VM</p> <p>FG-VM</p>	4.2

Table 7: Supported FortiCarrier models

Model	Firmware Version
<p>FortiCarrier</p> <p>FCR-3240C, FCR-3600C, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5101C</p> <p>FortiCarrier DC</p> <p>FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3910B-DC, FCR-3950B-DC</p> <p>FortiCarrier Low Encryption</p> <p>FCR-5001A-DW-LENC</p>	5.2
<p>FortiCarrier</p> <p>FCR-3240C, FCR-3600C, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5101C</p> <p>FortiCarrier DC</p> <p>FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3950B-DC, FCR-3910B-DC</p> <p>FortiCarrier Low Encryption</p> <p>FCR-5001A-DW-LENC</p>	5.0

Table 7: Supported FortiCarrier models (continued)

Model	Firmware Version
FortiCarrier FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001, FCR-5001A, FCR-5001B, FCR-5001FA2, FCR-5005FA2 FortiCarrier DC FCR-3810A-DC, FCR-3950B-DC, FCR-3910B-DC FortiCarrier Low Encryption FCR-5001A-DW-LENC	4.3
FortiCarrier FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001, FCR-5001A, FCR-5001B, FCR-5001FA2, FCR-5005FA2 FortiCarrier DC FCR-3810A-DC, FCR-3950B-DC, FCR-3910B-DC FortiCarrier Low Encryption FCR-5001A-DW-LENC	4.2

Table 8: Supported FortiAnalyzer models

Model	Firmware Version
FortiAnalyzer FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400B, FAZ-400C, FAZ-1000C, FAZ-1000D, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-4000B FortiAnalyzer VM FAZ-VM, FAZ-VM64, FAZ-VM64-HV	5.2
FortiAnalyzer FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400B, FAZ-400C, FAZ-1000B, FAZ-1000C, FAZ-1000D, FAZ-2000A, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-4000A, FAZ-4000B FortiAnalyzer VM FAZ-VM, FAZ-VM64, FAZ-VM64-HV	5.0

Table 9: Supported FortiMail models

Model	Firmware Version
FortiMail FE-100C, FE-200D, FE-400B, FE-400C, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5001A, FE-5002B FortiMail VM FE-VM64	5.2 5.1
FortiMail FE-100C, FE-200D, 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

Table 10:Supported FortiSandbox models

Model	Firmware Version
FortiSandbox FSA-1000D, FSA-3000D	1.4 1.3 1.2

Table 11:Supported FortiSwitch ATCA models

Model	Firmware Version
FortiSwitch ATCA FS-5003A, FS-5003B FortiController FTCL-5103B	5.0
FortiSwitch ATCA FS-5003A, FS-5003B	4.3 4.2

Table 12:Supported FortiWeb models

Model	Firmware Version
FortiWeb FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-4000C, FWB-4000D FortiWeb VM FWB-VM64	5.3 5.2 5.1 5.0

Table 13:Supported FortiCache models

Model	Firmware Version
FortiCache FCH-400C, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D FortiCache VM FCH-VM64	3.0

Compatibility with FortiOS Versions

This section highlights compatibility issues that administrators should be aware of in FortiManager v5.0.9.

Compatibility issues with FortiOS version 5.2.1

Table 14: Compatibility issues with FortiOS version 5.2.1

Bug ID	Description
0254828	Install logs show warning messages for <code>profile-protocol-options</code> when <code>oversize-limit</code> settings are larger than <code>uncompressed-oversize-limit</code> settings.

Compatibility issues with FortiOS version 5.2.0

Table 15: Compatibility issues with FortiOS version 5.2.0

Bug ID	Description
0232983	User, User Group, and Device should be listed in the source or destination column.
0234563	The new VPN configuration wizard in FortiOS is not supported in FortiManager.
0246153	Remove AIM, ICQ, MSN, and Yahoo selections from the DLP sensor.

Compatibility issues with FortiOS version 5.0.10

Table 16: Compatibility issues with FortiOS version 5.0.10

Bug ID	Description
0263526	Install fails for service <code>protocol-number</code> .

Compatibility issues with FortiOS version 5.0.5

Table 17: Compatibility issues with FortiOS version 5.0.5

Bug ID	Description
0230199	FortiManager allows the creation of a new FAP-320C WTP profile on a FortiOS version 5.0.5 device causing the install to fail. FAP-320C is new for FortiOS version 5.0.6.

Compatibility issues with FortiOS v5.0.4

Table 18: Compatibility issues with FortiOS v5.0.4

Bug ID	Description
0226064	Attempting to install time zones 79 and 80 fails. These time zones were added in FortiOS version 5.0.5.
0226078	When the password length is increased to 128 characters, the installation fails.
0226098	When installing a new endpoint-control profile, installation verification fails due to default value changes in FortiOS version 5.0.5.
0226102	If DHCP server is disabled, installation fails due to syntax changes in FortiOS version 5.0.5.
0226203	Installation of address groups to some FortiGate models may fail due to table size changes. The address group table size was increased in FortiOS version 5.0.5.
0226236	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 version 5.0.5.
0230199	FortiManager allows the creation of a new FAP-320C WTP profile on a FortiOS version 5.0.4 device causing the install to fail. FAP-320C is new for FortiOS version 5.0.6.

Resolved Issues

The following issues have been fixed in FortiManager v5.0.9. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Table 19: Resolved issues

Bug ID	Description
0257361	CVE-2014-3566 SSLv3 POODLE vulnerability. A CLI command to control the SSL protocol has been added: <pre>config sys global set ssl-protocol {tlsv1 sslv3}</pre>
0257778	Upgraded OpenSSL for the following vulnerabilities: <ul style="list-style-type: none">• CVE-2014-3513: DTLS SRTP memory leak• CVE-2014-3567: Session ticket memory leak• CVE-2014-3568: Build option no-ssl3 is incomplete• SSL 3.0 Fallback protection

Known Issues

There are no known issues in FortiManager v5.0.9. For inquiries about a particular bug or to report a bug, please contact [Customer Service & Support](#).

Appendix A: FortiGuard

FortiGuard Distribution Servers (FDS) and services

In order for the FortiManager to request and retrieve updates from FortiGuard Distribution Servers, 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. FortiManager 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 FortiGuard Distribution Server (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:

Table 20:FortiGuard Center update support

Platform	Version	Antivirus	AntiSpam	Vulnerability Scan	Software
FortiClient (Windows)	<ul style="list-style-type: none">• 5.0• 5.2	✓		✓	
FortiClient (Windows)	<ul style="list-style-type: none">• 4.3	✓			
FortiClient (Windows)	<ul style="list-style-type: none">• 4.2	✓	✓		✓
FortiClient (Mac OS X)	<ul style="list-style-type: none">• 5.0	✓		✓	
FortiMail	<ul style="list-style-type: none">• 4.2• 4.3• 5.0	✓	✓		
FortiSandbox	<ul style="list-style-type: none">• 1.2• 1.3• 1.4	✓			
FortiWeb	<ul style="list-style-type: none">• 5.0• 5.1• 5.2	✓			



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
```
