



# FortiAnalyzer - Release Notes

Version 6.2.1

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# TABLE OF CONTENTS

<b>Change Log</b>	<b>4</b>
<b>FortiAnalyzer 6.2.1 Release</b>	<b>5</b>
Supported models	5
What's new	5
<b>Special Notices</b>	<b>6</b>
ADOM limit changes	6
Common vulnerabilities and exposures	6
Port 8443 reserved	6
All OFTP connections must be encrypted for FortiAnalyzer 6.2.0 (or higher)	6
Hyper-V FortiAnalyzer-VM running on an AMD CPU	6
SSLv3 on FortiAnalyzer-VM64-AWS	7
Pre-processing logic of ebtime	7
<b>Upgrade Information</b>	<b>8</b>
Downgrading to previous versions	8
Firmware image checksums	8
FortiAnalyzer VM firmware	9
SNMP MIB files	10
<b>Product Integration and Support</b>	<b>11</b>
FortiAnalyzer version 6.2.1 support	11
Feature support	13
Language support	14
Supported models	14
FortiGate models	15
FortiCarrier models	18
FortiDDoS models	19
FortiAnalyzer models	19
FortiMail models	20
FortiSandbox models	21
FortiSwitch ATCA models	21
FortiWeb models	22
FortiCache models	23
FortiProxy models	23
FortiAuthenticator models	23
<b>Resolved Issues</b>	<b>24</b>
Common Vulnerabilities and Exposures	25
<b>Known Issues</b>	<b>26</b>
<b>Appendix A - Maximum number of ADOMs supported</b>	<b>28</b>

# Change Log

Date	Change Description
2019-07-18	Initial release of 6.2.1.
2019-07-24	Updated the <i>Product Integration</i> section.
2019-08-01	Added FortiProxy to <i>Product Integration</i> .
2019-08-19	Added FAZ-VM64-Cloud to <i>Supported models</i> .
2019-08-21	Added <a href="#">Appendix A - Maximum number of ADOMs supported on page 28</a> .
2019-09-03	Added support for FortiOS 5.6.11.
2019-09-04	Removed a note on limitation for web browsers.
2019-09-09	Added support for FML-200F, FML-400F, and FML-900F.
2019-10-28	Added special notice about ADOM limit changes.
2019-12-03	Added 561572 to <i>Resolved Issues</i> .
2019-12-16	Added FAZ-1000F and FAZ-3500G to <i>Supported models</i> .

# FortiAnalyzer 6.2.1 Release

This document provides information about FortiAnalyzer version 6.2.1 build 1121.



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

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This section includes the following topics:

- [Supported models on page 5](#)
- [What's new on page 5](#)

## Supported models

FortiAnalyzer version 6.2.1 supports the following models:

<b>FortiAnalyzer</b>	FAZ-200F, FAZ-300F, FAZ-400E, FAZ-800F, FAZ-1000E, FAZ-1000F, FAZ-2000E, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3500G, FAZ-3700F and FAZ-3900E.
<b>FortiAnalyzer VM</b>	FAZ-VM64, FAZ-VM64-Cloud, FAZ-VM64-Ali, FAZ-VM64-AWS, FAZ-VM64-AWS-OnDemand, FAZ-VM64-Azure, FAZ-VM64-GCP, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-OPC, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).

## What's new

For information about what's new in FortiAnalyzer 6.2.1, see the [FortiAnalyzer New Features Guide](#).

# Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiAnalyzer version 6.2.1.

## ADOM limit changes

FortiAnalyzer 6.2.1 introduced ADOM limit changes for FAZ-VMs. ADOMS created prior to upgrade are unaffected by the new limit. For more details, see [Appendix A - Maximum number of ADOMs supported on page 28](#).

## Common vulnerabilities and exposures

FortiAnalyzer 6.2.1 is no longer vulnerable to the issue described in the following link - <https://fortiguard.com/psirt/FG-IR-19-144>.

## Port 8443 reserved

Port 8443 is reserved for https-logging from FortiClient EMS for Chromebooks.

## All OFTP connections must be encrypted for FortiAnalyzer 6.2.0 (or higher)

Prior to upgrading to FortiAnalyzer 6.2, make sure that all FortiGate devices are configured to use encryption when communicating with FortiAnalyzer. Starting with FortiAnalyzer 6.2.0, all OFTP communications must be encrypted.

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

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

## SSLv3 on FortiAnalyzer-VM64-AWS

Due to known vulnerabilities in the SSLv3 protocol, FortiAnalyzer-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
```

## Pre-processing logic of ebtime

Logs with the following conditions met are considered usable for the calculation of estimated browsing time:

Traffic logs with `logid` of 13 or 2, when `logid == 13`, `hostname` must not be empty. The `service` field should be either HTTP, 80/TCP or 443/TCP.

If all above conditions are met, then `devid`, `vdom`, and `user` (`srcip` if `user` is empty) are combined as a key to identify a user. For time estimation, the current value of `duration` is calculated against history session start and end time, only un-overlapped part are used as the `ebtime` of the current log.

# Upgrade Information

You can upgrade FortiAnalyzer 6.0.3 or later directly to 6.2.1.



For other upgrade paths and details about upgrading your FortiAnalyzer, see *FortiAnalyzer Upgrade Guide*.



Upgrading to FortiAnalyzer 6.0.2 from 6.0.0 or 6.0.1 is supported and does not trigger a log database rebuild.

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This section contains the following topics:

- [Downgrading to previous versions on page 8](#)
- [Firmware image checksums on page 8](#)
- [FortiAnalyzer VM firmware on page 9](#)
- [SNMP MIB files on page 10](#)

## Downgrading to previous versions

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

## 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.



## FortiAnalyzer VM firmware

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

### Aliyun

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

### 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 FortiAnalyzer 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 FortiAnalyzer VM installation. This package contains the Citrix XenServer Disk (VHD), and OVF files.

### Linux KVM

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.out.kvm.zip`: Download the 64-bit package for a new FortiAnalyzer 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 `FAZ_VM64_AZURE-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.hyperv.zip`: Download the package for a new FortiAnalyzer 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, `FAZ_VM64_HV-v<number>-build<number>-FORTINET.out.hyperv.zip`.

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



Microsoft Hyper-V 2016 is supported.

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### VMware ESX/ESXi

- `.out`: Download either 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 FortiAnalyzer product data sheet available on the Fortinet web site, <https://www.fortinet.com/products/management/fortianalyzer.html>. VM installation guides are available in the [Fortinet Document Library](#).

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## 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 FortiAnalyzer v5.00 file folder.

# Product Integration and Support

This section lists FortiAnalyzer 6.2.1 support of other Fortinet products. It also identifies what FortiAnalyzer features are supported for log devices and what languages FortiAnalyzer GUI and reports support. It also lists which Fortinet models can send logs to FortiAnalyzer.

The section contains the following topics:

- [FortiAnalyzer version 6.2.1 support on page 11](#)
- [Feature support on page 13](#)
- [Language support on page 14](#)
- [Supported models on page 14](#)

## FortiAnalyzer version 6.2.1 support

The following table lists FortiAnalyzer version 6.2.1 product integration and support information:

<b>Web Browsers</b>	<ul style="list-style-type: none"><li>• Microsoft Edge 40</li><li>• Mozilla Firefox version 67</li><li>• Google Chrome version 75</li></ul> Other web browsers may function correctly, but are not supported by Fortinet.
<b>FortiOS/FortiOS Carrier</b>	<ul style="list-style-type: none"><li>• 6.2.0 to 6.2.1</li><li>• 6.0.0 to 6.0.6</li><li>• 5.6.0 to 5.6.11</li><li>• 5.4.0 to 5.4.12</li></ul>
<b>FortiAnalyzer</b>	<ul style="list-style-type: none"><li>• 6.2.0 to 6.2.1</li><li>• 6.0.0 and later</li><li>• 5.6.0 and later</li><li>• 5.4.0 and later</li><li>• 5.2.0 and later</li><li>• 5.0.0 and later</li></ul>
<b>FortiCache</b>	<ul style="list-style-type: none"><li>• 4.2.9</li><li>• 4.2.7</li><li>• 4.2.6</li><li>• 4.1.6</li><li>• 4.1.2</li><li>• 4.0.4</li></ul>
<b>FortiClient</b>	<ul style="list-style-type: none"><li>• 6.0.7</li><li>• 6.0.0</li><li>• 5.6.6</li><li>• 5.6.3</li></ul>

	<ul style="list-style-type: none"> <li>• 5.6.0</li> <li>• 5.4.0 and later</li> <li>• 5.2.0 and later</li> </ul>
<b>FortiMail</b>	<ul style="list-style-type: none"> <li>• 6.0.5</li> <li>• 5.4.9</li> <li>• 5.4.5</li> <li>• 5.3.12</li> <li>• 5.2.10</li> <li>• 5.1.7</li> <li>• 5.0.10</li> </ul>
<b>FortiManager</b>	<ul style="list-style-type: none"> <li>• 6.2.0 and later</li> <li>• 6.0.0 and later</li> <li>• 5.6.0 and later</li> <li>• 5.4.0 and later</li> <li>• 5.2.0 and later</li> <li>• 5.0.0 and later</li> </ul>
<b>FortiSandbox</b>	<ul style="list-style-type: none"> <li>• 3.0.5</li> <li>• 2.5.2</li> <li>• 2.4.1</li> <li>• 2.3.3</li> <li>• 2.2.2</li> <li>• 2.1.3</li> <li>• 1.4.0 and later</li> <li>• 1.3.0</li> <li>• 1.2.0 and later</li> </ul>
<b>FortiSwitch ATCA</b>	<ul style="list-style-type: none"> <li>• 5.0.0 and later</li> <li>• 4.3.0 and later</li> <li>• 4.2.0 and later</li> </ul>
<b>FortiWeb</b>	<ul style="list-style-type: none"> <li>• 6.1.1</li> <li>• 6.0.5</li> <li>• 5.9.1</li> <li>• 5.8.6</li> <li>• 5.7.2</li> <li>• 5.6.1</li> <li>• 5.5.6</li> <li>• 5.4.1</li> <li>• 5.3.9</li> <li>• 5.2.4</li> <li>• 5.1.4</li> <li>• 5.0.6</li> </ul>
<b>FortiDDoS</b>	<ul style="list-style-type: none"> <li>• 5.0.0</li> <li>• 4.7.0</li> <li>• 4.6.0</li> </ul>

	<ul style="list-style-type: none"> <li>• 4.5.0</li> <li>• 4.4.2</li> <li>• 4.3.2</li> <li>• 4.2.3</li> <li>• 4.1.12</li> </ul>
<b>FortiAuthenticator</b>	<ul style="list-style-type: none"> <li>• 6.0</li> <li>• 5.0 to 5.5</li> <li>• 4.3</li> </ul>
<b>FortiProxy</b>	<ul style="list-style-type: none"> <li>• 1.0</li> </ul>
<b>Virtualization</b>	<ul style="list-style-type: none"> <li>• Amazon Web Service AMI, Amazon EC2, Amazon EBS</li> <li>• Citrix XenServer 7.2</li> <li>• Linux KVM Redhat 7.1</li> <li>• Microsoft Azure</li> <li>• Microsoft Hyper-V Server 2012 and 2016</li> <li>• OpenSource XenServer 4.2.5</li> <li>• VMware ESXi versions 5.0, 5.5, 6.0, 6.5 and 6.7</li> </ul>



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

## Feature support

The following table lists FortiAnalyzer feature support for log devices.

Platform	Log View	FortiView	Event Management	Reports
FortiGate	✓	✓	✓	✓
FortiCarrier	✓	✓	✓	✓
FortiAnalyzer	✓		✓	
FortiAuthenticator	✓			
FortiCache	✓		✓	✓
FortiClient registered to FortiGate	✓	✓		✓
FortiClient registered to FortiClient EMS	✓	✓		✓
FortiDDoS	✓	✓	✓	✓
FortiMail	✓		✓	✓

Platform	Log View	FortiView	Event Management	Reports
FortiManager	✓		✓	
FortiSandbox	✓		✓	✓
FortiWeb	✓		✓	✓
Syslog	✓		✓	✓

## Language support

The following table lists FortiAnalyzer language support information.

Language	GUI	Reports
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 from the drop-down list. 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 FortiAnalyzer, modifying the text to a different language, saving the file as a different language name, and then importing the file into FortiAnalyzer. For more information, see the *FortiAnalyzer Administration Guide*.

## Supported models

This section identifies which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch, FortiWeb, FortiCache, and FortiProxy models and firmware versions can send logs to a FortiAnalyzer appliance running version 6.2.1. Please ensure that the log devices are supported before completing the upgrade.



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 15](#)
- [FortiCarrier models on page 18](#)
- [FortiDDoS models on page 19](#)
- [FortiAnalyzer models on page 19](#)
- [FortiMail models on page 20](#)
- [FortiSandbox models on page 21](#)
- [FortiSwitch ATCA models on page 21](#)
- [FortiWeb models on page 22](#)
- [FortiCache models on page 23](#)
- [FortiProxy models on page 23](#)
- [FortiAuthenticator models on page 23](#)

## FortiGate models

Model	Firmware Version
<p><b>FortiGate:</b> FortiGate-30E, FortiGate-30E-3G4G-INTL, FortiGate-30E-3G4G-NAM, FortiGate-50E, FortiGate-51E, FortiGate-52E, FortiGate-60E, FortiGate-60E-POE, FortiGate-61E, FortiGate-80D, FortiGate-80E, FortiGate-80E-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-90E, FortiGate-91E, FortiGate-92D, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-101E, FortiGate-140D, FortiGate-140D-POE, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-201E, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FG-400E, FG-401E, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-601E, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-2000E, FortiGate-2500E, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E</p> <p><b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1</p> <p><b>FortiGate DC:</b> FortiGate-80C-DC, FortiGate-600C-DC, FortiGate-800C-DC, FortiGate-800D-DC, FortiGate-1000C-DC, FortiGate-1500D-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3240C-DC, FortiGate-3600C-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-DC, FortiGate-3980E-DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FortiGate-80C-LENC, FortiGate-600C-LENC, FortiGate-1000C-LENC</p> <p><b>FortiWiFi:</b> FortiWiFi-30D, FortiWiFi-30D-POE, FortiWiFi-30E, FortiWiFi-30E-3G4G-INTL, FortiWiFi-30E-3G4G-NAM, FortiWiFi-50E, FortiWiFi-50E-2R, FortiWiFi-51E, FortiWiFi-60E, FortiWiFi-60E-DSL, FortiWiFi-60E-DSLJ, FortiWiFi-61E, FortiWiFi-80CM, FortiWiFi-81CM</p>	6.2

Model	Firmware Version
<p><b>FortiGate-VM:</b> FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-ALIONDEMAND, FortiGate-VM64-AWS, FortiGate-VM64-AWSONDEMAND, FortiGate-VM64-AZUREONDEMAND, FortiGate-VM64-Azure, FortiGate-VM64-GCP, FortiGate-VM64-GCPONDEMAND, FortiGate-VM64-HV, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-Xen, FortiGate-VMX-Service-Manager</p> <p><b>FortiGate Rugged:</b> FortiGateRugged-30D, FortiGateRugged-30D-ADSL-A, FortiGateRugged-35D</p> <p><b>FortiOS:</b> FortiOS-VM64, FortiOS-VM64-HV, FortiOS-VM64-KVM, FortiOS-VM64-Xen</p>	
<p><b>FortiGate:</b> FG-30D, FG-30D-POE, FG-30E, FG-30E-3G4G-GBL, 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-60F, FG-61E, FG-70D, FG-70D-POE, 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-100F, FG-101F, 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, FG300D, FG-300E, FG-301E, FG-400D, FG-400E, FG-401E, FG-500D, FG-500E, FG-501E, FG-600D, FG-600E, FG-601E, FG-800D, FG-900D, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3400E, FG-3401E, FG-3600C, FG-3600E, FG-3601E, FG-3700D, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E</p> <p><b>FortiGate 5000 Series:</b> FG-5001D, FG-5001E, FG-5001E1</p> <p><b>FortiGate 6000 Series:</b> FG-6300F, FG-6301F, FG-6500F, FG-6501F</p> <p><b>FortiGate 7000 Series:</b> FG-7030E, FG-7040E, FG-7060E, FG-7060E-8-DC</p> <p><b>FortiGate DC:</b> FG1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815D-DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FG-100D-LENC, FG-600C-LENC</p> <p><b>Note:</b> All license-based LENC is supported based on the FortiGate support list.</p> <p><b>FortiWiFi:</b> 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, FW-60E-DSL, FW-60E-DSLJ, FWF-61E, FWF-90D, FWF-90D-POE, FWF-92D</p> <p><b>FortiGate VM:</b> FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, 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</p> <p><b>FortiGate Rugged:</b> FGR-30D, FGR-35D, FGR-60D, FGR-90D</p>	6.0



Model	Firmware Version
<p><b>FortiGate:</b> 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-DSLJ, 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-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E</p> <p><b>FortiGate 5000 Series:</b> FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p><b>FortiGate 6000 Series:</b> FG-6300F, FG-6301F, FG-6500F, FG-6501F</p> <p><b>FortiGate 7000 Series:</b> FG-7030E, FG-7040E, FG-7060E, FG-7060E-8-DC</p> <p><b>FortiGate DC:</b> 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, FG-7060E-8-DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> <p><b>Note:</b> All license-based LENC is supported based on the FortiGate support list.</p> <p><b>FortiWiFi:</b> FWF-30D, FWF-30D-POE, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FW-60E-DSL, FW-60E-DSLJ, FWF-60D-POE, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p><b>FortiGate VM:</b> 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</p> <p><b>FortiGate Rugged:</b> FGR-30D, FGR-35D, FGR-60D, FGR-90D</p>	5.6
<p><b>FortiGate:</b> 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-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-1500DT, FG-3000D, 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</p> <p><b>FortiGate 5000 Series:</b> FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p><b>FortiGate 6000 Series:</b> FG-6300F, FG-6301F, FG-6500F, FG-6501F</p>	5.4

Model	Firmware Version
<p><b>FortiGate 7000 Series:</b> 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>(Update only) FortiGate 7000 series: FG-7030E, FG-7040E, FG-7060E, FG-7060E-8-DC</p> <p><b>FortiGate DC:</b> 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, FG-7060E-8-DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> <p><b>Note:</b> All license-based LENC is supported based on the FortiGate support list.</p> <p><b>FortiWiFi:</b> 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</p> <p><b>FortiGate VM:</b> 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</p> <p><b>FortiGate Rugged:</b> FGR-30D, FGR-30D-ADSL-A, FGR-35D, FGR-60D, FGR-90D</p>	

## FortiCarrier models

Model	Firmware Version
<p><b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1</p> <p><b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC</p> <p><b>FortiCarrier-VM:</b> FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen</p>	6.2
<p><b>FortiCarrier:</b> FGT-3000D, FGT-3100D, FGT-3200D, FGT-3700D, FGT-3800D, FGT-3810D, FGT-3960E, FGT-3980E, FGT-5001D, FGT-5001E 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</p> <p><b>FortiGate 6000 series:</b> FG-6300F, FG-6301F, FG-6500F, FG-6501F</p> <p><b>FortiGate 7000 series:</b> FG-7030E, FG-7040E, FG-7060E, FG-7060E-8-DC</p> <p><b>FortiCarrier-VM:</b> 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</p>	6.0
<p><b>FortiCarrier:</b> 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</p> <p><b>FortiCarrier 6000 Series:</b> FG-6300F, FG-6301F, FG-6500F, FG-6501F</p>	5.6

Model	Firmware Version
<p><b>FortiCarrier 7000 Series:</b> FG-7030E, FG-7040E, FG-7060E, FG-7060E-8-DC</p> <p><b>FortiCarrier-DC:</b> 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, FCR-7060E-8-DC</p> <p><b>FortiCarrier-VM:</b> 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</p>	
<p><b>FortiCarrier:</b> FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FG-3600E, FGT-3700D, FGT-3700DX, FGT-3800D, FGT-3810D, FGT-5001C, FGT-5001D, FGT-7030E, FGT-7040E</p> <p><b>FortiCarrier 6000 Series:</b> FG-6300F, FG-6301F, FG-6500F, FG-6501F</p> <p><b>FortiCarrier 7000 Series:</b> FG-7030E, FG-7040E, FG-7060E, FG-7060E-8-DC</p> <p><b>FortiCarrier-DC:</b> FGT-3000D-DC, FGC-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC, FCR-7060E-8-DC</p> <p><b>FortiCarrier-VM:</b> 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</p>	5.4

## FortiDDoS models

Model	Firmware Version
<b>FortiDDoS:</b> FI-1500E, FI-2000E	5.0
<b>FortiDDoS:</b> FI-200B, FI-400B, FI-600B, FI-800B, FI-900B, FI-1000B, FI-1200B, FI-2000B	4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.7

## FortiAnalyzer models

Model	Firmware Version
<p><b>FortiAnalyzer:</b> FAZ-200F, FAZ-300F, FAZ-400E, FAZ-800F, FAZ-1000E, FAZ-2000E, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3700F and FAZ-3900E.</p> <p><b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-Ali, FAZ-VM64-AWS, FAZ-VM64-AWS-OnDemand, FAZ-VM64-Azure, FAZ-VM64-GCP, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-OPC, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).</p>	6.2
<p><b>FortiAnalyzer:</b> FAZ-200D, FAZ-200F, FAZ-300D, FAZ-300F, FAZ-400E, FAZ-800F, FAZ-1000D, FAZ-1000E, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3700F and FAZ-3900E.</p> <p><b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-ALI, FAZ-VM64-AWS, FAZ-VM64-AWS-OnDemand, FAZ-VM64-Azure, FAZ-VM64-GCP, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-OPC, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).</p>	6.0

Model	Firmware Version
<b>FortiAnalyzer:</b> FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E.	5.6
<b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).	
<b>FortiAnalyzer:</b> 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-3900E, and FAZ-4000B.	5.4
<b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-XEN (Citrix XenServer and Open Source Xen), FAZ-VM64-KVM, and FAZ-VM64-AWS.	
<b>FortiAnalyzer:</b> FAZ-100C, FAZ-200D, FAZ-200E, 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	5.2
<b>FortiAnalyzer VM:</b> FAZ-VM, FAZ-VM-AWS, FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-XEN	
<b>FortiAnalyzer:</b> FAZ-100C, FAZ-200D, FAZ-200E, 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	5.0
<b>FortiAnalyzer VM:</b> FAZ-VM, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM-KVM, FAZ-VM-XEN	

## FortiMail models

Model	Firmware Version
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-400E, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM, FML-200F, FML-400F, FML-900F	6.0
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000E, FE-3200E	5.4
<b>FortiMail Low Encryption:</b> FE-3000C-LENC	
<b>FortiMail:</b> 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	5.3
<b>FortiMail Low Encryption:</b> FE-3000C-LENC	
<b>FortiMail VM:</b> FE-VM64, FE-VM64-HV, FE-VM64-XEN	
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B	5.2
<b>FortiMail VM:</b> FE-VM64, FE-VM64-HV, FE-VM64-XEN	
<b>FortiMail:</b> FE-100C, FE-200D, FE-200E, FE-400B, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5001A, FE-5002B	5.1
<b>FortiMail VM:</b> FE-VM64	

Model	Firmware Version
<b>FortiMail:</b> 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	5.0
<b>FortiMail VM:</b> FE-VM64	

## FortiSandbox models

Model	Firmware Version
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D	3.0
<b>FortiSandbox VM:</b> FSA-AWS, FSA-VM	
<b>FortiSandbox VM:</b> FSA-KVM, FSA-VM	2.5.2
<b>FortiSandbox:</b> FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D	2.4.1
<b>FortiSandbox VM:</b> FSA-VM	2.4.0
	2.3.3
	2.3.2
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D, FSA-3500D	2.2.2
<b>FortiSandbox VM:</b> FSA-VM	2.1.3
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D	2.0.3
<b>FortiSandbox VM:</b> FSA-VM	1.4.2
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D	1.4.1
	1.3.0
	1.2.0 and later

## FortiSwitch ATCA models

Model	Firmware Version
<b>FortiController:</b> FTCL-5103B, FTCL-5902D, FTCL-5903C, FTCL-59	5.2.0
<b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B	5.0.0
<b>FortiController:</b> FTCL-5103B, FTCL-5903C, FTCL-5913C	
<b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B	4.3.0
	4.2.0

## FortiWeb models

Model	Firmware Version
<b>FortiWeb:</b> FortiWeb-100D, FortiWeb-400C, FortiWeb-400D, FortiWeb-600D, FortiWeb-1000D, FortiWeb-1000E, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-3000C, FortiWeb-3000CFSX, FortiWeb-3000D, FortiWeb-3000DFSX, FortiWeb-3000E, FortiWeb-3010E, FortiWeb-4000C, FortiWeb-4000D, FortiWeb-4000E <b>FortiWeb VM:</b> FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-Docker, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XenServer	6.1
<b>FortiWeb:</b> 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 <b>FortiWeb VM:</b> FWB-VM, FWB-HYPERV, FWB-XENOPEN, FWB-XENSERVEN	6.0.1
<b>FortiWeb:</b> 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-400C, FWB-400D, FWB-600D <b>FortiWeb VM:</b> 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
<b>FortiWeb:</b> 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-400C, FWB-400D, FWB-600D <b>FortiWeb VM:</b> FWB-Azure, FWB-Azure-Ondemand, FWB-CMINTF, FWB-HYPERV, FWB-KVM, FWB-KVM-PAYG, FWB-VM, FWB-VM-PAYG, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.8.6
<b>FortiWeb:</b> 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 <b>FortiWeb VM:</b> FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-OS1, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.7.2
<b>FortiWeb:</b> 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 <b>FortiWeb VM:</b> FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN	5.6.1
<b>FortiWeb:</b> 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 <b>FortiWeb VM:</b> FWB-VM-64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN, FWB-HYPERV, FWB-KVM, FWB-AZURE	5.5.6

Model	Firmware Version
<b>FortiWeb:</b> FWB-100D, FWB-400C, FWB-1000C, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E  <b>FortiWeb VM:</b> FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, FWB-HYPERV	5.4.1
<b>FortiWeb:</b> 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  <b>FortiWeb VM:</b> FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, and FWB-HYPERV	5.3.9
<b>FortiWeb:</b> 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  <b>FortiWeb VM:</b> FWB-VM64, FWB-HYPERV, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR	5.2.4

## FortiCache models

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

## FortiProxy models

Model	Firmware Version
<b>FortiProxy:</b> FPX-400E, FPX-2000E, FPX-4000E  <b>FortiProxy VM:</b> FPX-KVM, FPX-VM64	1.0/1.1

## FortiAuthenticator models

Model	Firmware Version
<b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E  <b>FortiAuthenticator VM:</b> FAC-VM, FAC-VM-HV, FAC-VM-KVM, FAC-VM-XEN	4.3, 5.0-5.5, 6.0

# Resolved Issues

The following issues have been fixed in FortiAnalyzer version 6.2.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
561572	FortiAnalyzer may show incorrect device storage information after upgrade.
405484	"Attack Name" data in "Top Attacks" chart is missing XML, CSV, and CLI formats.
523875	Two FortiAnalyzer units receiving the same logs are showing sometimes significantly different log receive rates in the GUI.
523886	ADOM override may not be applied correctly for the log section.
524097	When viewing or editing ADOM quotas in Storage Info, the frame may need 10 to 15 seconds to load.
526167	Subnet filter should be supported in real time log view and it should not return "no entry found".
527075	Collector mode Log View with log forwarding enabled may return "No entry found".
527076	Application name in FortiView is truncated if _ is used in the service name.
532728	Threat Map is not displayed due to missing longitude and latitude configurations in Device Manager for a FortiGate.
540000	The number of log fields for FortiManager event logs displayed in FortiAnalyzer's Log View is less as compared to FortiManager.
541820	The <code>bandwidth-app-Top-Dest-By-Bandwidth-Sessions</code> dataset should not split similar destinations into two different distinct destinations.
542475	FortiView > Traffic > Policy Hits shows a mix of policy name and policy ID.
544197	VDOM name may be missing a digit when adding a device with a long name.
545509	Remote logging towards FortiAnalyzer should not saturate the number of admin logins on a MBD/FPC slot.
547904	Cluster Members status may be showing both nodes as connection down.
548841	Add command on FortiAnalyzer to breakdown lograte by ADOMs.
549915	Completed reports with long names are not being displayed under Report Folders.
550235	FTPS protocol should have archive data link for DLP.
552610	FortiAnalyzer cannot save email address in the "From" field on Incidents & Events when TLD has five or more characters.
552614	The "Log Insert Lag Time" widget may not show data, creating cut-offs on the graph.
553500	Log forwarding with "All" device filter may stop after upgrade.



Bug ID	Description
554116	FortiAnalyzer may not be able to receive logs from FortiGate 5.6 cluster.
554345	FortiAnalyzer may consistently generate event logs stating "Did not receive any log" for devices that changed from standalone to HA.
554890	Log events should consistently end with a dot (.) delimiter.
555944	FTP upload should be working at the specified time defined for upload.
556523	FortiGate running 5.4 may close OFTP connection to FortiAnalyzer 6.2.
557407	Automatic Quarantine may not be applied to FortiSwitch.
558084	FortiAnalyzer should not generate logs stating "Can not find user:admin when running report: 1000060025".
558348	FortiAnalyzer is showing inconsistency in the listed report owner when cloning and importing a report.
559662	Report configuration may not be saved because wildcard admin user name is too long.
562220	The "diagnose dvm check-integrity" command may not be able to fix errors caused by missing device databases.
564610	With ADOMs disabled, predefined scheduled reports still run on non-root ADOMs.
566495	After added log facility for log-forward setting via CLI, the change may not reflected in log data.

## Common Vulnerabilities and Exposures

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

### Vulnerability

FortiAnalyzer 6.2.1 is no longer vulnerable to the issue described in the following link - <https://fortiguard.com/psirt/FG-IR-19-144>.

# Known Issues

The following issues have been identified in FortiAnalyzer version 6.2.1. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

Bug ID	Description
540766	The new HA master cannot receive logs after HA failover on Azure.
541346	In Fabric ADOM, if handler is for non-FortiGate devices, drill-down of an event is not properly displayed.
542286	HA cannot work on unicast mode when members are located in different subnets.
542606	Local device event alerts should not be synchronize from HA Master to Slave.
542607	Drill-down of Applications & Websites - Top Web Sites (FortiClient) always shows No entry found.
544064	The firewall sessions chart should be a bar chart classified by devices in the FortiCare 360 report.
544071	Network Interface Availability Faults Over Time Chart should be classified by devices in the FortiCare 360 report.
546073	When camera IP address is changed to Static mode, FortiRecorder identifies it with an incorrect address.
547496	When report is ran for a particular device, it should show data for only that device.
548112	After enabled resolving IP address, FortiView is not showing hostname on the column "Destination" in "Top Destinations" table.
548201	Under FortiView, it is missing the column "# of Clients" in the "Top Applications" table chart.
548826	In SOC Monitor, FortiAnalyzer cannot show Sandbox Execution Details clearly in Night/Ocean theme.
548866	Master unit in FortiAnalyzer HA Cluster responds with VIP only for SNMP traffic.
548872	The footer in FortiAnalyzer report cover page is set to transparent and it does not work the same way as it was in previous releases.
548974	Under FortiView, policy-info is updated when moving FortiGate to a different ADOM.
549243	In Top SSID drill-down view, it cannot show related logs for a WiFi client.
549459	FortiCam network setting to TCP/HTTP results in connection error or network unreachable.
549481	Export to report chart from drill down panel in NOC fails.
549739	After upgrade, widgets displayed size are not scale with the content.
550276	First time adding a new camera always shows unexpected MAC address.
550570	IOC drill down view shows incorrect last detect time.
550894	Quickly switching from Top Threat to Top Application leads to SQL query error.

Bug ID	Description
554321	History Graph may not change in drill-down Panel when you change the sorting.
560426	Multiple process may crash causing low insertion log rate and and missing Log View tab.
562540	FortiAnalyzer is missing IO statistics in diagnostics report.
562834	On FortiView's Top Sources, trying to filter logs for "Source !=x.x.x.x" adds a filter for "-User" causing incorrect data to be displayed.
563418	FortiView's Time Range may not be updated when using the refresh button.
563514	Event may not work properly for FortiSandbox
564577	FortiView's Top Browsing Users may not show all users.
565778	FortiAnalyzer may show an empty dashboard for SOC website when webfilter logs exist.
566609	Filters in Log View may not work properly with Edge.
566873	After enabled Privacy Masking, Incidents & Events shows unmasked data when double-click on a specific Event.
569766	Reports on FortiAnalyzer may not provide correct information for Bandwidth calculations.
569811	Drill-down in Authorized APs may not work correctly with the merge of FortiView and NOC-SOC.
569841	Admin users should be able to view logs when remote admin is authenticated as Realm/admin.

## Appendix A - Maximum number of ADOMs supported

FortiAnalyzer supports a specific number of ADOMs based on the version.

### Maximum number of ADOMs supported for hardware versions:

FortiAnalyzer Platform	Maximum number of ADOMs allowed
Desktop models	1
200F/300F/400F	25
800F/ 1000 Series	50
2000 Series	250
3000 Series	500
3700F and higher	800

### Maximum number of ADOMs supported for VMs:

FortiAnalyzer Platform	Maximum number of ADOMs allowed
FAZ-VM-BASE (1 GB/Day)	5
1 GB/Day < License <= 5 GB/Day	10
5 GB/Day < License <= 25 GB/Day	25
25 GB/Day < License <= 100 GB/Day	50
100 GB/Day < License <= 500 GB/Day	250
500 GB/Day < License <= 1000 GB/Day	500
1000 GB/Day < License <= 5000 GB/Day	800
License > 5000 GB/Day	1100



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