High Performance Network Security

FortiAnalyzer Release Notes

VERSION 5.2.6

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FortiAnalyzer 5.2.6 Release Notes

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Change Log

Date	Change Description
2016-03-17	Initial Release.
2016-03-21	Updated FortiGate supported models.
2016-03-31	Removed special notice "Authentication Settings for Log Aggregation".
2016-10-03	Added 356873 to Resolved Issues.
2017-02-01	Updated to add a special notice about Forward Compatibility with FortiOS 5.2.8 and Later.

Introduction

This document provides the following information for FortiAnalyzer version 5.2.6 build 753:

- Supported models
- Introduction
- Special Notices
- Upgrade Information
- Product Integration and Support
- Resolved Issues
- Known Issues

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

Supported models

FortiAnalyzer version 5.2.6 supports the following models:

FortiAnalyzer	FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400C, FAZ-400E, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-3500F, FAZ-3900E, and FAZ-4000B.
FortiAnalyzer VM	FAZ-VM32, FAZ-VM64, FAZ-VM64-HV, FAZ-VM64-XEN (Citrix XenServer and Open Source Xen), FAZ-VM64-KVM, and FAZ-VM64-AWS.

Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiAnalyzer version 5.2.6.

Forward Compatibility with FortiOS 5.2.8 and Later

Due to log field changes, FortiAnalyzer 5.2.6 is compatible with FortiOS/FortiOS Carrier 5.2.8 and later, but with possible interoperability issues. For full support, please upgrade to latest release of FortiAnalyzer.

Manually Starting LVM Service

If FortiAnalyzer does not have a valid Logical Volume Management (LVM) configuration, LVM service will not start on boot-up when the disk already contains data. Users will need to run `execute lvm start` to enable the service.

Hyper-V FortiManager-VM running on an AMD CPU

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

SSLv3 on 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 t1sv1
end
```

Limited support for remote SQL database

Starting with FortiAnalyzer software versions 5.0.7 and 5.2.0, remote SQL database support will only cover the insertion of log data into the remote MySQL database. Historical log search and reporting capabilities, which rely on the remote SQL data, will no longer be supported.

Those wishing to use the full set of FortiAnalyzer features are encouraged to switch as soon as possible to storing SQL data locally on the FortiAnalyzer. The local database can be built based upon existing raw logs already stored on the FortiAnalyzer.

SQL database rebuild

FortiAnalyzer 5.2.2 can receive new logs during SQL database rebuild.

FortiView, Log View, Event Management, and Reports are also available.However, all scheduled reports are skipped. It is recommended to generate reports only after finishing the database rebuilding process.

Device log settings

In version 5.2.1 and later you can configure local device logging in the GUI.

Log Array relocation

Log Array has been relocated to *Log View* under the *FortiView* module from the *Device Manager* module.

Log Arrays, devices, and VDOMs

In version 5.0.6 or earlier, when creating a Log Array with both devices and VDOMs, you need to select each device and VDOM to add it to the Log Array. In version 5.2.0 or later, when selecting to add a device with VDOMs, all VDOMs are automatically added to the Log Array.

Report grouping

If you are running a large number of reports which are very similar, you can significantly improve report generation time by grouping the reports. Report grouping can reduce the number of hcache tables and improve auto-hcache completion time and report completion time.

Step 1: Configure report grouping

To group reports whose titles contain the string `Security_Report` and are grouped by device ID and VDOM, enter the following CLI commands:

```
config system report group
   edit 0
      set adom root
      config group-by
         edit devid
         next
         edit vd
         next
   end
   set report-like Security_Report
   next
```

```
    end
```

Notes:

1. The `report-like` field is the name pattern of the report that will utilize the `report-group` feature. This string is case-sensitive.
2. The `group-by` value controls how cache tables are grouped.
3. To see a listing of reports and which ones have been included in the grouping, enter the following CLI command:
   ```
   execute sql-report list-schedule <ADOM>
   ```

Step 2: Initiate a rebuild of hcache tables

To initiate a rebuild of hcache tables, enter the following CLI command:

```
diagnose sql rebuild-report-hcache <start-time> <end-time>
```

Where `<start-time>` and `<end-time>` are in the format: `<yyyy-mm-dd hh:mm:ss>`.

Step 3: Perform an hcache-check for a given report

Perform an hcache-check for a given report to ensure that the hcache tables exactly match the start and end time frame for the report time period. Enter the following CLI command:

```
execute sql-report hcache-check <adom> <report_id> <start-time> <end-time>
```

If you do not run this command, the first report in the report group will take a little longer to run. All subsequent reports in that group will run optimally.

Generate reports during the database rebuild

After FortiAnalyzer is upgraded, the system may need to rebuild databases due to schema changes. Please note that the ability to generate accurate reports will be affected until the rebuild is complete.

Special characters in report name

FortiAnalyzer version 5.2 does not support the following special characters in report's name:

```
\ / ‘ “ > < & , |
```

If you wish to import a report, please make sure the above special characters are not used. Otherwise, FortiAnalyzer may not display the name properly.

Required changes to dataset

Due to database schema changes in version 5.2, the following rules must be followed by any existing or new datasets:

If your dataset references any IP related data, such as `srcip` or `dstip`, please use the `ipstr('…')` function to convert an IP address for proper display. For example, `ipstr('srcip')` returns the source IP in a string.

The column, status, has been changed to action. Please replace status with action in dataset query for proper status.

FortiAnalyzer 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 FortiAnalyzer VM.

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.

In version 5.0.5 or later, Explicit Proxy logs (logid=10) are checked when calculating the estimated browsing time.

FortiAnalyzer VM license check

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

Extended UTM log for Application Control

Upon upgrading to version 5.2.6, the application control log is not visible until you enable the extended UTM log in the FortiOS CLI.

To enable extended UTM log, use the following CLI command:

```
config application list
   edit <name>
      set extended-utm-log enable
end
```

ConnectWise Management Services Platform (MSP) support

ConnectWise Management Services Platform (MSP) is not supported in version 5.2.

Distributed upgrades

For Collector/Analyzer architecture upgrades, Fortinet recommends upgrading the Analyzer first.

> ⚠ Upgrading the Collector first could impact the Analyzer’s performance.

Upgrade Information

Upgrading to FortiAnalyzer 5.2.6

You can upgrade FortiAnalyzer 5.0.6 or later directly to 5.2.6.If you are upgrading from 5.0.5 or earlier, you will need to upgrade to FortiAnalyzer 5.0.6 first.

For details about upgrading your FortiAnalyzer, see *FortiAnalyzer 5.2.5 Upgrade Guide*.

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, Microsoft Hyper-V Server, and VMware ESX/ESXi virtualization environments.

Amazon Web Services

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

Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bits firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.out.OpenXen.zip`: Download the 64-bits 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-bits package for a new FortiAnalyzer VM installation. This package contains the Citrix XenServer Disk (VHD), and OVF files.

Linux KVM

- `.out`: Download the 64-bits firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.out.kvm.zip`: Download the 64-bits package for a new FortiAnalyzer 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 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.

VMware ESX/ESXi

- `.out`: Download either the 32-bit or 64-bit firmware image to upgrade your existing VM installation.
- `.ovf.zip`: Download either the 32-bit or 64-bit package for a new VM installation. This package contains an Open Virtualization Format (OVF) file for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.

For more information see the FortiManager product data sheet available on the Fortinet web site, http://www.fortinet.com/products/fortimanager/virtualappliances.html. VM installation guides are available in the Fortinet Document Library.

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

FortiAnalyzer version 5.2.6 support

The following table lists FortiAnalyzer version 5.2.6 product integration and support information:

Web browsers	• Microsoft Internet Explorer version 11 • Mozilla Firefox version 45 • Google Chrome version 49 Other web browsers may function correctly, but are not supported by Fortinet.
FortiOS/FortiOS Carrier	FortiAnalyzer 5.2.6 expects to support the following versions: • 5.2.0–5.2.7 See Forward Compatibility with FortiOS 5.2.8 and Later on page 7. • 5.0.0 and later • 4.3.2 and later For the latest information, see FortiOS and FortiAnalyzer Compatibility at http://docs.fortinet.com/d/fortianalyzer-compatibility
FortiAnalyzer	• 5.2.0 and later • 5.0.0 and later
FortiCache	• 3.0.0 and later
FortiClient	• 5.2.0 and later • 5.0.4 and later
FortiMail	• 5.2.4–5.2.7 • 5.1.6 • 5.0.9
FortiManager	• 5.2.0 and later • 5.0.0 and later
FortiSandbox	• 1.4.0 and later
FortiWeb	• 5.3.8 • 5.2.4 • 5.1.4 • 5.0.6

Syslog	• Standard syslog
Virtualization	• Amazon Web Service AMI, Amazon EC2, Amazon EBS • Citrix XenServer 6.2 • Linux KVM Redhat 6.5 • Microsoft Hyper-V Server 2008 R2, 2012, and 2012 R2 • OpenSource XenServer 4.2.5 **VMware** • ESX versions 4.0 and 4.1 • ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, and 6.0

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

Feature support

The following table lists FortiAnalyzer feature support for log devices.

Feature support per platform

Platform	Log View	FortiView	Event Management	Reports
FortiGate	✔	✔	✔	✔
FortiCarrier	✔	✔	✔	✔
FortiAnalyzer	✔		✔	
FortiCache	✔		✔	✔
FortiClient	✔			
FortiMail	✔		✔	✔
FortiManager	✔		✔	
FortiSandbox	✔		✔	
FortiWeb	✔		✔	✔
Syslog	✔		✔	

Language support

The following table lists FortiAnalyzer language support information.

Language support

Language	GUI	Reports	Documentation
English	✓	✓	✓
Chinese (Simplified)	✓	✓	
Chinese (Traditional)	✓	✓	
French		✓	
Japanese	✓	✓	
Korean	✓	✓	
Portuguese		✓	
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 *FortiAnalyzer CLI Reference*.

Supported models

The following tables list which FortiGate, FortiCarrier, FortiAnalyzer, FortiMail, FortiManager, FortiWeb, FortiCache, and FortiSandbox models and firmware versions can log to a FortiAnalyzer appliance running version 5.2.6. Please ensure that the log devices are supported before completing the upgrade.

Supported FortiGate models

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-310B, 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-1200D, FG-1240B, FG-1500D, FG-1500DT, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3810A, FG-3810D, FG-3815D, FG-3950B, FG-3951B **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-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810A-DC,FG-3810D-DC, FG-3950B-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-620B-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-310B-LENC, FG-600C-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC **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-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN **FortiSwitch:** FCT-5902D, FS-5203B	5.2

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-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-500D, FG-600C, FG-620B, FG-621B, FG-800C, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3810A, FG-3950B, FG-3951B, FGT-3000D **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-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC **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-POE, FWF-60D-3G4G-VZW, FG-70D-POE, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D **FortiGate Rugged:** FGR-60D, FGR-90D, FGR-100C **FortiGateVoice:** FGV-40D2, FGV-70D4 **FortiGate VM**: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-Azure, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN **FortiSwitch:** FS-5203B, FCT-5903C, FCT-5913	5.0

Model	Firmware Version
FortiGate: 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-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 **FortiGate 5000 Series:** FG-5001, FG-5001A, FG-5001A-SW, FG-5001A-LENC, FG-5001A-DW-LENC, FG-5001A-SW-LENC, FG-5001B, FG-5001C, FG-5001FA2, FG-5001FA2-LENC, FG-5002A, FG-5002A-LENC, FG-5002FB2, FG-5005FA2, FG-5005FA2-2G, FG-5005FA2-4G, FG-5101C **FortiGate DC:** 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 **FortiGate Low Encryption:** 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-620B-LENC, FG-1000A-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 **FortiWiFi:** 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 **FortiGate Rugged:** FGR-100C **FortiGate One:** FG-ONE **FortiGate VM:** FG-VM, FG-VM64, FG-VM64-XEN, FG-VMX **FortiSwitch:** FS-5203B	4.3

Supported FortiCarrier models

Model	Firmware Version
FortiCarrier: FCR-3240C, FCR-3600C, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5001D, FCR-5101C **FortiCarrier DC:** FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3950B-DC, FCR-3951B-DC **FortiCarrier Low Encryption:** FCR-5001A-DW-LENC **FortiCarrier VM:** FCR-VM, FCR-VM64	5.2

Model	Firmware Version
FortiCarrier: FCR-3240C, FCR-3600C, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5101C **FortiCarrier DC:** FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3950B-DC, FCR-3951B-DC **FortiCarrier Low Encryption:** FCR-5001A-DW-LENC **FortiCarrier VM:** FCR-VM, FCR-VM64	5.0
FortiCarrier:FCR-60B, FCR-60C, 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-3951B-DC **FortiCarrier Low Encryption:** FCR-5001A-DW-LENC	4.3

Supported FortiAnalyzer models

Model	Firmware Version
FortiAnalyzer: FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400C, FAZ-400E, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-3500F, FAZ-3900E, FAZ-4000B **FortiAnalyzer VM:** FAZ-VM32, FAZ-VM64, FAZ-VM64-HV	5.2
FortiAnalyzer: FAZ-100C, FAZ-200D, FAZ-300D, 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-VM32, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-HV	5.0

Supported FortiCache models

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

Supported FortiMail models

Model	Firmware Version
FortiMail: FE-200D, FE-400C, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B **FortiMail VM:** FE-VM64, FE-VM64-HV, FE-VM64-XEN	5.2
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	5.1
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

Supported FortiManager models

Model	Firmware Version
FortiManager: FMG-100C, FMG-200D, FMG-300D, FMG-300E, FMG-400C, FMG-400E, FMG-1000C, FMG-1000D, FMG-3000C, FMG-3900E, FMG-4000D, FMG-4000E **FortiManager VM:** FMG-VM32, FMG-VM64,FMG-VM64-AWS, FMG-VM64-HV, FMG-VM64-KVM, FMG-VM64-XEN	5.2
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. **FortiManager VM:** FMG-VM32, FMG-VM64, FMG-VM64-HV	5.0

Supported FortiSandbox models

Model	Firmware Version
FortiSandbox: FSA-1000D, FSA-3000D **FortiSandbox VM:** FSA-VM	2.0 1.4

Supported FortiWeb models

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

Resolved Issues

The following issues have been fixed in FortiAnalyzer version 5.2.6. For inquires about a particular bug, please contact Customer Service & Support.

Device Manager

Bug ID	Description
292606	FortiAnalyzer recognizes FortiADC's logs as FortiAnalyzer's logs, which causes internal error.

Event Management

Bug ID	Description
299664	The PRI field is missing from the Syslog alerts generated by Event Management.

FortiView

Bug ID	Description
355889	FortiAnalyzer may not be able to show traffic log and return a query failed error.
309132	FortiAnalyzer GUI shows wrong event subtypes for FortiMail.
308847	Users may not be able to view logs if there is a corrupted entry.
298943	Horizontal scroll bar is not shown when viewing real-time logs in Firefox.
298726	FortiView Top Threats drill down may not show any results.
279389	Japanese characters displayed under *Data Leak Prevention* archive logs are garbled.
266847	SQL database is queried twice when adding filters to Log View and downloading the view.

Logging

Bug ID	Description
356293	Host name cannot be imported from wlogs into the traffic logs of FortiAnalyzer.
355753	After a FortiGate device is deleted from an HA cluster, its log files are not removed from the disk.
309353	FortiManager may not be able to receive logs from a FortiGate HA cluster.

Bug ID	Description
299509	IPv6 logs that are sent to Syslog server via log forwarding are different from the logs sent by FortiGate.
295987	The total traffic volume shown in reports is sufficiently larger than the actual traffic volume.

Reporting

Bug ID	Description
306989	Filter may not get applied in user reports.
300877	Users should be able to create tables from datasets.
300569	Internal SQL query for report generation fails while the dataset returns data correctly.
298217	The report data for Active Traffic Users is inconsistent with the dataset output.
295182	The User Filter in report configuration cannot handle username with the comma character.
231536	A Group Report should not be generated when the Multiple Reports (Per-Device) option is selected.

Others

Bug ID	Description
355841	The runFazReport API returns error message "Maximum filter length should be no more than 512 chars" when the user filter list is long.
296481	Macro data is not included in the report_data.txt file.
296228	Added TLS v1.1 and TLS v1.2 support for logging.
295051	The XML API listFazGeneratedReports always returns report name with prefix "S-{layout-id}_t{layout-id}-".
294453	Some SOAP API may not close connection under certain conditions.

Common Vulnerabilities and Exposures

Bug ID	Description
356873	FortiAnalyzer 5.2.6 is no longer vulnerable to the following CVE-References: • 2016-0702 • 2016-0703 • 2016-0704 • 2016-0705 • 2016-0797 • 2016-0798 • 2016-0799 Visit https://fortiguard.com/psirt for more information.

Known Issues

The following issues have been identified in FortiAnalyzer version 5.2.6. For inquires about a particular bug or to report a bug, please contact Fortinet Customer Service & Support.

Device Manager

Bug ID	Description
279319	Device Manager may display non-existing VDOMs with strange characters.

FortiView

Bug ID	Description
356073	FortiView has a discrepancy between FortiGate and FortiAnalyzer regarding the sent/received bytes value.

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