



# FortiManager - Release Notes

Version 6.4.11

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FortiManager 6.4.11 Release Notes

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# Change Log

Date	Change Description
2023-03-01	Initial release.
2023-03-08	Add 889563 to <a href="#">Known Issues on page 42</a>
2023-03-13	Updated <ul style="list-style-type: none"><li>• <a href="#">Known Issues on page 42</a></li><li>• <a href="#">FortiGate special branch models on page 25</a></li><li>• <a href="#">FortiCarrier special branch models on page 29</a></li></ul>
2023-04-14	Updated <a href="#">FortiOS/FortiOS Carrier on page 17</a> .
2023-04-17	Updated <a href="#">Resolved Issues on page 37</a> .
2023-07-12	Updated <a href="#">Special Notices on page 9</a> , <a href="#">Resolved Issues on page 37</a> , and <a href="#">Known Issues on page 42</a> .
2023-11-21	Updated <a href="#">FortiGate models on page 22</a> .

# FortiManager 6.4.11 Release

This document provides information about FortiManager version 6.4.11 build 2581.



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

This section includes the following topics:

- [Supported models on page 7](#)
- [FortiManager VM subscription license on page 7](#)
- [Management extension applications on page 8](#)

## Supported models

FortiManager version 6.4.11 supports the following models:

<b>FortiManager</b>	FMG-200F, FMG-200G, FMG-300E, FMG-300F, FMG-400E, FMG-400G, FMG-1000F, FMG-2000E, FMG-3000F, FMG-3000G, FMG-3700F, FMG-3700G, FMG-3900E, and FMG-4000E.
<b>FortiManager VM</b>	FMG-VM64, FMG-VM64-Ali, FMG-VM64-AWS, FMG-VM64-AWSOnDemand, FMG-VM64-Azure, FMG-VM64-GCP, FMG-VM64-HV (including Hyper-V 2016, 2019), FMG-VM64-KVM, FMG-VM64-OPC, FMG-VM64-XEN (for both Citrix and Open Source Xen).

## FortiManager VM subscription license

The FortiManager VM subscription license supports FortiManager version 6.4.1 and later. For information about supported firmware, see [FortiManager VM firmware on page 13](#).

See also [Appendix B - Default and maximum number of ADOMs supported on page 45](#).



You can use the FortiManager VM subscription license with new FMG-VM installations. For existing FMG-VM installations, you cannot upgrade to a FortiManager VM subscription license. Instead, you must migrate data from the existing FMG-VM to a new FMG-VM with subscription license.

## Management extension applications

The following section describes supported models and minimum system requirements for management extension applications (MEA) in FortiManager 6.4.11.



FortiManager uses port TCP/4443 to connect to the Fortinet registry and download MEAs. Ensure that the port is also open on any upstream FortiGates. For more information about incoming and outgoing ports, see the [FortiManager 6.4 Ports and Protocols Guide](#).

## Supported models for MEA

You can use any of the following FortiManager models as a host for management extension applications:

<b>FortiManager</b>	FMG-3000F, FMG-3000G, FMG-3700F, FMG-3700G, FMG-3900E, and FMG-4000E.
<b>FortiManager VM</b>	FMG-VM64, FMG-VM64-Ali, FMG-VM64-AWS, FMG-VM64-AWSOnDemand, FMG-VM64-Azure, FMG-VM64-GCP, FMG-VM64-HV (including Hyper-V 2016, 2019), FMG-VM64-KVM, FMG-VM64-OPC, FMG-VM64-XEN (for both Citrix and Open Source Xen).

## Minimum system requirements

Some management extension applications supported by FortiManager 6.4.11 have minimum system requirements. See the following table:

Management Extension Application	Minimum system requirement
<b>SD-WAN Orchestrator</b>	At least 12GB of memory is recommended to support SD-WAN Orchestrator MEA.
<b>Wireless Manager (WLM)</b>	A minimum of 4 CPU cores and 8 GB RAM is typically required. Depending on the number of running applications, the allocated resources should be increased.



# Special Notices

This section highlights some of the operational changes that administrators should be aware of in 6.4.11.

## Trusted Hosts

In FortiManager 6.4.11 and higher, when you set trusted hosts for all administrators, the FortiManager unit cannot be pinged from any other hosts. For more information, see Trusted Hosts the [FortiManager Administration Guide](#).

## FortiManager 6.4.11 GUI issues in Google Chrome and Microsoft Edge

The FortiManager 6.4.11 GUI may not work properly in Google Chrome version 114 (114.0.5735.91) and Microsoft Edge version 114 (114.0.1823.37).

For information about supported web browsers, see [Web browsers on page 17](#).

## FortiManager creates faulty dynamic mapping for VPN manager interface during PP import

If policy changes are made directly on the FortiGates, the subsequent PP import creates faulty dynamic mappings for VPN manager.

It is strongly recommended to create a fresh backup of the FortiManager's configuration prior to this workaround. Perform the following command to check & repair the FortiManager's configuration database:

```
diagnose cdb check policy-packages <adom>
```

After executing this command, FortiManager will remove the invalid mappings of vpnmgr interfaces.

## View Mode is disabled in policies when policy blocks are used

When policy blocks are added to a policy package, the *View Mode* option is no longer available, and policies in the table cannot be arranged by *Interface Pair View*. This occurs because policy blocks typically contain multiple policies using different incoming and outgoing interfaces, however, *View Mode* is still disabled even when policy blocks respect the interface pair.

## Custom signature filenames

Custom signature filenames are limited to a maximum of 50 characters because FortiManager appends the VDOM suffix to custom signature filenames when FortiGate uses VDOMs.

## SDN fabric connectors

According to the current design, SDN fabric connectors are installed on all FortiGates in an ADOM, even if the fabric connectors are not in use. See also bug ID 496870 in [Known Issues on page 42](#).

**Workaround:** Place FortiGates in another ADOM when you do not want to install SDN fabric connectors to the devices.

## ADOM version enforcement

Starting in FortiManager 6.4.6, ADOM versions are enforced. ADOM version N and N+1 are allowed, and the enforcement affects policy package installation.

For example, if you have ADOM version 6.0, and it contains a FortiGate running FortiOS 6.4, you cannot install a version 6.0 policy package to the FortiGate. The policy package installation fails with the following error message: `Device preparation failed: version mismatched, adom:6.0; dev:6.4.`

## Management Extension Applications (MEA) and upgrade

Upgrading FortiManager when Management Extension Applications (MEA) are enabled may reset your *System Settings* to the default settings.

To prevent your *System Settings* from being lost, please disable all Management Extension Applications (MEA) prior to upgrading FortiManager.

## Policy Hit Count on unused policy

FortiManager 6.4.3 and later no longer displays policy hit count information on the *Policy & Objects > Policy Packages* pane. However, you can view hit count information by using the *Unused Policies* feature and clearing the *Unused Only* checkbox. For more information, see the [FortiManager 6.4 New Features Guide](#).

## Wireless Manager (FortiWLM) not accessible

If Wireless Manager was enabled in FortiManager 6.4.0, you can no longer access it in the FortiManager GUI when you upgrade FortiManager to 6.4.2. When you try to access FortiWLM, you are redirected to the FortiManager dashboard.

## SD-WAN Orchestrator not accessible

If SD-WAN Orchestrator was enabled in FortiManager 6.4.1, you can no longer access it in the FortiManager GUI after upgrading to FortiManager 6.4.2.

To workaroud this issue, run the following CLI command to manually trigger an update of SD-WAN Orchestrator to 6.4.1 r2:

```
diagnose docker upgrade sdwancontroller
```

## Support for FortiOS 6.4 SD-WAN Zones

In 6.4 ADOMs, SD-WAN member interfaces are grouped into SD-WAN zones. These zones can be imported as normalized interfaces and used in firewall policies.



Customers upgrading FortiGates from FortiOS 6.2 to 6.4 who cannot upgrade the ADOM are advised to temporarily disable SD-WAN central management until they can upgrade the ADOM to 6.4. This is to prevent FortiManager from attempting to delete the newly created SD-WAN zones on the FortiGate.

---

## FortiGuard Rating Services with FortiGate 6.4.1 or Later

FortiManager 6.4.1 or later is the supported version to provide FortiGuard rating services to FortiGate 6.4.1 or later.

## Citrix XenServer default limits and upgrade

Citrix XenServer limits ramdisk to 128M by default. However the FMG-VM64-XEN image is larger than 128M. Before updating to FortiManager 6.4, increase the size of the ramdisk setting on Citrix XenServer.

### To increase the size of the ramdisk setting:

1. On Citrix XenServer, run the following command:

```
xenstore-write /mh/limits/pv-ramdisk-max-size 536,870,912
```

2. Confirm the setting is in effect by running `xenstore-ls`.

```
-----  
limits = ""  
pv-kernel-max-size = "33554432"  
pv-ramdisk-max-size = "536,870,912"  
boot-time = ""  
-----
```

3. Remove the pending files left in `/run/xen/pygrub`.



The ramdisk setting returns to the default value after rebooting.

---

## Multi-step firmware upgrades

Prior to using the FortiManager to push a multi-step firmware upgrade, confirm the upgrade path matches the path outlined on our support site. To confirm the path, please run:

```
dia fwmanager show-dev-upgrade-path <device name> <target firmware>
```

Alternatively, you can push one firmware step at a time.

## 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 FortiManager-VM64-AWS

Due to known vulnerabilities in the SSLv3 protocol, FortiManager-VM64-AWS only enables TLSv1 by default. All other models enable both TLSv1 and SSLv3. If you wish to disable SSLv3 support, please run:

```
config system global  
set ssl-protocol tlsv1  
end
```

# Upgrade Information

You can upgrade FortiManager 6.2.0 or later directly to 6.4.11.



For other upgrade paths and details about upgrading your FortiManager device, see the *FortiManager Upgrade Guide*.

---

This section contains the following topics:

- [Downgrading to previous firmware versions on page 13](#)
- [Firmware image checksums on page 13](#)
- [FortiManager VM firmware on page 13](#)
- [SNMP MIB files on page 15](#)

## Downgrading to previous firmware versions

FortiManager does not provide a full downgrade path. You can downgrade to a previous firmware release via the GUI or CLI, but doing so results in configuration loss. In addition the local password is erased.

A system reset is required after the firmware downgrading process has completed. To reset the system, use the following CLI commands via a console port connection:

```
execute reset {all-settings | all-except-ip}  
execute format {disk | disk-ext4 | disk-ext3}
```

## Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. After logging in select *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

## FortiManager VM firmware

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

## Aliyun

- `.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.

## Amazon Web Services

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

## Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the QCOW2 file for the Open Source Xen Server.
- `.out.CitrixXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the Citrix XenServer Virtual Appliance (XVA), Virtual Hard Disk (VHD), and OVF files.

## Linux KVM

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

## Microsoft Azure

The files for Microsoft Azure have AZURE in the filenames, for example `FMG_VM64_AZURE-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiManager VM installation.

## Microsoft Hyper-V Server

The files for Microsoft Hyper-V Server have HV in the filenames, for example, `FMG_VM64_HV-v<number>-build<number>-FORTINET.out.hyperv.zip`.

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



Microsoft Hyper-V 2016 is supported.

---

## VMware ESX/ESXi

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



For more information see the [FortiManager Data Sheet](#) available on the Fortinet web site. 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 FortiManager version 5.00 file folder.

# Product Integration and Support

This section lists FortiManager 6.4.11 support of other Fortinet products. It also identifies what FortiManager features are supported for managed platforms and what languages FortiManager supports. It also lists which Fortinet models can be managed by FortiManager.

The section contains the following topics:

- [FortiManager 6.4.11 support on page 16](#)
- [Feature support on page 20](#)
- [Language support on page 21](#)
- [Supported models on page 21](#)

## FortiManager 6.4.11 support

This section identifies FortiManager 6.4.11 product integration and support information:

- [Web browsers on page 17](#)
- [FortiOS/FortiOS Carrier on page 17](#)
- [FortiADC on page 17](#)
- [FortiAnalyzer on page 17](#)
- [FortiAuthenticator on page 17](#)
- [FortiCache on page 17](#)
- [FortiClient on page 18](#)
- [FortiDDoS on page 18](#)
- [FortiFirewall and FortiFirewallCarrier on page 18](#)
- [FortiMail on page 18](#)
- [FortiSandbox on page 19](#)
- [FortiSOAR on page 19](#)
- [FortiSwitch ATCA on page 19](#)
- [FortiTester on page 19](#)
- [FortiWeb on page 19](#)
- [Virtualization on page 20](#)



To confirm that a device model or firmware version is supported by the current firmware version running on FortiManager, run the following CLI command:

```
diagnose dvm supported-platforms list
```



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

---



## Web browsers

This section lists FortiManager 6.4.11 product integration and support for web browsers:

- Microsoft Edge 80 (80.0.361 or later)
- Mozilla Firefox version 91
- Google Chrome version 92

Other web browsers may function correctly, but are not supported by Fortinet.

## FortiOS/FortiOS Carrier

This section lists FortiManager 6.4.11 product integration and support for FortiOS/FortiOS Carrier:

- 6.4.0 to 6.4.12
- 6.2.0 to 6.2.14
- 6.0.0 to 6.0.16

## FortiADC

This section lists FortiManager 6.4.11 product integration and support for FortiADC:

- 6.0.1
- 5.4.4

## FortiAnalyzer

This section lists FortiManager 6.4.11 product integration and support for FortiAnalyzer:

- 6.4.0 and later
- 6.2.0 and later
- 6.0.0 and later
- 5.6.0 and later
- 5.4.0 and later

## FortiAuthenticator

This section lists FortiManager 6.4.11 product integration and support for FortiAuthenticator:

- 6.0. to 6.3
- 5.0 to 5.5
- 4.3

## FortiCache

This section lists FortiManager 6.4.11 product integration and support for FortiCache:

- 4.2.9
- 4.1.6
- 4.0.4

## FortiClient

This section lists FortiManager 6.4.11 product integration and support for FortiClient:

- 6.4.0 and later
- 6.2.1 and later
- 6.0.0 and later
- 5.6.0 and later
- 5.4.0 and later

## FortiDDoS

This section lists FortiManager 6.4.11 product integration and support for FortiDDoS:

- 5.4.2
- 5.3.1
- 5.2.0
- 5.1.0
- 5.0.0
- 4.7.0
- 4.6.0
- 4.5.0
- 4.4.2
- 4.3.2
- 4.2.3

Limited support. For more information, see [Feature support on page 20](#).

## FortiFirewall and FortiFirewallCarrier

This section lists FortiManager 6.4.11 product integration and support for FortiFirewall and FortiFirewallCarrier:

- 6.4 or later

## FortiMail

This section lists FortiManager 6.4.11 product integration and support for FortiMail:

- 6.4.0 and later
- 6.2.0 and later
- 6.0.10 and later

- 5.4.12
- 5.3.13

## FortiSandbox

This section lists FortiManager 6.4.11 product integration and support for FortiSandbox:

- 4.0.2
- 3.2.2
- 3.1.4
- 3.0.6
- 2.5.2
- 2.4.1
- 2.3.3
- 2.2.2

## FortiSOAR

This section lists FortiManager 6.4.11 product integration and support for FortiSOAR:

- 6.4.0 and later
- 6.0.0 and later

## FortiSwitch ATCA

This section lists FortiManager 6.4.11 product integration and support for FortiSwitch ATCA:

- 5.2.3
- 5.0.0 and later

## FortiTester

This section lists FortiManager 6.4.11 product integration and support for FortiTester:

- 3.9
- 3.8
- 3.7

## FortiWeb

This section lists FortiManager 6.4.11 product integration and support for FortiWeb:

- 6.3.15
- 6.2.5
- 6.1.2
- 6.0.7

- 5.9.1
- 5.8.6
- 5.7.2
- 5.6.1
- 5.5.6
- 5.4.1

## Virtualization

This section lists FortiManager 6.4.11 product integration and support for virtualization:

- Amazon Web Services (AWS)
- Citrix XenServer 6.0+ and Open Source Xen 4.1+
- Linux KVM
- Microsoft Azure
- Microsoft Hyper-V 2008 R2, 2012, 2012 R2, 2016, and 2019
- VMware ESX/ESXi 6.5 and later
- Nutanix AHV (AOS 5.10.5)
- Google Cloud (GCP)
- Oracle Cloud Infrastructure (OCI)
- Alibaba Cloud (AliCloud)

## Feature support

The following table lists FortiManager feature support for managed platforms.

Platform	Management Features	FortiGuard Update Services	Reports	Logging
FortiGate	✓	✓	✓	✓
FortiCarrier	✓	✓	✓	✓
FortiADC		✓		
FortiAnalyzer			✓	✓
FortiAuthenticator				✓
FortiCache			✓	✓
FortiClient		✓	✓	✓
FortiDDoS			✓	✓
FortiMail		✓	✓	✓

Platform	Management Features	FortiGuard Update Services	Reports	Logging
FortiSandbox		✓	✓	✓
FortiSOAR		✓		
FortiSwitch ATCA	✓			
FortiWeb		✓	✓	✓
Syslog				✓

## Language support

The following table lists FortiManager language support information.

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

To change the FortiManager language setting, go to *System Settings > Admin > Admin Settings*, in *Administrative Settings > Language* select the desired language on the drop-down menu. The default value is *Auto Detect*.

Russian, Hebrew, and Hungarian are not included in the default report languages. You can create your own language translation files for these languages by exporting a predefined language from FortiManager, modifying the text to a different language, saving the file as a different language name, and then importing the file into FortiManager. For more information, see the *FortiAnalyzer Administration Guide*.

## Supported models

The following tables list which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch ATCA, FortiWeb, FortiCache, FortiProxy, and FortiAuthenticator models and firmware versions that can be managed by a FortiManager or send logs to a FortiManager running version 6.4.11.



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 22](#)
- [FortiGate special branch models on page 25](#)
- [FortiCarrier models on page 28](#)
- [FortiCarrier special branch models on page 29](#)
- [FortiADC models on page 31](#)
- [FortiAnalyzer models on page 31](#)
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## FortiGate models

Model	Firmware Version
<b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-601E, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F	6.4

Model	Firmware Version
<b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1 <b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC <b>FortiGate Hardware Low Encryption:</b> FortiGate-100D-LENC <b>FortiWiFi:</b> FortiWiFi-40F, FortiWiFi-40F-3G4G, FortiWiFi-60E, FortiWiFi-60E-DSL, FortiWiFi-60E-DSLJ, FortiWiFi-61E, FortiWiFi-60F, FortiWiFi-61E, FortiWiFi-61F <b>FortiGate VM:</b> FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-AWS, FortiGate-VM64-AZURE, FortiGate-VM64-AZUREONDEMAND, FortiGate-VM64-GCP, FortiGate-VM64-GCPONDEMAND, FortiGate-VM64-HV, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-Xen, FortiGate-VMX-Service-Manager, FortiGate-VM64-IBM <b>FortiOS:</b> FortiOS-VM64, FortiOS-VM64-HV, FortiOS-VM64-KVM, FortiOS-VM64-Xen <b>FortiGateRugged:</b> FortiGateRugged-60F, FortiGateRugged-60F-3G4G	
<b>FortiGate:</b> FortiGate-30E, FortiGate-30E-3G4G-INTL, FortiGate-30E-3G4G-NAM, FortiGate-40F, FortiGate-40F-3G4G, FortiGate-50E, FortiGate-51E, FortiGate-52E, FortiGate-60E, FG-60E-DSL, FortiGate-60E-POE, FortiGate-61E, FortiGate-60F, FortiGate-61F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-90E, FortiGate-91E, FortiGate-92D, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-101E, FortiGate-100F, FortiGate-101F, FortiGate-140D, FortiGate-140D-POE, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-201E, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-400E-Bypass, FortiGate-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-1100E, FortiGate-1101E, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E <b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1 <b>FortiGate DC:</b> FortiGate-80C-DC, FortiGate-401E-DC, FortiGate-600C-DC, FortiGate-800C-DC, FortiGate-800D-DC, FortiGate-1000C-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3240C-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-DC, FortiGate-3980E-DC <b>FortiGate Hardware Low Encryption:</b> FortiGate-80C-LENC, FortiGate-600C-LENC, FortiGate-1000C-LENC	6.2

Model	Firmware Version
<b>FortiWiFi:</b> FortiWiFi-30E, FortiWiFi-30E-3G4G-INTL, FortiWiFi-30E-3G4G-NAM, FortiWiFi-40F, FortiWiFi-40F-3G4G, FortiWiFi-50E, FortiWiFi-50E-2R, FortiWiFi-51E, FortiWiFi-60E, FortiWiFi-60E-DSL, FortiWiFi-60E-DSLJ, FortiWiFi-60F, FortiWiFi-61E, FortiWiFi-61F, FortiWiFi-80F-2R, FortiWiFi-81F-2R, FortiWiFi-81F-2R-POE <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 <b>FortiGate Rugged:</b> FortiGateRugged-30D, FortiGateRugged-30D-ADSL-A, FortiGateRugged-35D, FortiGateRugged-60F, FortiGateRugged-60F-3G4G <b>FortiOS:</b> FortiOS-VM64, FortiOS-VM64-HV, FortiOS-VM64-KVM, FortiOS-VM64-Xen	
<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-DSLJ, FG-60E-POE, FortiGate-60F, FortiGate-61F, 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-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-800D, FG-900D, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FortiGate-3600E, FortiGate-3601E, FG-3700D, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E <b>FortiGate 5000 Series:</b> FG-5001D, FG-5001E, FG-5001E1 <b>FortiGate 6000 Series:</b> FortiGate-6000F, FortiGate-6300F, FortiGate-6301F, FortiGate-6500F, FortiGate-6501F, FortiGate-6300F-DC, FortiGate-6301F-DC, FortiGate-6500F-DC, FortiGate-6501F-DC <b>FortiGate 7000 Series:</b> FortiGate-7000E, FortiGate-7030E, FortiGate-7040E, FortiGate-7060E, FortiGate-7060E-8-DC, FortiGate-7000F, FortiGate-7121F <b>FortiGate DC:</b> FG-401E-DC, FG1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3600E-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815D-DC <b>FortiGate Hardware Low Encryption:</b> FG-100D-LENC, FG-600C-LENC <b>Note:</b> All license-based LENC is supported based on the FortiGate support list. <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, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-90D, FWF-90D-POE, FWF-92D <b>FortiGate VM:</b> FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, 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 <b>FortiGate Rugged:</b> FGR-30D, FGR-35D, FGR-60D, FGR-90D	6.0



## FortiGate special branch models

The following FortiGate models are released on special branches of FortiOS. FortiManager version 6.4.11 supports these models on the identified FortiOS version and build number.

For information about supported FortiGate models released with FortiOS firmware, see [FortiGate models on page 22](#).

### FortiOS 6.4

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-400F	6.4.12	5429
FortiGate-401F		
FortiGate-600F	6.4.12	5429
FortiGate-601F		
FortiGate-3500F	6.4.6	5886
FortiGate-3501F		
FortiGate-6000F	6.4.12	1914
FortiGate-6300F		
FortiGate-6300F-DC		
FortiGate-6301F		
FortiGate-6301F-DC		
FortiGate-6500F		
FortiGate-6500F-DC		
FortiGate-6501F		
FortiGate-6501F-DC		
FortiGate-7000E		
FortiGate-7030E		
FortiGate-7040E		
FortiGate-7060E		
FortiGate-7060E-8-DC		
FortiGate-7000F	6.4.12	1914
FortiGate-7121F		
FortiGate-7121F-2		
FortiGate-7121F-2-DC		
FortiGate-7121F-DC		
FortiWiFi-80F-2R-3G4G-DSL	6.4.7	5003

## FortiOS 6.2

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-80D	6.2.13	5238
FortiGate-200F	6.2.13	7249
FortiGate-201F		
FortiGate-1800F	6.2.9	7197
FortiGate-1800F-DC		
FortiGate-1801F		
FortiGate-1801F-DC		
FortiGate-2600F	6.2.9	7197
FortiGate-2600F-DC		
FortiGate-2601F		
FortiGate-2601F-DC		
FortiGate-4200F	6.2.9	7197
FortiGate-4200F-DC		
FortiGate-4201F		
FortiGate-4201F-DC		
FortiGate-4400F	6.2.9	7197
FortiGate-4400F-DC		
FortiGate-4401F		
FortiGate-4401F-DC		
FortiGate-6000F	6.2.13	1271
FortiGate-6300F		
FortiGate-6300F-DC		
FortiGate-6301F		
FortiGate-6301F-DC		
FortiGate-6500F		
FortiGate-6500F-DC		
FortiGate-6501F		
FortiGate-6501F-DC		
FortiGate-7000E	6.2.13	1271
FortiGate-7030E		
FortiGate-7040E		
FortiGate-7060E		
FortiGate-7060E-8-DC		
FortiGate-7000F	6.2.13	1271
FortiGate-7121F		
FortiGate-7121F-2		

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-7121F-2-DC		
FortiGate-7121F-DC		
FortiWiFi-80F-2R-3G4G-DSL	6.2.6	7219
FortiWiFi-81F-2R-3G4G-DSL		
FortiWiFi-81F-2R-3G4G-POE	6.2.6	7099

## FortiOS 6.0

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-30E-3G4G-GBL	6.0.13	5486
FortiGate-40F	6.0.13	6887
FortiGate-40F-3G4G		
FortiGate-41F	6.0.6	6445
FortiGate-41F-3G4G	6.0.6	6674
FortiGate-60F	6.0.13	6890
FortiGate-61F		
FortiGate-100F	6.0.13	6890
FortiGate-101F		
FortiGate-1100E	6.0.13	6886
FortiGate-1100E-DC		
FortiGate-1800F	6.0.13	6889
FortiGate-1800F-DC		
FortiGate-1801F		
FortiGate-1801F-DC		
FortiGate-2200E	6.0.13	6888
FortiGate-2201E		
FortiGate-2201E-ACDC		
FortiGate-3300E	6.0.13	6888
FortiGate-3301E		
FortiGate-VM64-AZUREONDEMAND	6.0.13	5485
FortiGate-VM64-Azure		
FortiGate-VM64-RAXONDEMAND	6.0.13	9418
FortiWiFi-40F	6.0.13	6887
FortiWiFi-40F-3G4G		
FortiWiFi-41F	6.0.6	6674

FortiGate Model	FortiOS Version	FortiOS Build
FortiWiFi-41F-3G4G	6.0.6	6445
FortiWiFi-61F	6.0.13	6890

## FortiCarrier models

Model	Firmware Version
<b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3400E, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-4200F, FortiCarrier-4201F, FortiCarrier-4400F, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1 <b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC, FortiCarrier-4200F-DC, FortiCarrier-4201F-DC, FortiCarrier-4400F-DC <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	6.4
<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 <b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC <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	6.2
<b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-5001D, FortiCarrier-5001E <b>FortiCarrier 6000 Series:</b> FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6301F, FortiCarrier-6500F, FortiCarrier-6501F, FortiCarrier-6300F-DC, FortiCarrier-6301F-DC, FortiCarrier-6500F-DC, FortiCarrier-6501F-DC <b>FortiCarrier 7000 Series:</b> FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC, FortiCarrier-7000F, FortiCarrier-7121F, FortiCarrier-7121F-DC, FortiCarrier-7121F-2-DC <b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3960E-DC, FGT-3980E-DC	6.0

Model	Firmware Version
<b>FortiCarrier-VM:</b> FortiCarrier-VM, FortiCarrier-VM64, FortiCarrier-VM64-AWS, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen	

## FortiCarrier special branch models

The following FortiCarrier models are released on special branches of FortiOS Carrier. FortiManager version 6.4.11 supports these models on the identified FortiOS Carrier version and build number.

For information about supported FortiCarrier models released with FortiOS Carrier firmware, see [FortiCarrier models on page 28](#).

### FortiCarrier 6.4

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-3500F	6.4.6	5886
FortiCarrier-3501F	6.4.6	6132
FortiCarrier-6000F	6.4.12	1914
FortiCarrier-6300F		
FortiCarrier-6300F-DC		
FortiCarrier-6301F		
FortiCarrier-6301F-DC		
FortiCarrier-6500F		
FortiCarrier-6500F-DC		
FortiCarrier-6501F		
FortiCarrier-6501F-DC		
FortiCarrier-7000E	6.4.12	1914
FortiCarrier-7030E		
FortiCarrier-7040E		
FortiCarrier-7060E		
FortiCarrier-7060E-8-DC		
FortiCarrier-7000F	6.4.12	1914
FortiCarrier-7121F		
FortiCarrier-7121F-2		
FortiCarrier-7121F-2-DC		
FortiCarrier-7121F-DC		

## FortiCarrier 6.2

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-4200F	6.2.9	7197
FortiCarrier-4200F-DC		
FortiCarrier-4201F		
FortiCarrier-4201F-DC		
FortiCarrier-4400F	6.2.9	7197
FortiCarrier-4400F-DC		
FortiCarrier-4401F		
FortiCarrier-4401F-DC		
FortiCarrier-6000F	6.2.13	1271
FortiCarrier-6300F		
FortiCarrier-6300F-DC		
FortiCarrier-6301F		
FortiCarrier-6301F-DC		
FortiCarrier-6500F		
FortiCarrier-6500F-DC		
FortiCarrier-6501F		
FortiCarrier-6501F-DC		
FortiCarrier-7000E	6.2.13	1271
FortiCarrier-7030E		
FortiCarrier-7040E		
FortiCarrier-7060E		
FortiCarrier-7060E-8-DC		
FortiCarrier-7000F	6.2.13	1271
FortiCarrier-7121F		
FortiCarrier-7121F-2		
FortiCarrier-7121F-2-DC		
FortiCarrier-7121F-DC		

## FortiCarrier 6.0

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-VM64-Azure	6.0.13	5485

## FortiADC models

Model	Firmware Version
FortiADC-100F, FortiADC-200D, FortiADC-200F, FortiADC-300D, FortiADC-300F, FortiADC-400D, FortiADC-400F, FortiADC-700D, FortiADC-1000F, FortiADC-1500D, FortiADC-2000D, FortiADC-2000F, FortiADC-4000D, FortiADC-4000F, FortiADC-5000F, FortiADC-VM	6.0
FortiADC-100F, FortiADC-200D, FortiADC-200F, FortiADC-300D, FortiADC-300F, FortiADC-400D, FortiADC-400F, FortiADC-700D, FortiADC-1000F, FortiADC-1500D, FortiADC-2000D, FortiADC-2000F, FortiADC-4000D, FortiADC-4000F, FortiADC-5000F, FortiADC-VM	5.4

## FortiAnalyzer models

Model	Firmware Version
<b>FortiAnalyzer:</b> FortiAnalyzer-200F, FortiAnalyzer-300F, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-1000E, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3900E <b>FortiAnalyzer VM:</b> FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-ALI-OnDemand, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-AWSOnDemand, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-GCP-OnDemand, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-KVM-CLOUD, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen	6.4
<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. <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).	6.2
<b>FortiAnalyzer:</b> FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E. <b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-AWS, FMG-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).	6.0
<b>FortiAnalyzer:</b> FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E. <b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-AWS, FMG-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).	5.6

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

## FortiAuthenticator models

Model	Firmware Version
<b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E  <b>FortiAuthenticator VM:</b> FAC-VM	6.0 to 6.3
<b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000B, FAC-3000D, FAC-3000E  <b>FortiAuthenticator VM:</b> FAC-VM	5.0 to 5.5
<b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-3000B, FAC-3000D, FAC-3000E  <b>FortiAuthenticator VM:</b> FAC-VM	4.3

## 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



## FortiDDoS models

Model	Firmware Version
<b>FortiDDoS:</b> FortiDDoS-200B, FortiDDoS-400B, FortiDDoS-600B, FortiDDoS-800B, FortiDDoS-900B, FortiDDoS-1000B, FortiDDoS-1200B, FortiDDoS-1500E, FortiDDoS-2000B, FortiDDoS-2000E	5.2, 5.3
<b>FortiDDoS:</b> FI-200B, FI-400B, FI-600B, FI-800B, FI-900B, FI-1000B, FI-1200B, FI-1500B, FI-2000B, FI-2000E	5.1
<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, FI-3000B	4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.7

## FortiFirewall and FortiFirewallCarrier models

Model	Firmware Version
<b>FortiFirewall:</b> FortiFirewall-3980E, FortiFirewall-4200F, FortiFirewall-4400F <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F	6.4

## FortiFirewall and FortiFirewallCarrier special branch models

The following FortiFirewall and FortiFirewallCarrier models are released on a special branch. FortiManager supports these models.

Model	Firmware Version
<b>FortiFirewall:</b> FortiFirewall-1801F, FortiFirewall-2600F, FortiFirewall-4401F <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4401F	6.4

## FortiMail models

Model	Firmware Version
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM	6.4
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM	6.2
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM	6.0

Model	Firmware Version
<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 <b>FortiMail Low Encryption:</b> FE-3000C-LENC	5.4
<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 <b>FortiMail Low Encryption:</b> FE-3000C-LENC <b>FortiMail VM:</b> FE-VM64, FE-VM64-HV, FE-VM64-XEN	5.3

## 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, 1.2

## FortiSandbox models

Model	Firmware Version
<b>FortiSandbox:</b> FSA-500F, FSA-1000F, FSA-2000E, FSA-3000E, FSA-3000F <b>FortiSandbox-VM:</b> FSA-AWS, FSA-VM	4.0
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox-VM:</b> FSA-AWS, FSA-VM	3.2
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox-VM:</b> FSA-AWS, FSA-VM	3.1
<b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox VM:</b> FSA-AWS, FSA-VM	3.0
<b>FortiSandbox:</b> FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox VM:</b> FSA-KVM, FSA-VM	2.5.2
<b>FortiSandbox:</b> FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox VM:</b> FSA-VM	2.4.1 2.3.3
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D, FSA-3500D <b>FortiSandbox VM:</b> FSA-VM	2.2.0

## FortiSOAR models

Model	Firmware Version
<b>FortiSOAR VM:</b> FSR-VM	6.4
<b>FortiSOAR VM:</b> FSR-VM	6.0

## FortiSwitch ATCA models

Model	Firmware Version
<b>FortiController:</b> FTCL-5103B, FTCL-5902D, FTCL-5903C, FTCL-5913C	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

## FortiTester models

Model	Firmware Version
<b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2500E, FortiTester-3000E, FortiTester-4000E	3.9
<b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL	
<b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2500E, FortiTester-3000E, FortiTester-4000E	3.8
<b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL	
<b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2500E, FortiTester-3000E, FortiTester-4000E	3.7
<b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL	

## FortiWeb models

Model	Firmware Version
<b>FortiWeb:</b> FortiWeb-100D, FortiWeb-400C, FortiWeb-400D, FortiWeb-600D, FortiWeb-1000D, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-3000C, FortiWeb-3000CFSX, FortiWeb-3000D, FortiWeb-3000DFSX, FortiWeb-3000E, FortiWeb-3010E, FortiWeb-4000C, FortiWeb-4000D, FortiWeb-4000E	6.2, 6.3
<b>FortiWeb VM:</b> FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XENServer	

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
<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
<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
<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
<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
<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
<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-XENSERVEN, FWB-HYPERV	5.4

# Resolved Issues

The following issues have been fixed in 6.4.11. To inquire about a particular bug, please contact [Customer Service & Support](#).

## AP Manager

Bug ID	Description
822525	FortiManager does not take the per device mapping authentication config for SSID under the WiFi Profiles.

## Device Manager

Bug ID	Description
751961	SD_WAN monitor does not show the selected time period properly and instead displays the results in "hours".
789249	FortiManager does not have Logging Options after enabling One-Arm Sniffer under Interface.
794764	FortiGate Modem Interface is not visible under <i>Device Manager</i> .
800191	During the ZTP deployment, <code>set hostname</code> command does not push to FortiGate.
810936	After Upgrade, managed FortiAnalyzer on FortiManager does not display the <i>Traffic</i> logs under the <i>Log View</i> for HA devices.
812213	Default factory setting on FortiGate does not match with its default factory setting on FortiManager's DB. This causes status conflict if FortiGate is added to the FortiManager using the <i>Add Model Device</i> method.
820990	IPSec VPN deployment via ZTP creates some issues on the FortiGate routing.
828897	<i>SD-WAN Monitor</i> map doesn't load all devices.
830105	FortiManager attempts to install 1.0.0.0 as the remote-gw for all the phase1-interfaces when 2 or more IPsec phase1-interfaces have same remote-gw IP.
832599	When installing the <code>config system snmp community</code> settings to FortiGates, some of the entries are deleted.
842923	Auto-update fails to sync FortiManager's device DB when interfaces are modified directly in the root VDOM of the FortiGates.

Bug ID	Description
853810	Failed to edit the managed devices to modify the location.
855425	System Template and CLI Template config did not install to all model device FortiGates.
859638	FortiManager's <i>SD-WAN Monitor</i> does not display the Health Check status correctly.
860071	
866243	The SD-WAN Monitor info for specific devices are not consistent with the map view SD-WAN interface status (based on performance SLA).
866247	Unable to change the static route "Description" section in the <i>Device Manager</i> without editing the static route.
870848	<i>SD-WAN Monitor</i> under <i>Device Manager's Monitors</i> tab does not display any FortiGate devices which are running in 6.2 version.
874831	FortiManager attempts to install unknown and undesired static route when modifying or adding some new static routes.

## FortiSwitch Manager

Bug ID	Description
784525	IPv4 options cannot be defined in a per-device VLAN.

## Global ADOM

Bug ID	Description
789164	Unable to delete the web rating override entries from ADOM Global Database.
826522	Unable to remove global object from Global Database in workspace mode. <b>Workaround:</b> Unlock & lock the Global ADOM prior to deleting the Global Object and assigning changes to local ADOMs.

## Others

Bug ID	Description
707911	FortiManager should be able to assign VLAN interface to FortiExtender.
815875	After FortiManager's upgrade, device level status has been modified and Install preview

Bug ID	Description
	shows that pdf-report and <i>FortiView</i> features will be enabled on the FortiGates, even if these have already been enabled on the FortiGates before.
827120	FortiManager HA failed to be established in FIPS mode.
870893	Unable to install pp to FortiGates, after FortiManager's DB got restored.
876425	FortiManager does not display the output of the <code>execute dmserver showconfig</code> command.

## Policy and Objects

Bug ID	Description
716892	Exporting to "Excel/CSV" does not include the value for fields "Log & Last Modified By".
731961	When FortiManager is working in the workspace mode, the installation for those FortiManager with larger DB may take longer time to be completed.
738988	FortiManager does not detect the settings related to Web Cache Communication Protocol (WCCP) in SSLVPN Policies on the FortiGate.
742293	FortiManager, via ADOM 6.0, is not able to install <code>set logtraffic all</code> to proxy-policy with action <code>deny</code> .
795449	Unable to "Download Conflict File" to review the conflicts of firewall objects during import process.
814478	Once the normalized interface has been defined, FortiManager does not allow setting it to "None".
834401	Upgrading ADOMs do not complete if there are some empty values for "profile-type" and "utm-status".
835087	Policies cannot be edited as FortiManager displays a warning message, "Please select a SSL/SSH Inspection profile" in ADOM 6.2.
836783	FortiManager changes the <code>use-metadata-iam</code> value for the SDN connectors.
838648	"Rename objects to import" inconsistency with "datasrc duplicate" error.
841492	FortiManager unsets the system HA settings after pushing an unsuccessful installation Policy Package to FortiGates.
846222	Unable to perform the policy diff when both device and policy package are locked.
847932	Hit count for a policy package does not always match the total count of all installation targets.
863882	<i>Last Modified Time</i> field is empty when exporting Policy Packages to Excel.
870878	FortiManager's GUI does not display the color code or name for the selected color for objects once it is created.
882996	Unable to install to FortiGates when using null values for "local-gw6" and "remote-gw6".

## Script

Bug ID	Description
795639	Any commands after the <code>set secret</code> command in the <code>switch-controller custom-command</code> configuration is displayed in a form of encrypted strings.

## Services

Bug ID	Description
837942	In cascade mode, FortiManager as local FortiGaurd Server does not download IPS signature for extended database.

## System Settings

Bug ID	Description
841782	In Workflow mode, admins are not able to click on the "Approve this request" received from the emails as it displays "Unable to complete action" or "Invalid adom name" error messages.
853353	<i>SDWAN Monitor Map</i> does not show up when admin profile has been set to "None" for <i>System Settings</i> .
864931	Unable to login into FortiManager using TACACS and Radius credentials.
868706	SSO admin users do not have the same permissions as local users with the same assigned profiles.

## VPN Manager

Bug ID	Description
798995	It's not possible to delete an SSL VPN portal profile from the FortiManager GUI if the profile has already been installed.

## Common Vulnerabilities and Exposures

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



Bug ID	CVE references
872711	FortiManager 6.4.11 is no longer vulnerable to the following CVE-Reference: <ul style="list-style-type: none"><li>• CVE-2023-22642</li></ul>

# Known Issues

The following issues have been identified in 6.4.11. To inquire about a particular bug or to report a bug, please contact [Customer Service & Support](#).

## Device Manager

Bug ID	Description
692669	Browser may display a message, 'A webpage is slowing down your browser', while checking revision difference.
804142	Creating the "EMACVLAN" type Interface on FortiManager displays an error "VLAN ID is required".
817346	Editing interface with normalized interface mapping displays some unnecessary messages for mapping change.
836206	Devices aren't showing up on the <i>Device Manager</i> GUI.

## Others

Bug ID	Description
806522	Application websocket crashes and makes FortiManager's GUI unresponsive.
832351	FortiManager does not allow users to enter to the "root" ADOM; it displays the "ADOM license was expired..." message.
871608	Unable to retrieve routing information from Fortigate via FortiManager when there is a large routing table.
919088	GUI may not work properly in Google Chrome and Microsoft Edge version 114.

## Policy & Objects

Bug ID	Description
726105	CLI Only Objects may not be able to select FSSO interface.
774058	Rule list order may not be saved under <i>File Filter Profile</i> .

Bug ID	Description
803460	"User Definitions" entries under the "User & Authentication" cannot be removed from FortiManager.
827416	FortiManager does not display any copy failure errors when utilized objects do not have any default values or per-device mapping.
845022	SDN Connector failed to import objects from VMWare VSphere.
855073	The "where used" feature does not function properly.
870800	Even though each interface is mapped to be used in specific vdoms, the already mapped interface still can be selected for other VDOMs.
889563	<p>FortiManager, for ADOM version 6.4, does not support Creating, Importing, or Inserting Above and Below actions for a deny policy with a "Log Violation Traffic" disabled.</p> <p><b>Workarounds:</b></p> <ul style="list-style-type: none"> <li>To Insert, use copy &amp; paste instead of the using Insert Above/Below.</li> <li>To Create, either run script to create log disabled deny policy or enable log traffic first, and then edit the policy in order to disable and save it.</li> </ul>

## Revision History

Bug ID	Description
738376	Config revision diff check may highlight the differences in config even though the both revisions are exactly same.
801614	FortiManager might display an error message "Failed to create a new revision." for some FortiGates, when retrieving their configurations.

## VPN Manager

Bug ID	Description
784385	<p>If policy changes are made directly on the FortiGates, the subsequent PP import creates faulty dynamic mappings for <i>VPN Manager</i>.</p> <p><b>Workaround:</b></p> <p>It is strongly recommended to create a fresh backup of the FortiManager's configuration prior to this workaround. Perform the following command to check &amp; repair the FortiManager's configuration database:</p> <pre>diagnose cdb check policy-packages &lt;adom&gt;</pre> <p>After running this command, FortiManager will remove the invalid mappings of vpnmgr interfaces.</p>

## Appendix A - FortiGuard Distribution Servers (FDS)

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

- FortiManager accesses FDS for antivirus and attack updates through TCP/SSL port 443.
- If there is a proxy server between FortiManager and FDS, FortiManager uses port 80 to communicate with the proxy server by default and connects to the proxy server using HTTP protocol.
- If FortiManager manages a FortiGate device located behind a proxy server, the proxy server permits TCP/SSL traffic to pass through via port 443.

### FortiGuard Center update support

You can configure FortiManager as a local FDS to provide FortiGuard updates to other Fortinet devices and agents on your network. The following table lists which updates are available per platform/version:

Platform	Antivirus	WebFilter	Vulnerability Scan	Software
FortiClient (Windows)	✓	✓	✓	✓
FortiClient (Mac OS X)	✓		✓	
FortiMail	✓			
FortiSandbox	✓			
FortiWeb	✓			



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
```

# Appendix B - Default and maximum number of ADOMs supported

This section identifies the supported number of ADOMs for FortiManager hardware models and virtual machines.

## Hardware models

The following table identifies the default number of ADOMs supported for FortiManager hardware models G series and later. It also identifies the hardware models that support the ADOM subscription license and the maximum number of ADOMs supported.

FortiManager Platform	Default number of ADOMs	ADOM license support?	Maximum number of ADOMs
3000G Series	4000	✓	8000

For FortiManager F series and earlier, the maximum number of ADOMs is equal to the maximum devices/VDOMs as described in the [FortiManager Data Sheet](#).

## Virtual Machines

FortiManager VM subscription license includes five (5) ADOMs. Licenses are non-stackable. Additional ADOMs can be purchased with an ADOM subscription license.

For FortiManager VM perpetual license, the maximum number of ADOMs is equal to the maximum number of Devices/VDOMs listed in the [FortiManager Data Sheet](#).



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