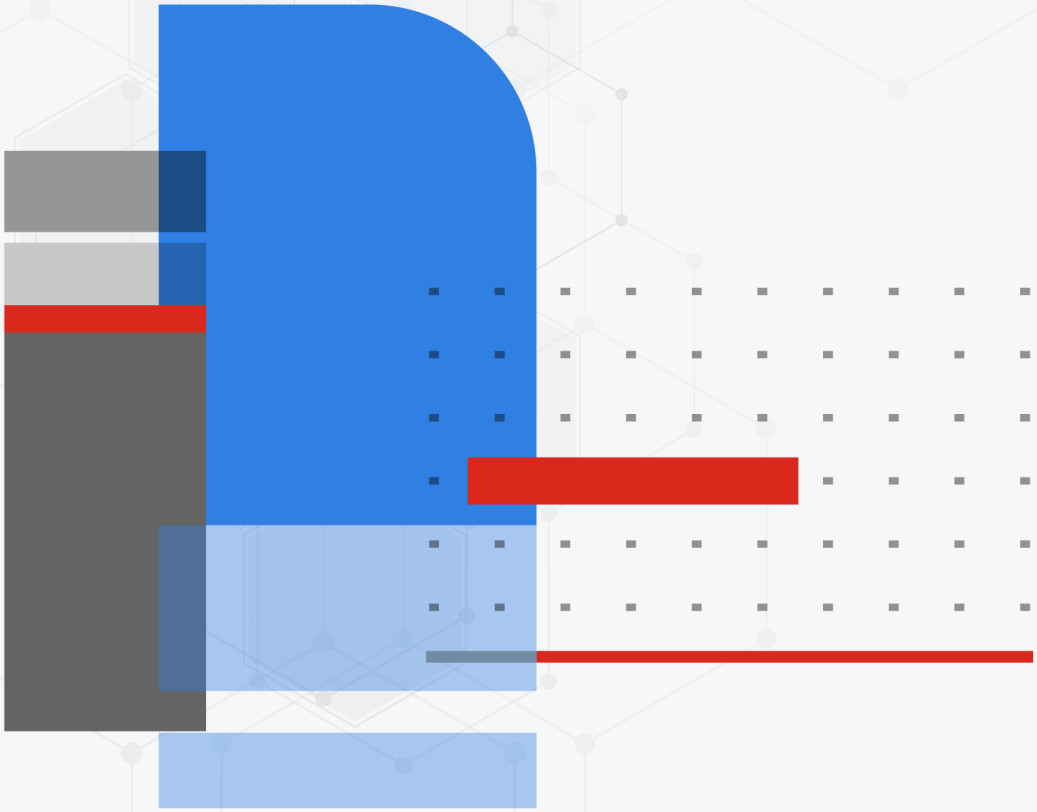
Release Notes

FortiOS 7.4.10



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January 21, 2026
FortiOS 7.4.10 Release Notes
01-7410-1238399-20260121

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Change Log

Date	Change Description
2026-01-19	Initial release.
2026-01-21	Updated Known issues on page 41, Built-in AV Engine on page 50 and Built-in IPS Engine on page 51.

Introduction and supported models

This guide provides release information for FortiOS 7.4.10 build 2867.

For FortiOS documentation, see the Fortinet Document Library.

Supported models

FortiOS 7.4.10 supports the following models.

FortiGate	FG-30G, FG-31G, FG-40F, FG-40F-3G4G, FG-50G, FG-50G-5G, FG-50G-DSL, FG-50G-SFP, FG-50G-SFP-POE, FG-51G, FG-51G-5G, FG-51G-SFP-POE, FG-60E, FG-60E-DSL, FG-60E-DSLJ, FG-60E-POE, FG-60F, FG-61E, FG-61F, FG-70F, FG-70G-POE, FG-71F, FG-71G, FG-71G-POE, FG-80E, FG-80E-POE, FG-80F, FG-80F-BP, FG-80F-DSL, FG-80F-POE, FG-81E, FG-81E-POE, FG-81F, FG-81F-POE, FG-90E, FG-91E, FG-90G, FG-91G, FG-100F, FG-101F, FG-120G, FG-121G, FG-140E, FG-140E-POE, FG-200E, FG-200F, FG-201E, FG-201F, FG-200G, FG- 201G, FG-300E, FG-301E, FG-400E, FG-400E-BP, FG-401E, FG-400F, FG-401F, FG-500E, FG-501E, FG-600E, FG-601E, FG-600F, FG-601F, FG-700G, FG-701G, FG-800D, FG-900D, FG-900G, FG-901G, FG-1000D, FG-1000F, FG-1001F, FG-1100E, FG-1101E, FG-1800F, FG-1801F, FG-2000E, FG-2200E, FG-2201E, FG-2500E, FG-2600F, FG-2601F, FG-3000D, FG-3000F, FG-3001F, FG-3100D, FG-3200D, FG-3200F, FG-3201F, FG-3300E, FG-3301E, FG-3400E, FG-3401E, FG-3500F, FG-3501F, FG-3600E, FG-3601E, FG-3700D, FG-3700F, FG-3701F, FG-3960E, FG-3980E, FG-4200F, FG-4201F, FG-4400F, FG-4401F, FG-4800F, FG-4801F, FG-5001E, FG-5001E1, FG-6000F, FG-7000E, FG-7000F
FortiWiFi	FWF-30G, FWF-31G, FWF-40F, FWF-40F-3G4G, FWF-50G, FWF-50G-5G, FWF-50G-DSL, FWF-50G-SFP, FWF-51G, FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-70G, FWF-71G, FWF-70G-POE, FWF-80F-2R, FWF-80F-2R-3G4G-DSL, FWF-81F-2R, FWF-81F-2R-3G4G-DSL, FWF-81F-2R-POE, FWF-81F-2R-3G4G-POE
FortiGate Rugged	FGR-50G-5G, FGR-60F, FGR-60F-3G4G, FGR-70F, FGR-70F-3G4G, FGR-70G, FGR-70G-5G-Dual
FortiFirewall	FFW-1801F, FFW-2600F, FFW-3001F, FFW-3501F, FFW-3980E, FFW-4200F, FFW-4400F, FFW-4401F, FFW-4801F, FFW-VM64, FFW-VM64-KVM
FortiGate VM	FG-ARM64-AWS, FG-ARM64-AZURE, FG-ARM64-GCP, FG-ARM64-KVM, FG-ARM64-OCI, FG-VM64, FG-VM64-ALI, FG-VM64-AWS, FG-VM64-AZURE, FG-VM64-GCP, FG-VM64-HV, FG-VM64-IBM, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-RAXONDEMAND, FG-VM64-XEN

Special branch supported models

The following models are released on a special branch of FortiOS 7.4.10. To confirm that you are running the correct build, run the CLI command `get system status` and check that the `Branch point` field shows 2867.

FG-70G	is released on build 6746.

FortiGate 6000 and 7000 support

FortiOS 7.4.10 supports the following FG-6000F, FG-7000E, and FG-7000F models:

FG-6000F	FG-6001F, FG-6300F, FG-6301F, FG-6500F, FG-6501F
FG-7000E	FG-7030E, FG-7040E, FG-7060E
FG-7000F	FG-7081F, FG-7121F

Special notices

Hyperscale incompatibilities and limitations

See Hyperscale firewall incompatibilities and limitations in the Hyperscale Firewall Guide for a list of limitations and incompatibilities with FortiOS 7.4.10 features.

FortiGate 6000 and 7000 incompatibilities and limitations

See the following links for information about FortiGate 6000 and 7000 limitations and incompatibilities with FortiOS 7.4.10 features.

- FortiGate 6000 incompatibilities and limitations
- FortiGate 7000E incompatibilities and limitations
- FortiGate 7000F incompatibilities and limitations

SMB drive mapping with ZTNA access proxy

In FortiOS 7.4.1 and later, SMB drive mapping on a Windows PC made through a ZTNA access proxy becomes inaccessible after the PC reboots when access proxy with TCP forwarding is configured as FQDN. When configured with an IP for SMB traffic, same issue is not observed.

One way to solve the issue is to enter the credentials into Windows Credential Manager in the form of `domain\username`.

Another way to solve the issue is to leverage the KDC proxy to issue a TGT (Kerberos) ticket for the remote user. See ZTNA access proxy with KDC to access shared drives for more information. This way, there is no reply in Credential Manager anymore, and the user is authenticated against the DC.

Local out traffic using ECMP routes could use different port or route to server

Starting from version 7.4.1, when there is ECMP routes, local out traffic may use different route/port to connect out to server. For critical traffic which is sensitive to source IP addresses, it is suggested to specify the interface or SD-WAN for the traffic since FortiOS has implemented `interface-select-method` command for nearly all local-out traffic.

```
config system fortiguard
    set interface-select-method specify
    set interface "wan1"
end
```

Hyperscale NP7 hardware limitation

Because of an NP7 hardware limitation, for CGN traffic accepted by a hyperscale firewall policy that includes an overload with port block allocation (overload PBA) IP Pool, only one block is allocated per client. The setting of the hyperscale firewall policy `cgn-resource-quota` option is ignored.

Because of this limitation, under certain rare conditions (for example, only a single server side IP address and port are being used for a large number of sessions), port allocation may fail even if the block usage of the client is less than its quota. In cases such as this, if the client has traffic towards some other servers or ports, additional port allocation can become successful. You can also work around this problem by increasing the IP Pool block size (`cgn-block-size`).

SAML certificate verification

For security purposes, FortiGate by default requires a signature verification for both the SAML response message and the SAML assertion carried inside the SAML response. This means that the SAML response must have a valid signature, and the SAML assertion must also have a valid signature. If the Identity Provider (IdP) provides an invalid signature, or fails to sign one of these, the FortiGate will reject the SAML response.

This check can be loosened up with the following configuration:

```
config user saml
    edit <name>
```

```
        set require-signed-resp-and-asrt <enable | disable>
    next
end
```

Option	Desctription
enable	Both response and assertion must be signed and valid (default).
disable	At least one of response or assertion must be signed and valid.

For more information, see Identify Providers.

Changes to NP7 traffic shaping

The following known issues for the Queuing based Traffic Management (QTM) module on NP7 are fixed:

- Incorrect checksum for fragments after QTM.
- Packets longer than 6000 bytes cause QTM to hang.
- Refreshing causes QTM to hang.
- MTU is not honored after QTM, so the packet is not fragmented.

As a result of these changes, you can no longer use the following command to change QoS type used for traffic shaping for sessions offloaded to NP7 processors:

```
config system npu
    set default-qos-type {policing | shaping}
end
```

Instead, `default-qos-type` can only be set to `policing`.

For NP7 sessions, policy traffic shaping, per-IP shaping, and regular port shaping (outbandwidth enabled on an interface without a shaping profile) always use the NP7 accounting and traffic shaping module (called the TPE module). This is the same as changing the `default-qos-type` to `policing`.

For NP7 sessions, shaping profiles on interfaces now only use QTM for traffic shaping (equivalent to setting `default-qos-type` to `shaping`). Shaping profiles on interfaces are also called Multiclass shaping (MCS). The interface can be a physical interface, LAG interface, and VLAN interface (over physical or LAG). The FortiGate supports shaping profiles on a maximum of 100 interfaces.

GUI cannot be accessed when using a server certificate with an RSA 1024 bit key

The GUI cannot be accessed when using an admin server certificate with an RSA 1024 bit key after upgrading to FortiOS 7.6.1, 7.4.8, or 7.2.11. An RSA key of at least 2048 bits is required. Certificates that are using an RSA key of less than 2048 bits are no longer supported.

SSL VPN not supported on FortiGate G-series Entry-Level models

The SSL VPN web and tunnel mode feature will not be available from the GUI or the CLI on the FortiGate G-Series Entry-Level models, including 50G, 70G, 90G and variants. Settings will not be upgraded from previous versions.

Consider migrating to using IPsec Dialup VPN for remote access. See FortiOS 7.4 SSL VPN to IPsec VPN migration.

Changes in default behavior

Bug ID	Description
1176942	When auth-ike-saml-port is used, iprope will match the local-in traffic only when the destination port is `auth-ike-saml-port` and the destination interface has `ike-saml-server` enabled.
1204277	The default auto-update schedule for FortiGuard packages has been changed from automatic to daily.
1207557	The default behavior has changed: when Anycast is enabled, VM license activation now uses dedicated activation FQDNs (vmactivation1/2/3.fortinet.net) instead of general update FQDNs, resulting in faster and more reliable activation.

1225202	The default setting for allow-traffic-redirect and ipv6-allow-traffic-redirect has been changed from enable to disable:
	
	`config system global`
	`set allow-traffic-redirect disable`
	`set ipv6-allow-traffic-redirect disable`
	`end`
	
	Upon upgrade, both of these settings will be changed to disable even if they were enabled before.
	Disabling this setting ensures that traffic arriving at an interface and redirected out on the same interface requires a firewall policy to explicitly allow the traffic. If you want to redirect traffic without the need for a policy based only on routing decision, then manually enable these settings.

New features or enhancements

More detailed information is available in the New Features Guide.

GUI

See GUI in the New Features Guide for more information.

Feature ID	Description
1183975	The FortiGate setup wizard includes options to configure a gateway to establish internet connectivity, which is required for successful registration with FortiCare. Additionally, for air-gapped environments, the wizard allows users to upload an offline license file directly, enabling successful registration even when the device cannot reach FortiCare. This enhancement resolves setup-blocking issues and improves deployment flexibility.
1238520	To facilitate use cases where a FortiGate device needs to be configured before being sent to end-users, models that require registration before full GUI and CLI access now have a 7-day setup period for full configurations before registration becomes a requirement.

LAN Edge

See LAN Edge in the New Features Guide for more information.

Feature ID	Description
1185772	Default soft-switch interfaces and open SSIDs have been removed across FortiWiFi platforms to enhance security and simplify network design. For 4xF/6xF/G-series models, the default WiFi VAP remains in tunnel mode with preconfigured IP, DHCP, and firewall policies for easy setup. On 8xF-2R models, WiFi VAPs now operate in bridge mode, integrating with the hardware switch so clients receive DHCP from the internal interface and benefit from firewall policy control.
1217645	Previously, virtual switches in a software switch could not enable 802.1X authentication. Now, this restriction is removed802.1X can be enabled when the software switchs intra-switch-policy is set to explicit, allowing secure dynamic VLAN control and traffic regulation.

Upgrade information

Supported upgrade path information is available on the Fortinet Customer Service & Support site.

FortiGate	Upgrade option	Details
Individual FortiGate devices	Manual update	Use the procedure in this topic. See also Upgrading individual devices in the FortiOS Administration Guide.
	Automatic update based on FortiGuard upgrade path	See Enabling automatic firmware updates in the FortiOS Administration Guide for details
Multiple FortiGate devices in a Fortinet Security Fabric	Manual, immediate or scheduled update based on FortiGuard upgrade path	See Fortinet Security Fabric upgrade on page 15 and Upgrading Fabric or managed devices in the FortiOS Administration Guide.

To view supported upgrade path information:

1. Go to https://support.fortinet.com.
2. From the *Download* menu, select *Firmware Images*.
3. Check that *Select Product* is *FortiGate*.
4. Click the *Upgrade Path* tab and select the following:
   - *Current Product*
   - *Current FortiOS Version*
   - *Upgrade To FortiOS Version*
5. Click *Go*.

Fortinet Security Fabric upgrade

FortiOS 7.4.10 greatly increases the interoperability between other Fortinet products. This includes:

FortiAnalyzer	• 7.4.9
FortiManager	• 7.4.9
FortiExtender	• 7.4.0 and later

FortiSwitch OS (FortiLink support)	• 6.4.6 build 0470 and later
FortiAP	• 7.2.2 and later
FortiAP-U	• 6.2.5 and later
FortiAP-W2	• 7.2.2 and later
FortiClient* EMS	• 7.0.3 build 0229 and later
FortiClient* Microsoft Windows	• 7.0.3 build 0193 and later
FortiClient* Mac OS X	• 7.0.3 build 0131 and later
FortiClient* Linux	• 7.0.3 build 0137 and later
FortiClient* iOS	• 7.0.2 build 0036 and later
FortiClient* Android	• 7.0.2 build 0031 and later
FortiSandbox	• 2.3.3 and later for post-transfer scanning • 4.2.0 and later for post-transfer and inline scanning

* If you are using FortiClient only for IPsec VPN or SSL VPN, FortiClient version 6.0 and later are supported.

When upgrading your Security Fabric, devices that manage other devices should be upgraded first.

When using FortiClient with FortiAnalyzer, you should upgrade both to their latest versions. The versions between the two products should match. For example, if using FortiAnalyzer 7.4.0, use FortiClient 7.4.0.

Upgrade the firmware of each device in the following order. This maintains network connectivity without the need to use manual steps.

1. FortiAnalyzer
2. FortiManager
3. FortiGate devices
4. Managed FortiExtender devices
5. Managed FortiSwitch devices
6. Managed FortiAP devices
7. FortiClient EMS
8. FortiClient
9. FortiSandbox
10. FortiMail
11. FortiWeb
12. FortiNAC
13. FortiVoice
14. FortiDeceptor
15. FortiNDR
16. FortiTester

17. FortiMonitor

If Security Fabric is enabled, then all FortiGate devices must be upgraded to 7.4.10. When Security Fabric is enabled in FortiOS 7.4.10, all FortiGate devices must be running FortiOS 7.4.10.

Downgrading to previous firmware versions

Downgrading to previous firmware versions results in configuration loss on all models. Only the following settings are retained:

- operation mode
- interface IP/management IP
- static route table
- DNS settings
- admin user account
- session helpers
- system access profiles

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, go to *Support > Firmware Image Checksums* (in the *Downloads* section), enter the image file name including the extension, and click *Get Checksum Code*.

FortiGate 6000 and 7000 upgrade information

Upgrade FortiGate 6000 firmware from the management board GUI or CLI. Upgrade FortiGate 7000 firmware from the primary FIM GUI or CLI. The FortiGate 6000 management board and FPCs or the FortiGate 7000 FIMs and FPMs all run the same firmware image. Upgrading the firmware copies the firmware image to all components, which then install the new firmware and restart. A FortiGate 6000 or 7000 firmware upgrade can take a few minutes, the amount of time depending on the hardware and software configuration and whether DP or NP7 processor software is also upgraded.

On a standalone FortiGate 6000 or 7000, or an HA cluster with `uninterruptible-upgrade` disabled, the firmware upgrade interrupts traffic because all components upgrade in one step. These firmware upgrades should be done during a quiet time because traffic can be interrupted for a few minutes during the upgrade process.

Fortinet recommends running a graceful firmware upgrade of a FortiGate 6000 or 7000 FGCP HA cluster by enabling `uninterruptible-upgrade` and `session-pickup`. A graceful firmware upgrade only causes minimal traffic interruption.

Fortinet recommends that you review the services provided by your FortiGate 6000 or 7000 before a firmware upgrade and then again after the upgrade to make sure that these services continue to operate normally. For example, you might want to verify that you can successfully access an important server used by your organization before the upgrade and make sure that you can still reach the server after the upgrade and performance is comparable. You can also take a snapshot of key performance indicators (for example, number of sessions, CPU usage, and memory usage) before the upgrade and verify that you see comparable performance after the upgrade.

To perform a graceful upgrade of your FortiGate 6000 or 7000 to FortiOS 7.4.10:

1. Use the following command to set the `upgrade-mode` to `uninterruptible` to support HA graceful upgrade:

```
config system ha
    set uninterruptible-upgrade enable
end
```

When upgrading from FortiOS 7.4.1 to a later version, use the following command to enable uninterruptible upgrade:

```
config system ha
    set upgrade-mode uninterruptible
end
```

2. Download the FortiOS 7.4.10 FG-6000F, FG-7000E, or FG-7000F firmware from https://support.fortinet.com.
3. Perform a normal upgrade of your HA cluster using the downloaded firmware image file.
4. When the upgrade is complete, verify that you have installed the correct firmware version.
   For example, check the FortiGate dashboard or use the `get system status` command.
5. Confirm that all components are synchronized and operating normally.
   For example, open the Cluster Status dashboard widget to view the status of all components, or use `diagnose sys confsync status` to confirm that all components are synchronized.

FortiGate 5001E primary blade failed to install image

SLBC FortiGate 5001E primary blade failed to install image, even though graceful-upgrade was disabled.

IPS-based and voipd-based VoIP profiles

In FortiOS 7.4.0 and later, the new IPS-based VoIP profile allows flow-based SIP to complement SIP ALG while working together. There are now two types of VoIP profiles that can be configured:

```
config voip profile
    edit <name>
        set feature-set {ips | voipd}
    next
end
```

A voipd-based VoIP profile is handled by the voipd daemon using SIP ALG inspection. This is renamed from proxy in previous FortiOS versions.

An ips-based VoIP profile is handled by the IPS daemon using flow-based SIP inspection. This is renamed from flow in previous FortiOS versions.

Both VoIP profile types can be configured at the same time on a firewall policy. For example:

```
config firewall policy
    edit 1
        set voip-profile "voip_sip_alg"
        set ips-voip-filter "voip_sip_ips"
    next
end
```

Where:

- `voip-profile` can select a `voip-profile` with `feature-set voipd`.
- `ips-voip-filter` can select a `voip-profile` with `feature-set ips`.

The VoIP profile selection within a firewall policy is restored to pre-7.0 behavior. The VoIP profile can be selected regardless of the inspection mode used in the firewall policy. The new `ips-voip-filter` setting allows users to select an IPS-based VoIP profile to apply flow-based SIP inspection, which can work concurrently with SIP ALG.

Upon upgrade, the `feature-set` setting of the `voip profile` determines whether the profile applied in the firewall policy is `voip-profile` or `ips-voip-filter`.

Before upgrade	After upgrade

`config voip profile`
`edit "ips_voip_filter"`
`set feature-set flow`
`next`
`edit "sip_alg_profile"`
`set feature-set proxy`
`next`
`end`
 	
`config firewall policy`
	`config voip profile`
	`edit "ips_voip_filter"`
	`set feature-set ips`
	`next`
	`edit "sip_alg_profile"`
	`set feature-set voipd`
	`next`
	`end`

Before upgrade	After upgrade
edit 1 set voip-profile "ips_voip_filter" next edit 2 set voip-profile "sip_alg_profile" next end	config firewall policy edit 1 set ips-voip-filter "ips_voip_filter" next edit 2 set voip-profile "sip_alg_profile" next end

GUI firmware upgrade does not respect upgrade path in previous versions

When performing a firmware upgrade from 7.4.0 - 7.4.3 that requires multiple version jumps, the *Follow upgrade path* option in the GUI does not respect the recommended upgrade path, and instead upgrades the firmware directly to the final version. This can result in unexpected configuration loss. To upgrade a device in the GUI, upgrade to each interim version in the upgrade path individually.

For example, when upgrading from 7.0.7 to 7.0.12 the recommended upgrade path is 7.0.7 -> 7.0.9 -> 7.0.11 -> 7.0.12. To ensure that there is no configuration loss, first upgrade to 7.0.9, then 7.0.11, and then 7.0.12.

2 GB RAM FortiGate models no longer support FortiOS proxy-related features

As part of improvements to enhance performance and optimize memory usage on FortiGate models with 2 GB RAM or less, starting from version 7.4.4, FortiOS no longer supports proxy-related features.

This change impacts the FortiGate/FortiWiFi 40F, 50G, 60E, 60F, 80E, and 90E series devices, along with their variants, and the FortiGate-Rugged 60F (2 GB versions only). See Proxy-related features no longer supported on FortiGate 2 GB RAM models for more information.

FortiGate VM memory and upgrade

FortiGate virtual machines (VMs) are not constrained by memory size and will continue to support all available features after upgrading to FortiOS 7.6.0. However, it is recommended to setup VMs with at least 4 GB of RAM for optimal performance.

Managed FortiSwitch do not permit empty passwords for administrator accounts

Starting from FortiOS version 7.4.6, a managed FortiSwitch no longer permits empty passwords for the admin account. If a FortiSwitch unit was previously authorized without an admin password, the FortiGate will automatically generate a random admin password for the FortiSwitch upon upgrading to 7.4.6 or later. This change will cause the admin to lose access.

To regain access, configure a password override on the FortiGate device using the following commands:

```
config switch-controller switch-profile
    edit default
        set login-passwd-override enable
        set login-passwd <passwd>
    next
end
```

FortiSwitch units with an existing admin password will not be affected by this change.

Policies that use an interface show missing or empty values after an upgrade

If local-in policy used an interface in version 7.4.5 GA, or any previous GA version that was part of the SD-WAN zone, these policies will be deleted or show empty values after upgrading to version 7.4.6 or later.

This issue is resolved in FortiOS 7.4.8 with mantis 1104649.

After following the upgrade path to FortiOS 7.4.8, you must manually recreate these policies and assign them to the appropriate SD-WAN zone.

Although not recommended, you can skip the upgrade path and upgrade directly to FortiOS 7.4.8, and the policies remain untouched. Skipping upgrade steps might cause devices to miss other important FortiOS checks and changes and is not recommended.

Statistics for traffic shaping using QTM

Statistics for traffic shaping using QTM, and the `egress-shaping-profile offload` command for SoC5, have been added.

Loopback-based VIPs cannot pass traffic after upgrade

For users upgrading from versions 7.4.5, 7.4.6, and 7.4.7 to version 7.4.8 or later and employing loopback-based VIPs (external IP = loopback IP + `extintf "any"`), the following policy adjustments are recommended to maintain uninterrupted traffic flow if not already configured:

1. Create an entry firewall policy:
   - From external interfaces (for example, `wan1`) to the loopback interface
2. Add an exit firewall policy:
   - From the loopback interface to real-server interfaces (for example, `port4`, `port5`)

See also Technical Tip: How to configure VIP with loopback on FortiOS 7.4.8.

FIPS-CC mode no longer supports TACACS+

Starting in FortiOS 7.4.8, TACACS+ is no longer supported in FIPS-CC mode.

Because the TACACS+ protocol is now 30 years old, it uses MD5 for encryption and is insecure. MD5 is not an approved FIPS cipher.

After upgrading to FortiOS 7.4.8 or later, use RADIUS or another authentication method instead of TACAS+. Please note that FortiOS 7.6.0 and later only supports RADIUS over TLS.

Product integration and support

The following table lists FortiOS 7.4.10 product integration and support information:

FortiManager and FortiAnalyzer	See the FortiOS Compatibility Tool for information about FortiOS compatibility with FortiManager and FortiAnalyzer.
Web browsers	• Microsoft Edge 135 • Mozilla Firefox version 138 • Google Chrome version 136 Other browser versions have not been tested, but may fully function. Other web browsers may function correctly, but are not supported by Fortinet.
Explicit web proxy browser	• Microsoft Edge 135 • Mozilla Firefox version 138 • Google Chrome version 136 Other browser versions have not been tested, but may fully function. Other web browsers may function correctly, but are not supported by Fortinet.
FortiController	• 5.2.5 and later Supported models: FCTL-5103B, FCTL-5903C, FCTL-5913C

Fortinet Single Sign-On (FSSO)	• 5.0 build 0330 and later (needed for FSSO agent support OU in group filters)
	  • Windows Server 2025 Standard
	  • Windows Server 2025 Datacenter
	  • Windows Server 2025 Core
	  • Windows Server 2022 Standard
	  • Windows Server 2022 Datacenter
	  • Windows Server 2019 Standard
	  • Windows Server 2019 Datacenter
	  • Windows Server 2019 Core
	  • Windows Server 2016 Standard
	  • Windows Server 2016 Datacenter
	  • Windows Server 2016 Core
	  • Windows Server 2012 Standard
	  • Windows Server 2012 R2 Standard
	  • Windows Server 2012 Core
	  • Novell eDirectory 8.8

AV Engine	• 7.00049
IPS Engine	• 7.00596

See also:

- Virtualization environments on page 24
- Language support on page 24
- SSL VPN support on page 25
- FortiExtender modem firmware compatibility on page 25

Virtualization environments

The following table lists hypervisors and recommended versions.

Hypervisor	Recommended versions
Citrix Hypervisor	• 8.2 Express Edition, CU1
Linux KVM	• Ubuntu 22.04.3 LTS • Red Hat Enterprise Linux release 9.4 • SUSE Linux Enterprise Server 12 SP3 release 12.3
Microsoft Windows Server	• Windows Server 2019
Windows Hyper-V Server	• Microsoft Hyper-V Server 2019
Open source XenServer	• Version 3.4.3 • Version 4.1 and later
VMware ESXi	• Versions 6.5, 6.7, 7.0, and 8.0.

Language support

The following table lists language support information.

Language support

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

Language	GUI
Portuguese (Brazil)	✓
Spanish	✓

SSL VPN support

SSL VPN web mode

The following table lists the operating systems and web browsers supported by SSL VPN web mode.

Supported operating systems and web browsers

Operating System	Web Browser
Microsoft Windows 7 SP1 (32-bit & 64-bit)	Mozilla Firefox version 138 Google Chrome version 136
Microsoft Windows 10 (64-bit)	Microsoft Edge 135 Mozilla Firefox version 138 Google Chrome version 136
Ubuntu 20.04 (64-bit)	Mozilla Firefox version 138 Google Chrome version 136
macOS Ventura 13.1	Apple Safari version 18 Mozilla Firefox version 137 Google Chrome version 136
iOS	Apple Safari Mozilla Firefox Google Chrome
Android	Mozilla Firefox Google Chrome

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

FortiExtender modem firmware compatibility

The following table lists the modem firmware file name and version for each FortiExtender model and its compatible geographical region.

FortiExtender model	Modem firmware image name	Modem firmware file on Support site	Geographical region
FEX-101F-AM	FEM_EM06A-22-1-1	FEM_EM06A-22.1.1-build0001.out	America
FEX-101F-EA	FEM_EM06E-22-01-01	FEM_EM06E-22.1.1-build0001.out	EU
	FEM_EM06E-22.2.2	FEM_EM06E-22.2.2-build0002.out	EU
FEX-201E	FEM_06-19-0-0-AMEU	FEM_06-19.0.0-build0000-AMEU.out	America and EU
	FEM_06-19-1-0-AMEU	FEM_06-19.1.0-build0001-AMEU.out	America and EU
	FEM_06-22-1-1-AMEU	FEM_06-22.1.1-build0001-AMEU.out	America and EU
	FEM_06-22-1-2-AMEU	FEM_06-22.1.2-build0001-AMEU.out	America and EU
FEX-201F-AM	FEM_07A-22-1-0-AMERICA	FEM_07A-22.1.0-build0001-AMERICA.out	America
	FEM_07A-22-2-0-AMERICA	FEM_07A-22.2.0-build0002-AMERICA.out	America
FEX-201F-EA	FEM_07E-22-0-0-WRLD	FEM_07E-22.0.0-build0001-WRLD.out	World
	FEM_07E-22-1-1-WRLD	FEM_07E-22.1.1-build0001-WRLD.out	World
FEX-202F-AM	FEM_07A-22-1-0-AMERICA	FEM_07A-22.1.0-build0001-AMERICA.out	America
	FEM_07A-22-2-0-AMERICA	FEM_07A-22.2.0-build0002-AMERICA.out	America
FEX-202F-EA	FEM_07E-22-1-1-WRLD	FEM_07E-22.1.1-build0001-WRLD.out	World
FEX-211E	FEM_12-19-1-0-WRLD	FEM_12-19.1.0-build0001-WRLD.out	World
	FEM_12-19-2-0-WRLD	FEM_12-19.2.0-build0002-WRLD.out	World
	FEM_12-22-1-0-AMEU	FEM_12-22.0.0-build0001-AMEU.out	America and EU
	FEM_12-22-1-1-WRLD	FEM_12-22.1.1-build0001-WRLD.out	World

FortiExtender model	Modem firmware image name	Modem firmware file on Support site	Geographical region
FEV-211F_AM	FEM_12_EM7511-22-1-2-AMERICA	FEM_12_EM7511-22.1.2-build0001-AMERICA.out	America
FEV-211F	FEM_12-22-1-0-AMEU	FEM_12-22.1.0-build0001-AMEU.out	World
FEX-211F-AM	FEM_12_EM7511-22-1-2-AMERICA	FEM_12_EM7511-22.1.2-build0001-AMERICA.out	America
FEX-212F	FEM_12-19-2-0-WRLD	FEM_12-19.2.0-build0002-WRLD.out	World
	FEM_12-22-1-1-WRLD	FEM_12-22.1.1-build0001-WRLD.out	World
FEX-311F	FEM_EM160-22-02-03	FEM_EM160-22.2.3-build0001.out	World
	FEM_EM160-22-1-2	FEM_EM160-22.1.2-build0001.out	World
FEX-511F	FEM_RM502Q-21-2-2	FEM_RM502Q-21.2.2-build0003.out	World
	FEM_RM502Q-22-03-03	FEM_RM502Q-22.3.3-build0004.out	World
	FEM_RM502Q-22-04-04-AU	FEM_RM502Q-22.4.4-build0005_AU.out	Australia
	FEM_RM502Q-22-1-1	FEM_RM502Q-22.1.1-build0001.out	World
	FEM_RM502Q-22-2-2	FEM_RM502Q-22.2.2-build0002.out	World

The modem firmware can also be uploaded manually by downloading the file from the Fortinet Customer Service & Support site. The firmware file names are listed in the third column of the table.

To download the modem firmware:

1. Go to https://support.fortinet.com/Download/FirmwareImages.aspx.
2. From the *Select Product* dropdown, select *FortiExtender*.
3. Select the *Download* tab.
4. Click *MODEM-Firmware*.
5. Select the FortiExtender model and image name, then download the firmware file.

Resolved issues

The following issues have been fixed in version 7.4.10. To inquire about a particular bug, please contact Customer Service & Support.

AntiVirus

Bug ID	Description
1153880	File upload of a large file fails on an HTTP2 connection when FortiGate AntiVirus is enabled in proxy mode with deep inspection.
1181573	SSL inspection does not correctly add the Authority Key Identifier (AKID) when operating in Flow mode with DPI enabled.

DNS Filter

Bug ID	Description
1151824	DNS query failure when DNS requests received from different VRF with the same transaction ID, source, and destination addresses are treated as retransmissions and discarded.

Endpoint Control

Bug ID	Description
1086668	FortiGate does not connect to EMS cloud when EMS cloud license is expired on the global FortiCare account, even when the access keys are valid in other VDOMs.

Explicit Proxy

Bug ID	Description
1074353	IPv4 DNS address is used to connect to server when setup IPv6-only under fast fallback.
1094870	FTPS data connections fail to establish when using flow mode firewall policies configured for FTP service.
1116834	Authentication pop-up does not appear when accessing https websites via FortiGate with Explicit Proxy when authentication Rules, webproxy-forward-server, and certificate-inspection are configured in proxy-policy.
1202441	Captive portal is unavailable when accessing the Internet after firmware upgrade.
1209746	Intermittent connectivity issues occur when using FTP Proxy through npu vdom link.

Firewall

Bug ID	Description
1093616	Bytes counter issue occurs when existing sessions are revalidated on a new firewall policy.
1099748	HPE incorrectly identifies TCP RST ACK packets as TCP type when receiving RST ACK packets.
1134809	Security policy hit counter resets when learning mode is enabled in NGFW policy mode.
1152839	Packet loss occurs when asymmetric routing is used with IPv6 traffic.
1154805	Firewall deny policy mismatch occurs when local user traffic is specified.
1171392	No response occurs when FortiGate receives a packet with low TTL and a deny-all policy is set.
1176942	Auth-ike-saml-port responds on VIP/IPpool IP address when configured on a FortiGate with mismatched interface IP addresses.
1187335	Video playback issues occur when SNAT is applied and RTSP session helper does not rewrite the destination field.
1188867	An error condition occurs in firewall policies when referencing FSSO usernames with special characters in NGFW policy mode.
1189618	Packet drop when auto-asic-offload and IPS are enabled.
1200717	Traffic is allowed by local-in policy 4294967295 when VIP is configured with port-forwarding.

Bug ID	Description
1204648	Secondary SCTP session failure occurs when an existing SCTP session has a different source port number than the EXP session.
1212608	FTP does not work in passive mode via the helper session.
1216936	NetBIOS broadcast packets are forwarded when netbios-forward is disabled on the same interface.
1218523	ICMP packet drops occur when hardware offloading is enabled.

FortiGate 6000/7000 Platform

Bug ID	Description
1161584	An error condition occurs in the APACER NVME controller during hardware testing on FortiGate-201G.
1198697	Link/Activity LEDs remain on when executing shutdown on FortiGate 120G/121G.
1211372	An error condition in confsyncd occurs when file sizes change between scans.
1214688	Fragmented UDP-ESP packets are not forwarded when received on FortiGate.
1219115	In 6K/7K platforms, SSL VPN load balancing does not work correctly when split-port is set to 1-M1 and 1-M2.
1222830	Management access loss when FIM02 on standby chassis is primary Worker.

FortiView

Bug ID	Description
1146317	Incorrect offload status when NPU Accelerated sessions have an offload value of 9.
1192055	Data retrieval issues occur when using FortiCloud as the source with custom accprofile.
1199964	improper display of columns that use the user device source.

GUI

Bug ID	Description
1000476	Unresolved FQDN addresses are not highlighted when filtering the type column by FQDN on the Addresses list page
1033972	An error condition occurs in the GUI when changing the LDAP server IP.
1055740	CPU usage issues observed during GUI login with a USB drive containing many files.
1056214	Hyperscale firewall license warning appears when no license is present
1063643	GUI interface panel mismatch when FortiGate 121G Gen2 faceplate is changed.
1098643	Unexpected behavior observed in the WebSocket caused by stale connections, resulting in persistent memory allocation errors or Node.js restarts.
1107513	An error condition in Node.js occurs when handling stale websocket connections.
1138545	An error condition in Node.js occurs when writing to a closed client socket.
1154487	GUI page times out when never timeout option is enabled for the admin profile.
1172647	Filtering services become unavailable when Anycast is enabled.
1180629	GUI displays username sensitivity warning when username-sensitivity is disabled.
1191076	Interface bandwidth data is not displayed when LAG is upgraded from 2x40G to 2x100G ports.
1191960	Incorrect certificate HASH algorithm name is displayed in FortiGate GUI when viewing certificate information.
1193884	Vlan interface bandwidth displays incorrectly in GUI dashboard widget when LAG members are removed and re-added.
1194972	Devices are not visible on Asset & Identities > OT view when API response from /api/v2/monitor/user/device/query retrieves devices without sufficient information.
1199029	DHCP Server conflicts occur when changing from DHCP Server to Relay mode on an interface.
1228733	LDAP password is removed when OK is pressed

HA

Bug ID	Description
1033784	Traffic disruption occurs when changing aggregate interface member in FGCP a-a mode.

Bug ID	Description
1042297	Out-of-sync status occurs when upgrading from 7.4.3 due to ips.sensor attribute value change without recalculating the cached checksum
1084212	HA out of sync occurs when creating custom SaaS application.
1096472	Traffic disruption occurs when moving VDOMs between VClusters.
1121141	IP address is not released by DHCP client when MAC changes during HA enablement.
1141528	High CPU usage occurs when FortiGate secondary unit is started in Azure vWAN SD-WAN NGFW with Dynamic rerouting.
1160292	FFDB version sync issue occurs when updating on-demand ffdb in HA environment.
1191136	HA ports cannot be added to an aggregate interface when running FortiOS 7.2.11 build 1740.
1212718	FGFM tunnel remains down after HA failover event when undestroyed fgfm session prevents new fgfm sessions from being created.
1225710	Mobile Token assignment fails on old models that don't support vSN when HA fail-over occurs

HyperScale

Bug ID	Description
1085722	Value set for icmpv6-error-rate under sys npu doesn't work.
1219541	Traffic disruption occurs when changing an interface's VDOM.
1223847	Excessive hyperscale logs occur when log-mode is set to per-mapping.

IPsec VPN

Bug ID	Description
1064078	Egress shaper fails to enforce bandwidth limits on VPN ID with IPIP encapsulation IPsec interfaces due to incorrect handling of traffic forwarding across multiple network processing units.
1068626	SOC4 platform IPSec traffic may stop in specific corner cases due to the IPSec outbound process becoming unresponsive.
1075112	IKED is consuming more memory leading to the device to go into conserve mode.

Bug ID	Description
1090200	transport-mode ipsec phase2 cannot set non-zero protocol successfully.
1127782	Traffic is dropped by anti-spoof check when passing traffic through phase2 transport mode with GRE encap.
1146975	IPsec tunnel issues occur when NPU offload is enabled on SOC4 platforms.
1170094	An error condition in IKE occurs when using TCP transport.
1180324	Auth-ike-saml-port setting is lost when set to 10443 during FortiGate update or reboot.
1181552	An error condition in IKE occurs when using TCP.
1182043	IPsec VPN connectivity issues occur when 'local-gw' is set to 0.0.0.0 under the dial-up IPsec VPN interface.
1184605	Firewall policy issues occur when a new policy is created for a connected VPN user without explicit mention in the policy.
1186237	CPU utilization increases when a remote access VPN user connects or disconnects.
1199265	Intermittent traffic disruption occurs when IPsec tunnels are stuck and the engine hangs on the SOC4 platform.
1199815	Intermittent IPsec traffic disruption occurs when IKE tunnel status is out of sync with kernel.
1200709	Intermittent BGP disruption caused by DPDK enablement.
1204679	Radius authentication issues occur when packet fragmentation happens over IPsec tunnels.
1206506	Traffic disruption occurs when IPsec tunnel manager write sequence issue happens.
1218538	Traffic drop occurs when tunnel ID changes from random 10.0.0.x to remote gateway public IP.

Intrusion Prevention

Bug ID	Description
1077638	Traffic drop occurs In some cases when FortiGate operates in NGFW Policy Mode.
1091118	Oversized packets exceeding the MTU cause delayed ACKs, leading to unintended behavior.
1140846	Unexpected behavior observed in the IPSEngine when handling HTTPS traffic using HTTP/2 in certain configurations.
1144684	High CPU usage occurs when processing multiple RTSP streams due to inefficient resource management by the RTSP decoder.
1162794	Unintended behavior occurs in the IPS Engine caused by the SCADA dissector.

Bug ID	Description
1197659	An error condition in IPS engine occurs when processing HTTP traffic.
1218520	BFD flaps occur due to an error condition in the IPS engine.

Log and Report

Bug ID	Description
941146	Traffic log msg field shows Connection failed message when certificate-inspection is enabled and traffic passes successfully.
1119074	An error condition in Syslog occurs when processing misaligned incoming cmdb messages.
1129247	Certificate verification fails when using OFTP custom certificate with non-Fortinet organization name.
1162518	FortiGate loses connectivity with FortiAnalyzer when changing interface-select-method to SD-WAN and DNS fails to resolve the address.
1171020	Authentication logs are missing when 2FA timeout occurs during SSLVPN authentication.
1180182	Alert email fails when device is rebooted under HA mode.

Proxy

Bug ID	Description
1124557	An error condition occurs in WAD when wad-restart-mode is set to time and wad-restart-start-time / wad-restart-end-time are configured.
1178184	SSL errors occur when accessing a specific website due to an unexpected record type when Web Filtering and DPI are enabled in Flow mode.
1197212	WAD incorrectly prioritizes the default FortiGuard CA bundle over user-installed CAs when building certificate chains for cross-signed server certificates.
1228854	HTTP status code 302 is not forwarded to the client when ssl-http-location-conversion is enabled.

Routing

Bug ID	Description
1113929	Incorrect SDWAN rule is matched. fib-best-match is configured under zone.
1196770	BGP default route installation issue occurs when capability-default-originate is enabled.
1197960	BGP peer flaps when stressful traffic is present on the interface with Quality of Service enabled and top priority.

SD-WAN

Bug ID	Description
982365	Egress shaping profile application issue occurs when using static tunnels on IPsec spoke.
1094449	Traffic routing issues occur when service-sla-tie-break is set to fib-best-match.
1167276	All participants of SLA name become unavailable when the check interval is set to 15 seconds.
1176538	Traffic between spokes occurs when shortcut is out of SLA or dead with load balancing enabled and fib-best-match tie-break.
1187007	GUI issues occur when accessing SDWAN rules and Performance SLA menus.
1199707	SIP traffic issue occurs when TCP syn-ack packets use a different egress interface than the syn packets.

SSL-VPN

Bug ID	Description
893190	When using two-factor authentication for SSL VPN users, the FortiGate does not respect the two-factor token timeout configured in config system global. This causes the token to expire prematurely for different two-factor authentication types including email, SMS, FortiToken.
983513	The two-factor-fac-expiry command is not working as expected for remote RADIUS users with a remote token set in FortiAuthenicator.
1180110	An error condition occurs during SSLVPN WebMode password renewal.

Security Fabric

Bug ID	Description
995772	Missing devices observed when loading into OT view with insufficient device information.
1191902	Automation stitch sync issue occurs when HA secondary unit is used in Security Fabric.
1224923	IP collection fails when Azure returns a SubscriptionNotFound 404 error.
1225433	Automation Stitch variable truncation occurs when using json-c version 0.18 with webhook actions.

Switch Controller

Bug ID	Description
1149978	CPU usage issues observed during flcfgd iteration over WAD user-device-store entries in Fortilink setup.
1164685	Local MAC addresses are filtered out from being added to user device list when mab-entry-as dynamic mode is enabled on Fortiswitch
1170323	Interfaces cannot be enabled as FortiLink interfaces on FortiGate with hardware revision 2.
1198110	FortiSwitch disconnection observed when adding managed-switch.
1199780	Config status remains 'Wait' when FortiGate configuration changes are not reflected on FortiSwitches.

System

Bug ID	Description
945871	D-NAT functionality fails when using a Software Switch in explicit mode due to incorrect session matching during packet forwarding.
1037480	DHCP server configuration issues occur when setting role LAN under IPAM mode.
1046484	After shutting down FortiGate using the "execute shutdown" command, the system automatically boots up again.
1057314	Unnecessary configuration saves occur when the daemon check command is triggered.
1075340	Aggregate link down occurs when speed is set to 10000auto after upgrade to v7.4.5.

Bug ID	Description
1076579	An error condition in newcli occurs during command processing due to invalid context.
1083626	FortiGate 90G/91G auto-negotiate support for shared SFP ports.
1137156	CPU usage issues caused by unnecessary cmdbsvr_cfgsave triggers.
1142805	Cannot set source IP for FortiGuard when a non-root vdom is set.
1154920	Intermittent 10G SFP+ link establishment issues occur when FortiGate-200F reboots and connects to a Ciena 3924 switch.
1165059	Unexpected behavior in system occurs when executing factory reset on FortiGate-70F.
1170716	Failed attachment to tower occurs when using custom APN with FortiGate 50G-5G modem.
1184180	Unexpected behavior occurs when restoring an invalid configuration with a system.interface defined as type aggregate and a system.virtual-switch with the same name.
1188905	Unresponsiveness occurs when MTU calculation is incorrect in function np_fragment.
1191813	Connectivity issues occur when auto negotiation is enabled on the Cisco switch end.
1197255	Error condition in sflowd occurs when removing entries from netflow cache under high load
1197885	Memory usage issues caused by ASLR when upgrading from 7.4.7GA to 7.4.8GA.
1198758	Intermittent traffic disruption occurs when using KPN SIM card with default APN settings.
1198985	SoC4 platforms with basic threat prevention config may enter extreme low memory mode.
1199132	An error condition occurs in the lan-extension-controller when changing the controller address.
1199169	IPv6 address acquisition issues occur during upgrade to v7.6.4.
1199322	VDSL2 sync issue occurs when ITU G.993.5 is enabled on 50G-DSL.
1200320	VPN goes down when dhcpc tries to renew IP lease and receives a DHCPNAK response.
1205316	Recurrent disconnections occur when IMS APN attachment attempts are made.
1211645	Authentication error when using HEX based keys with SHA1 or SHA256 in NTPv4.
1211647	Authentication error when using SHA256 as key-type in NTPv4.
1211704	Time synchronization issues occur when NTP server authentication is enabled.
1221994	CPU usage issues observed during TX direction port mirroring.
1228304	Unexpected behavior occurs when FortiGate receives Forward Relocation Request without PDN IE message.

User and Authentication

Bug ID	Description
1121503	Source-ip setting issue occurs when configuring scep enroll settings per VDOM in non-management VDOM.
1158484	When user logs into the FortiGate via FortiManager's CLI console, users are not forced to change password even if password has expired.
1165116	Event log is not generated for expired authentication attempts, like when it fails due to 2FA timetout.
1170894	IKEv2 local user authentication issues occur when using two-factor email authentication with extended timeout values.
1182725	EAP-proxy fails to match group when the group length exceeds 128 characters.
1189693	LDAP authentication fails on OpenLDAP due to the type of ldap_result used.
1196434	SAML authentication issues occur when LASSO_PROFILE_SIGNATURE_VERIFY_HINT_FORCE is set and the SAML response is not signed.
1205671	Authentication failure occurs when all-usergroup is enabled under radius.
1207282	Authentication failure occurs when using multiple wildcard entries for admin access with TACACS server.
1217617	Login failure occurs when a trusted host is set for the admin after upgrading FortiGate to version 7.4.9.

VM

Bug ID	Description
1074600	Newcli process crashes on FortiGate-VM64 causing cmdb lock deadlock.
1159433	DPDK error when traffic reaches more than 4GBps.
1172881	IPS engine crash w DPDK enabled, stress traffic over ipsec tunnel and fragmentation, and "system affinity-packet-redistribution".
1198515	Memory usage issues caused by IPsec tunnel rekey when DPDK is enabled.
1215317	Public IP disassociation occurs when SDN connector uses wrong Azure Management API endpoint.
1217942	FQDN synchronization issues occur when the primary's timeout value on the secondary is not refreshed in a timely manner.

Bug ID	Description
1219012	Dynamic object updates fail when an SDN connector is not functioning.
1221924	Inconsistency in IPS-socket size occurs when using a subscription license.
1224484	An error condition occurs in the diag daemon during image upgrade matrix operations.
1228324	Azure SDN connector fails to update new subscriptions until restarted.

VoIP

Bug ID	Description
1201825	Packet drop occurs when SIP ALG and Hyperscale are enabled.

Web Application Firewall

Bug ID	Description
1208919	Credit card information detection issues occur when WAF credit card signature requires PCRE_MULTILINE.

Web Filter

Bug ID	Description
1096297	Timeout occurs when web filter is enabled and fragments occur.
1230414	Improvements to resolve memory usage issues when logical-sn is enabled.

WiFi Controller

Bug ID	Description
1035098	Clients could not get IP address from bridge-mode captive-portal SSID when the external portal sever is configured on another FortiGate unit.
1127637	wpad requests are sent exclusively to IPv6 addresses and do not attempt fallback to IPv4 in environments supporting dual-stack configurations.
1158774	Wireless and wired devices cannot communicate across a software switch on FortiGate-G models when capwap-offload is enabled. This issue affects deployments attempting to create a flat Layer 2 network between wired and wireless segments.
1192914	There is no wifi SSID signal after power off / power on FWF40F.
1207256	Inconsistent client signal-to-noise ratio values occur on some FortiGate models.
1214109	Customer upgraded FortiGate to v7.4.9, but FortiAP's shows "Not Registered".
1217268	FortiGate not sync the 11be5 and 11be6 syntax data to FortiManager correctly for v7.4.

ZTNA

Bug ID	Description
1185076	EMS rejects the wrong FQDN format when configuring virtual-host in ZTNA server->tcp-forwarding entry.

Known issues

Known issues are organized into the following categories:

To inquire about a particular bug or report a bug, please contact Customer Service & Support.

New known issues

The following issues have been identified in version 7.4.10.

FortiGate 6000/7000 Platform

Bug ID	Description
1170524	VDOM admin (with vdom mgmt-vdom included) SSH login failed on special ports

VM

Bug ID	Description
1244347	FGT_VM64_AZURE failed trusted launch on Azure
1245936	FGT-VM failed to validate vm license from FMG with ipv6 address

Existing known issues

The following issues have been identified in a previous version of FortiOS and remain in FortiOS 7.4.10.

Explicit Proxy

Bug ID	Description
1026362	Web pages do not load when persistent-cookie is disabled for session-cookie-based authentication with captive-portal.

Firewall

Bug ID	Description
959065	On the Policy & Objects > Traffic Shaping page, when deleting or creating a shaper, the counters for the other shapers are cleared.
1114635	Not able to filter address object by CIDR notation

FortiGate 6000/7000 Platform

Bug ID	Description
911244	FortiGate 7000E IPv6 routes may not be synchronized correctly among FIMs and FPMs.
1006759	After an HA failover, there is no IPsec route in the kernel. **Workaround**: Bring down and bring up the tunnel
1026665	On the FortiGate 7000F platform with virtual clustering enabled and syslog logging configured. When running the diagnose log test command from a primary vcluster VDOM, some FPMs may not send log messages to the configured syslog servers.
1048808	If the secondary reboots, after it rejoins the cluster SIP sessions are not resynchronized.

1070365	FGCP HA session synchronization may stop working as expected on a FortiGate 7000F cluster managed by FortiManager. This happens if the HA configuration uses management interfaces as session synchronization interfaces by configuring the `session-sync-dev` option, for example:
	`config system ha`
	`  set session-sync-dev 1-M1 1-M2`
	`end`
	The problem occurs when FortiManager updates the configuration of the FortiGate 7000Fs in the cluster. When this happens, FortiManager may incorrectly change the VDOM of the management interfaces added to the `session-sync-dev` command from vsys_ha to mgmt-vdom and the interfaces stop working as session sync interfaces.

Bug ID	Description
	You can work around the problem by re-configuring the session-sync-dev option on the FortiGate 7000F cluster (this resets the VDOM of the session sync interfaces to vsys_ha) and then retrieving the FortiGate configuration from FortiManager. This synchronizes the correct configuration to FortiManager.
1078532	When upgrading the FG6001F platform, in some instances the slave chassis fails to sync FPC subscription license from master chassis. **Workaround**: `execute update-now`
1092728	FGT7000F/2718: IPv6 Fragment traffic fail randomly
1153360	Counter values fail to match totals and may overflow during continuous clearing in certain FortiGate models.
1183170	SD-WAN is not working in mgmt vdom
1185528	Subscription license on the secondary chassis is missing after the graceful upgrade from 7.2.10 to 7.2.12 **Workaround**: run "execute update-now" again

FortiView

Bug ID	Description
1123502	FortiView Threats: drill down to malicious website entry return Failed to retrieve FortiView data from disk

GUI

Bug ID	Description
853352	When viewing entries in slide-out window of the Policy & Objects > Internet Service Database page, users cannot scroll down to the end if there are over 100K entries.
885427	On the Network > Interfaces page, the SFP port is grayed out on the faceplate diagram even though the port is working. This is purely a GUI display issue and does not affect system operation. **Workaround**: View the SFP port information and status using the interface list in the CLI.
1024000	v7.0.10 - FortiGate 4400F seeing TB on 2 x 100Gig VLAN Interface bandwidth widget
1071907	There is no setting for the type option on the GUI for npu_vlink interface.
1145907	Bandwidth widget do not report the traffic correctly when backup vlan interface
1153294	Custom HTML content does not render correctly on login pages when configured through the FortiGate web interface or CLI.

HA

Bug ID	Description
781171	When performing HA upgrade via the GUI, if the secondary unit takes several minutes to bootup, the GUI may show a misleading error message "Image upgrade failed" due to premature timeout. This is just a GUI display issue and the HA upgrade can still complete without issue.
1210147	HA out-of-sync occurs due to certificate

HyperScale

Bug ID	Description
817562	Ipmd fails to correctly handle different VRFs, treating all as vrf 0, causing improper route management and affecting network traffic isolation.
896203	NPD parse errors occur after system reboot when running with multiple VDOMs and large address groups.
961328	Port selection remains in direct mode despite setting pba-port-select-mode to random, causing non-random port allocation for NAT sessions.
977376	FortiGate 4201F has -10% Performance drop for CPS test case with Dos Policy
1025908	Session count on peer device is 50% less during fgsp testing in new setups using VRRP-based configuration.
1027251	4401f: Logs are not sent out from FortiGate with log2host setting when log-server becomes reachable and it has correct dmac
1034685	4401f:Log cache is not cleared and holding the wrong dmac for unreachable gateway
1042151	/FortiOS/v7.00/images/build3380/: syslog over TCP not working
1058477	sentb and rcvdb show -ve value for end session syslog message.
1069044	Unable to clear/purge npu-session when src filter is set
1069531	diag sys session stat' command shows incorrect session_count
1072076	/build2693/: New HA master send syslog session-end log packet using wrong mac address after failover
1072247	/build2693/: New HA master not send syslog session-end log packet after failover
1078916	/build2699/: Log rate on GUI is double of real log rate
1091244	3440: hypersale hw-session-sync-dev should print properly error message when set members over 8
1091815	hw session doesn't sync when one of multiple interface hw-session-sync-dev is down

Bug ID	Description
1095593	Count for dropping arpmiss exception packets is too high
1101562	hyperscale hw-session-sync-dev LAG members can exceed 2*number of NP
1119021	Sessionsync daemon makes hw-session-sync dev up even it's physically down, no such issue with sw session sync dev
1119031	4201:HW sessions are not synced to slave when one of the hw-session-sync-dev members is down
1128155	FGT1801F log-transport TCP should be hidden for log servers under L2host and Netflow on CLI
1135433	IPv6 entries appear in the output of pba list, after reaching max PBA limit for ippool
1138823	FGT1801F non-hyperscale vdom shows incorrect output of "diag firewall ippool get-pub/priv" commands
1140493	config should be blocked when user tries to set same interface as hw-session-sync-dev and monitor.
1141632	After HA failover, syslog packets not sent out from new HA master when using NAT46/NAT64 policies
1143144	Both HW log(ps) rate and log(pm) rate showing in dia sys npu-session stat when set log-mode per-nat-mapping
1144290	2771/Log rate show 0 when using TCP for syslog
1150863	/build3510/: Session was deleted after FGSP failover due to R-session dirty
1184045	IPv6 TCP/UDP traffic fails to pass through when a threat feed object is integrated into an IPv6 High Security policy due to an internal state handling issue, which erroneously disables IPv6 functionality.
1197891	when unsupported ports are configured for hw-session-sync-dev it results in hardware session sync not functioning correctly. **Workaround**: change interface and reboot as simply fixing the config does not restore the proper configuration
1199557	Unsupported network interfaces are permitted as members of a Link Aggregation Group (LAG) when the LAG is configured for hardware session synchronization, leading to potential configuration errors.
1200885	Renaming an ippool in a FortiGate setup with VDOMs results in unintended behavior affecting network traffic.
1201968	4401f:Memory leak/ leak to log2host tbl can be seen when there are ~60M cc with log2host setting after couple of failovers
1202268	4401f:Not all the HW sessions are synced to new slave after a failover
1203844	Upgrade: cgn-log-server-grp config is missing after upgrade from 7.2.12. to 7.4.9

IPsec VPN

Bug ID	Description
866413	traffic over GRE tunnel over IPSec tunnel or traffic over IPsec tunnel with GRE encapsulation is not offloaded on NP7 based units.
897871	GRE over IPsec doesn't work in transport-mode (b8591)
970703	6K7K do not support ipsec-vpn over vdom-link / npu-vlink

Proxy

Bug ID	Description
1035490	The firewall policy works with proxy-based inspection mode on FortiGate models with 2GB RAM after an upgrade. **Workaround**: After an upgrade, reboot the FortiGate.

REST API

Bug ID	Description
1154124	Adding dynamic fabric addresses via the FortiNAC REST API fails due to an issue with HTTP header validation.

Routing

Bug ID	Description
903444	Command 'diagnose ip rtcache list' is no longer supported in FortiOS 4.19 kernel

1040655	From 7.4.1, when there is ECMP routes, local out traffic may use different route/port to connect out to server, for critical traffic which is sensitive to source IP address, suggest customer set specify interface or SD-WAN for the traffic since FortiOS has implemented "interface-select-method" command for nearly all local-out traffic.
	e.g.
	`config system fortiguard`
	`set interface-select-method specify`
	`set interface "wan1"`
	`end`

Bug ID	Description
1133796	ipv6 routes are stuck on kernel routing table
1150878	The IPoE tunnel interface cannot be selected in the Interface Bandwidth widget.

Security Fabric

Bug ID	Description
1076439	Security fabric Asset Identity Center shows "Failed to load user device store data"
1156006	SFTP backup fails when triggered through automation stitch on a FortiGate in an HA cluster using Windows-style paths.

Switch Controller

Bug ID	Description
1150215	Offline FSWs are offline in the GUI topology view, but shown as online in the list view.
1153175	Intermittent issues configuring allowed VLANs on the MCLAG interface via FortiGate GUI & CLI
1153905	FortiSwitch client page keeps loading

System

Bug ID	Description
912383	FGR-70F and FGR-70F-3G4G failed to perform regular reboot process (using 'exe reboot' command) with SD card inserted
995011	4201F NP7 HPE showed all-protocol packets dropped even through all-protocol had been disabled by setting it to 0.
1021903	The le-switch member list does not update when the role of an interface is changed in a lan-extension environment.
1078541	FortiFirewall 2600F models may become stuck after a fresh image burn. Upgrading from a previous version stills works. **Workaround**: power cycle the unit.
1085407	FortiGate unresponsive when default-qos-type is set to shaping.
1105321	4201F NP7 EIF0_IGR and EIF1_IGR usage are stuck at 100%, and host softirq is stuck at 99% after running the iptunnel traffic

Bug ID	Description
1114298	FortiGate Cloud remote login triggers 2 admin login events (1 successful and 1 unsuccessful for PKI admin)
1136616	2731: no graphs on some vlan interfaces in dashboard interface widget
1164332	NP7 stops forwarding traffic after reassembling large packet in DFR
1203193	FGR-70G and FGR-70G-5G-Dual do not support CLI for automation-stitch notifications when DIO module alarm functionality is activated, namely, 'set condition-type input' is not available under 'config system automation-condition'.
1213236	On v7.2.x, FGT700G/701G interface wan1/2 and lan1-6 default speed is 5000auto, but it actually working at auto mode and will negotiate to 1G if peer side speed is 1G. But on V7.4.9, the default speed setting changed to auto and 5000auto can only work at 5000M speed. So in upgrade scenario, customer may notice interface down due to speed setting not match. **Workaround**: Manually change port speed to auto.

Upgrade

Bug ID	Description
1114550	FortiExtender shows as offline after upgrading FortiGate from V7.4.5GA to V7.4.6GA. **Workaround**: Reboot FortiExtender manually.
1135049	An error condition in ips_load_json_gzfile occurs during FortiOS same image upgrade.

User and Authentication

Bug ID	Description
884462	NTLM auth does not work with Chrome
972391	RADIUS group usage not displayed correctly in GUI when used for firewall admin authentication.
1082800	When performing LDAP user search from the GUI against a LDAP server with large number of users (more than 100K), the FortiGate may experience slowness and freeze due to HTTPSD process consumes too much memory. User may need to kill the HTTPSD process or perform a reboot to recover. **Workaround**: User can perform LDAP user search via the CLI.
1148767	FSSO users are showing in small letters, filtering of users are not working and PIE charts are also not visible

VM

Bug ID	Description
978021	In FTP passive mode with GWLB setup, Geneve header VNI lengths are zero in syn-ack packets, leading to retransmission issues.
1125437	The "set distance" option under interface configured as dhcp client doesn't work on vm

WiFi Controller

Bug ID	Description
814541	GUI issue - When there are extra large number of managed FortiAP devices (500+) and large number of WiFi clients (5000+), the "Managed FortiAP" page and "FortiAP Status" widget can take a long time to load. This issue does not impact FortiAP operation.
964757	The FortiGate fails to generate debug/sniffer logs for a user when connecting to a specific SSID despite showing station logs with radius requests and challenges, while other SSIDs function correctly.
972093	RADIUS Accounting data usage is different between bridge and tunnel VAP
1080094	Offline station data consumes excessive memory when the sta-offline-cleanup or max-sta-offline settings are not configured
1144969	Mismatch IP address details in 'WiFi Client' GUI page

ZTNA

Bug ID	Description
819987	Mapped drives become inaccessible after laptop reboots when using FortiGate ZTNA access proxy with FQDN destinations.

Built-in AV Engine

AV Engine 7.00049 is released as the built-in AV Engine.

Resolved engine issues

Bug ID	Description
1193274	application /bin/scanunit worker 0: crashed by single 6 frequently(less than one min)
1223756	The file size limit set by 'uncompressed-oversize-limit' does not work for certain files.

Built-in IPS Engine

IPS Engine 7.00596 is released as the built-in IPS Engine.

Resolved engine issues

Bug ID	Description
1077638	Traffic drop occurs In some cases when FortiGate operates in NGFW Policy Mode Workaround:Reduce the refresh rate for the threat feed
1091118	Oversized packets exceeding the MTU cause delayed ACKs, leading to unintended behavior
1094870	FTPS data connections fail to establish when using flow mode firewall policies configured for FTP service.
1096297	Timeout occurs when web filter is enabled and fragments occur
1129130	FTP(Passive) traffic dropped intermittenly by FortiGate in NGFW mode
1144684	High CPU usage occurs when processing multiple RTSP streams due to inefficient resource management by the RTSP decoder. Workaround:Configure 'config ips decoder rtsp_decoder' with 'bypass-on-play' to bypass RTSP sessions by default.
1152384	CPU spikes after 7.2.11 upgrade
1162794	Unintended behavior occurs in the IPS Engine caused by the SCADA dissector.
1170304	Web sites take much longer time to load when the NPU offloading is enabled in firewall policy
1178184	SSL errors occur when accessing a specific website due to an unexpected record type when Web Filtering and DPI are enabled in Flow mode.
1181573	SSL inspection does not correctly add the Authority Key Identifier (AKID) when operating in Flow mode with DPI enabled.
1182461	[B2795] ipsengine 7.00570 high memory usage cause Kernel enters memory conserve mode
1191598	IPSEngine process consuming high CPU
1193876	Shared memory leak causing conserve mode
1197659	An error condition in IPS engine occurs when processing HTTP traffic
1205692	Sock5 traffic cannot pass FGT with Applicaiton Control is enabled
1210836	[2795]: Conserve mode due to gradual increase in AnonPages.
1217478	Missing IEC 60870-5-104 Application Control Log Events on FG-121G
1218520	BFD flaps occur due to an error condition in the IPS engine. Workaround:Bypass or block quic traffic in ssl-ssh-profile

Limitations

Citrix XenServer limitations

The following limitations apply to Citrix XenServer installations:

- XenTools installation is not supported.
- FortiGate-VM can be imported or deployed in only the following three formats:
  - XVA (recommended)
  - VHD
  - OVF
- The XVA format comes pre-configured with default configurations for VM name, virtual CPU, memory, and virtual NIC. Other formats will require manual configuration before the first power on process.

Open source XenServer limitations

When using Linux Ubuntu version 11.10, XenServer version 4.1.0, and libvir version 0.9.2, importing issues may arise when using the QCOW2 format and existing HDA issues.

Limitations on HA cluster formation between different FortiGate Rugged 60F and 60F 3G4G models

FortiGate Rugged 60F and 60F 3G4G models have various generations defined as follows:

- Gen1
- Gen2 = Gen1 + TPM
- Gen3 = Gen2 + Dual DC-input
- Gen4 = Gen3 + GPS antenna
- Gen5 = Gen4 + memory

The following HA clusters can be formed:

- Gen1 and Gen2 can form an HA cluster.
- Gen4 and Gen5 can form an HA cluster.

- Gen1 and Gen2 cannot form an HA cluster with Gen3, Gen4, or Gen5 due to differences in the `config system vin-alarm` command.

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