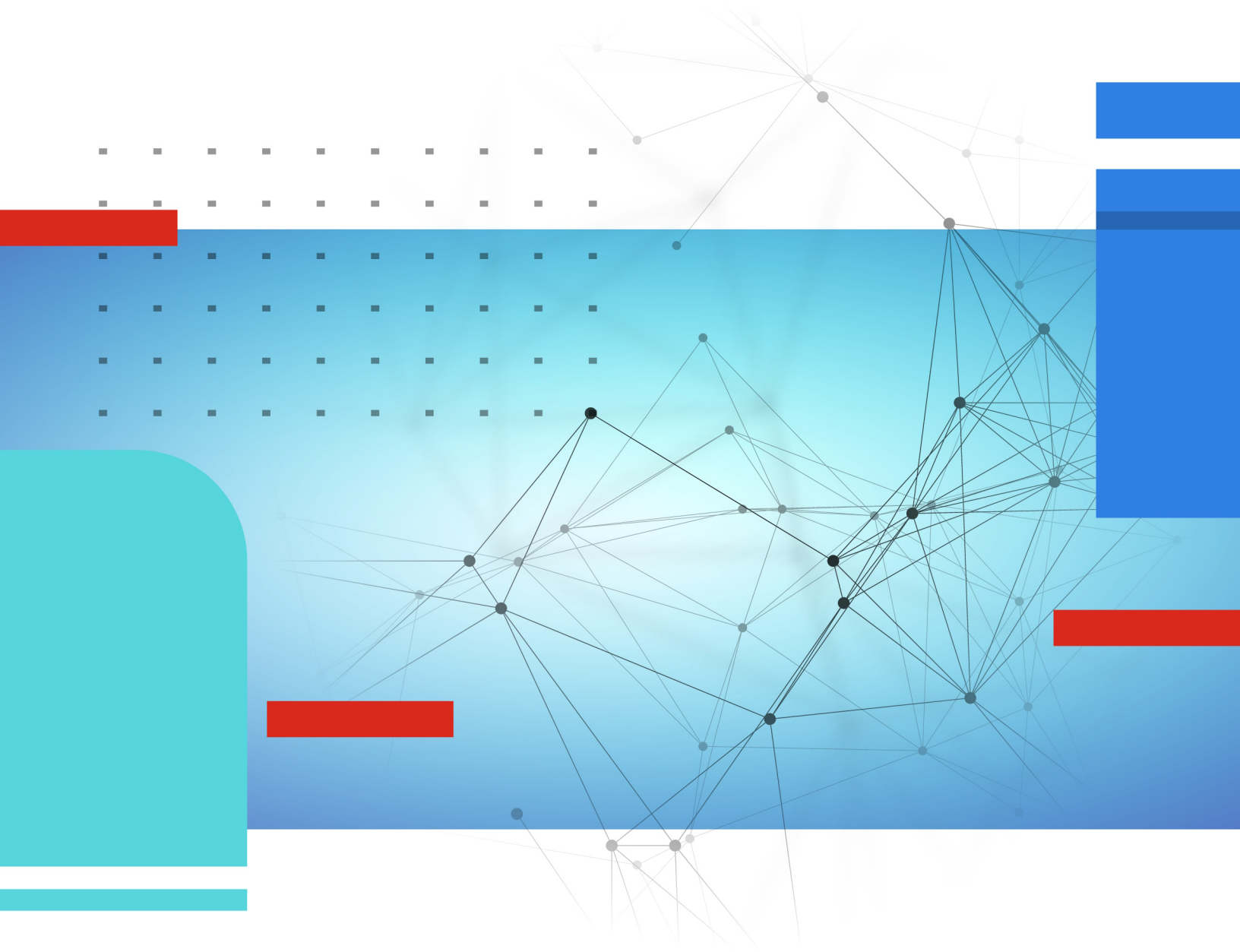
Release Notes

FortiOS 7.6.7



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June 2, 2026
FortiOS 7.6.7 Release Notes
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Change Log

Date	Change Description
2026-06-02	Initial release.
2026-06-02	Updated Introduction and supported models on page 7, Changes in CLI on page 18, New features or enhancements on page 22, Resolved issues on page 40, Known issues on page 65, and Built-in IPS Engine on page 72.

Introduction and supported models

This guide provides release information for FortiOS 7.6.7 build 3704.

For FortiOS documentation, see the Fortinet Document Library.

Supported models

FortiOS 7.6.7 supports the following models.

FortiGate	FG-30G, FG-31G, FG-40F, FG-40F-3G4G, FG-50G, FG-50G-5G, FG-50G-SFP, FG-50G-DSL, FG-50G-SFP-POE, FG-51G, FG-51G-5G, FG-51G-SFP-POE, FG-60F, FG-61F, FG-70F, FG-70G, FG-70G-POE, FG-71F, FG-71G, FG-71G-POE, FG-80F, FG-80F-BP, FG-80F-DSL, FG-80F-POE, FG-81F, FG-81F-POE, FG-90G, FG-91G, FG-100F, FG-101F, FG-120G, FG-121G, FG-200E, FG-200F, FG-200G, FG-201E, FG-201F, 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-900G, FG-901G, 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-3000F, FG-3001F, FG-3200F, FG-3201F, FG-3300E, FG-3301E, FG-3400E, FG-3401E, FG-3500F, FG-3501F, FG-3600E, FG-3601E, FG-3700F, FG-3701F, FG-3800G, FG-3801G, 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-SFP, FWF-50G-DSL, FWF-51G, FWF-60F, FWF-61F, FWF-70G, FWF-70G-POE, FWF-71G, 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-60G, FGR-70F, FGR-70G, FGR-70G-5G, FGR-70G-5G-Dual, FGR-70F-3G4G
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

FortiGate 6000 and 7000 support

FortiOS 7.6.7 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

FortiGate cannot restore configuration file after private-data-encryption is re-enabled

In a new enhancement, enabling `private-data-encryption` will utilize a randomly generated private key. Therefore, FortiGate cannot restore the configuration file in the following sequence:

1. `private-data-encryption` enabled with random key, and configuration is backed up.
2. `private-data-encryption` disabled.
3. `private-data-encryption` enabled again, with new random key.
4. Restore configuration file in step 1.

When disabling `private-data-encryption`, a warning in the CLI will be displayed:

```
This operation will restore system default data encryption key!
```

```
Previous config files encrypted with the private key cannot be restored after this operation!
```

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

FortiManager support for updated FortiOS private data encryption key

With the introduction of FortiOS 7.6.1, Fortinet has updated the private-data-encryption key feature. Administrators are no longer required to manually input a 32-digit hexadecimal `private-data-encryption` key. Instead administrators simply enable the command, and a random `private-data-encryption` key is generated.

How FortiManager 7.6.3 and later works with FortiOS private data encryption keys has changed. This topic covers the changes. See FortiManager behavior on page 10.

Previous FortiOS CLI behavior

```
config system global
    set private-data-encryption enable
end
Please type your private data encryption key (32 hexadecimal numbers):
12345678901234567890123456789abc
Please re-enter your private data encryption key (32 hexadecimal numbers) again:
12345678901234567890123456789abc
Your private data encryption key is accepted.
```

New FortiOS CLI behavior

```
config system global
    set private-data-encryption enable
end
This operation will generate a random private data encryption key!
Previous config files encrypted with the system default key cannot be restored after this
operation!
Do you want to continue? (y/n)y
Private data encryption key generation succeeded!
```

FortiManager behavior

FortiManager 7.6.3 can centrally manage FortiGates with the private-data-encryption setting enabled, with the following limitations:

- FortiManager cannot import objects that include the password type attribute.
- FortiManager cannot be used to create NAT and transparent VDOMs.

This applies to FortiGates with private keys that are manually configured in FortiOS 7.6.0 and earlier and private keys that are randomly generated in FortiOS 7.6.1 and later.

FortiManager does not require you to verify the private key of the FortiGate when adding it to FortiManager.

FortiGates that require the protection of private data encryption and need to be managed by FortiManager should follow these procedures on a fresh install.

1. On the FortiGate, enable private-data-encryption.
2. On the FortiManager, add the FortiGate to the Device Manager. FortiManager will not be required to provide the key for PDE, as it will not be importing any password-related settings.
3. Make all configuration changes directly on the FortiManager.
4. Push and install the changes to the FortiGate.

If you require the use of NAT or Transparent VDOMs, you should perform this additional step before the steps above.

1. Enable multi-vdom mode on the FortiGate.
2. Add the VDOMs that you will use on the FortiGate.
3. Follow the above steps to enable private-data-encryption and manage the FortiGate from the FortiManager.

For more information, see the FortiManager Administration Guide.

FortiOS upgrade behavior with FortiManager 7.6.2 and earlier

If in FortiOS 7.4.5 or 7.6.0 the 32-digit hexadecimal private key is enabled, and then the FortiGate device is upgraded to 7.6.1, the 32-digit hexadecimal `private-data-encryption` key is preserved. As a result, FortiManager 7.6.2 and earlier is aware of the 32-digit hexadecimal `private-data-encryption` key and can continue to manage the FortiGate device. However, if the `private-data-encryption` key is enabled after an upgrade of FortiOS to 7.6.1, FortiManager 7.6.2 and earlier no longer can manage FortiGate devices running FortiOS 7.6.1.

Hyperscale incompatibilities and limitations

See Hyperscale firewall incompatibilities and limitations in the Hyperscale Firewall Guide for a list of limitations and incompatibilities with FortiOS 7.6.7 features.

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`).

FortiGate 6000 and 7000 incompatibilities and limitations

See the following links for information about FortiGate 6000 and 7000 limitations and incompatibilities with FortiOS 7.6.7 features.

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

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 set up VMs with at least 4 GB of RAM for optimal performance.

RADIUS vulnerability

Fortinet has resolved a RADIUS vulnerability described in CVE-2024-3596. As a result, firewall authentication, FortiGate administrative GUI authentication, and WiFi authentication may be affected depending on the functionality of the RADIUS server software used in your environment. RFC 3579 contains information on the affected RADIUS attribute, message-authenticator.

In order to protect against the RADIUS vulnerability described in CVE-2024-3596, as a RADIUS client, FortiGate will:

1. Force the validation of message-authenticator.
2. Reject RADIUS responses with unrecognized proxy-state attribute.

Message-authenticator checking is made mandatory under UDP/TCP. It is not mandatory when using TLS. Therefore, if FortiGate is using UDP/TCP mode without RADSEC, the RADIUS server should be patched to ensure the message-authenticator attribute is used in its RADIUS messages.

Affected Product Integration

- FortiAuthenticator version 6.6.1 and older
- Third party RADIUS server that does not support sending the message-authenticator attribute

Solution

- Upgrade FortiAuthenticator to version 6.6.2, 6.5.6 or 6.4.10 and follow the upgrade instructions: https://docs.fortinet.com/document/fortiauthenticator/6.6.2/release-notes/859240/upgrade-instructions
- Upgrade the RADIUS server and/or enable it to send the correct message-authenticator attribute

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.

SSL VPN tunnel mode replaced with IPsec VPN

Starting in FortiOS 7.6.3, the SSL VPN tunnel mode feature is replaced with IPsec VPN, which can be configured to use TCP port 443. SSL VPN tunnel mode is no longer available in the GUI and CLI. Settings will not be upgraded from previous versions. This applies to all FortiGate models.

To ensure uninterrupted remote access, customers must migrate their SSL VPN tunnel mode configuration to IPsec VPN before upgrading to FortiOS 7.6.3 and later.

See Migration from SSL VPN tunnel mode to IPsec VPN in the *FortiOS 7.6 New Feature* guide for detailed steps on migrating to IPsec VPN before upgrade.

A complete migration guide can be found in the following links:

- For FortiOS 7.6, see SSL VPN to IPsec VPN Migration.
- For FortiOS 7.4, see SSL VPN to IPsec VPN Migration.

Agentless VPN (formerly SSL VPN web mode) not supported on some FortiGate series models

On the following FortiGate models, the Agentless VPN (formerly SSL VPN web mode) feature is no longer available from the GUI or CLI. Settings will not be upgraded from previous versions.

The affected models include:

- FGT-40F/FWF-40F and variants
- FGT-50G/FWF-50G and variants
- FGT-60F/FWF-60F
- FGT-61F/FWF-61F
- FGR-60F and variants (2GB versions only)
- FGT-70G/FWF-70G and variants
- FGT-90G and FGT-91G

To confirm if your FortiGate model has 2 GB RAM, enter `diagnose hardware sysinfo conserve` in the CLI, and check that the total RAM value is below 2000 MB (1000 MB = 1 GB).

On these FortiGate models, consider migrating to using IPsec Dialup VPN for remote access.

See SSL VPN to IPsec VPN Migration for more information.

FortiGate models not listed above will continue to support Agentless VPN (formerly SSL VPN web mode). However, SSL VPN tunnel mode is not longer supported on any models.

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

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

However FortiOS 7.6.5 brings back proxy-based inspection for email protocols on FortiGate models with 2 GB RAM. This covers the following services:

- SMTP(s)
- POP3(s)
- IMAP(s)

- NNTP

Firewall policies can once again support proxy-based inspection mode when users select one or more of the above services in the firewall policy.

This change impacts the FortiGate 40F, 60F, and 50G series devices, along with their variants.

See Proxy-related features no longer supported on FortiGate 2 GB RAM models for more information.

2 GB RAM FortiGate models no longer support Security Rating and Security Fabric topology

To enhance the stability of physical FortiGate devices devices with 2 GB RAM, the Security Rating feature and Security Fabric topology visibility have been removed. These changes prioritizes device stability and mitigate potential performance issues. For more information, see Optimizations for physical FortiGate devices with 2 GB RAM.

GUI access conflict with IPSec TCP tunnel on the same interface

In FortiOS version 7.6.1, the default IKE TCP port has been changed to port 443 on new deployments. In the FortiOS 7.6.1 Release Notes, see Bug ID 1051144 in Changes in default values.

This may affect GUI access for interfaces bound to an IPsec tunnel in the scenario that the GUI admin port is also using port 443.

In case GUI connectivity is lost, connect to the FortiGate by:

1. Connecting from an interface that is not bound to an IPsec tunnel.
2. Connecting to the interface using SSH, if SSH is enabled.
3. Connecting to the FortiGate from console.

To ensure continued functionality, users are recommended to either:

- Choose an alternative interface for GUI access by configuring:

```
config system global
    set admin-sport <port>
end
```

- Customize the `ike-tcp-port` to a value other than 443:

```
config system settings
    set ike-tcp-port <port>
end
```

SAML certificate verification

For security purposes, in previous versions, FortiGate required 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 has now been loosened with the following configuration:

```
config user saml
    edit <name>
        set require-signed-resp-and-asrt <enable | disable>
    next
end
```

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

By default, the setting is disabled, which only requires one of the response or assertion to be signed and valid.

For more information, see Identify Providers.

Policy check required for hairpin traffic

In FortiOS 7.6.5, the default setting for `allow-traffic-redirect` and `ipv6-allow-traffic-redirect` 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 hairpin 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.

Changing vlan-lookup-cache requires system restart

Enabling or disabling `vlan-lookup-cache` or any configuration change that causes a system restart can disrupt the operation of an FGCP cluster. If possible, you should make this configuration change to the individual FortiGates before setting up the cluster. If the cluster is already operating, you should temporarily remove the secondary FortiGate(s) from the cluster, change the configuration of the individual FortiGates and then re-form the cluster. You can remove FortiGate(s) from a cluster using the *Remove Device from HA cluster* button on the *System > HA GUI* page. For more information, see Disconnecting a FortiGate.

Changes in CLI

Bug ID	Description
895242	For the FortiGate-6000 and 7000 platforms, the default HA upgrade mode has been changed from simultaneous to uninterruptible.
1238936	The SFP speed detect CLI option has been updated, replacing auto-module with detect-by-module for improved clarity.

1266730	The arp-reply CLI option is now supported for IPv4 and IPv6 firewall VIPs. The arp-reply option is enabled by default and you can use the following command to disable ARP replies for a firewall VIP:
	`config firewall vip`
	`edit new-vip`
	`set arp-reply disable`
	`end`

Changes in default behavior

Bug ID	Description
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.

1239371	FortiGate operating in GovRamp (previously called StateRAMP) mode will use dedicated FortiGuard NTP servers as the default configuration after a factory reset.
	Previous Behavior
	After a factory reset in GovRamp mode, FortiGate defaulted to the following custom NTP servers:
	`time-a-g.nist.gov | 129.6.15.28`
	`time-b-g.nist.gov | 129.6.15.29`
	New Default Behavior
	Following a factory reset, the system now defaults to dedicated FortiGuard NTP servers:
	`ntp1.fortinetgov.com | 23.249.63.60/23.249.63.61`
	`ntp2.fortinetgov.com | 23.249.63.62/23.249.63.63`

1240706	In NGFW policy-based mode, traffic may be bypassed when the IPS engine is not running such as when FortiGate first boots up, the IPS engine is upgrading or when it is manually stopped with debug commands. Instead, NGFW policy mode VDOMs will now drop traffic when IPS sockets are not available.
1245249	Additional commands are allowed before device registration to accommodate users that require configuring the device for central management, ZTP and LTP. Commands added: • config firewall policy • config router setting • config router static • config router static6 • config system admin • config system central-management • config system dns • config system interface • config system pppoe-interface • config system settings
1288059	On FortiGate 20xG models, port1 and port2 are removed from the virtual switch and configured for DHCP by default after a factory reset or out-of-box initialization to support Zero Touch Provisioning (ZTP) over these ports.

Changes in default values

Bug ID	Description
1248524	The default MTU for IPsec tunnel interfaces has been changed from 1420 to 1402 on the following FortiGate models: FG-5xG, FG-7xG, FG-9xG, FG-12xG, FG-20xG, FG-40xF, FG-60xF, FG-70xG, FG-90xG, FG-100xF, FG-180xF, FG-260xF, FG-300xF, FG-320xF, FG-350xF, FG-370xF, FG-420xF, FG-440xF, FG-480xF, FG-7000F, FG-ARM64-AWS, FG-ARM64-AZURE, FG-ARM64-GCP, FG-ARM64-KVM, FG-ARM64-OCI, FG-ARM64-XEN, FG-VM64, FG-VM64-ALI, FG-VM64-AZURE, FG-VM64-AWS, FG-VM64-GCP, FG-VM64-HV, FG-VM64-IBM, FG-VM64-XEN, FG-VM64-KVM, FG-VM64-OPC.

Changes in table size

Bug ID	Description
1132879	Increase extension-controller.extender size for FGT-200G and higher end to 512 to support more lan-extension connections.

New features or enhancements

More detailed information is available in the New Features Guide.

FortiASIC

Feature ID	Description

1192303	On FortiGates with NP7 processors, the following new option is available to enable or disable VLAN accounting:
	
	`config system npu`
	`  set vlan-accounting {disable | enable}`
	`end`
	
	VLAN accounting is enabled by default.
	VLAN accounting on a busy FortiGate with a large number of VLANs can generate large numbers of VLAN lookup (SPV/TPV) messages. In some cases these messages can cause CG-FULL conditions or packet drops, especially on very busy systems.
	You can use the following command to reduce the number of VLAN accounting massages that are generated by
	increasing the VLAN accounting interval.
	
	`config system npu`
	`  set vlan-acct-interval <milliseconds>`
	`end`
	
	The default VLAN accounting interval is 200 milliseconds. The range is 100 to 10000 milliseconds.

1205727	You may be able to reduce FGCP HA failover times by changing the the NP7 link scan interval. The NP7 link scan interval is the amount of time that a FortiGate with NP7 processors waits between scans to determine if a link has failed. A shorter NP7 link scan interval can cause the FortiGate to send gratuitous ARP packets sooner after an HA failover has occurred.
	
	`config system npu`
	`  set np-linkscan-interval <milliseconds>`
	`end`
	
	The `np-link-scan-interval` range is 50 to 1000ms. The default NP7 link scan interval is 1000 milliseconds (ms). If your FGCP HA cluster experiences longer than expected HA failover delays (for example a 2-second interval for a failover to occur), reducing the NP7 link scan interval may reduce HA failover delays.

Feature ID	Description
1288373	Introduces NPU offload support for IPsec over VNE interfaces on SoC5/NP7Lite and NP7 platforms, enabling hardware acceleration at the driver level, improving performance and throughput.

GUI

See GUI in the New Features Guide for more information.

Feature ID	Description
1176612	A new "Legal Third Party" panel has been added to the FortiOS GUI, providing a searchable and exportable list of all third-party software used in the product, along with their required licenses, license terms, and version information. This enhancement centralizes all third-party licensing details in a single, easily accessible location.
1260021	During the 7-day setup period, administrators can upgrade or downgrade the device manually through GUI and CLI. After the 7-day setup period, administrators must register to perform upgrade and downgrade.

Hyperscale

Feature ID	Description

1212583	On FortiGates licensed for Hyperscale firewall, the following new options are available to improve control over timers related to Endpoint Independent filtering (EIF) sessions. EIF is also called full-cone NAT.
	
	`config system npu`
	`set eif-tcp-refresh-dir {both | outgoing | incoming}`
	`set eif-udp-refresh-dir {both | outgoing | incoming}`
	`set eif-tcp-ttl <time>`
	`set eif-udp-ttl <time>`
	`set extra-timeout-tcp <time>`
	`set extra-timeout-udp <time>`
	`end`

LAN Edge

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

Feature ID	Description
1197063	Add support for channels 1 through 93 in the 6 GHz range for all G and K platforms for the Ukraine-U region.
1238935	Adds support for defining trunk portselection criteria at the global switchcontroller level on Marvell platforms. Centralizing this configuration replaces the previous pertrunk approach.
1244920	Adds the ability to enable both Dynamic VLAN and VLAN Pooling simultaneously when configuring a VAP with RADIUS authentication. This enhancement expands flexibility in enterprise deployments by allowing VLAN assignment from RADIUS or, when absent, falling back to the local VLAN pool for seamless segmentation.
1244925	Enhances VLAN pooling in WTP group mode by allowing multiple WTP groups to be selected when creating a VLAN entry. This improves flexibility and scalability for environments where VLAN pools must span several WTP groups.
1249992	Enables MultiLink Operation (MLO) on Local Standalone VAPs for FortiAPK models, extending WiFi 7 MLO capabilities beyond Managed FortiAPs. Authentication is handled directly on the FortiAP, allowing full MLO functionality even when operating independently.

Network

See Network in the New Features Guide for more information.

Feature ID	Description
1215201	Adds support for an external active GNSS antenna on FWF50G5G, extending the existing GPS feature to enable stronger signal reception. This enhancement improves GPS accuracy and reliability in environments where the built-in passive antenna is insufficient.

1215886	Add a new setting that functions like strict Reverse Path Forwarding checks for reply packets.
	
	`config system settings`
	`  set src-check-reply {enable | disable}`
	`end`
	
	Where:
	• `enable`: Enable source verification for reply packets.
	• `disable`: Disable source verification for reply packets (default)."

Policy & Objects

See Policy and objects in the New Features Guide for more information.

Feature ID	Description
1105204	Adds support for using SCIM groups directly in firewall policies, eliminating the need for local group mapping, simplifying identity-based access control. Additionally enables IPsec VPN authorization by matching certificate SAN fields with SCIM user attributes, ensuring consistent and streamlined user authentication and policy enforcement.

Security Fabric

See Security Fabric in the New Features Guide for more information.

Feature ID	Description
1250003	Introduces a new default automation stitch (Firmware Upgrade Complete), a new automation trigger (Auto Firmware Upgrade Complete), and a new automation action (Auto Upgrade Complete Email Notification); additionally, the firmwareupgrade email notification has been improved for greater clarity, and the previous default automation stitch (Firmware Upgrade Notification) has been disabled.

Security Profiles

See Security profiles in the New Features Guide for more information.

Feature ID	Description
1199124	Adds WebSocket traffic inspection, allowing UTM modulesincluding DLP, AV, IPS and FileFilterto detect and block sensitive data, malware, and restricted files sent over WebSocket. With the growing adoption of WebSocket-based applications, this provides essential security coverage previously unavailable.

System

See System in the New Features Guide for more information.

Feature ID	Description
1223803	Introducing customizable DHCP Option 82 configuration, enabling administrators to select any combination of suboptions and define a custom delimiter. It replaces the previous configuration of only three fixed, noneditable styles.
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.
1256067	The FortiGate FortiGuard communication protocol (FCPC) is enhanced to accept a new ForcedUpdate flag as well as the major.minor.patch-build versioning from the FortiGate. When a FortiGate observes its firmware license is invalid, it will send FortiGuard a firmware upgrade message with the ForcedUpdate flag and its versioning. In turn, FortiGuard server will ignore license check for that device and parse its firmware version. If the major and minor version on the upgrade-from and upgrade-to firmware are the same, the upgrade will be allowed. Furthermore logs, notifications and automation stitches are improved to provide clearer indication of auto-upgrade and required-upgrade within its messaging.
1256231	Enhances the CLI prompt to display the current HA role (e.g., active/passive) of the device. This removes the need for additional status commands and automatically updates after failover, making role identification faster and more intuitive for users.
1256235	Adds support for preserving permember SNMP system information, including location, description, and contact information. This allows administrators to uniquely identify and manage each HA unit in SNMP monitoring tools, even when members are deployed across different sites.
1274821	Adds support for Connectivity Fault Management (CFM) on FortiGate Gseries platforms, enabling administrators to diagnose and troubleshoot Ethernet network issues.

VPN

See IPsec and SSL VPN or Agentless VPN in the New Features Guide for more information.

Feature ID	Description
1212772	By default, changes to outbandwidth or egress shaping profiles on a physical or VLAN interface do not take effect for IPsec tunnels or sessions that are already established and offloaded by NP7 or NP7Lite (SOC5) processors. To apply the updated egress shaping settings, you must flush or reinstall the affected IPsec SAs and clear any offloaded sessions. Doing this rebuilds the IPsec tunnel and associated sessions using the new interface shaping configuration. For FortiGates with NP7Lite (SOC5) processors, you can use the following command to cause FortiOS to automatically flush or reinstall the affected IPsec SAs and clear any offloaded sessions after changing the configuration of an outbandwidth or egress shaping profile: config system npu set mcs-auto-start enable end mcs-auto-start is disabled by default."
1212920	Native VPN remote access configurations have been improved on the VPN wizard. For supported OS's, configurations from the VPN wizard will work out of the box. Native VPN client

Feature ID	Description
	defaults to using L2TP over IPsec for Windows, Android and macOS/IOS clients. Admins can also configure IKEv2 for Windows and Android clients.

1235059	IPsec multipath allows encrypted tunnel traffic to be distributed across multiple sub-tunnels and CPU queues simultaneously. By grouping these sub-tunnels into a single logical super tunnel, FortiGate can utilize multiple CPU cores in parallel, significantly increasing VPN throughput without requiring changes to the overall tunnel design or addressing plan.
	To enable:
	`config vpn ipsec phase1-interface`
	`edit <name>`
	`set multipath <integer>`
	`next`
	`end`

1262907	Allow unaddressed IPsec tunnel interfaces to be used as PIM interfaces by borrowing the IP address of a loopback interface.
	`config router multicast`
	`config interface`
	`edit "p1"`
	`set update-source "lo1"`
	`next`
	`end`
	`end`

ZTNA

See Zero Trust Network Access in the New Features Guide for more information.

FeatureID	Description

1206912	Add a new option for secure webproxy clients to opt-out from using EMS CA certificate.
	`config authentication setting`
	`set ems-root-ca {enable* | disable}`
	`end`
	Enable/disable use of the EMS root CA for FortiClient, ZTNA, and endpoint authentication (default = enable).
	When disabled, WAD checks client cert based on the user CA setup.

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 28 and Upgrading all 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 7.6.7 is verified to work with these Fortinet products. This includes:

FortiAnalyzer	• 7.6.7
FortiManager	• 7.6.7
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, 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 7.6.0, use FortiClient 7.6.0.

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 7.6.7. When Security Fabric is enabled in FortiOS 7.6.7, all FortiGate devices must be running FortiOS 7.6.7.

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 7.6.7:

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 7.6.7 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. Check the *Cluster Status* dashboard widget or use the `diagnose sys confsync status` command to confirm that all components are synchronized and operating normally.

Default setting of cp-accel-mode is changed to none on 2GB memory models

This change disables CP acceleration to lower system memory usage thus can prevent some unexpected behavior due to lack of memory.

Previous FortiOS CLI behavior:

```
config ips global
    set cp-accel-mode advanced
end
```

New FortiOS CLI behavior after upgrade:

```
config ips global
    set cp-accel-mode none
end
```

This change will cause performance impact as CPU will do the pre-match (pattern match) inside IPS (CPU) instead of hardware engine (cp module in SOC4). Some customers could expect an increase in CPU utilization as a result.

FortiGate and FortiWiFi 4xF/6xF families are affected by this change.

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

If local-in policy, DoS policy, interface policy, multicast policy, TTL policy, or central SNAT map used an interface in version 7.4.5, 7.6.0 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 7.6.1 or later.

This issue is resolved in FortiOS 7.6.3 with mantis 1104649.

After following the upgrade path to FortiOS 7.6.3, 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 7.6.3, and the policies remain untouched. Skipping upgrade steps might cause devices to miss other important FortiOS checks and changes and is not recommended.

Managed FortiSwitch do not permit empty passwords for administrator accounts

Starting from FortiOS version 7.6.1, 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 7.6.1 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.

Removed speed setting affects SFP+ interfaces after upgrade

Due to `1000auto` speed setting removal on FortiGate 1000F/1001F in FortiOS 7.6.1, upgrade from previous version may result in interface down because speed setting changed to `10000full` on SFP+ interface, which previously used speed `1000auto`. Administrators may need to manually change speed setting to `1000full` to restore the connection.

Hyperscale with FGCP HA clusters and interface monitoring

For previous versions of hyperscale FortiOS, FGCP HA clustering with hardware session synchronization with `config vcluster-status disabled` allowed you to monitor `hw-session-sync-dev` interfaces. FortiOS 7.6.3 changed this behavior, and you can no longer monitor `hw-session-sync-dev` interfaces.

If your HA configuration includes monitoring `hw-session-sync-dev` interfaces, the upgrade to FortiOS 7.6.4 removes the monitor interface configuration.

You can work around this problem by removing monitoring from `hw-session-sync-dev` interfaces or by selecting different interfaces to be `hw-session-sync-dev` interfaces before performing the upgrade.

Password policy enforcement

After upgrade to FortiOS 7.6.5 or later, the password policy is enforced, and your password must meet the requirements before you can log in to FortiOS. Passwords must contain:

- 1 uppercase letter
- 1 lowercase letter
- 1 special character
- 1 number (0-9)
- A minimum length of 12 characters

If your password meets the requirements, you can log in to FortiOS after upgrade.

If your password does not meet the requirements, you must change your password before you can log in to the GUI or CLI.

Product integration and support

The following table lists FortiOS 7.6.7 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 0333 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 Datacenter
	  • Windows Server 2016 Standard
	  • Windows Server 2016 Core
	  • Windows Server 2012 Standard
	  • Windows Server 2012 R2 Standard
	  • Windows Server 2012 Core
	  • Novell eDirectory 8.8

AV Engine	• 7.00054
IPS Engine	• 7.01187

See also:

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 2022
Windows Hyper-V Server	• Microsoft Hyper-V Server 2022
Open source XenServer	• Version 3.4.3 • Version 4.1 and later
VMware ESXi	• Versions 6.5, 6.7, 7.0, 8.0, and 9.0.

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	✓

Agentless VPN support

The following table lists the operating systems and web browsers supported by Agentless VPN (formerly SSL VPN web mode). See also SSL VPN tunnel mode replaced with IPsec VPN on page 13.

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
FEV-211F_AM	FEM_12_EM7511-22-1-2-AMERICA	FEM_12_EM7511-22.1.2-build0001-AMERICA.out	America

FortiExtender model	Modem firmware image name	Modem firmware file on Support site	Geographical region
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 7.6.7. To inquire about a particular bug, please contact Customer Service & Support.

Agentless VPN

Bug ID	Description
1203158	An error condition occurs when the maximum number of concurrent users is reached
1214345	High memory usage occurs when multiple VDOMs are configured with SSLVPN.
1216477	Blocked IP addresses are cleared when login-block-time is not reached in multiple VDOMs with different login-block-time settings.
1234918	Insecure Content-Security-Policy occurs when SSL VPN portal is accessed
1240901	PCI scan fails when using HTTP/1.0 on the SSLVPN port
1247129	Browser offers to save RDP credentials when Agentless VPN is configured
1257802	RDP disconnections occur when high monitor refresh rate triggers command limit in Agentless VPN web portal
1272207	Authentication failure occurs when username and OTP are concatenated during SSLVPN login on FortiOS 7.4.11

AntiVirus

Bug ID	Description
1125299	HTTP logs are missing HTTP method and agent information when uploading files using HTTP POST/PUT.
1214247	When FortiSandbox inline scan is configured in proxy inspection mode, timeout occurs prematurely.
1249056	An error condition occurs in the antivirus daemon during database updates.
1260804	Zip file download is blocked when Antivirus profile is configured in Proxy mode and scanned by stream scan.
1281140	Fields are missing from Message ID 8195 when using multipart/form-data Content-Type

Application Control

Bug ID	Description
1156066	Communication breaks when application control is used in policy over EMAC VLAN interfaces
1264508	Application control fails to block small files through WeChat when using proxy inspection mode

DNS Filter

Bug ID	Description
1229928	Traffic is not blocked as expected when DNS response returns NXDOMAIN in flow-based mode
1243152	Incorrect client and server cookies are returned for cached DNS entries when conditional forwarding with EDNS cookies is configured
1254463	Traffic drop occurs when using wildcard FQDN objects when a certain pattern of FQDN cannot be resolved by passive learning.
1254680	DNS-over-TLS fails when configured on FortiGate 201E with FortiOS 7.4.10
1255195	DNS query failure occurs when FortiGate acts as recursive DNS server for long TXT records

Endpoint Control

Bug ID	Description
1037548	Internal server error occurs when FortiGate requests over 50 fingerprints/users for the EMS /api/v1/report/fct/client_avatars API
1207648	Intermittent disconnection of EMS Cloud from FortiGate caused by frequent TPM requests from httpsd
1226271	Memory usage issues caused by EMS endpoint requesting many client avatar entries.
1239851	Traffic bypasses policy when SIA assigned IP is not updated with ZTNA tag

Explicit Proxy

Bug ID	Description
1237357	Proxy rule match issues occur when host-regex address values exceed 40 characters
1240208	Intermittent 504 Gateway Timeout errors occur when using explicit proxy after upgrade due to wildcard FQDN not resolving a certain pattern of FQDN
1247518	HTTP 303 Redirect Loop occurs when accessing websites with SWG SSO connection
1252739	Total shared user count exceeds limit when proxy-auth-lifetime is enabled
1257127	Unexpected behavior in explicit proxy occurs when video filter is enabled and there are multiple requests to the same video ID
1281206	Captive portal fails to appear when IPS is enabled on the proxy policy

File Filter

Bug ID	Description
1186664	Outlook web client doesn't update emails automatically when proxy-based file-filter is enabled on proxy policy
1208793	When File Filter is enabled on a proxy policy, some API calls are blocked

Firewall

Bug ID	Description
1099748	HPE incorrectly identifies TCP RST ACK packets as TCP type when receiving RST ACK packets.
1104208	NAT is not correctly applied to traffic when a single SYN packet is sent to a VIP without an acknowledgment or reset.
1198219	Packets are dropped when using auto-asic-offload with EMAC-VLAN over LACP on FortiGate
1203504	Traffic fails over emac-vlan interface between vdoms when offloading is enabled
1212772	Traffic shaping statistics are unavailable when using SOC5
1214413	The handling of "firewall-session-dirty check-all" has been optimized so that changes to interfaces or policies unrelated to the offloaded session will not cause the offloaded session to become dirty.

Bug ID	Description
1215851	Packets are sent back on the same trunk interface when emac-vlan is removed in an emac over LAG setup
1215886	Spoofed reply packets bypass FortiGate when strict check is enabled and reply traffic comes from a different interface.
1217157	GeoIP allow/block functionality fails when configuring VIP with GeoIP as source due to a limitation in number of unique countries (256) that can be added to kernel from a firewall policy.
1218523	ICMP packet drops occur when hardware offloading is enabled
1230854	Security exempt list with wildcard FQDN cannot be applied on a captive-portal SSID.
1233342	Traffic drop occurs when ipv4-proto-err is enabled on NP7-based FortiGate
1235349	Destination IP addresses become unreachable when auto-asic-offload is enabled on the policy where emac-vlan interfaces are used and VRRP virtual mac is enabled
1240706	In NGFW policy-based mode, traffic may be bypassed when the IPS engine is not running such as when FortiGate first boots up, the IPS engine is upgrading or when it is manually stopped with debug commands
1244717	Traffic impact occurs when asic-offload is enabled on NP7 over a one-arm EMAC VLAN interface
1252751	Virtual servers with custom SSL ciphers are deleted during upgrade
1257907	NTurbo offload fails when using inter-VDOM links on FortiGate.
1259241	FortiGate forwards packets with incorrect destination MAC addresses when using EMAC interface with VLAN ID
1266899	Traffic disruption occurs when switching NPU's default-qos-type to shaping using QTM module
1270494	Egress shaping-profile cannot accurately limit maximum-bandwidth on VLAN interface when configured on its parent interface on SoC5 models.
1271340	L2TPv3 packets are discarded when protocol 115 is not included as a known protocol on FortiGate
1274475	Fragmented packets are forwarded to different LAG member ports when LAG hashing uses both L3 and L4 fields.
1277509	Unexpected behavior related to the QTM module when egress-shaping-profile is configured on the parent interface of a VLAN interface.
1281193	FTP passive mode fails when FortiGate is not performing NAT after firmware upgrade from 7.4.9 to 7.6.6
1286715	After a firewall address is renamed, duplicate addresses can be accepted in a firewall policy without errors from the CLI.

FortiGate 6000/7000 Platform

Bug ID	Description
895242	7KF/v7.4.0/b2314: The default setting "uninterruptible-upgrade" is different between SLBC and regular FortiGate platforms
947982	Audio cutouts occur when CG_FULL errors are high on NP7 models
1170210	FortiGate Wireless controller Wifi client cannot ping GW/FGT interface. Pass through traffic works fine
1179530	Create session response is dropped when PGW replies with Context Not Found and TEID is null.
1185009	Traffic on VLAN interfaces is dropped when changing LAG members in emac over VLAN setups due to MAC address changes not being updated.
1231901	Link-speed test failure occurs when CP10 is configured as Gen4x2
1242828	Erroneous memory allocation may occur under specific conditions on FIMs and the primary FPM during IPv4 and IPv6 routing operations.
1244720	Memory usage issues caused by running v4/v6 routing protocols after upgrade
1253034	VLAN interface counters show zero Receive/Transmit Bytes and Packets when fastpath is disabled
1260299	High CPU utilization occurs when config system npu set lag-out-port-select is enabled
1272827	Traffic forwarding fails when FGT7081F Primary FPM does not send GARP to connected switch after HA failover.
1274545	Both nodes respond to ARP requests when the HA table is edited in config sys ha.

GUI

Bug ID	Description
793029	Unexpected behavior occurs on some FortiGate models when a FortiClient lacks a required MAC address attribute.
981278	Devices are not displayed on the OT view page when a large number of devices are detected
1027218	The "clients" link on the Diagnostics page of any FAP opens one type of client (any of 2.4GHz, 5GHz, or 6GHz bands) and then becomes unresponsive.
1138400	GUI accessibility issues occur when FortiGate is configured with a large number of FAPs and left idle for an extended period

Bug ID	Description
1145510	Unexpected behavior in Node.JS occurs when creating IPsec tunnels through the wizard
1165258	Address group search results are not returned when there are thousands of firewall addresses and groups.
1189250	Upgrade page display issue occurs when HA cluster is in secondary-only mode
1191076	Interface bandwidth data is not displayed when LAG is upgraded from 2x40G to 2x100G ports
1194766	Search functionality issue occurs when viewing threat feed entries from the GUI.
1196284	SecurityFabric tooltip displays Client IP when device is detected as a router
1203957	Inconsistent license expiration dates appear when viewing license information
1210579	An error condition in Node.JS occurs when CSF websocket failure happens on standalone FortiGate.
1214354	When Security Rating runs a full report on devices that have hundreds of extension devices, device becomes unresponsive when node process CPU and memory utilization suddenly increase
1215246	Interface deletion fails via GUI on hardware-switch but succeeds on CLI
1216367	Access issues occur when admin with custom accprofile logs in to GUI
1217015	Faceplate loading issue occurs when hovering over WAN interface in multi-vdom mode
1217474	Unexpected behavior in Node.JS occurs when executing workerpool scripts
1218901	GUI widgets display incorrect time when gui-date-time-source is set to system
1219066	NAT is enabled automatically when toggling security posture tag in ZTNA policy
1221215	Slow GUI performance occurs when searching address groups
1223774	Firewall policy GUI page shows 'no-inspection' for SSL when profile group is applied.
1224951	Interface aliases do not display in Performance SLA columns when configured in FortiGate GUI
1228240	An error condition occurs in the GUI when editing Block/Allow lists under Email Filter
1228366	Network interfaces are displayed in incorrect order when accessing Network>Interfaces on FortiGate 30G.
1229684	The FortiGate VM License page is not displayed in the GUI when the FortiGate VM is unlicensed
1230037	Changes occur when FortiGate is managed by FortiManager and admin logs in with read-only access.
1231087	Authentication failure occurs when accessing FortiGate through FortiGate Cloud with trusthost configured
1233052	An error condition in Node.JS occurs when token generation fails.
1234222	An error occurs when switching the table from Performance SLAs to SD-WAN Rule
1234864	Error condition occurs when checking SIM status Carrier on GUI

Bug ID	Description
1235147	Virtual server clone function becomes edit mode when clicked
1236970	FortiSM Violation is observed when revision backup on logout is enabled and super_amdin logs out from the GUI
1237463	Login failure occurs when post-login-banner is enabled with SAML Single Sign-On
1239075	Policy dialog page fails to update source object when changing from internet-service to regular address during policy editing
1239337	User passwords cannot be printed in clear text when logged on with guest admin account
1239762	Config changes are restricted for WiFi when managed by FortiManager for admins with read-write permissions
1242637	Firewall policy search issues occur when searching for External Feed objects in a long list
1245838	Incorrect mode option appears for WWAN interface when LTE modem is enabled
1246460	Incorrect interface information appears when hovering over SFP icon on FGR-70F-3G4G
1247676	SSH deep scan toggle does not save when enabled on low-end models.
1249113	FCT-managed devices with network interfaces connecting to different VDOMs may create multiple interface entries in the user-device-store causing memory usage issues.
1249169	Incorrect Japanese translation occurs when prompted for one-time upgrade when critical vulnerability detected
1249302	An error condition in Node.JS occurs when handling undefined properties.
1251014	Incorrect interface stats occur when master FIM miscalculates bandwidth and throughput on SLBC platforms
1252941	No results appear on the security rating page when logging into the fabric root GUI
1256988	Brute-force attacks triggered a lot of leaving http_authd processes running and causing memory usage to steadily increase.
1258180	Display limit in source and destination columns of policy list is increased from 3 to 5 when FortiGate is configured.
1259193	An error condition occurs in the login process when accessing the FortiGate and requests for static files are returning HTTP 401
1260292	Print button is not visible when using prof_admin profile after FortiOS upgrade
1265195	GUI performance issue occurs when adding or removing members from large firewall address groups
1271369	SAN format options are not available in GUI when creating a CSR on FortiGate
1274070	File name does not update with CLI console name when renamed
1277699	Incorrect display of device and hostname with Korean characters occurs when device detection is enabled and Windows computer name contains Korean characters.

HA

Bug ID	Description
1165361	CPU usage issues observed during HA led optimization with child process forking

1205727	You may be able to reduce FGCP HA failover times by changing the the NP7 link scan interval. The NP7 link scan interval is the amount of time that a FortiGate with NP7 processors waits between scans to determine if a link has failed. A shorter NP7 link scan interval can cause the FortiGate to send gratuitous ARP packets sooner after an HA failover has occurred.
	
	`config system npu`
	
	`  set np-linkscan-interval <milliseconds>`
	
	`end`
	
	The np-link-scan-interval range is 50 to 1000ms. The default NP7 link scan interval is 1000 milliseconds (ms). If your FGCPHA cluster experiences longer than expected HA failover delays (for example a 2-second interval for a failover to occur)reducing the NP7 link scan interval may reduce HA failover delays.

1213917	Interface configuration deletion occurs when QOS is enabled and a reboot happens
1214587	DNS queries are sent from HA reserved management interface when it is configured.
1216459	Verification failure occurs when BIOS security level is set to High during HA image upgrade
1217228	Route table deletion occurs when a split brain condition happens in GCP
1220647	RX drops occur on HA1 and HA2 ports when upgrading the i40e driver
1224835	Traffic drop occurs when doing HA failover on EMAC VLAN
1225710	Mobile Token assignment fails on old models that don't support vSN when HA fail-over occurs
1225919	Packet size issues occur when syncing large FQDN response packets in autoscaling environments
1226672	Packet loss occurs when slave member emac-vlan responds to ARP requests in an HA setup with LACP and VLAN.
1231480	LACPDU transmission issues occur when HA failover is triggered by a monitoring port disconnect
1233776	FSSO user list disappearance occurs when HA failover happens twice.
1234340	Asymmetric session handling fails when two FGSP links are configured and only the second link recovers after both go down.
1235313	Traffic disruption occurs when a large number of firewall policies are installed after a failover during an upgrade in a FortiGate cluster
1237317	No Rx packets occur when unicast-hb is enabled on FortiGate-VM64 with SRIOV.

Bug ID	Description
1240288	Packets are sent using the cluster MAC address by the secondary cluster member after failover
1243380	Virtual MAC is used by HA-AP Secondary when removing a member from an aggregate interface
1244401	Virtual cluster member dead logs occur when non-primary blades in chassis report HA related logs
1244800	An error condition in Confsync occurs when sending large messages through the local socket
1244944	HA heartbeat loss occurs when highest priority is not restricted to heartbeat, routing, and LACP
1246577	IPAM is unexpectedly enabled on the HA peer when CSF is enabled or modified.
1248579	Traffic disruption occurs on EMAC VLAN interfaces during HA failovers
1250174	Autoscale synchronization issues occur when configuring FortiToken on system admin
1250511	Unexpected Layer 2 bouncing occurs when peer's dev_base is missing in FGSP HA
1260236	Unexpected power off events occur in FortiGate 70G when configured in HA Active/Passive mode with wireless traffic.
1269523	Rebooting the secondary FortiGate in HA active-passive mode causes traffic loss due to split-brain and unintended ARP broadcasts from the secondary FortiGate.
1271901	Authentication issues occur when Azure SDN connectors reuse incorrect tenant tokens after HA failover
1273912	Split-Brain state occurs when configuring a new VDOM when the primary has more VDOM license seats than the secondary unit
1275737	License Status: Warning occurs when root VDOM is active on the primary in a FortiGate-VM HA A/P cluster with VDOMs and virtual clustering enabled.
1281897	Missing start time occurs when running diagnose sys ha dump-by group after upgrading to 7.6.6
1286934	Authentication issues occur in FortiCloud SSO during HA failover due to serial mismatch
1292490	HA settings are lost when upgrading from 7.4.11 to 7.6.6 with an HA heartbeat interface configured with VRF 1

HyperScale

Bug ID	Description
1219541	Traffic disruption occurs when changing an interface's vdom
1223847	Excessive hyperscale logs occur when log-mode is set to per-mapping
1245165	ICMPv6 type 2 packets are dropped when SIP ALG and Hyperscale are activated

Bug ID	Description
1284721	BFD sessions drop when running diagnose firewall ippool list pba
1291520	DNS traffic drops occur when BGP to router 2 goes down

IPsec VPN

Bug ID	Description
1127782	Traffic is dropped by anti-spoof check when passing traffic through phase2 transport mode with GRE encap.
1157829	Timeout occurs when incorrect timeout is used for 2FA with FortiClient and RADIUS server authentication
1176036	DHGRP mismatch occurs when FortiGate pushes VPN config to FortiExtender for lan-extension
1200084	IPsec tunnel dec/enc counters fail to update when NPU offloading is enabled
1201212	Reply traffic is dropped when anti-spoof check fails
1209759	IKEv2 connection fails with "gw validation failed" error when the peer's ASN1DN ID contains multiple OU fields
1211532	Traffic drop occurs when anti-spoof check fails due to mismatched source IP and selector range in IPsec VPN
1213238	Authentication issues occur when syncing FortiIdentity Cloud users through LDAP for IPsec IKEv2 tunnel with EAP-TTLS
1215724	IPsec tunnel establishment fails when FIPS-CC mode is enabled and DH group 31 or 32 is used.
1217216	DHCP requests fail when FortiGate sends the full DN instead of the CN in Option 61 during IKEv2
1217988	ADVPN Dynamic BGP remains active after IPSEC disconnection when Bring Down -> Entire Tunnel is used on the parent tunnel.
1218530	Error condition occurs when using Duo Proxy LDAP application with MFA
1220562	Traffic is offloaded when IPsec tunnel is configured with interface set to VNE tunnel interface
1227222	IKEv1 transport mode issue occurs when FortiGate is behind a NAT device
1229448	IKEv2 peer selection fails when using AES256GCM-PRFSHAxxx encryption proposal.
1238778	Decrypt counters fail to update when NPU offload is enabled
1245740	MTU reduction occurs when using IPsec with GCM on 9xG and 12xG devices
1246635	IPsec tunnel disruption occurs when Phase-2 rekey completes with incorrect CHILD-SA deletion.

Bug ID	Description
1248524	File download fails when FortiGate encounters IPSec VPN with set encapsulation vpn-id-ipip and AV proxy and NAT-T
1249753	Old assigned IP address remains in routing table when tunnel is flushed or renegotiated on client side with mode-cfg enabled.
1252546	Negotiation timeout occurs when entering OTP within 120 seconds validity period
1257646	High CPU usage occurs when using IPsec over TCP and receiving an RST packet
1263848	IKEv2 CERTREQ matching failure occurs when FortiGate acts as a common VPN server for multiple vendors with multiple CA certificates.
1264833	SAML IPSEC VPN connection fails when connected to a WiFi network via Tunnel SSID
1278723	Traffic forwarding issues occur when MTU constraints are not properly configured for IPsec tunnels
1278940	Unexpected behavior occurs in the system when receiving IPsec VPN traffic with large ICMP packets and NPU offload enabled
1287274	Loopback-asymroute option is not configurable when transport is set to auto.

Intrusion Prevention

Bug ID	Description
1040242	When Inline IPS is enable and the videofilter profile has both channel and cateogry, youtube channel main page will not be blocked.
1156490	When inspection mode is proxy, inspect-all is enabled and http-policy-redirect is enabled, traffic is not sent to WAD for processing and consequently dropped
1168037	Error condition occurs in proxy mode when using inspect-all certificate-inspection in ssl-ssh-profile
1208885	DSCP 7 marking is not applied when Windows Update traffic is not application-identified in a VDOM.
1244350	MCDB update issues occur when FortiGate is configured with NGFW policy mode
1268468	UDP fragmentation bypasses IPS when NP is enabled in IPsec tunnel
1273729	Error condition in IPS occurs when handling high volumes of application traffic through FortiGate

Log and Report

Bug ID	Description
1116246	An error condition in locallogd occurs when the system enters memory conserve mode
1185876	Log daemon resolves server IP reliably when using dnsproxy daemon
1198455	When running ITS test occasionally the wrong link status reading is logged
1223900	Execution log failure occurs when sending test-connectivity from SSH
1225145	Error condition in miglogd occurs when the system is under heavy pressure or in memory conserve mode.
1226196	HTTP transaction log displays IP instead of URL when client disconnects before server response forwarding
1229712	Failed to get FAZ's status occurs when changing static route settings
1236184	An error condition in locallogd occurs when disk space is full on FortiGate.
1237774	Log field information loss occurs when the URL or Referrer header exceeds a certain character limit
1239708	Logs are not written to the disk queue when the memory queue reaches its limit.
1240481	IPS log-packet files are not cleaned up when retention time exceeds maximum-log-age
1241256	Failure to send OT information to FortiAnalyzer occurs when a large number of IoT/OT vulnerabilities are generated.
1253334	Intermittent disconnection of FortiAnalyzer from FortiGate caused by excessive TPM requests from httpsd.
1261240	Repeated DNS resolution attempts occur when related functionality is disabled on FortiGate
1265088	Syslog packets are sent when syslog-override is enabled
1266492	Secondary unit logs are not received by FortiAnalyzer Cloud when running FortiOS 7.4.9 and above in a FortiGate HA cluster
1269067	Synchronization fails when generating a large number of IoT/OT vulnerabilities
1272019	An error condition occurs in the GeoIP database during updates
1281143	IPS archive logging fails after firmware upgrade to v7.6.6 due to incorrect folder permissions. Affects only FortiGates which have been upgraded from a version earlier than 6.4.2.

Proxy

Bug ID	Description
1171499	Certificate chain is not sent during SSL inspection after upgrade.
1189141	An error condition in WAD occurs when handling large query responses.
1190329	Memory usage issues caused by insufficient resources during application processing
1213247	504 Gateway Timeout shown when a virtual-server configured in full mode connects to a HTTPS server that only supports TLS <= 1.2 and which also only supports using SHA1 for signatures
1224915	Intermittent page could not be reached issue occurs when authentication is required by QUIC
1230674	UTM profiles for SMTP(s)/POP3(s)/IMAP(s)/NNTP in proxy-mode policy on low-RAM models lack feature-set option.
1233324	High memory usage occurs when inline IPS is enabled with long-lived connections and IPS DB updates.
1247379	CPU usage issues observed during large HTTPS downloads
1255610	TLS active probe failure occurs when proxy inspection is enabled
1281435	SSL deep inspection is bypassed when Firewall Policy is configured with WAF and proxy-based inspection.
1286767	Certificate selection issue occurs when multiple certificates are defined in an SSL profile in replace mode

Routing

Bug ID	Description
1151848	IPv6 BGP flap occurs when FortiGate FGSP cluster connects to Dell Sonic
1162962	BGP service disruption occurs when the LAG interface flaps
1230742	VXLAN connectivity issues occur when configured with inter-VDOM IPsec underlay between two FortiGates.
1233456	OSPF6 route database loses routes when HA monitored interface flaps.
1243609	Route flapping occurs when external routes are redistributed into BGP
1244747	Traffic disruption occurs when using ISCSI boot volume after a reboot
1246350	Traffic does not honor vrf-select when using loopback interface IP as source-ip

Bug ID	Description
1246749	Traffic drop occurs when Verizon Dynamic Network Mobility Routing is configured with a GRE tunnel
1247150	BGP session ends when interface is down in non-zero VRF after hold down timer expires
1247172	BGP sessions remain down when using VRF option due to invalid BGP Identifier
1251244	OSPFv6 neighborship failure occurs when FortiGate is upgraded to FortiOS 7.6.5
1269208	BGP routes disappear from the FIB when pre-encapsulation is enabled on VPN Phase1.
1272281	VRRP failure occurs when using hardware-switch on FortiGate
1273467	Return traffic is not forwarded out of port15 when receiving GRE traffic via port15.
1279315	Error condition in BGP process occurs when FIM failover sequence happens

SD-WAN

Bug ID	Description
1051429	Dynamic BGP session remains on initial shortcut even when out of SLA.
1138635	Speed-test failure occurs when using ECMP routing configuration from Hub to Spoke.
1176538	Traffic between spokes occurs when shortcut is out of SLA or dead with load balancing enabled and fib-best-match tie-break.
1179004	Speed test failures occur when running multiple tests concurrently on BGP over loopback designs
1199707	SIP traffic issue occurs when TCP syn-ack packets use a different egress interface than the syn packets.
1203173	SD-WAN member fails to return to active state after PPPoE interface instability
1203917	SD-WAN interface status becomes Unknown when Health Check SLA is good
1205633	BGP on loopback uses the unstable 4G link instead of the primary fibre tunnel when establishing its TCP session.
1234194	Non-participant members appear in latency and packet loss columns when viewing the performance SLA page
1239537	Speedtest failure occurs when total latency exceeds 800ms between HUB and Spoke.
1252011	WAN outage occurs when upgrading FortiGate from 7.6.1 to 7.6.3 or 7.6.5 with SD-WAN and IPsec over VNE WAN links
1254899	Unhealthy out-of-SLA BGP community is sent unexpectedly after HA switchover when all members are in-sla
1279456	Link-Monitor instability occurs when a dead monitor uses the same ICMP ID as a working monitor.

Security Fabric

Bug ID	Description
1076439	Security fabric Asset Identity Center shows "Failed to load user device store data"
1225433	Automation Stitch variable truncation occurs when using json-c version 0.18 with webhook actions
1228317	Local-in policy creation issue occurs when Security fabric is enabled on non-NPU VDOM links
1239953	Automation stitches fail to execute when FortiAnalyzer sends a security-event notification
1244300	Automation cli-script action runs in memory when triggered by automation.
1254426	Email notification failure occurs when HA failover happens in downstream FortiGate
1267107	Memory usage issues caused by Security Rating running full reports
1275814	Loss of connectivity occurs when AKS cluster provisioning state is not Succeeded

Switch Controller

Bug ID	Description
947247	Wired clients are not displayed in physical topology when connected to FortiSwitch.
1183725	Outage occurs when modifying LLDP profile on multiple ports including FortiLink trunk ports
1195908	Virtual VLAN switch forwarding issues occur when STP is enabled in HA setups with multiple members on FortiGate-600F.
1216623	High CPU usage occurs when Fortilink IoT triggers packet capture in switch
1220590	Intermittent connectivity loss occurs in FortiSwitches when upgrading FortiGate to v7.6.4
1221779	Device data is missing when querying FortiGate API on FortiOS v7.4
1227202	FortiSwitch configuration is erased when switch-controller fails to add port1 during reboot
1229555	Incorrect VLAN assignment occurs when NAC policies use hostname filters with NetBIOS Name Service group names.
1232304	FortiSwitches go offline when upgrading FortiGate from 7.2.10 to 7.4.x
1238312	VLANs from other VDOMs are not added to the port when allowed-vlans-all is enabled.
1239300	Incorrect port information is displayed when running diag switch-controller switch-info port-stats command
1239751	FortiSwitches go offline when upgrading FortiGate from 7.2.10 to 7.4.x

Bug ID	Description
1244391	Empty PORTID occurs when FortiGate switch-controller is connected to FortiSwitch stacking setup
1249243	Ports fail to work when configured with the same settings as other working ports after VLAN reconfiguration in a FortiGate HA A-P cluster.
1269920	Firmware download fails when one firewall attempts to download FortiSwitch firmware from FortiGuard
1269995	An error condition in fltund occurs during upgrade to 7.6.6
1275793	Authorization issues occur with FortiExtender on FortiGate 201G with version 7.6.6
1290022	Device information fails to load when FortiSwitch has a duplicate prefix name

System

Bug ID	Description
1083626	FortiGate 90G/91G auto-negotiate support for shared SFP ports.
1107623	A warning occurs during disk scan when executing a factory reset
1113064	Memory usage issues caused by running simulator stress test on FortiGate
1116876	VDSL connection failure occurs when configured on FortiGate 50G-DSL
1137047	An error condition occurs when entering FIPS-CC mode
1144387	FortiGate 50G DSL fails to acquire an IP address from a DSL modem
1149006	DHCP lease delivery issues occur when auto-discovery-receiver is enabled and IPsec tunnels are flapping
1157402	Modem disconnects occur when using Verizon SIM with a strong signal
1165059	Unexpected behavior in system occurs when executing factory reset on FortiGate-70F
1165706	SSH and Web CLI sessions are disconnected when generating a TAC Report.
1167271	Link LEDs on FortiGate 401F are lit when no cables are attached.
1169167	VDOM link interfaces are not visible when single-vdom-npuvlink is enabled on non-NP7 platforms
1170716	Failed attachment to tower occurs when using custom APN with FortiGate 50G-5G modem
1170933	MTU inconsistency occurs when creating a new LACP interface without a member interface and then adding a member interface later.
1179827	Hardware switch configuration limitations occur when adding Wan1 and Wan2 on FortiGate

Bug ID	Description
1183678	QSFP-28-CWDM4 transceivers in ports 33 and 34 of FortiGate 2600F show as down after upgrading to 7.6.3
1188182	DHCP server failure to deliver IP addresses occurs when auto-discovery-receiver is enabled and IPsec tunnels are flapping.
1188905	Unresponsiveness occurs when MTU calculation is incorrect in function np_fragment
1190267	An error condition in search_core_tag occurs when rebooting FortiGate-3960E with B3589
1191833	Inaccurate LAN and WAN speed values occur when running the hardware NIC-led test.

1192303	On FortiGates with NP7 processors, the following new option is available to enable or disable VLAN accounting:
	`config system npu`
	`  set vlan-accounting {disable | enable}`
	`end`
	
	`VLAN accounting is enabled by default.`
	
	`VLAN accounting on a busy FortiGate with a large number of VLANs can generate large numbers of VLAN lookup (SPV/TPV) messages. In some cases these messages can cause CG-FULL conditions or packet drops, especially on very busy systems.`
	
	`You can use the following command to reduce the number of VLAN accounting massages that are generated by`
	`increasing the VLAN accounting interval.`
	
	`config system npu`
	`  set vlan-acct-interval <milliseconds>`
	`end`
	The default VLAN accounting interval is 200 milliseconds. The range is 100 to 10000 milliseconds.

Bug ID	Description
1197529	Unable to free memory local user authentication until fnbamd restarted
1198350	MTU inconsistency occurs when using redundant interface with Jumbo MTU
1198772	High CPU usage issues observed during GTP traffic handling on multiple slave FPMs
1200220	Intermittent disconnection of FortiAnalyzer from FortiGate caused by excessive TPM requests from httpsd.
1209720	LAN 1, 2, 3, and A speed LED issues occur during NIC-led test step 3.
1209793	Interface configuration is lost when FortiManager managed FortiGate reboots after a power cycle or unexpected shutdown
1214384	Unexpected behavior in FortiGate occurs when processing IPv6 traffic with invalid destination entries.
1214950	Batch mode configuration of system admin is allowed without specifying admin credentials
1215120	BLE light blinks blue when FortiGate is set up with FortiZTP without CLI login
1215780	Connection failure occurs when using a custom APN
1216658	Packet drop occurs when traffic is initiated from the Internet to devices connected to the EMAC VLAN interface
1217130	VDOM removal occurs from dia sys vd list output when rebooting FortiGate with dedicated-mgmt enabled
1217722	CPU usage issues observed when dedicated-management-cpu is enabled on np6 platform
1217924	Packet size issues occur when 802.1AD interface is based on a LACP interface with MTU set to 9216.
1220898	FortiGate becomes unresponsive when adding more than three 802.1ad interfaces
1221196	Optical port speed issues occur when connecting to Ericsson or Nokia radio nodes on FortiGate 90G/91G.
1221738	Returning packet is not forwarded via the expected LACP interface when set algorithm L3
1221994	CPU usage issues observed during TX direction port mirroring
1223295	MTU override size inconsistency occurs when changing mtu on aggregate interface with emac-vlan
1228420	PCI device check fails when BIOS version is 07000203
1228807	Some secret keys are not updated after a config change even when Private-Data-Encryption is enabled
1228992	Memory usage issues caused by exceeding device memory quota
1229804	Unexpected behavior occurs in the system when handling ICMPv6 host unreachable error messages after IPv6 neighbor entry expires

Bug ID	Description
1231510	IP address assignment issues occur on DSL interfaces configured with static IP after reboot or at irregular intervals
1232383	Unexpected behavior in the kernel occurs when running stressful multicast traffic through VXLAN in switch interface
1235359	Slowness occurs when renaming address objects
1238186	Error condition occurs when BGP neighbors are configured and IPv6 DHCP Client is enabled on WAN interface
1238339	Dedicated host queues occur when critical traffic like BFD, BGP, LACP is processed
1238520	Registration bypass option is available during the 7-day setup period
1239336	Central management configuration issues occur when using FortiGate GUI for Forticare registration
1244037	Limited speed options occur on 1G RJ45 ports of FortiGate 200F and 201F.
1244259	Console becomes unresponsive due to being overwhelmed by excessive logging when cpu stalls occur.
1246081	Memory usage issues caused by running v4/v6 routing protocols
1246315	An error condition in snmpd occurs when querying fgLicVersion
1246914	Unexpected behavior in the kernel occurs when forwarding ICMP error messages from NAF devices
1248631	Intermittent reboot issues occur in FortiWiFi-50G when WiFi clients connect via RADIUS or ax bands
1249410	Incomplete data erasure occurs on FortiGate-60F when executing erase-disk SYSTEM command
1251011	FOS signature verification failure occurs when burning image on FGT-30G and FGT-31G.
1254396	BLE LED continuously blinks Light Blue when using FortiZTP setup without CLI login
1254702	Unexpected behavior in the kernel occurs when handling IPv6 neighbor traffic within a subnet
1255091	Bluetooth remains active when configured with FortiZTP without CLI login
1255825	Conserve mode may occur when running full Security Rating report devices that have hundreds of extension devices (such as FortiAPs).
1255973	CPU usage issues observed during GUI session queries
1256212	An error condition in cmdbsvr occurs when FIPS-CC mode is enabled on FortiGate-60F
1257265	An error condition in SNMP occurs when querying fgVWLHealthCheckLinkTable on FortiOS 7.6.4
1259458	Intermittent reboot of FortiGate-71G caused by an error condition in the IPS engine.

Bug ID	Description
1261088	An error condition in the connection daemon occurs when configuring a broadcast IP address on a FortiGate interface via CLI
1263001	IPsec dial-up instability occurs over WWAN interface on FortiGate 51G after upgrading from 7.4.9 to 7.4.11
1264495	Throughput drops to 0 during netperf testing on FGT200G and FGT201G caused by 1G SFP autoneg enabled.
1264805	Unexpected behavior in the system occurs when upgrading to 7.4.9
1265180	Memory usage issues caused by logging on FortiCarrier-4400F
1266447	Inconsistent values occur when querying SNMP OID 'fg5gMdmOpMode'
1267113	LLDP advertised Sysname truncation occurs when a local domain is configured
1267635	An error condition occurs in the system during disk scan execution
1268947	High CPU usage occurs when creating or editing a VLAN interface via the web UI
1271792	Failover to secondary IP does not occur when primary Fgfm connection is down
1275296	No reply occurs when EMAC-VLAN receives ICMP requests on FortiGate 601E
1276029	Creating a virtual wire pair on bypass models results in a memory leak
1276129	Unexpected behavior in WAD procmgr occurs when mounting chroot jails on FortiOS 7.6.6
1280597	DHCP scope subnet mismatch occurs when default management IP is 192.168.2.99 after factory reset

Upgrade

Bug ID	Description
1135049	After a FortiOS upgrade, an error condition occurs when update daemon tries to update the databases while CMDB is still loading the JSON file at the same time.
1155333	FGT/FWF-3XG upgrade fails with error "inflate failed: round 1, err -3" when memory usage is high
1193036	Inconsistency occurs when auto-firmware-upgrade-start-hour default value is checked
1243233	Configuration load failure occurs when upgrading to 7.6.5 through FortiManager
1250292	From a FGT-121G, upgrading a fabric device FSW-T1024E fails
1252663	On FortiGate D-series devices running older BIOS versions, the serial number changes to FGT0000000000001 after upgrading to FortiOS 7.4.10,7.4.11,7.6.5,7.6.6.

Bug ID	Description
1256067	Required automatic upgrade may not complete successfully when device is unlicensed or end-of-support.
1283092	Upgrade failure occurs when Private Data Encryption is enabled

User and Authentication

Bug ID	Description
1148209	Auto-enrolment for EC certificate using SCEP fails when reading inner PKCS#7
1169349	Assignment of FortiToken through FortiManager fails when FortiGate is configured.
1177519	Login failure occurs when attempting to access admin user without a username query parameter
1204356	Fortinet_CA2 is missing when loaded with new CA2 supported BIOS
1211983	Certificate chain issues occur when firewall encounters a certificate renewal issue while using EST simplereenroll process
1212700	Authentication failure occurs when system zone name conflicts with VDOM name
1214438	Failover to secondary Tacacs+ server occurs when primary server is unreachable.
1215197	An error condition in fnbamd occurs when downloading intermediate CAs through multiple AIA links
1217617	Login failure occurs when a trusted host is set for the admin after upgrading FortiGate to version 7.4.9
1218458	Hardware token activation fails when CMDB write permission is enforced.
1227685	An error condition in fnbamd occurs when FortiGate attempts to download intermediate CAs through multiple AIA links
1228793	Certificate auto-enrollment via CMPv2 fails when using an intermediate CA cert after upgrading
1233862	Certificate renewal through EST protocol fails when DNS lookup fails
1236839	An error condition in fnbamd occurs when referencing two peer users during certificate authentication
1237504	An error condition in fnbamd occurs when processing DNS responses with multiple IP addresses
1239951	Hardtoken activation fails when CMDB write permission is enforced
1243758	SCEP enrollment fails when sending GetCACaps request without CA name mark due to server error
1244268	Fnbamd error when downloading intermediate CAs through multiple AIA links

Bug ID	Description
1246613	Radius CoA disconnection fails when sending a CoA Disconnect Request with a Calling-Station-Id on FortiOS 7.6
1247109	Authentication issues occur when editing a vdom CA certificate with VDOM enabled
1251941	An error condition occurs in EAB when entering an HMAC value with a 66-byte key.
1252114	Tokens cannot be found when using a drift screen size of 1
1253914	TACACS+ accounting logs are not generated when setting up a connection to the Tacacs+Accounting server with per VDOM interfaces configured.
1259154	Authentication failure occurs when certificate rotation happens on Standalone HA primary FortiGate
1263865	Connection failure occurs when maximum session limit is reached with EAP enabled in IKE config and TFA for users.
1266066	Authentication failure occurs when using FortiToken for two-factor authentication after upgrading from FortiOS 7.6.4 to 7.6.5

VM

Bug ID	Description
1041341	Error condition occurs when using vlink0 with HTTPS on FGT-VM-AZURE
1102434	Configuring VRF on hbdev will cause FortiGate VM HA not Syncing
1217942	FQDN synchronization issues occur when the primary's timeout value on the secondary is not refreshed in a timely manner.
1218373	Auto-scale failure occurs when creating FGT-AWS auto scale group with AWS CloudFormation
1223933	Loss of VWP configuration occurs when rebooting with unreferenced member interfaces
1228324	Azure SDN connector fails to update new subscriptions until restarted.
1239551	Image publishing issue occurs when signing shim bootloader with Fortinet CA on Azure
1245936	FGT-VM failed to validate vm license from FortiManager with ipv6 address
1260183	License validation occurs when FortiGate is connected to FortiManager in an air-gapped AWS environment
1261051	Boot failure occurs when Trusted Launch is enabled
1269889	Dynamic objects are removed when FortiGate encounters a 503 Service Unavailable from Google Cloud Platform.
1272991	Boot up failure occurs when confidential VM is enabled

Bug ID	Description
1274229	Unexpected behavior occurs when sending UDP packets with a total frame length of 1536 bytes.
1274753	License status warning occurs when secondary FortiGate validates VM License after upgrading to v7.4.11 or v7.4.10
1278705	Firewall policy sync fails when system auto-scale is enabled on AWS instance type c5n.xlarge

VoIP

Bug ID	Description
1227757	Unexpected RTP stream closure occurs when provisional-invite-expiry-time is reached

Wan Optimization

Bug ID	Description
1252420	An error condition in WAD occurs when ignore-pnc is enabled for webcache and a HTTPS request is sent with a Pragma: no-cache header.

Web Filter

Bug ID	Description
1166666	Domain fronting block occurs when sending traffic with upper case domain name over HTTP 1.1
1227049	YouTube channel main page cannot be blocked by channel filter when proxy-inline-ips is enabled
1230414	Improvements to resolve memory usage issues when logical-sn is enabled
1232698	Antiphish fails to block usernames with '.' character when enabled.
1254458	Authentication page is not displayed when webfilter category is set to authentication action
1261505	Video Filter fails to effectively block videos after YouTube updated its API.
1268027	Video blocking issues occur when accessing YouTube from the main page with channel filters

WiFi Controller

Bug ID	Description
1105433	Running 'diag wireless wlac show all' during debugging causes unexpected AP disconnections in large-scale FAP deployments.
1112629	FAP offline and online again 30 seconds later after FortiGate HA failover
1158619	6GHz channels 1 to 93 are not available when AP-Country is set to Hungary
1192905	Wireless-controller using direct RADIUS does not honour vrf-select and source-ip settings, resulting in incorrect VRF handling during authentication.
1213368	AP information is missing from forward traffic logs (of captive-portal SSID)
1217779	An error condition in cw_acd occurs when dedicated-mgmt is enabled
1218025	Radius COA functionality does not work as intended when using an FQDN radius server with WiFi 802.1x authentication.
1219415	Connection failures may occur when WiFi clients authenticate using 802.1X and multiple IP addresses are resolved for the RADIUS server FQDN.
1221283	Clients unexpectedly keep moving between FAPs after frequency handoff from 5G to 2.4G due to obsolete BTSM request
1227978	Wi-Fi clients cannot maintain previous IP addresses after roaming from one FAP to another in the inter-controller layer-3 roaming topology.
1230455	SSID loss occurs on FortiGate models when DARRP channel optimization fails.
1232763	WiFi clients experience initial connectivty and packet-loss during roaming only on WPA2-Enterprise SSID with External RADIUS
1240269	The virtual MAC address of Tunnel VAP interfaces changes unexpectedly after FortiGate HA failover or reboot when adding a wireless-controller.vap with quarantine disabled.
1243404	Roaming fails when 802.11r is enabled on WPA2-Enterprise with invalid PMKID
1243456	FT reassociation fails when 802.11r is enabled on WPA2-Enterprise
1254074	Duplicate Reassociation Responses were sent to same Wi-Fi client roaming between two FortiAP units
1256821	The class attribute fails to restore when a Wi-Fi client roams between FortiGate access points using 802.11r.
1257588	WiFi clients experience random disconnections on WPA3-Enterprise SSID with External RADIUS

ZTNA

Bug ID	Description
987129	Access denied occurs when favicon.ico is sent by browser during ZTNA SSH session with SAML auth
1229620	Redirect failures occur when VIP ports do not match real server ports
1240300	An error condition in WAD occurs when using ZTNA Web Portal and SSH bookmarks with specific authentication settings.
1253873	SNAT failure occurs when ZTNA access-proxy policy uses IP pool
1254981	Error condition in WAD occurs when ZTNA proxy with SAML authentication for RDP is used without daily restarts.
1257675	Connection error when didn't set sso and didn't set username and password for VNC bookmark when connecting to UltraVNC server
1272422	File uploads to SMB servers are not working in the ZTNA Web Portal because of a javascript error
1278235	Incorrect keyboard layout occurs when using ZTNA web portal

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

Currently no new issues have been reported in 7.6.7.

HyperScale

Bug ID	Description
1285581	Performance drop occurs when running TCP CPS PBA log and NAT with overload on FortiGate 4401F

System

Bug ID	Description
1271259	Transceiver issue occurs when using FR-1 QSFP 100G with FortiGate **Workaround**: Set mediatype to LR4 and disable forward-error-correction when speed is 100Gfull

Existing known issues

The following issues have been identified in a previous version of FortiOS and remain in FortiOS 7.6.7.

Agentless VPN

Bug ID	Description
1173772	Unable to connect to SMB over SSLVPN web mode in FIPS-CC mode

Endpoint Control

Bug ID	Description
1019658	On FortiGate, not all registered endpoint EMS tags are displayed in the GUI.
1038004	FortiGate may not display the correct user information for some FortiClient instances.

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.
990528	When searching for an IP address on the Firewall Policy page, the search/filter functionality does not return the expected results.

FortiGate 6000/7000 Platform

Bug ID	Description
653335	SSLVPN user status does not display on the FortiManager GUI.
835847	password policy was not correctly updated when using automation stitch
936320	When there is a heavy traffic load, there are no results displayed on any FortiView pages in the GUI.
950983	Feature Visibility options are visible in the GUI on a mgmt-vdom.
994241	On FortiGate 7000F using FGSP and FGCP, when TCP traffic takes an asymmetric path, the TCP ACK and data packets might be dropped in NP7.
1006759	After an HA failover, there is no IPsec route in the kernel. **Workaround**: Bring down and bring up the tunnel
1102072	On the FortiGate 7000 platform, cmdbsvr CPU usage can be higher than normal for extended periods on one or more FPM.

Bug ID	Description
1112582	Under some conditions, such as during conserve mode, you may not be able to log into the FortiGate 6000 management board GUI or CLI or when you log into the management board console a message similar to fork failed() continuously repeats.
1130491	Traffic disruption occurs when WCCP is enabled on FortiGate **Workaround**: Direct all related traffic to master FPC
1132294	7KF/v7.6.3/b3490: ip nat port-preserve feature is not working when client's source port doesn't fall under FPM's nat port-range
1162187	7KF/b3617, FortiAP retains the same image after the upgrade
1171183	7KF-1/B3563: The Global Traffic widget do not loading after factory reset due to legacy auth disabled by default.
1185869	7000F image build3583 (v7.6.4) Multicast traffic testing was not working.

FortiView

Bug ID	Description
1034148	The Application Bandwidth widget on the Dashboard > Status page does not display some external applications bandwidth data.

GUI

Bug ID	Description
1237136	Dynamic VLANs are not visible on the GUI when a port-security-policy is applied

HA

Bug ID	Description
1135376	When HA members are not registered under the same FortiCare account, the HA cluster cannot obtain contract info of all members from FortiGuard servers.

HyperScale

Bug ID	Description
1030907	With a FGSP and FGCP setup, sessions do not show on the HA secondary when the FGSP peer is in HA.
1042011	Observed 'NPD-0 :DEL PRP FAIL! 0xffffffff; NPD-0 :PRP ADD FAIL! 0xffffffff nat_ type=00000044 block_sz=128 port_base=11000'
1130107	4401f:Session-helper dns session is created by hw and can be seen in log2host table
1151441	4801F-HA) "ha1/ha2" port as hw-session-sync-dev shows out-of-sync even though it is connected to NP7
1262881	Hw session sync dev goes out of sync due to the discrepancy in lag driver between primary and secondary

IPsec VPN

Bug ID	Description
1131269	UESP packet drop occurs when VPN peer uses different source ports for IKE-NATT and UESP **Workaround**: Add a flow rule to work around the issue

Intrusion Prevention

Bug ID	Description
1076213	FortiGate with 4G memory might enter conserve mode during FortiGuard update when IPS or APP control is enabled. **Workaround**: Disable option 'proxy-inline-ips' under 'config ips settings'.
1093769	Unexpected IPS UTM logs may be generated in NGFW policy mode for unknown applications.

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
938349	Unsuccessful API user login attempts do not get reset within the time specified in admin-lockout-threshold.
993345	The router API does not include all ECMP routes for SD-WAN included in the get router info routing-table command.

Security Fabric

Bug ID	Description
1040058	The Security Rating topology and results does not display non-FortiGate devices.

Switch Controller

Bug ID	Description
1113304	FortiSwitch are offline after FortiGate upgraded from v7.4.6 or v7.6.0 to v7.6.1 or later when LLDP configuration set to vdom/disable under FortiLink interface. **Workaround**: Add LLDP configuration lldp-reception, lldp-transmission to enable under FortiLink interface, or rebuild FortiLink interface.

System

Bug ID	Description
1041726	Traffic flow speed is reduced or interrupted when the traffic shaper is enabled.
1142465	ARP entries age out quickly after a system reboot, despite a long reachable-time setting
1179259	TCP traffic is impacted over VXLAN when auto-asic-offload and UTM both enabled under the policy. **Workaround**: Disable auto-asic-offload on the impacted policy
1193085	Proxy-arp configuration failure occurs when the proxy-arp address group exceeds 256 entries **Workaround**: Divide the subnet into multiple proxy-arp entries less than 256
1227167	Memory usage issues caused by the node process **Workaround**: Enable web-svc-auto-restart by running the command: `config system global`

Bug ID	Description
	set web-svc-auto-restart enable end

User and Authentication

Bug ID	Description
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.
1157003	Agentless FSSO connector issues occur when using Windows 2025 due to MS introduced additional restrictions to remote Event log reading.

VM

Bug ID	Description
1125805	Unable to access the FortiGate VM web interface deployed on AWS when ACME is enabled.

Web Filter

Bug ID	Description
1040147	Options set in ftgd-wf cannot be undone for a web filter configuration.

Built-in AV Engine

AV Engine 7.00054 is released as the built-in AV Engine.

Built-in IPS Engine

IPS Engine 7.01187 is released as the built-in IPS Engine.

Resolved engine issues

Bug ID	Description
983372	An error condition in IPS engine occurs when accessing safebrowsing.google.com.
1077638	In NGFW policy mode, FortiGate may incorrectly block packets from established TCP sessions if no matching IPS session exists.
1091118	Oversized packets exceeding the MTU cause delayed ACKs, leading to unintended behavior.
1096297	Timeout occurs when web filter is enabled and fragments occur.
1129130	Intermittent traffic disruption occurs when FortiGate is in NGFW mode, and it encounters traffic that is legitimate but does not create a session.
1152384	CPU usage issues observed during intense IPS packet scanning.
1156490	When inspection mode is proxy, inspect-all is enabled, and http-policy-redirect is enabled, traffic is not sent to WAD for processing and is consequently dropped.
1168037	Error condition occurs in proxy mode when using inspect-all certificate-inspection in ssl-ssh-profile.
1170304	Websites load slowly when NPU offloading is enabled in firewall policy, and the packet length is bigger than the MSS due to many fragmentation-needed packets.
1182461	High memory usage occurs when multiple HTTP2 connections with many open streams are present.
1190620	IPS engine crash
1191598	High CPU usage occurs when HTTP2 connections have a large number of open streams.
1193876	Memory usage issues caused by improper closure of HTTP2 streams.
1197659	An error condition in IPS engine occurs when processing HTTP traffic.
1205450	SSL/TLS errors and latency occur when using local threat feed URL category in NGFW policy mode
1205692	FTP traffic is blocked when application control is enabled over SOC5.
1210836	Conserve mode occurs when IPS engine memory usage increases due to gradual increase in AnonPages.

Bug ID	Description
1212296	Package download failure occurs when IPS profile is enabled.
1217478	Incomplete IEC 60870-5-104 detection occurs when IPS session is cleared.
1219051	MSI files are not blocked when downloaded in flow mode.
1229928	Traffic is not blocked as expected when DNS response returns NXDOMAIN in flow-based mode.
1229941	Webfilter logs are not generated correctly when FortiGate is in NGFW mode with policy-based configuration.
1239080	Abnormal traffic log behavior occurs when FortiGate is running in sniffer mode with ips-sniffer-mode enabled.
1241179	Video downloads using Wondershare UniConverter stall or stop mid-process when FortiGate's web filter encounters out-of-order packets during transfer.
1249177	High CPU usage occurs when IPS engine scans SMB traffic.
1252636	An error condition in IPS engine occurs when upgrading to v7.6.6.
1253472	Unexpected behavior observed in the IPS engine during HTTP header processing involving buffer edit cases on FortiGate models.
1259235	An error condition in IPS engine occurs during upgrade to 7.4.11.
1260248	Protocol Enforcement fails to block DNS over TCP traffic when non-DNS TCP traffic uses port 53.
1263949	An error condition in IPS engine occurs when switching packet layer modes.
1269354	An error condition in IPS engine occurs when handling unusual TLS 1.3 stacks.

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.

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