



Next Generation Firewall

6.8.10

Release Notes

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About this release

This document contains important information about this release of Forcepoint Next Generation Firewall (Forcepoint NGFW). We strongly recommend that you read the entire document.

Lifecycle model

This release of Forcepoint NGFW is a Long-Term Support (LTS) version.

We recommend using the most recent Long-Term Support (LTS) version if you do not need any features from a later Feature Stream version.

For more information about the Forcepoint NGFW lifecycle policy, see <https://support.forcepoint.com/ProductSupportLifeCycle>.

System requirements

To use this product, your system must meet these basic hardware and software requirements.



CAUTION

To protect the privacy of your data, we recommend using dedicated hardware for all NGFW, SMC, and SMC Appliance installations. For cloud-based virtualization platforms, use an instance type that runs on dedicated hardware. For on-premises virtualization platforms, install the NGFW Engines, SMC components, or SMC Appliance on a hypervisor that does not host any other virtual machines. For third-party hardware, do not install any other software on the computer where you install the NGFW Engines or SMC components.

Forcepoint NGFW appliances

We strongly recommend using a pre-installed Forcepoint NGFW appliance for Forcepoint NGFW installations.



Note

Some features are not available for all appliance models. See Knowledge Base article [9743](#) for appliance-specific software compatibility information.

The majority of the following supported appliances can be used in the Firewall/VPN, IPS, or Layer 2 Firewall role.

- 50 Series (51 and 51 LTE)
- 100 Series (110 and 115) (*Firewall/VPN role only*)
- 120W
- 320 Series (321 and 325)
- 330 Series (330, 331, and 335)
- 1000 Series (1035 and 1065)
- 1100 Series (1101 and 1105)
- 1400 Series (1401 and 1402)
- 2100 Series (2101 and 2105)
- 3207
- 3300 Series (3301 and 3305)
- 3400 Series (3401, 3405, and 3410)
- 5206
- 6205




Note

To use the Forcepoint NGFW Manager, we recommend that you use a Forcepoint NGFW appliance that has at least 4GB of memory.

Basic hardware requirements

You can install Forcepoint NGFW on standard hardware with these basic requirements.

| Component | Requirement |
|-------------|--|
| CPU | Intel® Pentium D series 2 core or higher |
| Memory | 4 GB RAM |
| Hard disk | 8GB  Note RAID controllers are not supported. |
| Peripherals | <ul style="list-style-type: none"> ■ DVD drive ■ VGA-compatible display ■ Keyboard |
| Interfaces | <ul style="list-style-type: none"> ■ One or more network interfaces for the Firewall/VPN role ■ Two or more network interfaces for the IPS in IDS configuration ■ Three or more network interfaces for inline IPS engine or Layer 2 Firewall For information about supported Ethernet interface types and adapters, see Knowledge Base article 9721 . |

Master NGFW Engine requirements

Master NGFW Engines have specific hardware requirements.

- Each Master NGFW Engine must run on a separate physical device. For more details, see the *Forcepoint Next Generation Firewall Installation Guide*.
- All Virtual NGFW Engines hosted by a Master NGFW Engine or Master NGFW Engine cluster must have the same role and the same Failure Mode (*fail-open* or *fail-close*).
- Master NGFW Engines can allocate VLANs or interfaces to Virtual NGFW Engines. If the Failure Mode of the Virtual IPS engines or Virtual Layer 2 Firewalls is *Normal* (fail-close) and you want to allocate VLANs to several NGFW Engines, you must use the Master NGFW Engine cluster in standby mode.
- Cabling requirements for Master NGFW Engine clusters that host Virtual IPS engines or Layer 2 Firewalls:
 - Failure Mode *Bypass* (fail-open) requires IPS serial cluster cabling.
 - Failure Mode *Normal* (fail-close) requires Layer 2 Firewall cluster cabling.

For more information about cabling, see the *Forcepoint Next Generation Firewall Installation Guide*.

Virtual appliance node requirements

You can install Forcepoint NGFW on virtual appliances with these hardware requirements. Also be aware of some limitations.

| Component | Requirement |
|--------------------|---|
| CPU | Intel® Pentium D series 2 core or higher |
| Memory | 4 GB RAM |
| Virtual disk space | 8 GB |
| Hypervisor | One of the following: <ul style="list-style-type: none"> VMware ESXi 6.5 or 6.7 KVM with Red Hat Enterprise Linux 7.8 or 8.1 (Firewall/VPN role only) Microsoft Hyper-V on Windows Server 2012 R2 or Windows Server 2016 with an Intel 64-bit processor |
| Interfaces | <ul style="list-style-type: none"> At least one virtual network interface for the Firewall/VPN role Three virtual network interfaces for IPS or Layer 2 Firewall roles <p>The following network interface card drivers are recommended:</p> <ul style="list-style-type: none"> VMware ESXi platform — <code>vmxnet3</code>. KVM platform — <code>virtio_net</code>. |

When Forcepoint NGFW is run as a virtual appliance node in the Firewall/VPN role, these limitations apply:

- Only Packet Dispatching CVI mode is supported.
- Only standby clustering mode is supported.
- Heartbeat requires a dedicated non-VLAN-tagged interface.

When Forcepoint NGFW is run as a virtual appliance node in the IPS or Layer 2 Firewall role, clustering is not supported.

Supported cloud environments

You can deploy Forcepoint NGFW in the Amazon Web Services (AWS) and Microsoft Azure cloud environments.

Amazon Web Services

Forcepoint NGFW instances can be launched from AWS using 1-Click Launch, and existing instances can be remotely upgraded to the latest Forcepoint NGFW version.

To see the currently available instance types, search for *Forcepoint NGFW* in the AWS Marketplace.

For more information about deploying in AWS, see the document *How to deploy Next Generation Firewall in the Amazon Web Services cloud* and Knowledge Base article [10156](#).

Microsoft Azure

Forcepoint NGFW instances can be launched from Azure using custom solution templates, and existing instances can be remotely upgraded to the latest Forcepoint NGFW version.

To see the currently available custom solution templates, search for *Forcepoint NGFW* in the Azure Marketplace.

For more information about deploying in Azure, see the document *How to deploy Next Generation Firewall in the Azure cloud* and Knowledge Base article [14485](#).

Build number and checksums

The build number for Forcepoint NGFW 6.8.10 is 24553.

Use the checksums to make sure that the installation files downloaded correctly.

- `sg_engine_6.8.10.24553_x86-64-small.iso`

```
SHA1SUM:  
21b7f622e65d889b82d77f755d0368a13a5d2a35  
  
SHA256SUM:  
0763a523a953e6bd3472c9604b1004ebb3a840051369af89687e852c3a3465d3  
  
SHA512SUM:  
b29d3366c56bc404ec3b491b8fa09f97  
4aa9f8b47de09f135dd661dc35393923  
283efd4073e4311b8c0f023224fe9a89  
4e1ff5930a3f175edbf5bdc94ccfc6a7
```

- `sg_engine_6.8.10.24553_x86-64-small.zip`

```
SHA1SUM:  
9ac09a50834f5cd13c4df323cefb44d19b776ff9  
  
SHA256SUM:  
fd34bea03aedb3419d014d3226e50df43fe13ea9f2dfe089d9d51d4a4aead7e1  
  
SHA512SUM:  
16d2d11bef2a9fbfcd2205ed70de857  
c277efe9d19916dc9d324780c0b3d382  
827c0ef8401111778a389548d82b0e54  
135c70dcc72d027c6db5cd29aad271b6
```

Compatibility

Forcepoint NGFW 6.8 is compatible with the following component versions.

- Forcepoint NGFW Security Management Center (SMC) 6.8 or higher
- Dynamic Update 1247 or higher
- Forcepoint VPN Client for Windows 6.6.0 or higher
- Stonesoft VPN Client for Windows 6.1.0 or higher
- Forcepoint VPN Client for Mac OS X 2.0.0 or higher
- Forcepoint VPN Client for Android 2.0.0 or higher
- Server Pool Monitoring Agent 4.0.0 or higher

- Forcepoint Endpoint Context Agent (ECA) 1.4.0 or higher
- Forcepoint Endpoint Context Agent (ECA) included in Forcepoint One Endpoint 19.05 or higher
- Forcepoint User ID Service 1.1.0 or higher

New features

This release of the product includes these new features. For more information and configuration instructions, see the *Forcepoint Next Generation Firewall Product Guide* and the *Forcepoint Next Generation Firewall Installation Guide*.

Easier configuration of dynamic link selection for NGFW Engines

It is now possible to select Link Usage Profile elements for NGFW Engines in the Firewall/VPN role to define which link types are preferred, avoided, or not used for specific types of outbound Multi-Link traffic. NGFW Engine-specific exceptions to the Link Usage Profile also allow you to specify which traffic uses specific NetLinks.

PPPoE support on VLAN interfaces

You can now configure point-to-point protocol over Ethernet (PPPoE) for dynamic IP addresses that are assigned to VLAN interfaces. Using PPPoE for dynamic IP addresses that are assigned to VLAN interfaces allows you to connect to an ISP line that uses 802.1q VLAN tagging without using a separate switch.

Re-authentication when using browser-based user authentication

If an end user has authenticated using browser-based user authentication and the session will soon expire, the user can re-authenticate to extend the authentication time-out and avoid connections closing before the user has finished their tasks.

Dynamic update packages in the NGFW Manager

You can now upload and activate dynamic update packages in the NGFW Manager. Dynamic update packages provide updates for NGFW Engines, especially for deep inspection features.

For example, new threat patterns and changes in the system Templates and Policies are introduced in dynamic updates for up-to-date detection. They can also revise the default elements you use to configure the system.

For more information, see the *Forcepoint NGFW Manager and VPN Broker Product Guide*.

Support for the NGFW Engine tester in the NGFW Manager

You can now use the NGFW Engine tester in the NGFW Manager. The NGFW Engine tester runs various checks on the NGFW Engine and initiates responses based on the success or failure of these tests.

For more information, see the *Forcepoint NGFW Manager and VPN Broker Product Guide*.

Enhancements

This release of the product includes these enhancements.

Enhancements in Forcepoint NGFW version 6.8.0

| Enhancement | Description |
|---|--|
| Custom script upload for NGFW Engines when using Custom Properties Profile elements | To upload custom scripts to the NGFW Engine, you can add the scripts to the properties of the NGFW Engine using a Custom Properties Profile element. The scripts are uploaded when the policy is installed or refreshed. |
| Expiration time for one-time passwords | You can now set the expiration time for one-time passwords that are generated when you save the initial configuration for an NGFW Engine. If the one-time password is not used, it automatically expires after the expiration time has elapsed. By default, one-time passwords expire after 30 days. |
| User domain support for integrated ICAP servers for DLP | NGFW integration with external ICAP servers for DLP now uses the WinNT schema in the X-Authenticated-Users header instead of the Local schema that was used previously. Using the WinNT schema allows matching users against a user domain in the user directory on the ICAP server. |
| Significant improvements in inspection performance | There are general improvements in how the NGFW Engines inspect traffic. Inspection performance has improved significantly, especially when application detection is enabled. |
| VPN broker member synchronization in VPN Broker high availability environment | When you use the VPN Broker in a high availability (HA) environment, the changes you make to the list of VPN Broker members are automatically synchronized with all the other VPN Broker gateways in the NGFW Manager. |
| ACPI shutdown support | Support for advanced configuration and power interface (ACPI) shutdown has been implemented. This feature allows graceful shutdown when terminating virtual instances in the Microsoft Azure and Amazon Web Services platforms. |

Enhancements in Forcepoint NGFW version 6.8.1

| Enhancement | Description |
|--------------------------|--|
| Improved VPN performance | VPN performance has been improved in environments where there is a high rate of new VPN connections. |

Enhancements in Forcepoint NGFW version 6.8.4

| Enhancement | Description |
|--|---|
| More memory usage details available using SNMP Agents for NGFW Engines | Two new counters for available memory are now reported in Forcepoint NGFW-specific SNMP MIBs. The new OIDs are fwMemBytesAvailable and fwMemBytesSReclaimable. To use the new counters, update the NGFW-specific SNMP MIB for your SNMP tools to the NGFW MIB 6.9 level. For more information, see Knowledge Base article 19210 . |

Enhancements in Forcepoint NGFW version 6.8.5

| Enhancement | Description |
|--|--|
| Detections of brute force attacks against NGFW user authentication | After you install dynamic update package 1303 or higher, you can use new Correlation Situation elements to detect and prevent brute force attacks against NGFW user authentication. For more information, see Knowledge Base article 19259 . |

Enhancements in Forcepoint NGFW version 6.8.6

| Enhancement | Description |
|---|--|
| Configuration of bidirectional forwarding detection using the Management Client | Forcepoint NGFW Engine previously supported the configuration of bidirectional forwarding detection (BFD) using command line tools on the NGFW Engine. You can now configure BFD using the Management Client. When you use the BGP protocol for dynamic routing, you can optionally use BFD to detect neighbor failures. The NGFW Engine sends packets at the specified interval and waits for a reply. If the NGFW Engine does not receive a reply within the specified length of time, the neighbor is considered to have failed. |
| TLS inspection for server protection allows TLS handshake downgrade | When you use TLS inspection for server protection without configuring client protection, the certificate authority (CA) can now downgrade unsupported cipher suites, extensions, or ALPN protocols for TLS. |
| Improved performance of interface driver for virtualization platforms | The performance of the vmxnet3 interface driver for virtualization platforms has been improved. |

Enhancements in Forcepoint NGFW version 6.8.10

| Enhancement | Description |
|-------------------------------|---|
| Automatic certificate renewal | Automatic certificate renewal lets NGFW Engine to resume communication with the Security Management Center (SMC), where Management Server IP has changed after the previous initial contact had been performed. |

Resolved and known issues

For a list of resolved and known issues in this product release, see Knowledge Base article [18382](#).

Known limitations

This release of the product includes these known limitations.

| Limitation | Description |
|--|---|
| Inspection in asymmetrically routed networks | In asymmetrically routed networks, using stream-modifying features such as TLS Inspection, URL filtering, and file filtering can make connections stall. |
| Inline Interface disconnect mode | The disconnect mode for Inline Interfaces is supported only on modular appliance models that have full-sized bypass interface modules (not mini modules). |

For information about feature-specific limitations, see the *Forcepoint Next Generation Firewall Product Guide*.

Installation instructions

Use these high-level steps to install the SMC and the Forcepoint NGFW Engines.

For detailed information, see the *Forcepoint Next Generation Firewall Installation Guide*. All guides are available for download at <https://support.forcepoint.com/Documentation>.

Steps

- 1) Install the Management Server, the Log Servers, and optionally the Web Portal Servers.
- 2) Import the licenses for all components.
You can generate licenses at <https://stonesoftlicenses.forcepoint.com>.
- 3) Configure the Firewall, IPS, or Layer 2 Firewall elements in the Management Client from the **Configuration** view.
- 4) To generate initial configurations, right-click each NGFW Engine, then select **Configuration > Save Initial Configuration**.
Make a note of the one-time password.
- 5) Make the initial connection from the NGFW Engines to the Management Server, then enter the one-time password.
- 6) Create and upload a policy on the NGFW Engines in the Management Client.

Upgrade instructions

Take the following into consideration before upgrading licenses, NGFW Engines, and clusters.



Note

Upgrading to version 6.8 is only supported from version 6.5 or higher. If you have a lower version, first upgrade to version 6.5.



Note

If you use safe search features in NGFW 6.6 or lower, you must refresh the policy on the NGFW Engine cluster after all the members of the cluster have been upgraded to NGFW 6.7 or higher. Otherwise, safe search might not work correctly after the upgrade.

- Forcepoint NGFW version 6.8 requires an updated license. The license upgrade can be requested at <https://stonesoftlicenses.forcepoint.com>. Install the new license using the Management Client before upgrading the software. If communication between the SMC and the license server is enabled and the maintenance contract is valid, the license is updated automatically.
- To upgrade the NGFW Engine, use the remote upgrade feature or reboot from the installation DVD and follow the instructions. For detailed instructions, see the *Forcepoint Next Generation Firewall Installation Guide*.

Find product documentation

In the Forcepoint Customer Hub, you can find information about a released product, including product documentation, technical articles, and more.

You can get additional information and support for your product in the Forcepoint Customer Hub at <https://support.forcepoint.com>. There, you can access product documentation, release notes, Knowledge Base articles, downloads, cases, and contact information.

You might need to log on to access the Forcepoint Customer Hub. If you do not yet have credentials, create a customer account. See <https://support.forcepoint.com/CreateAccount>.

Product documentation

Every Forcepoint product has a comprehensive set of documentation.

- *Forcepoint Next Generation Firewall Product Guide*
- Forcepoint Next Generation Firewall online Help



Note

By default, the online Help is used from the Forcepoint help server. If you want to use the online Help from a local machine (for example, an intranet server or your own computer), see Knowledge Base article [10097](#).

- *Forcepoint Next Generation Firewall Installation Guide*

Other available documents include:

- *Forcepoint Next Generation Firewall Hardware Guide* for your model

- *Forcepoint NGFW Security Management Center Appliance Hardware Guide*
- *Forcepoint Next Generation Firewall Quick Start Guide*
- *Forcepoint NGFW Security Management Center Appliance Quick Start Guide*
- *Forcepoint NGFW SMC API Reference Guide*
- *Forcepoint VPN Client User Guide for Windows or Mac*
- *Forcepoint VPN Client Product Guide*

