



FORCEPOINT

Next Generation Firewall

Release Notes

6.2.0

Revision A

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About this release

This document contains important information about this release of Forcepoint™ Next Generation Firewall (Forcepoint NGFW); formerly known as Stonesoft® Next Generation Firewall by Forcepoint (Stonesoft NGFW).

We strongly recommend that you read the entire document.

Lifecycle model

This release of Forcepoint NGFW is a Feature Stream (FS) version.

Support for Feature Stream versions is discontinued when a new major version of Forcepoint NGFW is available.

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 Knowledge Base article [10192](#).

System requirements

Make sure that you meet these basic hardware and software requirements.

Forcepoint NGFW appliances

We strongly recommend using a pre-installed Forcepoint NGFW appliance as the hardware solution for new Forcepoint NGFW installations.



Note: Some features in this release are not available for all appliance models. See Knowledge Base article [9743](#) for up-to-date appliance-specific software compatibility information.

Two Forcepoint NGFW engine images are available:

- x86-64 — A 64-bit image that includes the Local Manager.
- x86-64-small — A 64-bit image that does not include the Local Manager.



Note: If you do not use the Local Manager, we recommend that you use the x86-64-small image. Some appliance models support only the x86-64-small image.

The following table shows whether you can use an appliance model in the Firewall/VPN (FW), IPS, or Layer 2 Firewall (L2FW) role, and the image that is supported.

Appliance model	Roles	Images
FW-315	FW	The image that does not include the Local Manager is supported
320X (MIL-320)	FW	Both images are supported
IPS-1205	IPS, L2FW	Both images are supported
FWL321	FW	The image that does not include the Local Manager is supported
NGF321	FW, IPS, L2FW	Both images are supported
FWL325	FW	The image that does not include the Local Manager is supported
NGF325	FW, IPS, L2FW	Both images are supported
110	FW	The image that does not include the Local Manager is supported
115	FW	The image that does not include the Local Manager is supported
1035	FW, IPS, L2FW	Both images are supported
1065	FW, IPS, L2FW	Both images are supported
1301	FW, IPS, L2FW	Both images are supported
1302	FW, IPS, L2FW	Both images are supported
1401	FW, IPS, L2FW	Both images are supported
1402	FW, IPS, L2FW	Both images are supported
3201	FW, IPS, L2FW	Both images are supported

Appliance model	Roles	Images
3202	FW, IPS, L2FW	Both images are supported
3205	FW, IPS, L2FW	Both images are supported
3206	FW, IPS, L2FW	Both images are supported
3207	FW, IPS, L2FW	Both images are supported
3301	FW, IPS, L2FW	Both images are supported
3305	FW, IPS, L2FW	Both images are supported
5201	FW, IPS, L2FW	Both images are supported
5205	FW, IPS, L2FW	Both images are supported
5206	FW, IPS, L2FW	Both images are supported

Sidewinder S-series appliances

These Sidewinder appliance models can be re-imaged to run Forcepoint NGFW software.

Appliance model	Roles	Images
S-1104	FW	Both images are supported
S-2008	FW	Both images are supported
S-3008	FW	Both images are supported
S-4016	FW	Both images are supported
S-5032	FW	Both images are supported
S-6032	FW	Both images are supported

Certified Intel platforms

We have certified specific Intel-based platforms for Forcepoint NGFW.

The tested platforms can be found at <https://support.forcepoint.com> under the Forcepoint Next Generation Firewall product.

We strongly recommend using certified hardware or a pre-installed Forcepoint NGFW appliance as the hardware solution for new Forcepoint NGFW installations. If it is not possible to use a certified platform, Forcepoint NGFW can also run on standard Intel-based hardware that fulfills the hardware requirements.

Basic hardware requirements

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

- (Recommended for new deployments) Intel® Xeon®-based hardware from the E5-16xx product family or higher



Note: Legacy deployments with Intel® Core™2 are supported.

- IDE hard disk and DVD drive



Note: IDE RAID controllers are not supported.

- Memory:
 - 4 GB RAM minimum for x86-64-small installation
 - 8 GB RAM minimum for x86-64 installation
- VGA-compatible display and keyboard
- One or more certified network interfaces for the Firewall/VPN role
- Two or more certified network interfaces for IPS with IDS configuration
- Three or more certified network interfaces for Inline IPS or Layer 2 Firewall

For information about certified network interfaces, 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 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.

- (Recommended for new deployments) Intel® Xeon®-based hardware from the E5-16xx product family or higher



Note: Legacy deployments with Intel® Core™2 are supported.

- One of the following hypervisors:
 - VMware ESXi 6.1 and 6.5
 - KVM (KVM is tested as shipped with Red Hat Enterprise Linux Server 7.1 and 7.2)
- 8 GB virtual disk
- 4 GB RAM minimum

- A minimum of one virtual network interface for the Firewall/VPN role, three for IPS or Layer 2 Firewall roles
- 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.

Build version

Forcepoint NGFW 6.2.0 build version is 18029.

Product binary checksums

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

- **sg_engine_6.2.0.18029_x86-64.iso**

```
SHA1SUM:
21854b01cfed03d95ec77ddfc6616c07a3977a7f

SHA256SUM:
27ce797702f188dcc5013cd4e01a33361b521994b2fed81c8d06aaad17fb9b44

SHA512SUM:
b8c03606c48621087a99966480a02ef5
e68afc8ec248794c578bf2f5138d30a0
21660734f9819a6209f3d8dac0d07bc9
48096d18bb617660b52b914f5ed88281
```

- **sg_engine_6.2.0.18029_x86-64.zip**

```
SHA1SUM:
e8ecb8f772653c0d50187f648afa8d666627c8ab

SHA256SUM:
c354a0f4b22658a27682bd214f80628ad398a03757485fef4ec9d7f5947686ad

SHA512SUM:
b5d553a34bccb53d387ff3977189e69f
5e624612199417794fcf3753d1a855ee
4f8464b2d044cb4d267ce3484096c575
cacf6f60aelfd6a310014495922d65d6
```

- **sg_engine_6.2.0.18029_x86-64-small.iso**

```
SHA1SUM:
e25287f0cbace96e523ddddecc7775911ab986ea

SHA256SUM:
9cbd86e10ab349dfbccfec9430a9a37f9a6af227f230f96721a0ef794c7a5359

SHA512SUM:
dd4a379e06c9dd8fdf478828e00d5d89
34fc595cbc783294b14af4904c8f85e9
de2ac664dc6b252fbf6c2857700d184d
8ad7fc6b58c41bd708398d8c1667e0fb
```

- `sg_engine_6.2.0.18029_x86-64-small.zip`

```
SHA1SUM:
46805b355c467f164dbdb5439ce0b921b688ca66

SHA256SUM:
6ccfabdb2d8bcb022e8af287ccaec5120c9cb4f03e40444a565d547c17961806

SHA512SUM:
3d1d7ddc3dd6da93fd3cbc8895de09ab
f97a5ecd89564df93f13253f3151c9fc
b6dff0617cf49d4fe151296a9aded1da
91c729142bf262d7ff0de18c26a8934f
```

Compatibility

Forcepoint NGFW 6.2 is compatible with the following component versions.

- Forcepoint™ NGFW Security Management Center (SMC) 6.2 or later
- Dynamic Update 864 or later
- Stonesoft® VPN Client for Windows 6.0.0 or later
- Stonesoft® VPN Client for Mac OS X 2.0.0 or later
- Stonesoft® VPN Client for Android 2.0.0 or later
- Server Pool Monitoring Agent 4.0.0 or later
- McAfee® Logon Collector 2.2 and 3.0
- McAfee® Advanced Threat Defense 3.6
- McAfee® Endpoint Intelligence Agent (McAfee EIA) 2.5

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*.

Forcepoint Advanced Malware Detection

Forcepoint Advanced Malware Detection uses file reputation scans in a sandbox service to detect advanced threats. The Cloud Sandbox analyzes the behavior of files in a restricted operating system environment and returns a reputation score for the files. From the Logs view of the Management Client, you can access an external portal where you can view detailed reports for files that have been analyzed in the Cloud Sandbox. You can also use analysis and reporting tools in the external portal.



Note: Forcepoint Advanced Malware Detection requires a separate license for the Cloud Sandbox service. See Knowledge Base article [12514](#).

Pending configuration changes shown for NGFW Engines

You can now view configuration changes that you and other administrators have made before the new configurations are transferred to the engines. The pending changes are shown in the Home view and on the selected engine's home page. You can optionally also enforce an approval workflow. When an approval workflow is enforced, administrators with unrestricted permissions must approve all pending changes before the changes can be committed.

Support for Sidewinder Proxies on Virtual NGFW Engines in the Firewall/VPN role

You can now use Sidewinder Proxies (HTTP, SSH, TCP, and UDP) on Virtual NGFW Engines in the Firewall/VPN role. Sidewinder Proxies on Forcepoint NGFW enforce protocol validation and restrict the allowed parameters for each protocol. Sidewinder Proxies are primarily intended for users in high assurance environments, such as government or financial institutions. In environments that limit access to external networks or access between networks with different security requirements, you can use Sidewinder Proxies for data loss protection.

DNS Relay on NGFW Engines in Firewall/VPN role

DNS relay allows NGFW Engines in the Firewall/VPN role to provide DNS services for internal networks. The firewall forwards DNS requests from clients in the internal network to remote DNS servers and temporarily stores the results of the DNS requests in the cache. The firewall can forward DNS requests to different DNS servers depending on the domain in the DNS request. The firewall can also return fixed DNS results for specific hosts or domains, and translate external IP addresses in DNS replies to IP addresses in the internal network.

Improved dynamic multicast routing support on NGFW Engines in Firewall/VPN role

You can now configure protocol-independent multicast (PIM) on NGFW Engines in the Firewall/VPN role in the Management Client. Previously, you could only configure PIM on the engine command line. You can use source-specific multicast (PIM-SSM), sparse mode (PIM-SM), or dense mode (PIM-DM).

Improved logging and diagnostics for SSL VPN Portal

Logging and diagnostics have been improved for the SSL VPN Portal. Log entries are generated when an SSL VPN Portal user starts and ends a session. If diagnostics are enabled for the SSL VPN Portal, log entries are also generated for HTTP or HTTPS transactions. SSL VPN Portal users can see the time of their last logon and the number of failed logon attempts in the status bar of the SSL VPN Portal.

Enhancements

This release of the product includes these enhancements.

Enhancements in Forcepoint NGFW version 6.2.0

Enhancement	Description
NetLink-specific DNS IP addresses	You can now define NetLink-specific DNS IP addresses for static NetLinks. Dynamic NetLinks can automatically learn DNS IP addresses.
Improved configuration of User Responses	User Responses are now easier to configure. The new message response allows you to quickly create simple messages without using HTML markup. You can also use variables in User Responses to provide connection-specific information to the end users.

Resolved issues

These issues are resolved in this release of the product. For a list of issues fixed in earlier releases, see the Release Notes for the specific release.

Description	Role	Issue number
When you install a policy on an engine that has Wireless Interfaces, policy installation might fail, or the engine might restart.	FW	NGFW-2259
Processing a large number of GRE connections might cause a high load on the engine.	FW, IPS, L2FW	NGFW-2423

Installation instructions

Use these high-level steps to install 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>.



Note: The sgadmin user is reserved for SMC use on Linux, so it must not exist before SMC is installed for the first time.

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 with the Management Client using the **Configuration** view.
- 4) To generate initial configurations for the engines, right-click each Firewall, IPS, or Layer 2 Firewall element, then select **Configuration > Save Initial Configuration**.
Make a note of the one-time password.
- 5) Make the initial connection from the engines to the Management Server, then enter the one-time password.
- 6) Create and upload a policy on the engines using the Management Client.

Upgrade instructions

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



Note: Changes to category-based URL filtering in Forcepoint NGFW version 6.1 affect all existing users of category-based URL filtering. Legacy URL Situation elements can no longer be used in policies for Forcepoint NGFW version 6.1 or later. If rules in your policy contain legacy URL Situation elements, you must replace them with URL Category elements. See the *Forcepoint Next Generation Firewall Product Guide* for detailed instructions.

- Upgrading to version 6.2 is only supported from version 5.10 or later. If you have an earlier version, first upgrade to version 5.10.
- Forcepoint NGFW version 6.2 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 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*.

Known issues

For a list of known issues in this product release, see Knowledge Base article [12476](#).

Known limitations

This release of the product includes these known limitations.

Limitation	Description
Inspection in asymmetrically routed networks	In asymmetrically routed networks, using the stream-modifying features (TLS Inspection, URL filtering, and file filtering) can make connections stall.
Inline Interface disconnect mode in the IPS role	The <i>disconnect mode</i> for Inline Interfaces is not supported on IPS virtual appliances, IPS software installations, IPS appliance models other than IPS-6xxx, or modular appliance models that have bypass interface modules.

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

Find product documentation

On the Forcepoint support website, 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 on the Forcepoint support website at <https://support.forcepoint.com>. There, you can access product documentation, Knowledge Base articles, downloads, cases, and contact information.

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*
- *Stonesoft VPN Client User Guide* for Windows or Mac
- *Stonesoft VPN Client Product Guide*

