

CONFIGURATION MIGRATION TOOL

# FortiConverter Release Notes

**VERSION 5.4.0**

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FortiConverter 5.4.0 Release Notes

1st Edition

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# Introduction

This document provides installation instructions and caveats, resolved issues, and known issues for FortiConverter 5.4.0, build 0345.

FortiConverter provides a solution for the conversion of numerous firewall configurations into a FortiOS-compatible format. It currently supports the conversion of Cisco, Check Point, Juniper, SonicWall, Palo Alto Networks, McAfee (Sidewinder and Stonesoft), Trend Micro, and Alcatel-Lucent Brick configurations. FortiConverter can also convert Snort IPS rules to custom signatures.

**FortiConverter 5.4.0 introduces a new browser/server based application, in addition to the legacy application.** Designed as a web application, its database allows conversions to be saved and supports large source-firewall configurations. This, and the new GUI, is intended to improve usability and provide a framework for new functionality.

Two installers are available on the support site:

- `FortiConverterSetup_(release)_Build#.exe` is the legacy application.
- `FortiConverterSetup_(release)_Build#.py.exe` is the new application.

Both the legacy and new applications use the same license key and should be installed on the same host.

**The FortiConverter 5.4.0 new application supports the Cisco ASA, PIX and FWSM conversions, and a new FortiGate configuration viewer.** Use release 5.4.0 of the legacy application for all other supported conversions.

**The FortiGate configuration viewer, in the new application, is provided in place of the FortiGate conversion.** The viewer helps FortiGate administrators manually migrate configurations from a FortiGate configuration file by providing a graphical interface to view policies and objects, and copy CLI. Users who want to use the old FortiGate conversion for conversions up to FortiOS 5.4 can continue to use FortiConverter 5.3.0, which is available on the support site.

For all conversions, you can complete a conversion and view the results in the tuning page. All other functionality is disabled until you upload the full license. In most cases, this limited functionality is sufficient to allow you to evaluate the product.

If your license expires and you do not renew the license, functionality reverts to the trial version.

| SKU                          | Description                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>FC-10-CON01-401-01-12</b> | 1-year multi-vendor configuration migration tool for building FortiOS configurations, requires Windows.         |
| <b>FC-10-CON01-401-02-12</b> | 1-year renewal multi-vendor configuration migration tool for building FortiOS configurations, requires Windows. |

For additional documentation, please visit:

<http://docs.fortinet.com/forticonverter/>

## What's new

This release contains following new features and enhancements.

- FortiConverter now features a new application for Cisco ASA, PIX, and FWSM conversions. These conversions have been removed as options from the legacy application.
- The new FortiConverter application also features a FortiGate configuration viewer for viewing older FortiGate configurations. The FortiGate to FortiGate configuration option has been removed.
- FortiConverter now supports conversion from McAfee Stonesoft 5.7 to FortiOS.
- FortiConverter now supports conversion from Trend Micro Tipping Point IPS 4.5 to FortiOS.

## System requirements

FortiConverter is tested to run on the following Microsoft Windows platforms:

- Microsoft Windows 10
- Microsoft Windows 8 (32-bit or 64-bit)
- Microsoft Windows 7 (32-bit or 64-bit)
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012

If your Windows or Windows Server version is not listed above, contact FortiConverter support at [fconvert\\_feedback@fortinet.com](mailto:fconvert_feedback@fortinet.com).

## Supported versions and conversions

Unless noted as an exception below, conversions only support IPv4 unicast policy.

| Vendor                | Models             | Versions                                 | Convertible objects                                                                                                                                                                                                                                                                                                                    |
|-----------------------|--------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alcatel-Lucent</b> | Brick              | ALSMS v9.x                               | Addresses & Address Books<br>Interfaces (physical, logical, loopback, PPPoE)<br>Partitions<br>Services & Service Books<br>Static routes<br>Zone rule set                                                                                                                                                                               |
| <b>Check Point</b>    | SmartCenter        | NG FP1 (4.0) to NGX R80                  | Addresses & Address Groups<br>Interfaces (Physical, Logical, Loopback, PPPoE)<br>Local Users & Groups<br>NAT (Automatic & Rule)<br>Negate Cell<br>Policies (rulebases.fws)<br>RADIUS, TACACS+, & LDAP                                                                                                                                  |
|                       | Provider-1         | NGX R65 to R80                           | Rules<br>Schedules<br>Services & Service Groups<br>Static routes<br>VPN (IPSec)                                                                                                                                                                                                                                                        |
| <b>Cisco</b>          | PIX<br>ASA<br>FWSM | 4.x to pre-8.3,<br>8.3 and later,<br>9.x | ACLs<br>Addresses & Address Groups<br>DHCP Servers<br>DNS Servers<br>Interfaces (Physical, Logical, Loopback, PPPoE, Tunnel)<br>IP Pools<br>Local Users & Groups<br>NAT (including Object NAT and Double NAT)<br>RADIUS, TACACS+, & LDAP<br>Services & Service Groups<br>Static Routes<br>Time Ranges<br>VPN (IPSec, PPTP/L2TP, EZVPN) |
|                       | IOS                | 10.x to 12.x<br>15.x                     |                                                                                                                                                                                                                                                                                                                                        |
|                       | IOS XR             | 4.x, 5.x, 6.x                            | Addresses & Address Groups & FQDNs<br>Interfaces<br>IP Pools<br>Policies                                                                                                                                                                                                                                                               |
|                       | Nexus              | 5.2, 6.x, 7.x                            | Services & Service Groups<br>Static Routes                                                                                                                                                                                                                                                                                             |

| Vendor  | Models     | Versions              | Convertible objects                                                                                                                                                                                                                                                                                    |
|---------|------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Juniper | SSG/ISG    | ScreenOS 5.x, 6.x     | Addresses & Address Groups & FQDNs<br>DHCP Servers & Clients & Relays<br>Interfaces (Physical, Logical, Loopback, PPPoE, Tunnel)<br>Static Routes<br>Services & Service Groups<br>Policies<br>VIPs/MIPs<br>NAT<br>IP Pools<br>VPN (IPSec, PPTP/L2TP)<br>Local Users & Groups<br>RADIUS & LDAP<br>Zones |
|         | SRX        | Junos OS 10.x to 12.x | Addresses & Address Groups & FQDNs<br>DHCP Servers & Client & Relay<br>Interfaces (Physical, Logical, Loopback, PPPoE, Tunnel)<br>IP Pools<br>Local Users & Groups<br>NAT<br>Policies<br>RADIUS & LDAP<br>Services & Service Groups<br>Static Routes<br>VIPs/MIPs<br>VPN (IPSec, PPTP/L2TP)<br>Zones   |
|         | MX         | Juno OS 10.x to 12.x  | Addresses & Address Groups & FQDNs<br>Interfaces<br>IP Pools<br>Policies<br>Services & Service Groups<br>Static Routes                                                                                                                                                                                 |
| McAfee  | Sidewinder | 7.x, 8.x              | Addresses & Address Groups & FQDNs<br>Interfaces<br>IP Pools<br>Policies<br>Services & Service Groups<br>Static Routes                                                                                                                                                                                 |
|         | Stonesoft  | 5.7                   | Addresses & Address Groups<br>Interfaces<br>Policies<br>Services & Service Groups<br>Static Routes                                                                                                                                                                                                     |

| Vendor                    | Models     | Versions             | Convertible objects                                                                                                                                                                                                                     |
|---------------------------|------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Palo Alto Networks</b> | PA         | PAN-OS 1.x to 6.x    | Addresses & Address Groups & FQDNs<br>Interfaces<br>Local Users & Groups<br>NAT (partial)<br>Policies<br>Schedules<br>Static Routes<br>Services & Service Groups<br>Zones                                                               |
| <b>SonicWall</b>          | NSA Series | SonicOS Enhanced 5.x | Addresses & Address Groups & FQDNs<br>DHCP Servers & Clients & Relays<br>Interfaces (Physical, Logical, Loopback, PPPoE)<br>Local Users & Groups<br>NAT<br>Policies<br>Schedules<br>Services & Service Groups<br>Static Routes<br>Zones |
| <b>Tipping Point</b>      | IPS        | 4.5                  | Addresses & Address Groups<br>Policies<br>Services & Service Groups                                                                                                                                                                     |

Exceptions:

- Check Point to FGT conversion can support IPv4 multicast policy.
- Check Point, Cisco (IOS-XR only) and Juniper (Junos only) to FGT conversion can support IPv6 unicast policy.

# Upgrading

The legacy application for FortiConverter has no special upgrade requirements. You may overwrite an existing installation with a different version.

The new application has a backend database. Therefore, it is important to follow the upgrade path to correctly update the database schema.

If you have previously installed an interim build of the new application, please see the Installation section of the FortiConverter 5.4.0 handbook for instructions on how to correctly remove this version before installing the new version.

For additional support, please contact [fconvert\\_feedback@fortinet.com](mailto:fconvert_feedback@fortinet.com).

## Resolved issues

The resolved issues listed below do not list every bug that has been corrected with this release. For inquiries about a particular bug, please email FortiConverter support at [fconvert\\_feedback@fortinet.com](mailto:fconvert_feedback@fortinet.com).

### Resolved issues

| Bug ID | Description                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------|
| 303518 | Some Cisco PIX Network Address Translation (NAT) issues remain.                                                      |
| 394353 | Some NAT statements are not supported for Cisco PIX.                                                                 |
| 377624 | FortiConverter software update feature cannot use existing HTTP proxy settings.                                      |
| 378062 | FortiConverter license activation behind Web Proxy with Authentication.                                              |
| 437540 | Some comments are not converted during a Check Point to FortiGate conversion.                                        |
| 437821 | Static routes of outgoing interfaces are not updated with the correct value during ScreenOS to FortiGate conversion. |
| 434421 | FortiConverter occasionally has issues converting ASA style static NAT.                                              |
| 424210 | FortiGate Web UI experiences performance issues after importing a Check Point conversion.                            |
| 434259 | Objects referenced in a Central NAT policy are occasionally moved incorrectly.                                       |
| 434267 | FortiConverter does not take FortiGate 5.4 behavior into consideration when creating Central NAT rules.              |
| 434338 | Interface names occasionally do not match during Juniper Junos SRX conversions.                                      |
| 439516 | Check Point to FortiGate conversion has Central NAT conversion issues.                                               |
| 440209 | FortiConverter crashes during a Cisco ASA conversion with a large amount of ACLs.                                    |
| 439331 | FortiConverter has some issues regarding Central NAT and routes for CheckPoint conversions.                          |
| 438402 | FortiConverter reads destination NATs incorrectly during a Juniper conversion.                                       |
| 438468 | Static routes occasionally do not convert properly for a Juniper conversion.                                         |
| 384848 | FortiConverter has issues merging rulesets.                                                                          |
| 442421 | FortiConverter cannot skip the "Additional Rules" step for FortiGate-FortiGate conversion.                           |
| 440963 | FortiConverter occasionally has CiscoASA to FortiGate conversion issues.                                             |

| Bug ID | Description                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------|
| 441736 | Juniper address groups with the same name but different security zones do not get converted.        |
| 445242 | FortiConverter has IPSec VPN issues during Cisco ASA conversion.                                    |
| 445261 | FortiConverter drops some service object properties during Check Point conversion.                  |
| 448791 | FortiConverter occasionally does not convert NAT policies during a Cisco conversion.                |
| 445770 | FortiConverter has destination NAT translation issues during Checkpoint configuration.              |
| 446437 | Snort conversions are occasionally deemed invalid in FortiGate.                                     |
| 451503 | FortiConverter does not recognize Cisco ASA interfaces when speed or duplex settings are not shown. |
| 452437 | FortiConverter does not take Check Point groups into account during Check Point conversion.         |
| 415711 | FortiConverter does not support Tipping Point conversion.                                           |
| 391014 | FortiConverter does not support McAfee Stonesoft conversion.                                        |
| 451088 | FortiConverter has issues with Cisco Twice NAT merges.                                              |
| 452436 | Cisco ASA conversions occasionally cannot run to completion.                                        |
| 453145 | FortiConverter occasionally drops DHCP relay IPs during ScreenOS conversion.                        |
| 452694 | FortiConverter installers do not have Smart Screen support.                                         |
| 452764 | Schedule objects are occasionally not converted during Palo Alto Networks conversion.               |
| 453434 | FortiConverter has issues with the new PAN configuration output format.                             |
| 452775 | FortiConverter does not convert dynamic routing protocols during ScreenOS conversion.               |
| 455706 | FortiConverter does not convert VPNs correctly during Juniper SRX conversion.                       |
| 455708 | Check Point conversions occasionally crash.                                                         |
| 452137 | Cisco conversions occasionally return exaggerated values.                                           |
| 459410 | McAfee Sidewinder conversions occasionally drop items.                                              |
| 455851 | FortiConverter experiences issues with NAT rules and VPN settings during Cisco ASA conversion.      |
| 460545 | FortiConverter has issues with FortiGate interface names.                                           |
| 463098 | Cisco configurations with the keyword "pat-pool" crash FortiConverter.                              |



## Known issues

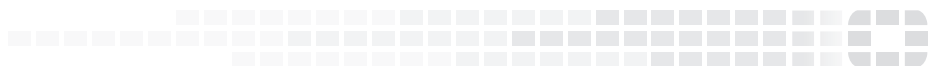
The issues listed below do not include every known bug. For inquiries about a particular bug, please email FortiConverter support at [fconvert\\_feedback@fortinet.com](mailto:fconvert_feedback@fortinet.com).

### Known issues

| Bug ID | Description                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------|
| 423130 | FortiConverter incorrectly parses Juniper SRX security zones.                                             |
| 400963 | FortiConverter will not enable NAT if the destination has "negate" enabled.                               |
| 435526 | FortiConverter does not convert BGP routes for Junos SRX OS.                                              |
| 435334 | Cisco ASA global ACL conversion support.                                                                  |
| 459808 | FortiConverter does not convert routing instances for Junos SRX OS.                                       |
| 459412 | Some Cisco ASA static NAT may be mismatched during a NAT merge.                                           |
| 459411 | FortiConverter occasionally has issues when performing interface name mapping for Cisco ASA conversions.  |
| 451869 | FortiConverter does not convert destination NATs with source address objects for Juniper SRX conversions. |



High Performance Network Security



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