FortiConverter - Release Notes

Version 6.0.0

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Introduction

This document provides installation instructions and caveats, resolved issues, and known issues for FortiConverter 6.0.0, build 0035.

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, Forcepoint, Trend Micro, Vyatta, Sophos, WatchGuard, Huawei, Alcatel-Lucent Brick, and FortiGate configurations.

FortiConverter can also convert Snort IPS rules to custom signatures and Bluecoat proxy.

FortiConverter 6.0.0 provides a browser/server-based application. Start from this version, we're no longer supporting the legacy application. Designed as a web application design, the database allows you to save conversions and support large source-firewall configurations. The new GUI design is intended to improve usability and provide a framework for new functionality.

The installer is available on the support site:

`FortiConverterSetup_6.0.0_Build0035.py.exe` is the new application.

The new applications use the same license key as a legacy tool and should install on the same host.

The FortiConverter 6.0.0 new application supports the remaining vendors such as Cisco IOS XR and Nexus, Alcatel-Lucent Brick, McAfee Sidewinder, Forcepoint Stonesoft, and Trend Micro TippingPoint.

FortiGate to FortiGate migration is based on REST APIs. With the new designed import feature, the tool is able to directly import converted configurations to the target FortiGate device running with FortiOS v6.0.0 and thereafter.

The FortiGate bulk conversion is also supported simultaneously to convert more than one source configuration with the same model to establish the restorable configurations.

For all conversions, you can complete conversion and view the results on 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.

*Note that FortiGate-to-FortiGate migration is no longer an extended support to tune or download the converted configuration on the import page.

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

FC-10-CON01-401-01-12 1-year multi-vendor configuration migration tool for building FortiOS configurations, Windows OS is required.

FC-10-CON01-401-02-12 1-year renewal multi-vendor configuration migration tool for building FortiOS configurations, Windows OS is required.

For additional documentation, please visit https://docs.fortinet.com/product/forticonverter/.

What's new

This release contains the following new features and enhancements:

- Cisco IOS XR and Nexus, Alcatel-Lucent Brick, McAfee Sidewinder and Trend Micro TippingPoint migrate to the new application. The legacy tool is no longer supported in this version.
- **Fortinet import** can edit the configuration in the import page.
- **Fortinet import** upgrades to a more clearly defined four status categories: success, warning, error, and ignore after running the import.
- **Juniper SRX** adds an option to use the Zone name to distinguish duplicate address objects.
- **Huawei** now supports converting VRF as a VDOM
- Supports Snort3 IPS rule conversions
- Supports to generate the difference(diff) between two similar conversions.
- Supports optimization option to sort out the duplicate contents in address and service.

System requirements

FortiConverter is tested to run on the following Microsoft Windows 64-bit platforms:

- Microsoft Windows 10
- Microsoft Windows 8
- Microsoft Windows 7
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012

If your Windows OS or Windows Server version isn't listed above, contact FortiConverter support at fconvert_feedback@fortinet.com.

Upgrading

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

If you want to upgrade the SQL version, you may have to uninstall the tool and reinstall, the conversion data would not be lost.

For additional support, contact fconvert_feedback@fortinet.com.

Supported vendors & configuration objects

FortiConverter can translate configurations from the following vendors and models.

- In some cases, FortiConverter can't translate some parts of the configuration because of dependencies or unsupported syntax and you must manually convert them.
- If the number of objects exceeds the maximum valid length for FortiGate or FortiManager, FortiConverter trims them.

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

Vendor	Models	Versions	Convertible Objects
Alcatel-Lucent	Brick	ALSMS v9.x	• Interface (physical, logical, loopback, PPPoE) • Addresses & Address Books • Partitions • Services & Service Books • Static Routes • Zone rule set
Bluecoat	SGOS	6.5.10 6.7.4	• Addresses & Address Groups • Proxy Address (group) • Service • Proxy Policy
CheckPoint	SmartCenter	NGFP1 (4.0) to NGX R80	• Interface • Addresses & Address Groups • Local Users & Groups • NAT • Negate Cell • Policies (rulebases.fws/*.csv) • RADIUS, TACACS+, LDAP • Rules (rulebases.fws/*.csv) • Schedules • Services & Service Groups • Static Routes • VPN communities (IPSec site-to-site)
	Provider-1	NGX R65 to R80	

Vendor	Models	Versions	Convertible Objects
Cisco	ASA	7.x/8.x/9.x	• Interface • ACLs • Addresses & Address Groups • DHCP Servers • DNS Servers • DNS Servers Interfaces • IPPools Local Users & Groups • NAT • RADIUS, TACACS+, LDAP • Services & Service Groups • Static Routes • VPN • SSLVPN (ASA only)
	FWSM	3.x/4.x	
	IOS	10.x to 12.x 15.x	
	PIX	5.x/6.x/7.x/8.x	
	IOS XR	4.x/5.x/6.x	• Addresses & Address Groups & FQDNs • Interface • IP Pools • Policies • Services & Service Groups • Static Routes
	Nexus	5.2/6.x/7.x	
FortiGate	FortiOS	FOS5.2 and above	FortiGate configuration can be converted based on the version of the target FortiGate device (We suggest to migrate to FortiOS 6.0 and above). However, note that • Older features might be deprecated and may not be fully converted over. • The review is necessary. After importing the converted configuration, any CLI commands that have not successfully imported can be reviewed on the page. • For more details, please see "FortiGate configuration migration" and "Reviewing errors after FortiGate import" sections in admin guide.

Vendor	Models	Versions	Convertible Objects
Huawei	USG Series		• Interface • Zone • Addresses & Address Groups • Services & Service Groups • Policy • Route • Zone • IPSec Policy (VPN) • Security Context • Nat Policy (SNAT) • Nat Server (VIP)
Juniper	SSG/ISG	ScreenOS 4.x, 5.x, 6.x	• Addresses & Address Groups & FQDNs • DHCP Servers & Clients & Relays Interfaces • Static Routes • Services & Service Groups • Policies • VIPs/MIPs • NAT • IP Pools • VPN • Local Users & Groups • RADIUS & LDAP • Zones
	SRX	JunosOS 10.x to 18.x	• Addresses & Address Groups & FQDNs • DHCP Servers & Client & Relay • Interfaces • IP Pools • Local Users & Groups • NAT • Policies • RADIUS & LDAP • Services & Service Groups • Static Routes • VIPs/MIPs • VPN (IPSec site-to-site)

Vendor	Models	Versions	Convertible Objects
			• Zones • Routing-instances (virtual-router)
	MX	Juno OS 10.x to 12.x	• Addresses & Address Groups & FQDNs • Interfaces • IP Pools • Policies • Services & Service Groups • Static Routes
McAfee	Sidewinder	7.x, 8.x	• Addresses & Address Groups & FQDNs • Interfaces • IP Pools • Policies • Services & Service Groups • Static Routes
Forcepoint	Stonesoft	5.7	• Addresses & Address Groups • Interfaces • Policies/ Sub-policy • Alias • Services & Service Groups • Static Routes • NAT
Palo Alto Networks	PAN OS	PAN-OS 1.x to 8.x	• Addresses & Address Groups & FQDNs • Interfaces • Local Users & Groups • NAT • Policies • Schedules • Static Routes • Services & Service Groups • Zones • VPN • Panorama
Snort			• IPS rules
SonicWall	TZ Series NSA Series	SonicOS 4.x, 5.x, 6.x	• Addresses & Address Groups & FQDNs • DHCP Servers & Clients & Relays • Interfaces • Local Users & Groups • NAT • Policies • Schedules • Services & Service Groups

Vendor	Models	Versions	Convertible Objects
			• Static Routes • Zones • VPN (IPSEC site to site) • SSLVPN
Sophos	XG Series	SFOS 17.0	• Interface • Zone • Addresses & Address Groups • Service & Service Groups • Users & User Groups • Policy
	Cyberoam	Cyberoam OS 10.6	
Tipping Point	IPS	4.5	• Addresses & Address Groups • Policies • Services & Service Groups
Vytta	VyOS	5.2 to 6.7	• Interface • Zone • Addresses & Address Groups • Services & Service Groups • Policy • Route
WatchGuard	Firebox Series XTM Series	Fireware 11.3 to 12.1	• Interfaces • Addresses & Address Groups • Services & Service Groups • Policies • Static Routes

Exception

- Check Point to FGT conversion can support IPv4 multicast policy.
- Check Point, Cisco, and Juniper (Junos only) to FGT conversion can support IPv6 unicast policy.
- Juniper (Junos only) can support converting the consolidated policy to FortiOS v6.2 configuration.

Resolved issues

The resolved issues listed below don't list every bug that has been corrected with this release. For inquires about a particular bug, please email support at fconvert_feedback@fortinet.com.

Bug ID	Description
622043	Huawei - Policy names should be unique
621965	Huawei - Virtual IP to be used on FGT interface while converting whenever VRRP is used
621062	Cisco: VPN Phase 1 setting proposal fails
620276	Cisco: Unable to configure firewall VIP
620273	Cisco: Unable to set the dhgrp for IPSec VPN tunnels
618262	Huawei - VRF to be converted as a VDOM
616912	Juniper SRX conversion delete source VDOM does not delete
616910	NAT using "virtual zones" in Juniper SRX is not translated to FortiOS
616909	Central SNAT IP Pools are not created in this version of FCON
614359	FortiConverter "merge duplication objects" option
614358	Juniper SRX -Destination NAT src-filter does not have all the subnets
608492	Change IPSEC Phase1 names during policy conversions

Known issues

The issues listed below do not include every known bug. For questions about a particular bug, please email FortiConverter support at fconvert_feedback@fortinet.com.

Bug ID	Description
622970	Sonicwall: "User device" command not supported in FW 6.2.2
622961	Sonicwall: Missing quotation for address referenced in Static route
620260	Trimming address groups and service groups does not update in the tuning page
619958	Migrate Alcatel-Lucent conversion to the new application tool
619290	having some problem to convert Tipping Point firewall configuration.
619246	Support for Snort3 on FortiConverter
616036	Cisco: Router static failed because IPSEC VPN renamed doesn't reflect in static routes
612161	Cisco IOS NAT format currently not supported from config file
611841	FortiConverter having problem to converting Checkpoint configuration
608516	Support Cisco ASA user-group keyword in ACL
607885	Stonesoft: Incorrect vdom association
607869	Stonesoft: Undefined address referenced
607831	Stonesoft: Duplicate IP pools
607271	Cisco ASA Convert User VPN Configuration
607261	Converter prompted "Security Context Error" with Cisco ASA configuration file
607123	FGT-FGT conversion cannot parse out FOS version and build info

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