



# FortiConverter - Release Notes

Version 7.0.4



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# Introduction

This document provides installation instructions and requirements, resolved issues, and known issues for FortiConverter 7.0.4, build 0321.

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

FortiConverter also supports the conversion of load balancers into FortiADC configurations. Currently F5 and Radware load balancers are supported.

In this version, FortiConverter has upgraded the PostgreSQL database to version 12.17 to avoid security issues.

In this version, Cisco Meraki and PFSense conversion are added into FortiConverter. For both of them, FortiConverter supports the conversion of interfaces, addresses, services, policies and NATs into FortiGate configurations.

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



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

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**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:

- Upgraded PostgreSQL database to version 12.17.

# System requirements

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

- Microsoft Windows 11
- Microsoft Windows 10
- Microsoft Windows 8
- Microsoft Windows Server 2022
- 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](mailto:fconvert_feedback@fortinet.com).

## Upgrading

FortiConverter has no special upgrade requirements. You may overwrite an existing installation with a different version. However, please do not uninstall the existing version, as the original DB binaries are required during database migration.

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

## Supported versions and conversions

FortiConverter can translate configurations from the following vendors and models. Unless noted as an exception below, conversions only support IPv4 unicast policy.

If FortiConverter cannot properly translate some of the supported configurations listed from below table, please kindly contact our product support email alias [fconvert\\_feedback@fortinet.com](mailto:fconvert_feedback@fortinet.com)

### FortiGate Conversions

Vendor	Models	Versions	Convertible Objects
<b>Alcatel-Lucent</b>	Brick	ALSMS v9.x	<ul style="list-style-type: none"> <li>Interface (physical, logical, loopback, PPPoE)</li> <li>Addresses &amp; Address Books</li> <li>Partitions</li> <li>Services &amp; Service Books</li> <li>Static Routes</li> <li>Zone rule set</li> </ul>
<b>Bluecoat</b>	SGOS	6.5.10 6.6.4.2 6.7.4 7.0	<ul style="list-style-type: none"> <li>Addresses &amp; Address Groups</li> <li>Proxy Address (group)</li> <li>Service</li> <li>Proxy Policy</li> </ul>
<b>CheckPoint</b>	SmartCenter	NGX R65 onward	<ul style="list-style-type: none"> <li>Interface</li> <li>Addresses &amp; Address Groups</li> <li>Local Users &amp; Groups</li> <li>NAT</li> <li>Negate Cell</li> <li>Policies (rulebases.fws/*.csv)</li> <li>RADIUS, TACACS+, LDAP</li> <li>Rules (rulebases.fws/*.csv)</li> <li>Schedules</li> <li>Services &amp; Service Groups</li> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"><li>• Static Routes</li><li>• Traditional IPSec sito-to-site VPN (Support only before R80.10)</li><li>• Simplified IPSec sito-to-site VPN</li></ul>
	VSX		
	Provider-1		

Vendor	Models	Versions	Convertible Objects
<b>Cisco</b>	ASA	7.x onward	<ul style="list-style-type: none"> <li>• ACLs</li> <li>• Addresses &amp; Address Groups</li> <li>• DHCP Servers</li> <li>• DNS Servers</li> <li>• Interface</li> <li>• IP Pools</li> <li>• Local Users &amp; Groups</li> <li>• NAT (Central NAT)</li> <li>• RADIUS, TACACS+, LDAP</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> <li>• VPN</li> </ul>
	FWSM	3.x onward	
	IOS	10.x to 12.x	
		15.x	
	PIX	5.x onward	
	FTD (LINA)	6.x onward	
	IOS XR	4.x/5.x/6.x	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• Interface</li> <li>• IPPools</li> <li>• Policies</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> </ul>
		Nexus	
Meraki	N/A	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups</li> <li>• Interfaces</li> <li>• L3 firewall rules</li> <li>• NAT (Central NAT only)</li> <li>• Services &amp; Service Groups</li> </ul>	
<b>FortiGate</b>	FortiOS	FOS5.2 and above	FortiGate configuration can be converted based on the version of the target FortiGate device. However, note that

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>• Older features might be deprecated and may not be fully converted over.</li> <li>• The review is necessary. After importing the converted configuration, any CLI commands that have not successfully imported can be reviewed on the page.</li> <li>• For more details, please see "FortiGate configuration migration" section in the admin guide.</li> </ul>
<b>Huawei</b>	USG Series		<ul style="list-style-type: none"> <li>• Interface</li> <li>• Zone</li> <li>• Addresses &amp; Address Groups</li> <li>• Services &amp; Service Groups</li> <li>• Policy</li> <li>• Route</li> <li>• Zone</li> <li>• IPSec Policy (VPN)</li> <li>• Security Context</li> <li>• Nat Policy (SNAT)</li> <li>• Nat Server (VIP)</li> </ul>
<b>IBM</b>	PAM		IPS Sensor
<b>Juniper</b>	SSG/ISG	ScreenOS 4.x, 5.x, 6.x	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• DHCP Servers &amp; Clients &amp; Relays Interfaces</li> <li>• Static Routes</li> <li>• Services &amp; Service Groups</li> <li>• Policies</li> <li>• VIPs/MIPs</li> <li>• NAT</li> <li>• IP Pools</li> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>• VPN</li> <li>• Local Users &amp; Groups</li> <li>• RADIUS &amp; LDAP</li> <li>• Zones</li> </ul>
	SRX	JunOS 10.x onward	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• DHCP Servers &amp; Client &amp; Relay</li> <li>• Interfaces</li> <li>• IP Pools</li> <li>• Local Users &amp; Groups</li> <li>• NAT</li> <li>• Policies</li> <li>• RADIUS &amp; LDAP</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> <li>• VIPs/MIPs</li> <li>• VPN (IPSec site-to-site)</li> <li>• Zones</li> <li>• Routing-instances (virtual-router)</li> </ul>
	MX	Juno OS 10.x to 12.x	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• Interfaces</li> <li>• IP Pools</li> <li>• Policies</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> </ul>
<b>Forcepoint</b>	Sidewinder	7.x onward	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• Interfaces</li> <li>• IP Pools</li> <li>• Policies</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> <li>• NAT (Policy NAT only)</li> </ul>
	Stonesoft	5.7 onward	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups</li> <li>• Interfaces</li> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>• Policies/ Sub-policy</li> <li>• Alias</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> <li>• NAT</li> </ul>
<b>Palo Alto Networks</b>	PAN OS	PAN-OS 1.x onward	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• Interfaces</li> <li>• Local Users &amp; Groups</li> <li>• NAT</li> <li>• Policies</li> <li>• Schedules</li> <li>• Static Routes</li> <li>• Services &amp; Service Groups</li> <li>• Zones</li> <li>• VPN (GlobalProtect VPN not supported)</li> <li>• Panorama</li> </ul>
<b>PFSense</b>		15+	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups</li> <li>• Interfaces</li> <li>• NAT (Central NAT only)</li> <li>• Policies</li> <li>• Services &amp; Service Groups</li> <li>• Static routes</li> </ul>
<b>Snort</b>			IPS rules
<b>SonicWall</b>	TZ Series NSA Series	SonicOS 4.x onward	<ul style="list-style-type: none"> <li>• Addresses &amp; Address Groups &amp; FQDNs</li> <li>• DHCP Servers &amp; Clients &amp; Relays</li> <li>• Interfaces</li> <li>• Local Users &amp; Groups</li> <li>• NAT</li> <li>• Policies</li> <li>• Schedules</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> <li>• Zones</li> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>VPN (IPSEC site to site)</li> <li>SSLVPN</li> </ul>
<b>Sophos</b>	XG Series	SFOS 17.0 - 17.5 MR3	<ul style="list-style-type: none"> <li>Interface</li> <li>Zone</li> <li>Addresses &amp; Address Groups</li> <li>Service &amp; Service Groups</li> <li>Users &amp; User Groups</li> <li>Policy</li> <li>NAT (XG supports traditional NAT merge and SG model supports central NAT mode only)</li> </ul>
	Cyberoam	Cyberoam OS 10.6.3 onward	
	SG Series	6.6 onward	
<b>Tipping Point</b>	IPS	4.5	<ul style="list-style-type: none"> <li>Addresses &amp; Address Groups</li> <li>Policies</li> <li>Services &amp; Service Groups</li> </ul>
<b>Vytta</b>	VyOS	5.2 to 6.7	<ul style="list-style-type: none"> <li>Interface</li> <li>Zone</li> <li>Addresses &amp; Address Groups</li> <li>Services &amp; Service Groups</li> <li>Policy</li> <li>Route</li> </ul>
<b>WatchGuard</b>	Firebox Series XTM Series	Fireware 11.3 onward	<ul style="list-style-type: none"> <li>Interfaces</li> <li>Addresses &amp; Address Groups</li> <li>Services &amp; Service Groups</li> <li>Policies</li> <li>Static Routes</li> <li>IPSec VPN</li> <li>NAT</li> </ul>

## 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.
- Bluecoat conversion supports FortiProxy mode which the generated CLI would be slightly different to FortiGate mode.

## FortiADC conversions (Beta feature)

Vendor	Models	Versions	Convertible Objects
<b>F5</b>	BIG-IP	TMSH 12.x	<ul style="list-style-type: none"><li>• Nodes</li><li>• Pools</li><li>• Virtual addresses</li><li>• Virtual servers</li></ul>
<b>Radware</b>	Alteon	30.x	<ul style="list-style-type: none"><li>• Real servers</li><li>• Server groups</li><li>• Virtual servers</li></ul>

## Resolved issues

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

Bug ID	Description
0983038	Add a warning message for the destination address of policy46
0980744	Add content calculation to Checkpoint service overlap calculation
0977399	Palo Alto: fixed nat merge failure
0979863	Checkpoint: convert to default proposal if the source proposal is not supported in fortigate
0979421	Palo Alto: extract ldap server from template
0980721	Sophos XG: extract service from policies external port
0976902	FortiConverter Tool: increase buffer size for router policy settings
0979030	[NFR]-Juniper SSG: DNS support
0979232	WatchGuard: fixed tunnel interface parsing bug
0985295	Checkpoint: set dstintf in policy can select the correct interface object in the policy
0986474	PaloAlto: 1. add app id mapping 2. remove unmapped application from policy
0986232	[NFR]- Forcepoint SS: policy route support
0981762	Palo Alto: Remove unused tunnel interfaces and add error message for unconverted global protect gws.
0986230	Sophos XG: fix vip mappedip bug
0979241	Sophos XG & WatchGuard: set ssl vpn setting interface and src addr to default value
0982465	Palo Alto: removed the deleted interfaces from system zones and added warning messages
0986870	ForcePoint SS: add support of keyword ldap_server
0987449	Palo Alto: NAT conversion issue in parsing IP subnet addresses and Identical NAT conversion
0986910	Sophos XG: fix sw member mapping issue
0990193	Sonicwall: set the LDAP user name to UTF-8
0978172	Converter: change auth-type to authen-type for tacacs+ user
0978217	Converter: fix onetime schedule generation issue
0986950	[NFR]- Sophos XG: Add snmp support
0986908	Sophos: Added hardware-switch interfaces into the interface mapping page

## Resolved issues

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Bug ID	Description
<b>0990693</b>	Cisco: fixed snmp-server host configuration conversion issue

## 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](mailto:fconvert_feedback@fortinet.com).

Bug ID	Description
<b>0958992</b>	FortiGate to FortiGate conversion switch port speed and status settings not migrated
<b>0990302</b>	SonicWall: tool should generate separate "global" folders/files when its vdom conversion
<b>0990317</b>	SonicWall: Site to site and vap-switch interfaces are listed as physical interfaces
<b>0989765</b>	SonicWall: config user group issue
<b>0979504</b>	Palo Alto Networks: config service custom block issue
<b>0979709</b>	Juniper: Static routes are not present in correct VDOMS by the tool
<b>0990354</b>	Cisco: IPsec VPNs FW policy Conversion issue
<b>0984219</b>	SonicWall: Tool is unable to handle the special characters and not trimming the objects
<b>0980812</b>	Checkpoint: Undefined interface reference should be removed in central SNAT and Policy
<b>0990494</b>	Palo Alto Networks: "firewall" missing in "config firewall service custom"



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