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# FortiConverter - Release Notes

Version 7.0.5



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# Introduction

This document provides installation instructions and requirements, resolved issues, and known issues for FortiConverter 7.0.5, build 0326.

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, Zscaler, Ivanti and FortiGate configurations.

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

In addition, FortiConverter can convert Snort IPS rules to custom signatures, Bluecoat proxy, and IBM IPS sensor.

In this release, Zscaler conversion is introduced to FortiConverter, and address and service conversions are both supported. Ivanti conversion is also introduced, and address, service, policy and user group conversion are all supported. F5 conversion is enhanced and can be converted into FortiWeb commands now.

Since FortiOS 7.6.0, SSL VPN has been removed from FortiGate 40F, 60F and some other models. Hence the old devices which migrate to those models using FortiOS 7.6.0 should convert their SSL VPN settings into IPSec VPN settings. This conversion is added into FortiConverter now.

To avoid security issues, FortiConverter has upgraded the PostgreSQL database to version 16.2. The conversion data saved in PostgreSQL 12 in the older versions of FortiConverter can be migrated into PostgreSQL 16 data.

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:

- Supports converting Zscaler configuration.
- Supports converting Ivanti configuration.
- Supports converting F5 configuration into FortiWeb configuration.
- Supports converting SSL VPN settings into IPSec VPN settings in FortiGate configuration.
- Upgraded PostgreSQL database to version 16.2.

## 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>
		5.2/6.x/7.x	
Nexus	5.2/6.x/7.x	<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>	
Meraki	N/A		
<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>Ivanti</b>		N/A	<ul style="list-style-type: none"> <li>Addresses</li> <li>Services</li> <li>User groups</li> <li>Policies</li> </ul>
<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</li> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>Groups</li> <li>• Policies</li> <li>• VIPs/MIPs</li> <li>• NAT</li> <li>• IP Pools</li> <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> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <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> <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> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>• Policies</li> <li>• Schedules</li> <li>• Services &amp; Service Groups</li> <li>• Static Routes</li> <li>• Zones</li> <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> </ul>

Vendor	Models	Versions	Convertible Objects
			<ul style="list-style-type: none"> <li>IPSec VPN</li> <li>NAT</li> </ul>
<b>Zscaler</b>		N/A	<ul style="list-style-type: none"> <li>Addresses &amp; Address Groups</li> <li>Services</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>		N/A	<ul style="list-style-type: none"> <li>Nodes</li> <li>Pools</li> <li>Virtual addresses</li> <li>Virtual servers</li> <li>Server policies (FortiWeb only)</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
994878	Checkpoint: Translated services are not called in firewall policies created by DNAT
996814	Checkpoint: Need to consider original and translated service when creating no NAT rule for SNAT-map
1004942	support PAN double nat case which is not handled correctly
1008013	PAN: Static Route conversion is not accurate
1015931	Cisco: Twice NAT Syntax is not converted correctly
1015933	Cisco: Unidirectional NAT is not being fully converted
1017856	Cisco: IPSec Phase-2 split not working
1018343	Cisco: Services are not referenced in firewall policy
1021691	Checkpoint: Create group for FQDN objects from json
1025606	Checkpoint: Inline layer policies are not converting correctly.
1027948	Add support for SSL VPN to IPSec VPN conversion
1030927	Forcepoint: MSS values per firewall policy should be converted
1036324	PfSense - central NAT rules not converted in pfSense conversion.
1037948	Forcepoint: Converted objects not referenced in firewall policies.
1037950	Forcepoint: Port translation for VIP is not working.
1037957	Forcepoint: SNAT based on dst-ports is not converting
1044185	FG3200F model is missing from target device

## 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
1033721	PfSense - FCON tool hit with parser error for PfSense Netgate source config.
1033694	The tool is creating duplicate entry of virtual-switch for fgt-fgt conversion
1033037	Portrange cant be set for mapped port in firewall vip
1033418	For ngfw-policy mode tool should add default SSL VPN firewall policy if VPN SSL settings are defined
1033335	Sonicwall: new line character is added in user group name
1033033	Mapped port not converted for vip for juniper SSG
1032608	PAN-Subnet mask can be removed from router static gateway
1032606	PAN-Service grp failed as it have the same service name
1032175	PfSense: Tool is creating incorrect dst address
1031732	PAN- Application obj csv not converted to services in policies
1031724	PfSense: custom service protocol is empty
1031693	Pfsense: source-interface is incorrect in config vpn ssl settings
1030191	Cisco-from "config user local" tool needs to add placehoder for mandatory config "set ldap-server" object name exceeds 35 chars
1028097	Users has been set instead of group
1025866	Cisco-Interface is missed in the interface tuning section as address name is specified instead of ip address
1025786	Cisco ASA: Special Characters in contact-info under config system snmp sysinfo to be removed
1021695	Cisco - Source interface like Ehternet0/5 and Ehternet0/6 are still present as a part of switch
1024777	PAN - conversion failed with list index out of range
1023875	Forticonverter tool is showing duplicate entries of policies.
1023798	Remove some special characters from firewall address name

Bug ID	Description
1022841	Firewall policies for dstaddr has been set as "Blacklist-IP" instead of "g-Blacklist-IP"
1022447	SSL VPN group name should also have the option to trim group name



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