



FortiWAN Release Notes

Version v5.2.0

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FortiWAN v5.2.0 Release Notes

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Change log

Date	Change Description
4/1/2019	FortiWan 5.2.0 Initial Release
1/22/2018	FortiWAN 5.1.2 Initial Release

Introduction

This document covers the main features, installation instructions, and known issues for the v5.2.0 release.

FortiWAN is a Link Load Balancing, Multi-Homing, and Tunnel Routing system that distributes outbound and inbound internet traffic across multiple WAN links of differing technologies as well as builds multi-link VPNs between sites.

The FortiWAN E-series features a new design and operating system (OS) which offers a faster and more configurable product that works in conjunction with the FortiWAN Controller to meet your SD-WAN needs.

Build number 0367.

Main Features

This section highlights the main features of the FortiWan v5.2.0 release.

Supports new hardware model 1000E

FortiWAN v5.2.0 supports a new hardware model, 1000E, which has 4x 1G Copper, 4x 1G SFP and 2x 2 10G SFP+.

For guidance on the FortiWAN 1000E installation process, refer to the 1000E Quick Start Guide (QSG) on <https://docs.fortinet.com/product/fortiwan/> > Search Hardware > (drop down) 1000E QSG.

Supports KVM/Xen/Hyper-V

Besides VMWare ESXi, FortiWAN v5.2.0 also supports deploying VM instances to more hypervisors, including KVM, OpenXen and Hyper-V.

For guidance on the FortiWAN-VM installation process, refer to the FortiWAN-VM Installation Guide [here](#).

Supports 4G LTE modem as WAN link

FortiWAN v5.2.0 supports a single USB 4G modem as WAN link.

Typical QMI and cdc_ether driven USB modems are supported, including several popular products: D-Link DWM-222, Huawei E3372h-607, Huawei EB372h-155.

For more detail information please contact Fortinet support team.

Supports packet-based tunnel load balancing

Traditional link-load-balance algorithms are based on sessions, meaning, once a session is established, the subsequent packets will be forwarded by the fixed egress link that was selected for the first packet, thereby not using other links.

With the per-packet based load balancing, v5.2.0 will select an egress link for each packet, thus better utilizing the bandwidth of all tunnel links in a specific link-group thus to improve the effectivity.

Supports Fast & Quality route algorithm

Supports new algorithms for link selection, based on the lowest latency or lowest retransmit ratio.

Supports benchmark test on IPSec links and link groups

Adds CLI commands and GUI to run performance test on a single IPSec tunnel or links in a specific link group. System will generate traffic and calculate the round-trip time, packet loss rate and bandwidth to let users better know the current situation of the link or link-group.

Supports manually clear session

Adds command to show and clear filtered or all current sessions.

Supports more diagnose tools

Adds diagnose command to advertise ARP and detect IP conflict.

Upgrade notes

FortiWAN & Controller compatibility

If FortiWAN 5.2.0 is deployed, Controller 1.5.0 (or above) is required.

Supported hardware models & VM

The FortiWAN 5.2.0 release supports the following platforms:

- FortiWAN 30E
- FortiWAN 200E
- FortiWAN 1000E
- FortiWAN HyperV
- FortiWAN KVM
- FortiWAN VM
- FortiWAN XENOPEN
- FortiWAN XENSERVER
- These virtual platforms share the same range of VM licenses that determine the allotted bandwidth (10Mbps, 20Mbps, 50Mbps, 100Mbps, 200Mbps, 500Mbps, 1000Mbps, 2000Mbps)

Installation instructions

For guidance on the FortiWAN 30E, FortiWAN 200E, or FortiWAN 1000E installation process, refer to the Quick Start Guide (QSG).

For guidance on the FortiWAN-VM installation process, refer to the FortiWAN-VM Installation Guide.

Resolved Issues

Bug ID	Description
534731	DHCP Server allocated duplicate IP when using static-mapping function.

Known issues

The following issues have been identified in this release. For inquiries about a particular bug or to report a bug, contact [Fortinet Customer Service & Support](#).

Bug ID	Description
484109	<p>The FortiWAN boot-up process may slow down if you have more than 1024 firewall rules configured.</p> <p>Workaround: To prevent a slowdown, do not add more than 1024 firewall rules.</p>
484657	<p>When updating the number of connection limits in a connection-limit policy, the new policy will not apply to older existing connections. The updated connection-limit policy will only apply to new connections.</p> <p>Workaround: Once the old connections expire or disconnect, the connection number will be accurately limited by the policy.</p>
499016	<p>If you use IKEv1, FortiWAN cannot establish multiple VPN tunnels with the same remote IP while using different local IP addresses.</p> <p>Workaround: If multiple IPsec tunnels are needed, use IKEv2 instead.</p>
502556	<p>Data connections will not be established if the Virtual Server is configured with non-21 ports for FTP. This is currently a limitation as FortiWAN only supports standard port 21 for FTP application in Server Load Balance.</p>
502848	<p>The GLB function will not work when a FTP virtual server with port 21 is configured.</p> <p>Workaround: Do not configure FTP Server Load Balance if you need to use the GLB function.</p>
505926	<p>The GLB function may not respond if more than 96 members are configured in one virtual-server pool.</p> <p>Workaround: To prevent this issue from occurring, do not add more than 96 members per virtual-server pool.</p>
514604	<p>The FortiWAN boot-up process may slow down if you have more than 1024 VLAN interfaces configured.</p> <p>Workaround: To prevent a slowdown, do not add more than 1024</p>

Bug ID	Description
537151	VLAN interfaces. Indicators of FWN-1000E's fiber ports still light up when cables are connected but status is set to down via CLI Workaround: NIC driver behavior
538642	FWN-1000E can't detect fiber SPF if system boots up with copper SFP plugging in port5-8 Workaround: NIC driver behavior; rebooting the box will resolve the issue



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