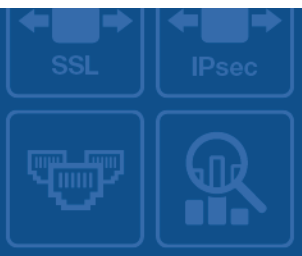
FortiCarrier - Release Notes

v5.4.2 Build 012



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Email: techdoc@fortinet.com

June 19, 2019

FortiCarrier 5.4.2 Build 012 Release Notes

36-542-543973-20190619

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Change log

Date	Change description
June 19, 2019	New feature added New features on page 1.
May 13, 2019	Initial release

Introduction

This document provides the following information for FortiCarrier 5.4.2 build 012.

Supported models

FortiCarrier 5.4.2 build 012 supports the following models:

- FortiCarrier-3600E
- FortiCarrier-3800E

New features

The following list of features and enhancements are changes for FortiCarrier 5.4.2, build 012.

- Support for connecting a QSFP28 to CFP2 convertor between a FortiCarrier-3800E QSFP28 interface and a CFP2 interface of another device. To effectively support this or some other types of connections, you may need to disable forward error checking (FEC) if the device you are connecting to does not support FEC. You can use the following new commands to enable or disable FEC:
  ```
  config system cgn_hw_cfg misc
     set ce0_fec {disable | enable}
     set ce1_fec {disable | enable}
  ```
  end
  set `ce0_fec` and `ce1_fec` to `disable` if required to successfully use a QSFP28 to CFP2 convertor to connect to a device that does not support FEC on the interface that you are connecting to.
- The FortiCarrier-3800E improves IPv6 support for RADIUS Single Sign-On (RSSO) configurations by supporting the use of Delegated-IPv6-Prefix and Framed-IPv6-Prefix options. IPv6 prefixes in RSSO allows all devices connected from the same location (/56 per subscriber) to be mapped to the same profile without creating multiple /64 or smaller entries. This could be done in IPv4 with small /29 subnets allocated to customers, but its not practical for IPv6 because the IPv6 address space is too large. The Delegated-IPv6-Prefix and Framed-IPv6-Prefix attributes allow you to define a scope of IPv6 addresses.
- FortiCarrier supports QSFP+ 40Gbps on ports 33 and 34. You can enter the following command to enable this feature:
  ```
  config system global
    set qsfp28-40gbe {disable | enable}
  end
  ```
  The `qsfp28-40gbe` option is disabled by default. Enabling this option causes the FortiCarrer to restart so you should make this change during a maintenance window.

- FortiCarrier generates an SNMP trap and a log message when IP Pool usage goes above the `utilization-alarm-raise` threshold or goes below the `utilization-alarm-clear` threshold. When setting up an IP Pool, you can use the following options to change these thresholds:

```
config firewall ippool
  edit <name>
    set utilization-alarm-raise <50-100>
    set utilization-alarm-clear <40-100>
  end
```

- Flow Processing Unit (FP1) port-randomization and DSE-priority fixes.

Other fixes and new features include:

- Support for ECMP routs for traffic passing through FortiCarrier private interfaces (interfaces connected to private networks).
- Policy based routing support.
- Minor IP-pool-related fixes to the FortiCarrier MIB file.
- Ternary content-addressable memory (TCAM) rules can use a VLAN range instead of an exact match with a single VLAN.
- Diagnose commands now display rule verifications performed by the TCAM memory process (`tcamd`).
- You can now list all TCAM routes.
- You can configure HA-talk affinity.

Upgrade information

FortiCarrier 5.4.2 build 012 supports upgrading from FortiCarrier 5.4.1.

Resolved issues

The following tables list the issues that have been resolved for FortiCarrier 5.4.2 build 012. For inquires about a particular bug, please contact Customer Service & Support.

Bug ID	Description
519211	Resolved an issue that affected DOS policies for VLAN interfaces.
467652	Improved handling of SIP and H323 traffic.
527528	Resolved an issue with how FortiCarrier handled ECMP route changes.
535567	Resolved an issue that prevented modifying address groups.
541534	Resolved an issue that prevented the Flow Processing Unit from properly handling TCP loopback traffic.