



# Ruckus Wireless™ ZoneDirector™ Version 9.13.3 Refresh 2

## Release Notes

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# About This Release

# 1

## Introduction

This document provides release information on ZoneDirector release 9.13.3, including new features, enhancements, known issues, caveats, workarounds, upgrade details and interoperability information for version 9.13.3.

**NOTE:** By downloading this software and subsequently upgrading the ZoneDirector and/or the AP to version 9.13.3, please be advised that:

- The ZoneDirector will periodically connect to Ruckus and Ruckus will collect the ZoneDirector serial number, software version and build number. Ruckus will transmit a file back to the ZoneDirector and this will be used to display the current status of the ZoneDirector Support Contract.
- The AP may send a query to Ruckus containing the AP's serial number. The purpose is to enable your AP to autonomously connect with a wireless LAN controller operated by your choice of cloud service provider. Ruckus may transmit back to the AP, the Fully Qualified Domain Name (FQDN) or IP address of the controller that the AP will subsequently attempt to join.

Please be advised that this information may be transferred and stored outside of your country of residence where data protection standards may be different.

# Supported Platforms and Upgrade Information

# 2

## Supported Platforms

ZoneDirector version **9.13.3.0.106** supports the following ZoneDirector models:

- ZoneDirector 1200
- ZoneDirector 3000
- ZoneDirector 5000

## Access Points

ZoneDirector version **9.13.3.0.106** supports the following Access Point models:

- C110
- H500
- H510
- R300
- R310
- R500
- R510
- R600
- R610
- R700
- R710
- T300
- T300e
- T301n
- T301s
- T610
- T610s
- T710

- T710s
- ZF7055
- ZF7352
- ZF7372
- ZF7372-E
- ZF7781CM
- ZF7782
- ZF7782-E
- ZF7782-N
- ZF7782-S
- ZF7982

## EoS (End of Sale) APs

The following AP models have reached end-of-sale (EoS) status and, therefore, are no longer supported in this release. If your ZoneDirector is currently managing any of these models, a warning will appear when you attempt to upgrade.

If your ZoneDirector is currently managing any of these models, do NOT upgrade to this release. ZoneDirector will be unable to manage them.

- 7321
- 7321-U
- 7441
- 7761-CM
- 7762 series
- 7363
- 7343
- 7341
- sc8800-s
- sc8800-s-ac

# Upgrading to This Version

This section lists important notes on upgrading ZoneDirector to this version.

## Officially Supported 9.13.3 Refresh Upgrade Paths

The following ZoneDirector builds can be directly upgraded to ZoneDirector build 9.13.3.0.106:

- 9.10.0.0.218 (9.10 GA)
- 9.10.1.0.59 (9.10 MR1)
- 9.10.2.0.11 (9.10 MR2)
- 9.10.2.0.29 (9.10 MR2 Refresh)
- 9.12.0.0.336 (9.12 GA)
- 9.12.1.0.140 (9.12 MR1)
- 9.12.1.0.148 (9.12 MR1 Refresh)
- 9.12.2.0.101 (9.12 MR2)
- 9.12.2.0.204 (9.12 MR2 Patch)
- 9.12.2.0.219 (9.12 MR2 Refresh)
- 9.12.3.0.28 (9.12 MR3)
- 9.12.3.0.34 (9.12 MR3 Refresh)
- 9.13.0.0.232 (9.13 GA)
- 9.13.1.0.11 (9.13 MR1)
- 9.13.1.0.26 (9.13 MR1 Refresh)
- 9.13.2.0.33 (9.13 MR2)
- 9.13.3.0.22 (9.13 MR3)
- 9.13.3.0.41 (9.13.3 MR3 Refresh 1)

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**NOTE:** If you do not have a valid Support Entitlement contract, you will be unable to upgrade ZoneDirector to this release. See *Administer > Support* page for information on Support Entitlement activation.

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If you are running an earlier version, you must first upgrade to one of the above builds before upgrading to this release.

# Enhancements and Resolved Issues

# 3

This section lists new features and enhancements that have been added in this release and resolved issues from previous releases.

## New Access Points

- New Access Point: C110

The C110 is a new 802.11ac dual-band concurrent wall plate cable modem AP. Designed to be installed in an outlet box with a coaxial cable termination, the C110 features a DOCSIS/EuroDOCSIS 3.0 cable modem for backhaul, a USB port for uses such as a BLE dongle or other IoT applications, and two RJ-45 LAN ports for in-room wired Ethernet access.

- New Access Point: T610 and T610s

The T610 is a carrier-grade 802.11ac Wave 2 outdoor AP designed for enterprise and service provider outdoor WLAN applications. The T610 includes dual radios with 4x4:4 spatial streams, two 10/100/1000 Ethernet ports (one port supports PoE input), and 802.1ax Ethernet port aggregation. The T610 also includes a USB port for BLE Smart Beacon, Zigbee or other IoT devices.

The T610s is the sector antenna version of the T610. It includes all of the same features as the T610.

## Resolved Issues

- Resolved a security issue related to Redhat CVE-2016-5195. For information on security incidents and responses, see <https://www.ruckuswireless.com/security>. [ER-4687]
- Resolved several Ruckus Cloud security issues. For information on security incidents and responses, see <https://www.ruckuswireless.com/security>. [ER-4697, ER-4555, ER-4560]
- Resolved a kernel memory leak issue on APs that would eventually lead to reboots due to watchdog timeout. [ER-3544]



- Guest Pass keys are no longer incorrectly displayed on the screen when the Notification Method is set to “Mobile” and not “Show on Screen.” [ER-3188]
- Resolved an issue that could cause ZD-controlled ZF 7372 APs to reboot due to watchdog timeout. [ER-1922]
- Resolved an issue where IPTV connected to AP may experience pixelation due to packet loss on eth0 interface. [ER-4038]
- Resolved an issue with printing multiple Guest Passes at once, where the printout would incorrectly show “invalid date” for the expiration date. [ER-4724]
- Resolved an issue with cloning L3/L4/IP address ACLs that would prevent the user from replicating an existing ACL successfully. [ER-4792]
- Resolved an Ethernet port stuck issue on R510 APs that could cause the APs to reboot and disconnect from the controller. [ER-4685]
- Resolved an issue that could cause ZF7781-CM APs to reboot continuously with the message “reset to factory defaults.” This fix enables the AP to detect the condition and reboot to recover when this condition occurs. [ER-4689]

## Resolved Issues in Build 41

- Resolved an issue that could cause the ZoneDirector web interface to become unresponsive and new clients unable to connect when very large numbers of 802.1X clients attempted to authenticate at the same time. [ZF-16335, ER-4712]
- Resolved an issue that could cause ZoneDirector 5000 web process failure, resulting in failover to the standby ZoneDirector. [ER-4123, ER-5003]
- Resolved an issue with printing multiple Guest Passes at once, where the printout would incorrectly show “invalid date” for the expiration date. [ER-4724]
- Resolved an issue where R710 Root APs would be incorrectly categorized as Mesh APs when Link Aggregation was enabled and in Auto mode. [ER-4616]
- Improved handling of LWAPP packets to reduce errors due to ZoneDirector unexpectedly receiving certain kinds of LWAPP packets. [ER-4793]
- Added language translations for Self-Service Guest Pass UI pages. New languages include Dutch, German, Japanese, Swedish, Arabic, Czech, Turkish, and Brazilian Portuguese. [ER-4956]
- Resolved a “Terms of Use” display issue. [ER-4975]
- Resolved an issue where, in dense environments, sometimes the AP sent an incorrect number of associated client events to the controller. [ER-4844]

- Resolved an issue that could cause clients configured with static IP addresses to be incorrectly displayed as automatically assigned DHCP addresses. [ER-5027]
- Resolved an ARP table leak issue that could prevent clients from completing hotspot authentication after ZoneDirector had been running for a long time. [ER-5041]
- Resolved an R710 “target fail detected” issue. [ER-4982]
- Upgraded Dropbear version to 2016.74 to address security vulnerabilities. [ER-5033]

## Resolved Issues in Build 106

- Fixed an AP reboot issue caused by corruption of beacon buffer. [ER-4212]
- Resolved an issue where new APs locked to country code Z2 would fail to join a ZoneDirector configured with country code Egypt. [ER-5308]
- Resolved an issue where LLDP settings would be overwritten after upgrading from 9.8.1. With this fix, ZoneDirector will now by default configure APs' LLDP settings as “Keep AP setting” to prevent overwriting the existing settings. [ER-5106]
- Resolved an issue where the following erroneous error message would recur every hour: “Radius server [ ] has not responded to multiple requests. [This server may be down or unreachable.]” [ER-5122]
- Resolved an issue with an 'X-Frame Options Header Not Set' configuration error reported by Nessus. [ER-4966]
- Resolved an issue that could cause incorrect user name data to be sent in RADIUS accounting packets under specific circumstances. [ER-5315]
- Resolved an issue where both Ethernet ports on the C110 Cable Modem AP could not be configured as Access Ports with wired 802.1x authentication enabled. [ER-5244]
- Double colons “::” can now properly be used in IPv6 addresses when creating IPv6 ACLs from the web interface. [ER-5182]
- Resolved an LLDP MAC address issue. [ER-5228]
- Resolved a device fingerprinting issue where Ubuntu clients would fail to be categorized as Linux OS clients. [ER-5121]

- Resolved an issue where, if Force DHCP was enabled, clients would be de-authenticated after roaming to another AP if the VLAN after roaming was the same as the previous VLAN. [ER-4992]
- Resolved an issue with excessive “ieee80211\_vlan\_clr\_filter” error messages sent to syslog. [ER-5065]
- Resolved an issue where an AP could fail to stay on a statically configured channel. [ER-5074]
- Resolved an R700 Target Assert failure issue occurring on multiple APs. [ER-4971]
- Resolved an issue with excessive AP-to-AP ARP traffic causing network congestion in high-density settings where port isolation rather than fast roaming is used. [ER-5138]

# Caveats, Limitations, and Known Issues

# 4

This section lists the caveats, limitations, and known issues in this release.

## Known Issues

### General

- C110 stops sending packets in testing when using an Ethernet port as the uplink and pushing 60-80Mbps tunneled traffic to ZoneDirector. This issue should have no customer impact since the C110 typically uses its coaxial cable port as its uplink. [ZF-16212]
- C110 Cable Modem IP address is displayed incorrectly on ZoneDirector monitoring pages when the CM is assigned an IPv6 address. [ZF-16183]
- T610 USB Port status is displayed incorrectly on ZoneDirector monitoring pages when the AP is in 802.3af PoE mode. [ZF-16278]



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