RELEASE NOTES

Ruckus ZoneDirector 10.1.2 Refresh 2 Release Notes

Supporting ZoneDirector 10.1.2 Refresh 2

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About This Release

This document provides release information on ZoneDirector release 10.1.2, including new features, enhancements, known issues, caveats, workarounds, upgrade details and interoperability information for version 10.1.2.

NOTE
By downloading this software and subsequently upgrading the ZoneDirector and/or the AP to version 10.1.2, 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

Supported Platforms

ZoneDirector version **10.1.2.0.251** supports the following ZoneDirector models:

- ZoneDirector 1200
- ZoneDirector 3000

NOTE
ZoneDirector 5000 is discontinued as of release 10.1, and cannot be upgraded to version 10.1 or later.

Access Points

ZoneDirector version **10.1.2.0.251** supports the following Access Point models:

Indoor AP	Outdoor AP
C110	E510
H320	T300
H500	T300e
H510	T301n
R300	T301s
R310	T310c
R500	T310d
R510	T310n
R600	T310s
R610	T610

Indoor AP	Outdoor AP
R700	T610s
R710	T710
R720	T710s
R730*	ZF7781CM
ZF7055	ZF7782
ZF7352	ZF7782-E
ZF7372	ZF7782-N
ZF7372-E	ZF7782-S
ZF7982	

NOTE
This release adds support for new AP: R730.

Upgrading to This Version

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

Officially Supported Upgrade Paths

The following release builds can be directly upgraded to this version:

- 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 MR3 Refresh)
- 9.13.3.0.106 (9.13 MR3 Refresh 2)
- 9.13.3.0.121 (9.13 MR3 Refresh 3)
- 9.13.3.0.133 (9.13 MR3 Refresh 4)
- 9.13.3.0.145 (9.13 MR3 Refresh 5)
- 9.13.3.0.157 (9.13 MR3 Refresh 6)
- 9.13.3.0.164 (9.13 MR3 Refresh 7)
- 10.0.0.0.1424 (10.0 GA)
- 10.0.1.0.17 (10.0 MR1)
- 10.0.1.0.35 (10.0 MR1 Refresh)
- 10.0.1.0.44 (10.0 MR1 Refresh 2)
- 10.0.1.0.61 (10.0 MR1 Refresh 3)
- 10.0.1.0.83 (10.0 MR1 Refresh 4)
- 10.1.0.0.1515 (10.1 GA)
- 10.1.1.0.26 (10.1 MR1)
- 10.1.1.0.35 (10.1 MR1 Refresh)

- 10.1.1.0.42 (10.1 MR1 Refresh 2)
- 10.1.1.0.55 (10.1 MR1 Refresh 3)
- 10.1.1.0.62 (10.1 MR1 Refresh 4)
- 10.1.1.0.79 (10.1 MR1 Refresh 5)
- 10.1.2.0.120 (10.1 MR2)
- 10.1.2.0.210 (10.1 MR2 Refresh 1)

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

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

Enhancements and Resolved Issues

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

Enhancements and New Features

This section lists the new features and enhancements in this release.

New Access Points

- New Ruckus Access Point: R730

  This release adds native support for the R730 dual-band 802.11ax indoor access point.

  The R730 is the first Ruckus access point based on the 802.11ax standard, the next generation Wi-Fi standard supporting peak PHY rates up to 10 Gbps. The R730 features one 5 Gbps PoE+ (802.3at/at+) Ethernet port, one 1 Gbps non-PoE port, and a USB port for IoT applications.

Resolved Issues in Build 251

- Resolved an AP issue with Vietnam country code where DFS channels were not listed in the supported channel list. [ER-7268]
- Resolved an issue where multicast traffic unexpectedly dropped for wireless clients associated with Open/None WLANs with tunnel enabled. [ER-7291]
- Resolved a kernel panic issue on APs located in high density environments when associated wireless clients were frequently roaming in and out of range. [ER-6689]
- Resolved an issue that rogue device reporting did not work properly when the SSID name was configured as a non-English name. [ER-6248]
- Resolved an AP issue with Singapore country code where DFS channels were not listed in the supported channel list for certain AP models. [ER-7247]
- Resolved an issue where the "Remarks" column did not display correctly on the "Generated Guest Pass" web page. [ER-7257]
- Resolved an issue on 11ac Wave 1 APs where unsupported data rates were used to send the first data packet to a wireless client over the 5 GHz radio. [ER-7018]

- Resolved an issue where the incorrect redirection URL was sent for guest authentication by ZoneDirector if the "domain" field was not set in the uploaded certificate. [ER-7156]
- Resolved an issue where AeroScout and Ekahau features would not work with R730 Access Points. [ER-7088]
- Resolved an issue where 11ax capable clients with Draft 3.0 standard would experience low throughput with R730 Access Points. [ER-7143]
- Resolved an AP issue related to DFS for CAC waiting and radar detection reporting. [ER-6437]
- Resolved an issue on R310 APs where the 5G radio would not function properly in 20 MHz channelization mode. [ER-6969]

Caveats, Limitations and Known Issues

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

General

- Apple iOS and Mac clients fail to authenticate to an 802.1X WLAN when 802.11w MFP is enabled and set to Required. [ZF-19239]
- Windows laptops with Intel wireless cards do not show SSIDs of APs advertising 11ax capability in their scan report, and users therefore cannot connect to an 11ax capable AP.

  Workaround: The latest Intel drivers address this issue, a driver upgrade is recommended.

  NOTE
  See the following URLs for Intel PROSet wireless drivers:
  - Windows 7: *https://downloadcenter.intel.com/download/27748/Wireless-Intel-PROSet-Wireless-Software-and-Drivers-for-Windows-7-?product=59485*
  - Windows 8.1: *https://downloadcenter.intel.com/download/27749/Wireless-Intel-PROSet-Wireless-Software-and-Drivers-for-Windows-8-1-?product=59485*
  - Windows 10: *https://downloadcenter.intel.com/download/27750/Wireless-Intel-PROSet-Wireless-Software-and-Drivers-for-Windows-10?product=59485*

- Apple iOS devices are unable to get an IP address with DPSK key if 802.11w is optional. [ZF-19822]

R730 Feature Limitations

The following R730 AP features are unsupported in this release:

- MU-MIMO
- ATF/BSSP
- OFDMA
- 160 Mhz change to 160/80+80 MHz BW on 5G radio
- MESH
- Auto Cell Size
- Transient Client Management
- Airtime Decongestion

- LACP
- Onboard BLE/Zigbee is not supported
- TxBF
- Spectrum Analysis

R730 Power Modes

The R730 can be powered by 48V DC power, or 802.3at or 802.3at+ PoE (Power over Ethernet) switch or PoE injector. 802.3af PoE is *NOT* supported. Refer to the following table for power modes supported, and AP limitations when powered with sub-maximum power supply.

NOTE
The 5 Gbps PoE In port supports auto-negotiation with support for the following speeds: 100/1000/2500/5000 Mbps.

NOTE
The PoE switch port must run link layer discovery protocol (LLDP) power over Ethernet/MDI (PoE+) in order for the R730 to operate in full-power mode. This may require enabling both LLDP and Power via MDI (dot3) on the switch, if available.

Power Mode	2.4 GHz Radio		5 GHz Radio		5 Gbps Eth Port	1 Gbps Eth Port	USB Port	Comments
	Tx/Rx chains	Tx/Rx streams	Tx/Rx chains	Tx/Rx streams				
DC	4/4	4/4	8/8	8/8	Enabled	Enabled	Enabled (3W limit)	Requires 35W power
802.3af PoE **(not supported)**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**Not Supported**
802.3at PoE switch	4/4	4/4	4/8	4/4	Enabled	Disabled	Enabled (0.5W limit)	
802.3at+ PoE switch	4/4	4/4	8/8	8/8	Enabled	Enabled	Enabled (3W limit)	Requires 35W power
PoE injector Model GRT-480125A (In GUI select POE operation mode = AT+)	4/4	4/4	8/8	8/8	Enabled (1 Gbps speed)	Enabled	Enabled (3W limit)	Injector model GRT-480125A is rated only for 1Gbps speed. If POE operating mode = Auto, POE injector will power AP in AT mode only.

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