



Ruckus Wireless™ Access Point Version 100.1.0.0.194

Release Notes

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Contents

1	About This Document	
	Supported Access Points	7
	Highlights of this Release	9
	Supported Country Codes	10
2	Notes on AP Firmware Operation	
	Controller-Managed Operation	11
	Case 1: AP Controller Discovery using L2 Subnet	12
	Case 2: Connecting an AP to a Controller using DHCP Option 43	13
	Case 3: Connecting an AP to a Controller using DNS	13
	Case 4: Manually Setting the Controller IP Address in the AP Web Interface	14
	Standalone AP- or FlexMaster-Managed Operation	14
3	Supported Devices, Services and Firmware	
	Access Point Models	15
	ZoneDirector (ZD) Controllers	16
	FlexMaster (FM) Managers	16
	SmartCell Gateway (SCG) Controllers	16
	virtual SmartCell Gateway (vSCG) Controllers	17
	SmartZone (SZ) Controllers	17
	Smart Access Management service (SAMs) Controllers	17
4	Upgrade Information	
5	Enhancements and Resolved Issues	
	Enhancements	19
	Resolved Issues	20
6	Caveats, Limitations and Known Issues	
7	Interoperability Information	
	Operating Systems	22
	Web Browsers	23

Appendix: Zone 2 APs

About This Document

1

These release notes describe the new features available in version 100.1.0.0.194 of the Ruckus Wireless base image access points (APs). Different AP SKUs are no longer required for compatibility with different Ruckus Wireless controllers or managers.

This document assumes familiarity with the Ruckus ZoneFlex (ZF), ZoneDirector (ZD), SmartCell Gateway (SCG), virtual SmartCell Gateway (vSCG), SmartZone (SZ), Smart Access Management service (SAMs), and FlexMaster (FM) product lines and the features of earlier releases.

This document covers Ruckus Wireless access points configured with version 100.1.0.0.194 base image. For version information about ZD, SCG, vSCG, SZ, and SAMs controllers, as well as FM managers, please refer to their respective Release Notes.

This document includes enhancements and resolved issues, known issues, caveats, workarounds, upgrade details and interoperability information. The version 100.1.0.0.194 APs include ZF APs and SmartCell APs.

NOTE Beginning with 100.0.0 base image access points, the ZF Release Notes (which previously included ZD controllers, FM managers, and ZoneFlex access points) are now divided into separate Release Notes documents.

By downloading this software and subsequently upgrading Ruckus Wireless APs to base image 100.0.0 and later, please be advised that:

- The ZoneDirector periodically connects to Ruckus and Ruckus collects the ZoneDirector serial number, software version and build number. Ruckus transmits a file back to the ZoneDirector and this is 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. This allows your AP to autonomously connect with a wireless LAN controller operated by your choice of cloud service provider. Ruckus may transmit the Fully Qualified Domain Name (FQDN) or IP address of the controller that the AP will subsequently attempt to join back to the AP.
- Please be advised that this information may be transferred and stored outside of your country of residence where data protection standards may be different.

Continue with the following:

- [Supported Access Points](#)
- [Highlights of this Release](#)
- [Supported Country Codes](#)

Supported Access Points

The Ruckus Wireless access points supported by 100.0 base images are listed in [Table 1](#). For information on the Ruckus Wireless access points supported by 9.x and earlier images, contact your sales representative.

NOTE For information on Ruckus Wireless access points supported by SmartCell Gateway (SCG) controllers, virtual SmartCell Gateway (vSCG) controllers, SmartZone (SZ) controllers, ZoneDirector (ZD) controllers, Smart Access Management service (SAMs), and FlexMaster (FM) managers, refer to their respective Release Notes and associated user documents.

Table 1. Ruckus Wireless Access Points and Supporting 100.0.0.0 and Later Base Image Cross-Reference

Supported Access Points (Note 1)	Base Image (√ = supported, -- = not supported)	
	100.0.0	100.1.0
SC8800-S	√	√
SC8800-S-AC	√	√
ZoneFlex 7055	√	√
ZoneFlex 7321	√	√
ZoneFlex 7321-U	√	√
ZoneFlex 7341	√	√
ZoneFlex 7343	√	√
ZoneFlex 7352	√	√
ZoneFlex 7363	√	√
ZoneFlex 7372	√	√
ZoneFlex 7372-E	√	√
ZoneFlex 7441	√	√
ZoneFlex 7761-CM	√	√

Table 1. Ruckus Wireless Access Points and Supporting 100.0.0.0 and Later Base Image Cross-Reference (Continued)

Supported Access Points (Note 1)	Base Image (√ = supported, -- = not supported)	
	100.0.0	100.1.0
ZoneFlex 7762	√	√
ZoneFlex 7762-AC	√	√
ZoneFlex 7762-S	√	√
ZoneFlex 7762-S-AC	√	√
ZoneFlex 7762-T	√	√
ZoneFlex 7781CM	√	√
ZoneFlex 7782	√	√
ZoneFlex 7782-E	√	√
ZoneFlex 7782-N	√	√
ZoneFlex 7782-S	√	√
ZoneFlex 7982	√	√
ZoneFlex H500 (Note 2)	--	√
ZoneFlex R300	√	√
ZoneFlex R500	√	√
ZoneFlex R600	√	√
ZoneFlex R700	√	√
ZoneFlex T300	√	√
ZoneFlex T300e	√	√
ZoneFlex T301n	√	√
ZoneFlex T301s	√	√

Note 1: Contact your sales representative for information on the Ruckus Wireless access points supported by 9.x and earlier images, and for information on Ruckus Wireless access points unsupported by base image 100.0 and later.

Note 2: The H500 is not supported on the ZoneDirector 1100.

Highlights of this Release

AP base image release 100.0.0 introduced a factory configured Ruckus Wireless AP which is compatible with the expanding product line of network controllers and with the new innovative management capabilities of Ruckus Wireless solutions.

The new features and enhancements in this release include:

- New H500 AP support
- FM AP Management support
- SNMP management for standalone operation
- Hotspot/WISPr standalone support
- L2TP tunneling and PPPoE support
- Standalone router mode support
- AP Web UI enhancements
- Zone 2 regulatory regions (refer to [Appendix: Zone 2 APs](#))

AP SKUs with ordering number prefix 901- are now supplied with AP base image release 100.0.0 and later to support discovery with all Ruckus Wireless ZD, SCG, vSCG, and SZ controllers (see [Table 2](#) for details). Once an AP base image discovers and connects to the specific ZD, SCG, vSCG or SZ controller, the AP firmware is updated to a controller-compatible image to ensure simple and reliable operation. The AP base image is optimized for management by the FM management tool and for standalone controller-less operation.

NOTE Once an AP has been updated with a controller-specific image, it does not support standalone operation or a FlexMaster manager.

Controller-specific features and mesh networking capabilities are enabled on the AP when a controller-initiated firmware upgrade is performed as part of the AP-to-controller discovery process.

With the introduction of the AP base image release 100.0.0 and later, AP discovery compatibility is assured with all controller products and software releases, eliminating the need to manage and track compatibility between specific APs model numbers and controller families.

Table 2. Controller- and FlexMaster-Managed Compatibility Matrix

Controller or Manager	Firmware Version
SmartCell Gateway (SCG) controller	RuckOS 2.1 and later (Note 1)
virtual SmartCell Gateway (vSCG) controller	RuckOS 2.5 and later (Note 1)
SmartZone (SZ) controller	RuckOS 3.0 and later
ZoneDirector (ZD) controller	9.10 and later
FlexMaster (FM) manager	9.10 and later
Smart Access Management service (SAMs) controller	Note 2

Note 1: SCG and vSCG controllers must have LWAPP discovery enabled and configured. LWAPP discovery is enabled by default on SCG and vSCG controllers release 3.0 and later. Refer to [Case 1: AP Controller Discovery using L2 Subnet](#) for details.

Note 2: SAMs uses SCG or vSCG controllers, which are automatically managed in the cloud.

Supported Country Codes

Refer to the Ruckus Wireless Price List for available country certifications. Refer to [Appendix: Zone 2 APs](#) for a description of the Zone 2 regulatory regions function.

Starting with version 100.0.0, Ruckus Wireless APs are shipped from the factory with a single firmware image, referred to as the base image. The AP's base image is capable of discovering the Ruckus Wireless controllers listed below. When the AP does not discover any of those controllers, the AP can be operated in standalone mode using the base image.

NOTE APs with the base image (100.0.0 or later) can only operate in standalone mode with or without a FlexMaster manager.

Please refer to the following sections:

- [Controller-Managed Operation](#)
- [Standalone AP- or FlexMaster-Managed Operation](#)

Controller-Managed Operation

The AP is compatible with the SCG, vSCG, SZ, SAMs and ZD controllers listed in [Table 3](#).

When the AP discovers one of these Ruckus Wireless controllers on the network, the AP downloads the associated controller-specific image and replaces the base image.

There are four general cases when working with the AP:

- [Case 1: AP Controller Discovery using L2 Subnet](#)
- [Case 2: Connecting an AP to a Controller using DHCP Option 43](#)
- [Case 3: Connecting an AP to a Controller using DNS](#)
- [Case 4: Manually Setting the Controller IP Address in the AP Web Interface](#)

Case 1: AP Controller Discovery using L2 Subnet

When the AP is powered on and is connected to the same IP subnet as a controller, the AP looks for any SCG, vSCG, SZ or ZD controller. It continues searching for a controller until it finds one, until the Ruckus Wireless AP Registrar service assigns it a controller, or until the installer logs into the AP web interface and configures the controller IP address manually, or until the discovery agents are disabled on the AP.

- **SCG** and **vSCG** and **SZ**: When the AP finds an SCG, vSCG or SZ controller on the same subnet and the controller is configured to add APs with the base image, the AP automatically updates the base image with the controller-compatible firmware image. Please see [Table 3](#) for AP-to-controller pairing options that the controllers use to communicate with the AP.

NOTE Please verify that the SCG or vSCG controller has the *lwapp2scg* utility installed and configured before putting the AP on the subnet to be recognized and configured by the controller.

Table 3. Controller- and Manager-to-AP Pairing Options

Controller or Manager	AP-to-Controller Pairing Options			
	Local Discovery	Manual	Option 43	DNS
SCG	Optional (Note)	Optional	<i>Default</i>	Optional
vSCG	Optional (Note)	Optional	<i>Default</i>	Optional
SZ	<i>Default</i>	Optional	Optional	Optional
ZD	<i>Default</i>	Optional	Optional	Optional
FlexMaster	No	<i>Manual</i>	No	No

Note: The SCG and vSCG controllers must have the *lwapp2scg* utility installed and configured.

- **ZD**: When the AP finds a ZD controller on the same subnet and the ZD controller is configured to add APs with the base image, the AP automatically downloads the ZD-compatible firmware image. Please see [Table 3](#) for AP-to-controller pairing options that the ZD uses to communicate with the AP.

NOTE In the SCG, vSCG, SZ and ZD cases, after the AP base image is overwritten with the controller-specific image and the AP no longer operates in standalone mode, the AP retains its SCG, vSCG, SZ or ZD firmware image after reboot and factory reset.

NOTE Refer to the 9.7.x through 9.8.x AP Release Notes for the procedures used with pre-100.0.0 firmware operation.

- If the AP does not find an SCG, vSCG, SZ or ZD controller on the network, or if there is an SCG/vSCG controller on the network but the *lwapp2scg* utility has not been activated, then the AP retains its base image.

The installer can log into the AP web interface at any time and configure the AP as a standalone AP, and can optionally configure the AP to report to a FlexMaster manager. To set up the AP for management by FlexMaster, refer to [Configuring the AP for Management by FlexMaster or for Standalone Operation](#) in the *Ruckus Wireless Indoor AP User Guide* or *Ruckus Wireless Outdoor AP User Guide*.

NOTE If a standalone AP finds multiple SZ, SCG, vSCG and ZD controllers on the network, then the AP associates with whichever controller it finds first. (This is almost unknown, but can happen when organizations are migrating from ZD to SCG or vSCG, and have multiple controllers on the AP subnet.) This scenario can be prevented by changing the IP address range or by specifying ACLs in the *lwapp2scg* utility.

Case 2: Connecting an AP to a Controller using DHCP Option 43

Refer to the SZ, SCG, vSCG or ZD controller user documents for instructions on how to connect the AP to the controller using DHCP Option 43.

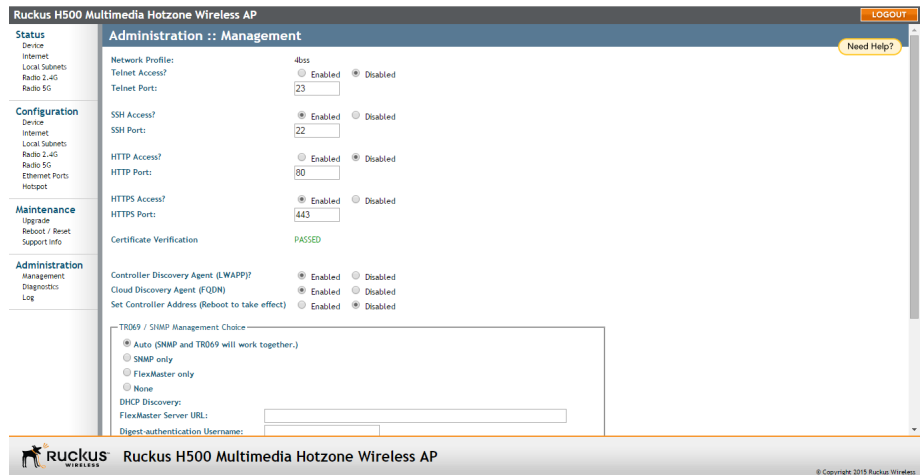
Case 3: Connecting an AP to a Controller using DNS

Refer to the SZ, SCG, vSCG or ZD controller user documents for instructions on how to connect the AP to the controller using DNS.

Case 4: Manually Setting the Controller IP Address in the AP Web Interface

Go to the **Administration > Management** page in the AP Web interface. Click **Set Controller Address Enabled**, then enter either one primary controller IP address or one primary and one optional secondary controller IP address, and then click **Update Settings**. Refer to the *Ruckus Wireless Outdoor Access Point User Guide* or the *Ruckus Wireless Indoor Access Point User Guide* for more information on how to manually set the controller IP address in the AP web interface.

Figure 1. Sample *Administration > Management* Page



Standalone AP- or FlexMaster-Managed Operation

When the AP is to be used in standalone mode or when reporting to a FM manager, the AP retains and uses the base image. Refer to the *Ruckus Wireless Indoor Access Point User Guide* or the *Ruckus Wireless Outdoor Access Point User Guide* for instruction on how to configure the AP for standalone and/or FlexMaster-managed operation.

Supported Devices, Services and Firmware

3

AP image 100.1.0.0.194 supports Ruckus Wireless AP models, and can interoperate with the Ruckus Wireless controllers and managers listed below. Refer to the following:

- [Access Point Models](#)
- [ZoneDirector \(ZD\) Controllers](#)
- [FlexMaster \(FM\) Managers](#)
- [SmartCell Gateway \(SCG\) Controllers](#)
- [virtual SmartCell Gateway \(vSCG\) Controllers](#)
- [SmartZone \(SZ\) Controllers](#)
- [Smart Access Management service \(SAMs\) Controllers](#)

Access Point Models

- SC8800-S -- 100.1.0.0.194
- SC8800-S-AC -- 100.1.0.0.194
- ZoneFlex 7055 -- 100.1.0.0.194
- ZoneFlex 7321 -- 100.1.0.0.194
- ZoneFlex 7352 -- 100.1.0.0.194
- ZoneFlex 7372 -- 100.1.0.0.194
- ZoneFlex 7372-E -- 100.1.0.0.194
- ZoneFlex 7441 -- 100.1.0.0.194
- ZoneFlex 7761-CM -- 100.1.0.0.194
- ZoneFlex 7762 -- 100.1.0.0.194
- ZoneFlex 7762-AC -- 100.1.0.0.194
- ZoneFlex 7762-S -- 100.1.0.0.194
- ZoneFlex 7762-S-AC -- 100.1.0.0.194
- ZoneFlex 7762-T -- 100.1.0.0.194

- ZoneFlex 7781CM -- 100.1.0.0.194
- ZoneFlex 7782 -- 100.1.0.0.194
- ZoneFlex 7782-E -- 100.1.0.0.194
- ZoneFlex 7782-N -- 100.1.0.0.194
- ZoneFlex 7782-S -- 100.1.0.0.194
- ZoneFlex 7982 -- 100.1.0.0.194
- ZoneFlex H500 -- 100.1.0.0.194
- ZoneFlex R300 -- 100.1.0.0.194
- ZoneFlex R500 -- 100.1.0.0.194
- ZoneFlex R600 -- 100.1.0.0.194
- ZoneFlex R700 -- 100.1.0.0.194
- ZoneFlex T300 -- 100.1.0.0.194
- ZoneFlex T300e -- 100.1.0.0.194
- ZoneFlex T301n -- 100.1.0.0.194
- ZoneFlex T301s -- 100.1.0.0.194

ZoneDirector (ZD) Controllers

- Please refer to the SCG controller Release Notes for a list of supported APs.

NOTE The H500 AP is not supported on ZoneDirector 1100.

FlexMaster (FM) Managers

- Please refer to the FM manager Release Notes for a list of supported APs.

SmartCell Gateway (SCG) Controllers

- Please refer to the SCG controller Release Notes for a list of supported APs.

NOTE SCG controllers must have LWAPP discovery enabled and configured. LWAPP discovery is enabled by default on SCG controllers release 3.0 and later. Refer to [Case 1: AP Controller Discovery using L2 Subnet](#) for details.

virtual SmartCell Gateway (vSCG) Controllers

- Please refer to the vSCG controller Release Notes for a list of supported APs.

NOTE vSCG controllers must have LWAPP discovery enabled and configured. LWAPP discovery is enabled by default on vSCG controllers release 3.0 and later. Refer to [Case 1: AP Controller Discovery using L2 Subnet](#) for details.

SmartZone (SZ) Controllers

- Please refer to the SZ controller Release Notes for a list of supported APs.

Smart Access Management service (SAMs) Controllers

NOTE SAMs uses SCG or vSCG controllers, which are automatically managed in the cloud.

Upgrade Information

4

Go to **Maintenance > Upgrade** in the AP Web interface. Refer to the *Ruckus Wireless Outdoor Access Point User Guide* or the *Ruckus Wireless Indoor Access Point User Guide* for instructions on how to upgrade the AP firmware.

Figure 2. Sample *Maintenance > Upgrade* Page

Ruckus H500 Multimedia Hotzone Wireless AP

Maintenance :: Upgrade

Upgrade Method: TFTP FTP Web Local

FTP Options

Firmware Server:

Port:

Image Control File:

Username:

Password:

Auto Upgrade? Enabled Disabled

Changes made to this area apply to the Automatic Firmware Update settings as well.

WARNING: Upgrading the firmware could take a few minutes and your network will not be available during this time. Please do NOT remove power from your device until the upgrade finishes.

RUCKUS WIRELESS Ruckus H500 Multimedia Hotzone Wireless AP

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Enhancements and Resolved Issues

5

This section lists enhancements that have been added and issues from previous versions that have been resolved in this version.

- [Enhancements](#)
- [Resolved Issues](#)

Enhancements

- The following Access Point is new in this version:

The H500 is a compact indoor 802.11a/b/g/n/ac dual-band 2x2:2 access point with integrated five-port Ethernet, in a form factor which allows mounting to standard USA- or EU-style single-gang wall outlet boxes. The H500 includes a 10/100/1000 uplink port and four 10/100 access ports.

The H500 can be powered by a customer-supplied IEEE 802.3af- or 802.3at-compliant PoE switch or injector, or can be powered by an optional customer-ordered DC power adapter.

The H500 has side cutouts for one or two bypass cables. The mounting bracket has locating hooks to keep the bypass cables aligned with the cutouts when attaching the H500 to the mounting base.

The H500 can have a low-power (0.5W or less) USB device plugged in, such as a customer-supplied BLE (Bluetooth low energy) beacon. The USB device is very difficult to remove after the H500 is attached to the mounting base.

- The H500 Access Point includes a new feature, AP support for Zone 2 regulatory regions. Refer to [Appendix: Zone 2 APs](#) for more information.
- Some Ruckus Wireless APs, such as the H500, support customer-supplied, low-power (1W or less), Bluetooth low energy (BLE) devices, such as BLE beacons. The BLE devices plug into a USB port on the AP, and the AP can be configured to turn power to the USB port either on or off.

Ruckus Wireless APs with USB ports supporting BLE devices can provide power to the BLE device. The BLE devices perform whatever tasks they are designed to do without interference from or control (other than supplying USB power) by the Ruckus Wireless network equipment.

Resolved Issues

- TR069 is disabled by default in the AP Web user interface after an AP is updated from a ZoneDirector controller-based image to base image 100.0.0 (ZF-9763).
- ZoneDirector-controlled APs may fail to send DHCPv6 discovery messages after rejoining ZoneDirector, which could result in multiple APs being assigned the same IPv6 address (ZF-9540).
- Enabling RTS on R700 does not work with MacBook (ZF-7882).
- AP does not support the special shutdown advisory LLDPDU with TTL=0 (ZF-9036).

Caveats, Limitations and Known Issues

6

This section lists the caveats, limitations, and known issues for FlexMaster, Zone-Director and ZoneFlex Access Points in this version. Please also refer to previous (for example, 9.7, 9.8 and 9.8.1) Release Notes documents for previously documented caveats and limitations.

- Using ZoneFlex APs with release 9.6 or greater or using a ZoneFlex AP with base image release 100.0.0 or greater with an SCG, vSCG, SmartZone or SAMs controller and DHCP option 43 discover and/or DNS discovery requires settings to be configured consistent with the procedures outlined in *RuckOS 3.0 Administrators Guide* and *RuckOS 3.0 Quick Start Guide*.
- Before using ZoneFlex APs with release 9.6 or greater or using a ZoneFlex AP with base image release 100.0.0 or greater with an SCG, vSCG, SmartZone or SAMs controllers, ensure that LWAPP services or the LWAPP2SCG utility is installed and enabled on the controller and properly configured, and that the controller is restricted from distributing SCG-AP release 1.1.1.x or release 2.1.x to APs which discover and join the controller. SCG-AP images release 1.1.1.x and 2.1.1.x do not support DNS controller discovery which can result in a service-affecting outage of the AP if the network requires DNS discovery of the controller.
- Before re-deploying a ZoneDirector-managed AP to an SCG, vSCG, SmartZone or SAMs controller, the AP must be reset to factory defaults before allowing the AP to discover and attach to the SCG, vSCG, SmartZone or SAMs controller network. To reset the AP to factory defaults, hold the reset button for 8 to 10 seconds and allow the AP to clear existing configurations and reboot, which takes about 2 minutes.

ZoneDirector and Ruckus Wireless APs use standard protocols to interoperate with third-party Wi-Fi devices. Ruckus Wireless qualifies its functionality on the most common clients.

- [Operating Systems](#)
- [Web Browsers](#)

Operating Systems

The following client operating systems have been tested for compatibility with this version:

- *Personal Computer OS:*
 - Windows 8
 - Windows 8.1
 - Mac OS 10.8.3
 - Mac OS 10.8.5
 - Mac OS 10.9.3
 - Mac OS 10.9.4
 - Mac OS 10.10
- *Smart Phone and Tablet OS:*
 - iOS (6.x, 7.x, 8, 8.02, 8.1)
 - Android (4.0.3, 4.1, 4.1.1, 4.1.2, 4.2.2, 4.3, 4.4, 4.4.2, 4.4.4)
 - Windows Phone (WP7.5, WP8, WP8.1)
 - BlackBerry OS (10.1.0.4633)
 - Kindle (7.4.2)

Web Browsers

The following client web browsers have been tested for compatibility with this version:

- *Officially Supported Browsers:*
 - Internet Explorer 10, 11
 - Firefox 33 and later
 - Chrome 39 and 40
- *Not Officially Supported Browsers:*
 - Safari, Dolphin, Opera Mini, Android Default, BlackBerry Default, and others.

Appendix: Zone 2 APs

Some Ruckus Wireless access points can be purchased with the country code factory configured and locked to a regulatory region referred to as “Zone 2”. AP ordering numbers with a “Z2” in the suffix, for example 901-R700-Z200, have been factory locked to the Zone 2 country code setting. End users of these access points are not able to change the country code setting, operate the AP on non-Z2 channels, or use non-Z2 transmit power limits.

APs discover and join Ruckus Wireless controllers with matching “Zone 2” or “Z2” country code settings.

APs with locked Z2 country code settings comply with the Zone 2 regulatory limits outlined in [Table 4](#).

Table 4. Zone 2 Regulatory Information

SKU suffix	Locked	Country	Country Code	2.4 GHz CH (1-13) and RF Power Limit	5.150 GHz-5.250 GHz (W52) RF Power Limit	5.250 GHz-5.350 GHz CH (W53) and RF Power Limit
-WWxx	Unlocked	Algeria	DZ	1-13/100mW (outdoor limited to 28mW)	200mW	Indoor: 200mW Outdoor: 1000mW
-WWxx	Unlocked	Morocco	MA	1-13/100mW	200mW	200mW
-WWxx	Unlocked	Tunisia	TN	1-13/100mW	200mW	200mW
-WWxx	Unlocked	Vietnam	VN	1-13/100mW	200mW	200mW
-WWxx	Unlocked	Israel	IL	1-13/100mW	200mW	200mW
-ILxx (Note)	Locked	Israel	IL	1-13/100mW	200mW	200mW
-Z2xx	Locked	Zone 2	Z2	1-13/100mW	200mW	200mW

Note: -ILxx is not used for new designs



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