

SOFTWARE UPGRADE GUIDE

## **RUCKUS ZoneDirector** 10.5.1 Upgrade Guide

**Supporting ZoneDirector 10.5.1** 

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## **ZoneDirector Upgrade Paths**

Beginning from ZoneDirector 10.5.1, the following releases can be directly upgraded to 10.5.1 with configuration migration.

- 10.1.0.0
- 10.1.1.0
- 10.1.2.0
- 10.2.0.0
- 10.2.1.0
- 10.3.0.0
- 10.3.1.0
- 10.4.0.0
- 10.4.1.0
- 10.5.0

Refer to the ZoneDirector 10.5.1 Release Notes for a list of specific release builds that have been qualified for upgrade to this release.

# **Upgrading ZoneDirector and Connected APs**

Consult the RUCKUS Support website on a regular basis for updates that can be applied to your RUCKUS network devices.

#### NOTE

For information and detailed instructions (including video tutorials) on upgrading ZoneDirector, visit the RUCKUS Support How-To Hub at https://support.ruckuswireless.com/how-to-hub.

RUCKUS strongly recommends reading the Release Notes for the release that you plan to upgrade to prior to beginning the upgrade.

Release Notes contain important information related to upgrading to the current release, including:

- Supported platforms
- Supported upgrade paths
- Enhancements
- Resolved issues
- Known open issues
- Client interoperability

Review the Release Notes to ensure that the ZoneDirector and AP models in your deployment are supported in the release. Release Notes and firmware image files are both available at https://support.ruckuswireless.com. You will need a valid RUCKUS support site account to access these resources.

After downloading an update package to a convenient folder on your administrative PC, you can complete the network upgrade (of both ZoneDirector and the APs) by performing the following steps.

The full network upgrade is successive in sequence. After ZoneDirector is upgraded, it contacts each active AP, upgrades it, and restores it to service. The APs use FTP to download firmware updates from ZoneDirector by default. If you have an access control list (ACL) or firewall between ZoneDirector and the APs, make sure that FTP traffic is allowed to ensure that the APs can successfully download the updated firmware.

#### NOTE

Upgrading ZoneDirector and the APs temporarily disconnects them (and any associated clients) from the network. To minimize network disruption, RUCKUS recommends performing the upgrade procedure at an off-peak time.

- 1. Back up your existing configuration.
- 2. Go to Administer > Upgrade.

3. In the Software Upgrade section, click Choose File.

#### FIGURE 1 Upgrade Page

ZoneDirector ZD1200	
Dashboard	Upgrade
Access Points	
	Current Software
Wireless LANs	Your current software version is 10.5.1.0 build 106. To see the access points that can be managed, click here
Clients	
	Software Upgrade
Troubleshooting	Important: Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of ZoneDirector and all associated APs, click Browse, and then
	select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. The network will be restored automatically when the upgrade process is complete.
Services & Profiles	Upgrading ZoneDirector will lose all AP patches, you need to install required patches again after upgrading. Choose FileNo file chosen
System 🕨	
	AP Patch Firmware
Administer 🗸 🗸	Important: Before the installing AP firmware process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the AP firmware upgrade, cick Browse, and then select the upgrade
	package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically reboot. The network will be restored automatically when the upgrade process is complete.
Preferences	Choose File No file chosen
Real Time Monitoring	This workspace displays the most recent records of uploading AP patch firmware.

4. Browse to the location where you saved the upgrade package, and click **Open**.

The firmware image file upload progress is displayed.

#### FIGURE 2 Firmware Upload in Progress

ZoneDirector ZD1200	≡
Dashboard	Upgrade
Access Points	
Wireless LANs	Current Software Your current software version is 10.5.1.0 build 106. To see the access points that can be managed, click here
Clients	Software Upgrade
Troubleshooting	Important: Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of ZoneDirector and all associated APs, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. The network will be restored automatically when the upgrade process is complete.
Services & Profiles	Upgrading ZoneDirector will lose all AP patches, you need to install required patches again after upgrading. Upgrading ZoneDirector will lose all AP patches.
System	
Administer	AP Patch Firmware Important: Before the installing AP firmware process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the AP firmware upgrade, click Browse, and then select the upgrade
Preferences	package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically reboot. The network will be restored automatically when the upgrade process is complete. Choose File No file chosen
Real Time Monitoring	This workspace displays the most recent records of uploading AP patch firmware.

5. When the file is finished uploading, the upgrade file name appears in the text field, and the **Upgrade** button appears.

ZoneDirector ZD1200	- autim -
Dashboard	Upgrade
Access Points	
	Current Software
Wireless LANs	Your current software version is 10.5.1.0 build 106. To see the access points that can be managed, click here
Clients 🕨	
	Software Upgrade
Troubleshooting	Important: Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of
	ZoneDirector and all associated APs, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. The network will be restored automatically when the upgrade process is complete.
Services & Profiles	zdf220_10.5.1.0.106.ap_10.5.1.0.106.img (159251720 byte) Upgrade Cancel
System 🕨	
	AP Patch Firmware
Administer 🗸	Important: Before the installing AP firmware process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the AP
Destaura	firmware upgrade, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically
Preferences	reboot. The network will be restored automatically when the upgrade process is complete.
Real Time Monitoring	Choose File No file chosen
	This workspace displays the most recent records of uploading AP patch firmware.

6. Click **Upgrade**. ZoneDirector performs the upgrade and restarts. When the upgrade process is complete, the Status LED on ZoneDirector is steadily lit. You may now log in to the web interface as Administrator to confirm the new build number.

#### FIGURE 3 Click Upgrade

## **Importing an AP Firmware Bundle**

Beginning with ZoneDirector release 10.0, administrators can import a new AP model patch file to ZoneDirector without performing a full upgrade of the controller. In this way, new AP models can be introduced without the need to wait for the next ZoneDirector firmware release.

When RUCKUS introduces a new AP model, an AP firmware bundle (or new AP model patch) is made available for download from the RUCKUS Support website. Visit the Support site to download the AP firmware bundle to a local computer, import it into ZoneDirector, and the new AP model is now supported after a reboot.

#### NOTE

Upgrading ZoneDirector to a new release deletes all imported AP firmware bundles. Install the required AP firmware bundles only after upgrading ZoneDirector firmware.

The steps required for importing an AP firmware bundle are similar to the steps in Upgrading ZoneDirector and Connected APs on page 7.

#### NOTE

Importing an AP firmware bundle automatically reboots the ZoneDirector to affect the patch, temporarily disconnecting APs (and any associated clients) from the network. To minimize network disruption, RUCKUS recommends performing the upgrade procedure at an off-peak time.

#### FIGURE 4 Importing an AP Firmware Bundle

#### Software Upgrade

Important: Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of ZoneDirector and all associated APs, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. The network will be restored automatically when the upgrade process is complete.
Choose File No file chosen

#### **AP Patch Firmware**

Important: Before the installing AP firmware process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the AP firmware upgrade, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically reboot. The network will be restored automatically when the upgrade process is complete. Choose File No file chosen

This workspace displays the most recent records of uploading AP patch firmware.

#### AP patches C

Date/Time	Version	Status	AP Model	
Search terms	<ul> <li>Include all terms</li> <li>Include</li> </ul>	e any of these terms		G 0-0 (0) G

## Performing an Upgrade with Smart Redundancy

If you have two ZoneDirectors in a Smart Redundancy configuration, the upgrade procedure is similar to upgrading a single controller.

Note however, that the active and standby ZoneDirectors will reverse roles during the upgrade.

To upgrade both ZoneDirectors in a Smart Redundancy configuration, complete the following steps:

1. Log in to the <u>active</u> ZoneDirector.

#### NOTE

Do not attempt to manually upgrade the standby ZoneDirector before the active unit. If you do so, some configuration options may be lost during the upgrade process. Be sure to begin the upgrade process from the web interface of the active ZoneDirector (or the shared Management Interface, if configured).

- 2. Go to Administer > Upgrade.
- 3. In the Software Upgrade area, click Browse. The Browse dialog box appears.
- 4. Browse to the location where you saved the upgrade package, and click **Open**.
- When the upgrade file name appears in the text field, the **Browse** button becomes the **Upgrade** button.
- 5. Click Upgrade.

The standby ZoneDirector is upgraded first.

- 6. When the standby ZoneDirector upgrade is complete, the standby ZoneDirector reboots and becomes the active controller (begins accepting AP requests), while the original active device enters standby state and begins its own upgrade process.
- 7. All APs are now associated to the original standby ZoneDirector (now the active ZoneDirector), and begin downloading and upgrading AP firmware to the new version.
- 8. Each AP reboots after the upgrade is complete, and reconnects to the new active ZoneDirector.

# **Enabling Legacy AP Image Upgrade**

Beginning with ZoneDirector release 9.13, AP firmware image upgrades can be performed using HTTPS via TCP port 11443 rather than FTP.

Select the check box next to Enable legacy AP image upgrade to enable FTP upgrade.

Beginning from ZoneDirector 10.5.1, the AP image upgrade is HTTPS. If there is an upgrade failure using HTTPS, you can enable the legacy AP image upgrade option to FTP. ZoneDirector either supports HTTPS or FTP as the AP image upgrade option.

#### FIGURE 5 Upgrading Legacy AP Image

System 🕨	>	AP Patch Firmware				
Administer 🔹	-	Important: Before the installing AP firmware process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the AP firmware upgrade, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically reboot. The network will be restored automatically when the upgrade process is complete.				
Preferences		This workspace displays the most recent records of uploading AP patch firmware.				
Real Time Monitoring		AP patches C				
Back up		Date/Time	Version	Status	AP Model	
Restart						
Upgrade		Search terms	Include all terms O Include any of these terms			G 0-0 (0) C
License & Support						
Certificate		Legacy AP Image Upgrade				
System Info Name: corporate- network1 Uptime: 1d 21h 25m		When legacy AP image upgrade is enabled, AP will use FTP D Enable legacy AP image upgrade	to upgrade images, otherwise AP will upgrade image	s by HTTPS via TCP port 11443.		Apply

# Verifying the Upgrade

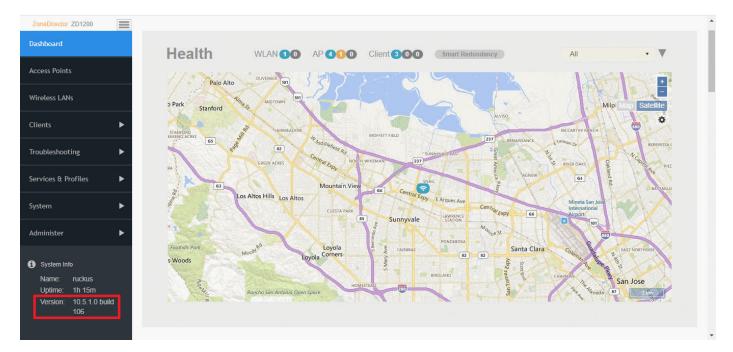
After you have performed a ZoneDirector upgrade or AP firmware bundle installation, it is important to verify that the ZoneDirector and APs are running the expected software versions.

Version details for both the ZoneDirector and AP installed versions can be found in the ZoneDirector web interface. If you prefer to use the command line interface (CLI), use SSH to access the ZoneDirector or AP.

To verify the current firmware version number, choose one of the following options:

• Open the ZoneDirector web UI Dashboard, and locate the Version number in the System Info section.

FIGURE 6 Verifying the Installed Software Version from the ZoneDirector Web UI



• Verify the installed version using the CLI using the **show sysinfo** command.

```
ruckus# show sysinfo
System Overview:
  Name= ZoneDirector
  IP Address= 192.168.0.6
  IPv6 Address= fc00::2
  MAC Address= f8:e7:1e:3a:4c:20
  Uptime= 14m
  Model= ZD1200
  Licensed APs= 5
  Serial Number= 951608000220
  Version= 10.5.1.0 build 106
...
```

ruckus#

# **Downgrading to a Previous Release**

Downgrading ZoneDirector and connected APs to a previous release is similar to upgrading, with the option to restore a saved configuration or reset to factory default settings after downgrading.

Downgrades are supported for N-2 major releases (for example, 10.5 to 10.3). However, to restore the same configuration settings upon downgrading, you must downgrade to the previously installed release. For example, if you upgraded from 10.3 to 10.5, you can downgrade to 10.3 with restored settings, but downgrading from 10.5 to 10.4 will require a factory reset.

To downgrade to a previous release:

- 1. Go to Administer > Upgrade.
- 2. In the Software Upgrade section, click Choose File.

#### FIGURE 7 Upgrade Page

ZoneDirector ZD1200	
Dashboard	Upgrade
Access Points	
Wireless LANs	Current Software Your current software version is 10.5.1.0 build 106. To see the access points that can be managed, click here
Clients 🕨	Software Upgrade
Troubleshooting	Important: Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of ZoneDirector and all associated APs, click Browse, and then select the upgrade package. When "Browse' is replaced by "Upgrade", click that button to start the upgrade process. The network will be restored automatically when the upgrade process is complete.
Services & Profiles	Upgrading ZoneOkrector will lose all AP patches, you need to install required patches again after upgrading. Choose File No file chosen
System 🕨	
Administer 🗸 🗸	AP Patch Firmware
Preferences	package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically reboot. The network will be restored automatically when the upgrade process is complete.
Real Time Monitoring	This workspace displays the most recent records of uploading AP patch firmware.

 Browse to the location where you saved the upgrade package, and click **Open**. The firmware image file upload progress is displayed.

#### FIGURE 8 Firmware Upload in Progress

ZoneDirector ZD1200	$\equiv$	
Dashboard		Upgrade
Access Points		
		Current Software
Wireless LANs		Your current software version is 10.5.1.0 build 106. To see the access points that can be managed, click here
Clients		
cuents		Software Upgrade
Troubleshooting		Important. Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of ZoneDirector and all associated APs, click Browse, and then
noubleshooting		select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. The network will be restored automatically when the upgrade process is complete.
Services & Profiles		Upgrading ZoneDirector will lose all AP patches, you need to install required patches again after upgrading.
Services a Promes		Upbadro 22% Cancel
System	•	
		AP Patch Firmware
Administer	•	Important: Before the installing AP firmware process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the AP firmware upgrade, click Browse, and then select the upgrade
		package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. Then ZoneDirector will automatically reboot. The network will be restored automatically when the upgrade process is complete.
Preferences		Choose File No file chosen
		This workspace displays the most recent records of uploading AP patch firmware.
Real Time Monitoring		пів мильрасе израўв не плов есепт есличь и циланну ле ракти пінтане.

4. When the file is finished uploading, a message appears prompting you to save your current configuration. Click **OK**.

FIGURE 9 Message prompting user to perform backup

### 192.168.0.6 says

Ruckus Wireless strongly recommends that you back up the ZoneDirector settings before performing a software upgrade. To save a backup of the ZoneDirector settings, click OK, and then save the backup file to your local disk.



5. Save the file to a convenient location.

6. The downgrade file name appears in the text field, and the **Upgrade** button appears.

#### FIGURE 10 Clicking Upgrade

ZoneDirector ZD1200		
Dashboard		Upgrade
Access Points		
		Current Software
Wireless LANs		Your current software version is 10.5.0.0 build 127. To see the access points that can be managed, click here
Clients		
Clients		Software Upgrade
Troubleshooting	•	Important: Before the upgrade process starts, ZoneDirector will prompt you to save a backup of the ZoneDirector settings. Save the backup file to your local disk. To start the software upgrade of ZoneDirector and all associated APs, click Browse, and then select the upgrade package. When "Browse" is replaced by "Upgrade", click that button to start the upgrade process. The network will
Services & Profiles	►	be restored automatically when the upgrade process is complete. zd1200_10.5 0.0.50.ap_10.5 0.0.50.img (18866210 bytes) Upgrade Cancel
System	•	

7. Click **Upgrade**. ZoneDirector performs the downgrade and restarts.

# **Upgrade FAQs**

- Do I Need a Valid Support Contract to Upgrade Firmware?
- Is My Controller Supported by the Firmware Upgrade?
- Is My Access Point Supported by the Firmware Upgrade?
- How Do I Get Support?

### Do I Need a Valid Support Contract to Upgrade Firmware?

You must have a valid support contract to upgrade or downgrade the ZoneDirector software. If you do not have a valid support contract, contact your reseller to purchase an appropriate support contract. After downloading and installing the software, select **Administer > License & Support** from the web interface for information on activating your support contract.

#### NOTE

By downloading the ZoneDirector software and upgrading ZoneDirector to version 10.5, 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 that will be used to display the current status of the ZoneDirector support contract. Any information collected from the ZoneDirector may be transferred and stored outside of your country of residence where data protection standards may be different.

### Is My Controller Supported by the Firmware Upgrade?

This release supports the following ZoneDirector models:

• ZoneDirector 1200

#### NOTE

ZoneDirector 3000 is discontinued as of release 10.3 and cannot be upgraded to 10.3 or any later release.

### Is My Access Point Supported by the Firmware Upgrade?

Refer to the Release Notes document available from https://support.ruckuswireless.com for the list of Access Points supported in this release.

Refer to https://support.ruckuswireless.com/articles/000006452 for a complete matrix of Access Point support by ZoneDirector controller release.

### **How Do I Get Support?**

For product support information and details on contacting the RUCKUS Customer Services and Support Team, go directly to the Support Portal using https://support.ruckuswireless.com, or go to https://www.ruckuswireless.com and select **Support**.



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