

Installation & Setup of your Access Networks Ruckus Wireless System

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The performance of your wireless network is greatly impacted by access point location and orientation. It is important to install each access point away from obstructions and sources of interference and to ensure that the top of the access point is pointing in the general direction of its wireless clients.

Building materials used in construction will affect the radio signal penetration of the access points. For example, drywall construction permits greater wireless range than concrete block construction. Physical obstructions such as concrete pillars, steel beams, large appliances and mirrors can block or hinder wireless communications. Avoid installing access points in locations where there are obstructions between sending and receiving devices.

Devices that emit radio waves such as wireless phones, microwave ovens, ZigBee, Z-Wave and WiSA devices can cause interference and potentially block wireless signals. Certain types of light fixtures can also cause interference.

Wireless coverage will vary from one residence to another. Please note that dual-band systems with both 2.4GHz and 5GHz require a higher density of access points due to lower range and coverage by 5GHz radios. This is true for all WiFi equipment manufacturers. We also recommend use of the 5GHz band whenever possible to avoid interference generated by other wireless devices, microwave ovens and neighboring wireless networks. Use of the 5GHz band also allows for wireless channel bonding for faster speeds and throughput.

NOTE: If you purchased an 802.11ac access point, the 802.11ac standard is only supported by the 5GHz radio. In this case, your 2.4GHz radio will operate at 802.11n speeds.

Where possible, use pre-made network cables rather than hand-made cables. For in-wall wiring terminated using wall jacks and patch panels, please ensure that all cable runs have been tested and certified.





How to install your Access Networks Ruckus Wireless system

- Connect either of the network ports on the front of your ZoneDirector to an Ethernet switch on your wired network, and power the ZoneDirector with the included AC power adapter. The ZoneDirector will be assigned a DHCP IP address by your DHCP server (most likely your router). The ZoneDirector can be mounted on a shelf or with the included 1U rack ears.
- 2. Connect the wireless access points to an Ethernet switch on the same network as the ZoneDirector. If your switch does not provide Power over Ethernet (POE) you will need to purchase AC power adapters or PoE injectors to power the access points. Each access point will be assigned a DHCP IP address by your DHCP server. It is not recommended that you assign static IP addresses to individual access points, however it is recommended that you assign location names to each access point for easy identification. Please refer to Page 13 for instructions regarding "How to assign location names to access points". It may take up to 10 minutes for the access points to be automatically provisioned and firmware upgraded before they are active on your network.
- 3. Use an Ethernet cable to connect your computer to a network switch on the same network as the ZoneDirector and wireless access points.
- 4. Follow the instructions in the subsequent sections of this manual in order to discover the IP address of your ZoneDirector and complete the "ZoneDirector Setup Wizard". Upon completion of the "ZoneDirector Setup Wizard", log into the ZoneDirector interface in order to make wireless configuration changes. All settings and access point configuration are accomplished via the ZoneDirector interface, not the interface of the individual access points.

To ensure network connectivity between the ZoneDirector and your existing wired network, we configure the ZoneDirector and access points to obtain an IP address by DHCP. During deployment, we recommend configuring the ZoneDirector with a static LAN IP address, then configuring the router on site to forward TCP port 443 to that IP address. Since all management of the wireless network is done through the ZoneDirector, the access points do not need to be configured with static IP addresses and should be left configured for DHCP.

In order to log into your Ruckus ZoneDirector and configure a static IP address, you will first need to know its current DHCP IP address. There are several ways to find the current DHCP IP address of your ZoneDirector.

- 1. If you have administrative access to the DHCP server for the network, you will find the ZoneDirector in the list of DHCP clients. The default hostname of the ZoneDirector will be "ruckus".
- 2. A network scanning utility such as angry IP Scanner, or LanScan for Mac computers, can be used to scan the network and list the hostnames, MAC addresses and IP addresses of active network devices. Depending on your network configuration and the network scanner you are using, device hostnames may not be listed. Furthermore, all Ruckus ZoneDirectors and wireless access points are configured with the same default hostname, "ruckus". The best way to determine which host is your ZoneDirector is by looking up its MAC address in the scan results. The MAC address of the ZoneDirector can be found on the label affixed to the underside of the unit.
- 3. If one of the above-mentioned options is not feasible, you may connect directly to your ZoneDirector at its default IP address 192.168.0.2. In the absence of an available DHCP server, the ZoneDirector can be accessed at this IP address by configuring your computer with an IP address on the same subnet and connecting your computer directly to the ZoneDirector's Ethernet port using a standard Ethernet patch cable. This technique will only work if the ZoneDirector remains disconnected from the network from the time that it is powered on until the time it is connected to your computer.

The Ethernet adapter of your computer will need to be configured with the following IP settings in order for you to successfully contact the ZoneDirector:

- IP address: 192.168.0.3
- Subnet Mask: 255.255.255.0

The Default Gateway and DNS Server settings need not be configured in order to access the ZoneDirector using this technique; however your computer may require these settings before allowing you to apply the configuration changes to your Ethernet adapter. If necessary, configure these additional settings as follow:

- Default Gateway: 192.168.0.254
- DNS Server: 8.8.8.8

Once your Ethernet adapter has been configured as indicated above, please open Chrome, Firefox or Safari and type https://192.168.0.2 into the address bar.

NOTE: Internet Explorer is often problematic and is not recommended.

- Select your preferred display language from the drop-down box and select Next.

nguage	Language	
eneral lanagement IP lireless LANs dministrator onfirmation ervice Terms inish	Welcome to the Ruckus Wireless ZoneDirector Setup Wizard. Use this wizard to prepare ZoneDirector to run wireless network. To start, select the display language that you want to use on the Web interface. Language English	our

Step 2

- Enter a system name. We suggest that you use the format "MyCompany-Client".
- Leave the country code at the default value of "United States".
- Do not check "Enable Mesh".
- Select Next.

NOTE: Mesh is not recommended for most projects and should only be used as a last resort when it is not possible to run a network cable to an access point's location. Specifically, all control systems are sensitive to network latency that is created by mesh networks. Please contact us before enabling Mesh.

Language	General
General	Enter a system name for ZoneDirector. The name should be between 1 and 32 charactersnumbers and lettersbut not including spaces.
Vireless LANs Administrator Confirmation Service Terms	System Name MyCompany-Ctient Country Code United States ZoneDirector provides mesh capability. Each mesh-enabled ZoneDirector requires a unique name (SSID) for the mesh WLAN for the backbone traffic. Enable Mesh

- Select the "**IPv4**" and "**Manual**" radio buttons; then enter your desired IP settings. Note: By default, the ZoneDirector will obtain an IP address via DHCP. For most installations the Netmask, Gateway and Primary DNS Server settings will remain the same and you will simply need to select an available IP address that is outside of the DHCP scope used on your network.
- Select Next.

Select the network addressing mode"Manual" or "DHCP". If you select "DHCP", no further configuration is needed. If you select "Manual", enter the relevant IP addressing information. (Fields marked with an asterisk (*) are required.) IPv4 IPv6 IPv4 and IPv6 Manual DHCP IP Address * 192.168.1.10 Netmask * 255.255.255.0 Gateway * 192.168.1.1 Primary DNS Server 192.168.1.1 Secondary DNS Server	anguage	Management IP
Aanagement IP are required.) are required.) IPv4 IPv4 IPv4	General	Select the network addressing mode"Manual" or "DHCP". If you select "DHCP", no further configuration is needed. If you select "Manual", enter the relevant IP addressing information. (Fields marked with an asterisk (*)
	Wireless LANs Administrator Confirmation Service Terms Finish	 IPv4 IPv6 IPv4 and IPv6 Manual DHCP IP Address * 192.168.1.10 Netmask * 255.255.255.0 Gateway * 192.168.1.1 Primary DNS Server Secondary DNS Server

STEP 4

- Uncheck the checkbox next to "Wireless 1 - Create your first Wireless LAN".

NOTE: In later steps you will find three pre-configured Wireless LANs that can be modified to your client's needs. You will have greater control over WLAN settings by creating or editing existing WLANs from the ZoneDirector interface after the intial setup has been completed.

- Select Next.

Language	Wireless LANs
General Management IP	If you make no changes to the default settings, a default WLAN "Wireless 1" with Open authentication is created. You can change it to a secure WLAN by choosing WPA_PSK authentication and providing a passphrase. Optionally, a "Guest" WLAN can be created for temporary guest access. (More WLANs can be added later, for restricted use.)
Wireless LANs	Wireless 1 Create your first Wireless LAN
Administrator	Guest WLAN Temporary access for visitors.
Confirmation	
Service Terms	
Finish	

- Enter your desired Admin Name and Password.
- Use the worksheet provided on Page 17 of this document to record the Admin Name and Password entered here.
- Select Next.

NOTE: In order to be eligible for support, the System Name, Admin Name, Password and Serial Number must be provided to Access Networks by email to support@accessca.com.

	network.)	Administrator Enter an "Admin" user name and password that permits administrative access to the Web interface. (Use this information to log into the Web interface after this setup is complete, to further configure your new wireless network.)		
Wireless LANs Administrator	Admin Name * Password *	admin		
Administrator Confirmation Service Terms Finish	Confirm Password * Use these features (op Web interface to crea	etional) to create a si te user accounts at a ccount	igle network user accoun later time.)	t at this time. (Or, if you prefer, use the

Step 6

- Review the information shown and if everything is correct, select **Next**. If changes need to be made, select **Back** and make the necessary changes.

Language	Confirmation
General Management IP	Please review the following settings. If changes need to be made, click Back to edit your settings. If the settings are ready for use, click Finish.
Wireless LANs Administrator	System Name MyCompany-Client Management IP DHCP
Confirmation	Mesh Mesh capability is disabled
Service Terms Finish	Administrator Account admin will be created System Time System time will be automatically set. (Your current PC time is 3/30/2015, 3:24:24 PM) * After completing the setup wizard, please check the Ruckus Wireless Support Web site for the latest software updates.

- Check the "Accept terms" checkbox and select Finish

Language	Service Terms	
General Management IP Wireless LANs Administrator Confirmation	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. Please be advised that this information may be transferred and stored outside of your country of residence where data protection standards may be different.	
Service Terms		
Finish		
	C Accept terms	

Step 8

- Select the link provided, and you will be redirected as shown below.

inguage	Finish
ieneral	Your Ruckus Wireless ZoneDirector is now active. [ALERT] If you changed the IP address on your administrative PC
Management IP	Tor ans serup procedure, reser are relativess before reconnecting your PC to the network.
Wireless LANs	Click this link to reconnect to your ZoneDirector at https://192.168.1.10/
Administrator	
Confirmation	
Service Terms	
Finish	

- Select **OK** or **Add Exception** when prompted by your web browser to confirm the secure connection certificate.
- Select **OK** or **Confirm Security Exception** in the new window that appears, before being redirected to the ZoneDirector log in page.
- The example below was taken from Firefox. The exact process in each web browser will be slightly different.

4, but we can't confirm that your
Add Security Exception You are about to override how Firefox identifies this site. Legitimate banks, stores, and other public sites will not ask you to do this. Server Location: https://192.168.107.54/ Certificate Status This site attempts to identify itself with invalid information. Wrong Site Certificate belongs to a different site, which could indicate an identity theft. Unknown Identity Certificate is not trusted, because it hasn't been verified by a recognized authority using a secure signature. Image: Permanently store this exception Cancel

Step 10

- Enter the Admin Name and Password that you chose at Step 5, and select Log in.

	ZoneDirector MyCompany-Client	
Admin Name Password	Log In	
Powered t	by <u>Ruckus Wireless</u>	

Once you have logged into your ZoneDirector you may add and arrange widgets on the **Dashboard** page as desired by selecting the **Add Widgets** link in the lower left corner of the page. From the **Dashboard** page, please verify the system settings that you entered during the setup wizard and confirm that the status of all access points is listed as "**Connected**".



Port forwarding

In order for Access Networks to be able to provide support, firmware updates or troubleshooting assistance, port forwarding needs to be configured in your router. **Due to the numerous models and variations of routers, this is not a service offered by Access Networks.** Please consult your user manual or online resources such as **portforward.com** for instructions regarding how to forward TCP port 443 to your ZoneDirector.

Pre-configured wireless SSIDs and Passphrases

SSID	Passphrase	Encryption Type
AV Wireless	avpassword	WPA2/AES
Data Wireless	datapassword	WPA2/AES
Guest Wireless	guestpassword	WPA2/AES

- 1. Log into your ZoneDirector.
- 2. Select the **Configure** tab at the top of the screen. Note: if the **Configure** tab is grayed out, the user credentials with which you are logged in do not have administrative rights. Please log in as a user with administrative rights.
- 3. Select **WLANs** from the list on the left side of the screen.
- 4. From the list of WLANs at the top of the page, locate the SSID you wish to change and select the Edit hyperlink to the right of the SSID.
- 5. The **ESSID** field defines what gets broadcast, however for simplicity we recommend also setting the **Name/ESSID** field and **Description** field to the same value.
- 6. To change the **Passphrase** for the SSID, simply edit the value in the **Passphrase** field.
- 7. When you are finished making changes, select **OK**.

NOTE: It is highly recommeded that you leave **Encryption Options** set to WPA2/AES. WPA2/AES is more secure and less resource intensive than older encryption methods such as WEP or WPA.

Das	shboard	Monitor	Configure	Administer			
System	LANS						
WLANs	his table li	sts your curr	ent W <mark>LA</mark> Ns and p	rovides basic det	ils about them. Cli	ck Create <mark>N</mark> ev	w <mark>to add anot</mark> he
Access Points	Name		ESSID	Description	Authentication	Encryption	Actions
Access Control	AV Wi	reless	AV Wireless	AV Wireless	Open	WPA2	Edit Clone
Maps	Editing (A	V Wireless)					
maps	General O	ptions					
Roles	Name/ESSI	D*	AV Wireless	ESSID	AV Wireless		
Users	Descriptio	n	AV Wireless				
Guest Access	WLAN Usa	ges					
Hotspot Services	Туре		Standard Guest Ac	Usage (For most re cess (Guest access p	ular wireless network u olicies and access cont	isages.) rol will be appl <mark>i</mark> e	.)
Hotspot 2.0 Services			Hotspot 9	 Hotspot Service (WISPr) Hotspot 2.0 			
Mesh			Autonom	Autonomous			
AAA Servers	Authentica	ation Option	s				
DHCP Relay	Method		🖲 Open 🗌	802.1x EAP 0	IAC Address 🔘 80	2.1x EAP + M/	AC Address
	Fast BSS T	ransition	Enable 80 (Recomme	Enable 802.11r FT Roaming (Recommended to enable 802.11k Neighbor-list Report for assistant.)			
Alarm Settings	Encryption	Options					
Services	Method		WPA2	WPA2 WPA-Mixed WEP-64 (40 bit) WEP-128 (104 bit) None			
WIPS	Algorithm		• AES	Auto (TKIP+AES)			
Certificate	Passphrase	•*	avpassword				
Bonjour Gateway	Options						
Location Services	Wireless C	lient Isolatic	Isolate w Isolate w No Whi (Requires white)	rireless client traf rireless client traf teList v ist for gateway and o	ic from other client ic from all hosts on ther allowed hosts.)	ts on the sam the same VL	e AP. AN/subnet.
	Priority		🖲 High 🔘	Low			
		ed Options					
							OK Cancel

- 1. Log into your ZoneDirector.
- 2. Select the **Configure** tab at the top of the screen. Note: If the **Configure** tab is grayed out, the user credentials with which you are logged in do not have administrative rights. Please log in as a user with administrative rights.
- 3. Select **WLANs** from the list on the left side of the screen.
- 4. To create an additional SSID using an existing SSID as a template (the recommended method), choose the existing SSID that you wish to use as the template and select the **Clone** hyperlink to the right of that SSID.
 - Edit the Name/ESSID, ESSID, Description and Passphrase fields as necessary. When you are finished making changes select OK.
- 5. Alternatively, to create a new SSID from scratch, select the **Create New** hyperlink located below the list of current WLANs.
 - Configure the new SSID with your desired settings. When you are finished making changes select OK.

NOTE: It is highly recommended that you set **Encryption Options** to WPA2/AES. WPA2/AES is more secure and less resource intensive than older encryption methods such as WEP or WPA.

WL	ANs						
- WL	ANs						
Thi	s table lists your	current WLANs a	and provides bas	ic details about	them. Click	k Create New 1	to add another WLAN, or click Edit to make changes to an existing WLAN.
	Name	ESSID	Description	Authentication	Encryption	Actions	
	AV Wireless	AV Wireless	AV Wireless	Open	WPA2	Edit Clone	
	Data Wireless	Data Wireless	Data Wireless	Open	WPA2	Edit Clone	
	Guest Wireless	Guest Wireless	Guest Wireless	Open	WPA2	Edit Clone	
Cre	ate New				Delete	G 1-3 (3) G	
Sea	rch terms		Include a	ll terms 🔘 Inclu	ude any of t	these terms	

How to delete an SSID

- 1. Log into your ZoneDirector
- 2. Select the **Configure** tab at the top of the screen. Note: If the **Configure** tab is grayed out, the user credentials with which you are logged in do not have administrative rights. Please log in as a user with administrative rights.
- 3. Select **WLANs** from the list on the left side of the screen.
- 4. Select the checkbox to the left of the SSID you wish to delete.
- 5. Select **Delete**.

Some devices may experience connectivity issues when connecting to a hidden SSID. If you are planning to use a hidden SSID, it is best to create the hidden SSID, then configure the wireless devices to connect to that SSID as opposed to hiding an SSID that devices are already connected to. *Note: When configuring devices to connect to a hidden SSID, you will need to manually enter the SSID name on each device. Depending on the type of device and the number of devices you have to configure, this can be a moderately time consuming process. For this reason when configuring a hidden SSID, we suggest using a short SSID such as "AV".*

- 1. Follow steps 1 through 4 under "How to modify an existing SSID or Passphrase" on Page 10.
- 2. Select the **Advanced Options** hyperlink at the bottom left of the WLAN Editing window.
- 3. Check the box next to Hide SSID. When you are finished making changes, select OK.

E Advanced Options	
Accounting Server	Disabled Send Interim-Update every 10 minutes
Access Control	L2/MAC No ACLs ▼ L3/4/IP address No ACLs ▼ Device Policy None ▼ Precedence Policy Default ▼ ■ Enable Role based Access Control Policy
Application Visibility	Enable
Call Admission Control	Enforce CAC on this WLAN when CAC is enabled on the radio
Rate Limiting	Uplink Disabled Downlink Disabled (Per Station Traffic Rate)
Multicast Filter	Drop multicast packets from associated clients
Access VLAN	VLAN ID Enable Dynamic VLAN
Hide SSID	✓ Hide SSID in Beacon Broadcasting (Closed System)
Tunnel Mode	Tunnel WLAN traffic to ZoneDirector (Recommended for VoIP clients and PDA devices.)
Proxy ARP	Enable Proxy ARP
Background Scanning	Do not perform background scanning for this WLAN service. (Any radio that supports this WLAN will not perform background scanning)
Load Balancing	Do not perform client load balancing for this WLAN service. (Applies to this WLAN only. Load balancing may be active on other WLANs)
Band Balancing	Do not perform Band Balancing on this WLAN service. (Applies to this WLAN only. Band Balancing might be enabled on other WLANs)
Max Clients	Allow only up to 100 clients per AP radio to associate with this WLAN
802.11d	Support for 802.11d (only applies to radios configured to operate in 2.4 GHz band)
DHCP option 82	Enable DHCP Option 82
Force DHCP	Enable Force DHCP, disconnect client if client does not obtain valid IP in 10 seconds.
Client Tx/Rx Statistics	Ignore unauthorized client statistics
Client Fingerprinting	C Enable Client Fingerprinting
Service Schedule	● Always on ○ Always off ○ Specific
Auto-Proxy	Enable Auto-Proxy configuration
Inactivity Timeout	Terminate idle user session after 5 minutes of inactivity
Radio Resource Management	Enable 802.11k Neighbor-list Report
	OK Cancel

- 1. Log into your ZoneDirector.
- 2. Select the **Configure** tab at the top of the screen. Note: if the **Configure** tab is grayed out, the user credentials with which you are logged in do not have administrative rights. Please log in as a user with administrative rights.
- 3. Select Access Points from the list on the left side of the screen.
- 4. From the list of access points at the top of the page, locate the MAC address of the access point you wish to name and select the **Edit** hyperlink to the right.
- 5. We recommend you use the **Device Name** field to indicate the location of each access point as this field is referenced in the **Events/Activities** table and log files as shown below.

Da	ashboard Monitor Confi	gure Administer				
System	Access Points					
WLANs	This table lists access points that have already been approved to join the network, or are pending approval.					
Access Points	MAC Address Device Na	me Description Channel	TX Power	WLAN Group	Approved Actions	
Access Control	f0:b0:52:30:cf:e0 Living Roo	m * (11a/n-*), * (11b/g/n-*)	* (11a/n), * (11b/g/n)	* (11a/n), * (11b/g/n)	Yes <u>Edit</u>	
llerer (f0:b0:52:30:ce:80 Kitchen	* (11a/n-*), * (11b/g/n-*)	* (11a/n), * (11b/g/n)	* (11a/n), * (11b/g/n)	Yes <u>Edit</u>	
Maps	Editing (f0:b0:52:30:ce:80)					
Roles	MAC Address	f0:b0:52:30:ce:80				
Users	Device Name	Kitchen				
Guest Access	Description					
Hotspot Services	Location					
	GPS Coordinates	Latitude , Longitude				
Hotspot 2.0 Services		(example: 37.3881398, -122.0258633)				
Mesh	Group	System Default V				
	Bonjour Gateway	Choose Bonjour Gateway 🔻				

	Dashboard Monitor Configure A	dminister	
Access Points	All Events/Activities		
Map View	This workspace displays the most recent re	cords in ZoneDirector's internal log file. (For information on saving this information to a syslog server, see the Online Help.)	e
WLANs	Date/Time Severity U 2015/04/28 10:12:47 Medium	ser Activities AP[Kitchen] joins with uptime [3125] s and last disconnected reason [Heartbeat Loss]	
Wireless Clients	2015/04/28 10:12:28 Medium 2015/04/28 09:21:59 Medium	System warm restarted with [user reboot]. AP[Kitchen] joins with uptime [76] s and last disconnected reason [AP Restart : power cycle]	
Wired Clients	2015/04/28 09:21:17 Medium 2015/04/21 14:41:44 Medium	System cold restarted AP[Living Room] joins with uptime [1139299] s and last disconnected reason [Heartbeat Loss]	
Generated PSK/Certs	2015/04/21 14:41:44 Medium 2015/04/21 14:41:40 Medium	AP[f0:b0:52:30:cf:e0] is assigned to [System Default] AP[Kitchen] joins with uptime [1139285] s and last disconnected reason [Heartbeat Loss]	
Generated Guest Passes	2015/04/21 14:41:40 Medium 2015/04/21 14:13:59 Medium	AP[f0:b0:52:30:ce:80] is assigned to [System Default] System cold restarted	
All Events/Activities	Search terms	Include all terms Include any of these terms	Clear All (3) -9 (9)
All Alarms			

- 1. Log into your ZoneDirector.
- 2. Select the **Administer** tab at the top of the screen. Note: If the **Administer** tab is grayed out, the user credentials with which you are logged in do not have administrative rights. Please log in as a user with administrative rights.
- 3. Select **Back up** from the list on the left side of the screen.
- 4. Select the **Back up** button under **Back up Configuration**.
- 5. You will be prompted to save the file. Select OK.

	Dashboard Monitor Configure Administer
Preferences Back up Restart	Back up / Restore Back Up Configuration Click Back Up to save an archive file of your current ZoneDirector configuration. This archive will simplify system recovery if needed. Back up
Upgrade License Diagnostics	Restore Configuration If you need to restore the system configuration, click Browse, and then select the backup file that contains the settings that you want to restore. Browse No file selected.
Registration Support	Restore to Factory Settings If needed, you can restore ZoneDirector to its factory settings, which will delete all settings that you have configured. You will need to manually set up ZoneDirector again. For more information, see the online help. Restore to Factory Settings

How to restore your ZoneDirector configuration

Follow steps 1 through 3 provided in the section above titled "How to back up your ZoneDirector". Then, from the **Back up / Restore** page, select the **Choose File** button under **Restore Configuration** and locate your backup file. The backup file will have a **.bak** file extension.

You will be presented with three radio buttons regarding which settings you wish to restore.

NOTE: If you select the "**Restore everything**" radio button, ALL current ZoneDirector settings will be overwritten.

Restore Configuration

If you need to restore the system configuration, click Browse, and then select the backup file that contains the settings that you want to restore. MyCompany-Client_db_042815_10_36.bak (62848 bytes). Choose a restore type:

Restore everything.

- Restore everything, except system name and IP address settings (for failover deployment at the same site).
- Restore only WLAN settings, access control list, roles, and users (use this as a template for different sites).

Restore Cancel

How to pin reset your ZoneDirector



To pin reset your ZoneDirector to factory default configuration, using a straightened paperclip, press and hold the **RESET** button for 8 - 10 seconds then release.

NOTE: Pin resetting the ZoneDirector will erase ALL configuration settings. Please ensure that you have a backup of your ZoneDirector configuration before pin resetting.

How to upgrade your ZoneDirector firmware

NOTE: All new ZoneDirectors are shipped with the latest stable firmware release from Access Networks, so there is no need for an immediate firmware upgrade. Should you need to upgrade your ZoneDirector's firmware at a later date, please contact **support@accessca.com** to obtain the firmware image.

To upgrade your ZoneDirector:

- 1. Log into your ZoneDirector.
- 2. Select the Administer tab at the top of the screen. Note: If the Administer tab is grayed out, the user credentials with which you are logged in do not have administrative rights. Please log in as a user with administrative rights.
- 3. Select **Upgrade** from the list on the left side of the screen.
- 4. Select the **Choose File** button under **Software Upgrade**.
- 5. Browse to the location of the firmware file that you downloaded from Dropbox.
- 6. Follow the prompts. You will be asked to backup your current configuration for safety. Please do so.

NOTE: The upgrade process can take up to 30 minutes to update the ZoneDirector and all connected access points. When the upgrade is complete the ZoneDirector will automatically restart and you will be presented with the login page.

7. Log into your ZoneDirector and check the **System Overview** dashboard widget to verify that the firmware version has been upgraded. The **Status** column of the **Currently Managed APs** widget should also be checked to verify that all access points have been upgraded and are listed as **Connected**. For further information, please refer to the screenshot and instructions found on Page 9.

To set up your optional FlexMaster remote management account, please send an email to **support@accessca.com** with your company name. Once your account has been set up, we will send you an email with a link to our FlexMaster server. Your username will be your email address, and a temporary password will be generated for you. You may use the temporary password to access your account and then change the password as follows:

- 1. Select the Administer tab at the top of the screen.
- 2. Select Users & Assignment from the list on the left side of the screen.
- 3. Select the blue **Edit** hyperlink next to your user account. This will bring up a window that will allow you to enter your new password. Once you have entered your new password in both the **Password** and **Confirm Password** fields, please select the **OK** button.

In order for each of your ZoneDirectors to appear on the **Inventory** tab within your FlexMaster account, you must submit a support request for Access Networks to assign the ZoneDirector to your FlexMaster account. To do so, please send an email to **support@accessca.com** with your company name, ZoneDirector serial number and system name. Please allow one business day for Access Networks to configure your FlexMaster account and assign your ZoneDirector(s) to your account.

As shown below, the FlexMaster **Dashboard** has multiple widgets that will give you an overview of all your deployments. Selecting the **Inventory** tab will show you a list of all ZoneDirectors linked to your FlexMaster account and the status of each ZoneDirector. Selecting a blue serial number hyperlink of a specific ZoneDirector will log you into that ZoneDirector provided that port forwarding has been configured on the router as indicated on Page 9.



Customer ZoneDirector information

System Name:	
Serial Number:	I
Admin Name:	J
Password:	·

Customer wireless information

SSID	Passphrase	Encryption Type
		WPA2 /AES
		WPA2 /AES
		WPA2 /AES