Using the Avi-on ZoneScanner Tool

Want detailed step-by-step? Click this link or scan QR at right $\rightarrow \rightarrow \rightarrow$





Step 1 for Project Manager: Prepare ZoneScanner for Use

Download ZoneScanner by clicking link below

ZoneScanner is not available In any app store

View ZoneScanner Tool



Invite Electricians to ZoneScanner Tool

- 1) If you haven't already, create an Avi-on account with the Avi-on Mobile Commissioning App; login
 - Ask Location Manager to be invited to Location
- 2) Navigate to (and select) the project's location with which you would like to use the ZoneScanner
 - If you are not already a member of the project's Location, ask a Location Manager to be invited
- 3) Select "Join Location with ZoneScanner"
 - Share the 4-digit code with electricians

Need to test & assemble fixtures with controls? Click this link or scan the QR





Step 1 for Electrician: Scan→ Assign Zone→ Install

- Download *ZoneScanner Tool* (see instructions above)
- Contact Project Manager or create a 4-digit ZoneScanner Code (see instructions above)
- Scan QR sticker on outside of fixture, then add it to the correct zone
- For best results, all phones need Wi-Fi or data ON
- ZoneScanner locates ONLY controllers (IFAC, LVFA, XFAC): DO NOT SCAN SENSORS
- Zonescanner 'names' the device using the last four digits of the MAC address on the sticker $\rightarrow \rightarrow \rightarrow$

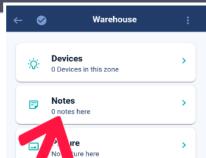


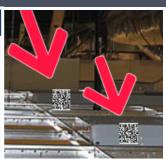


Step 2 for Electrician: Locate controls & take notes

Use NOTES to record sensors, wall stations, & other devices

- Document wall stations, stand alone Bluetooth sensors, and other devices in the NOTES section of each zone
- If data or Wi-Fi is not available during scanning, all ZoneScanner users must periodically connect their phones to Wi-Fi or Data and open their ZoneScanners to sync. This may take several minutes. A check box will appear in the top left corner of the ZoneScanner when complete data is synced. NOTE: Until data from ALL individual ZoneScanner Tools are synchronized with the cloud, devices will appear only on individual phones





Step 3 for Electrician: Resolve Power, Wiring, & Fixture Issues BEFORE LEAVING SITE

Use the <u>Electrician's Checklist</u> to resolve power, wiring, fixture, & driver issues before you leave the site. Click the link above scan QR at right →



Need help? If you installed an Avi-on LTE Bridge when the site was powered, then you can request assistance from an Avi-on Remote Technician at <u>Avi-on.com/Contacor scan QR at right</u> →



Step 2 for Project Manager: ADD Devices, then IMPORT ZoneScanner Data into Avi-on Pro

SEE NEXT TWO PAGES FOR BEST ZONESCANNER PROCESS If you are unable to "see" all of the devices that you have scanned, please ask all *ZoneScanner Tool* users to connect their phones to Wi-Fi, open the *ZoneScanner Tool*, and then sync their *ZoneScanner* data with the cloud. *This may take several minutes*



Using the Mobile Commissioning App? Use ZS data for reference—it does not import into Mobile. Details here or scan QR $\rightarrow \rightarrow$

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ZoneScanner FAQs for Qualified Avi-on Pro Technicians Only

Q1: How does the ZoneScanner speed installation?

The ZoneScanner is like a 'smart notebook: electricians download the ZoneScanner Tool to a smartphone and use their camera to snap Avi-on QR codes, assigning the fixtures to specific project zones as they install

Q2: When using Avi-on Pro, why ADD devices before IMPORTing ZoneScanner data?

- ADDing devices to a project's account (aka 'claiming') embeds a unique security key in the device's memory. Devices must be powered to ADD
- IMPORTing ZoneScanner data will automatically convert zones into groups. Groups can be ASSOCIATED with sensors or wall stations so you can quickly program large areas
- Always ADD devices before you IMPORT ZoneScanner data

Q3: How should I name my Avi-on devices so I can easily filter them later?

The ZoneScanner automatically names devices using the Product Name + Last 4 Digits of MAC on the QR sticker. The following naming convention may help you to filter and program similar devices

- Emergency devices: Add! to end of device name
- Daylight zones: Add * to end of zone or group
- Daylight harvesting controller: Add ** to end of device name
- Devices w/ 3rd party wired sensors: Add % to end of device name

Example: [Class 0927]-3DC6-IFAC! = room number, the last 4 of the MAC, product, and that it is an emergency fixture

Q4: What is the best way to SCAN-POWER-ADD-IMPORT?

Follow these steps:

- 1) Scan-Zone-Install ALL devices using ZoneScanner.

 Devices do not have to be powered to use ZoneScanner
- 2a) Power devices in a small area
- **2b) ADD** ('claim') devices to project's location. Login to Pro, and ADD everything that is powered and pinging (aka 'visible in Pro'). *This step may take several minutes*
- 2c) As devices ADD, check to make sure that they are operating properly: address any failures to ADD and follow prompts. At this stage, you will be able to individually control on/off. If you cannot ADD a

individually control on/off. If you cannot ADD a device, then it is not powered. *Use the <u>Electrician's</u>* Checklist to resolve power & wiring issues →



4) <u>Download ZoneScanner data.</u> Once ALL devices are ZONESCANNED, POWERED, <u>and</u> ADDED, then use Pro to download the ZoneScanner data to your project's account. *The ZoneScanner will* automatically assign zones to groups. Details → ■

7) Program groups + individual devices according to project's *Order of Operations* per *Prewire Meeting*



ZoneScanner Strategy: Serial v. Phased Approach?



Electricians and the Project Startup Technicians can work together in series -or- as a parallel team over phases

SERIAL APPROACH Recommended	PHASED APPROACH ZoneScanning QR Codes & ADDing Devices to Project Locations		
Advantage: When data is imported to Pro, it automatically builds entire groups	Comments: Because groups are created in parts, the phased (or 'leapfrog') method may result in more 'repair group' & error messages		
		Electricians	Remote Avi-on Technician
ELECTRICIAN ZoneScans & Installs ALL devices (a) Electrician plugs in the Avi-on LTE Bridge ¹ , (b) then ZoneScans & Installs the entire project — Devices are either powered as they go, or left powered when installation is completed	Day 1	Electrician plugs in the Avi-on LTE Bridge¹ Phase 1: Scan-Zone-Install-Power controls	Teaches Electrician to use ZoneScanner Tool
	Day 2	Phase 2: Scan-Zone-Install-Power controls	Phase 1: Uses Pro to (a) ADD devices to project's location, and (b) DIAGNOSE devices with power/wiring problems
	Day 3	Phase 3: Scan-Zone-Install-Power controls	Phase 2: ADDs & DIAGNOSEs devices
REMOTE AVI-ON TECHNICIAN uses Pro ADDs Devices & IMPORTs ZoneScanner Data (a) Uses Pro to ADD devices to project's location (b) IMPORTs ZoneScanner data to create groups (c) Tests groups: DIAGNOSEs power/wiring issues	Day 4	Phase 1-2-3: Resolve power/wiring problems identified by Remote Startup Tech	Phase 3: ADDs & DIAGNOSEs devices Phase 1-2-3: Imports ZoneScanner Data to Pro, test/diagnose groups Phase 1-2-3: Work with Electrician to resolve power/wiring issues
Electrician & Startup Tech Work Together to Resolve Power/Wiring Issues	Day 5	Done	Device onboarding complete Startup commissioning

¹ If an LTE Bridge is not installed, then all ADD/IMPORT functionality must be done by an onsite, local startup technician

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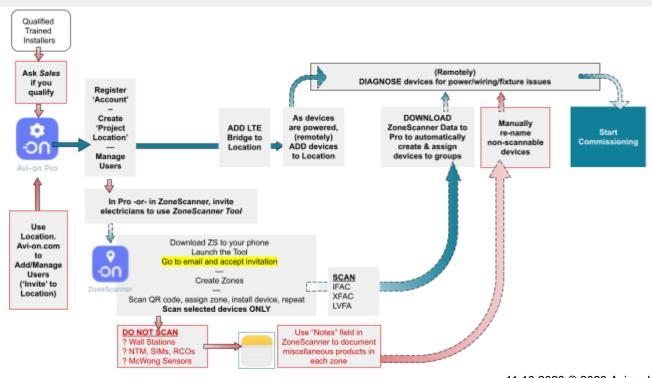


Pro: Detailed ZoneScanner Workflow





Do not create duplicate locations, as they cannot be combined



Zone Scanner



Mobile Commissioning App: Detailed ZoneScanner Workflow



Want to check if a Location already exists? Go to Avi-on.com/Contact or scan the QR code at right →

Do not create duplicate locations, as they cannot be combined Download ZoneScanner data to CSV as a reference tool for manually entering the data into the Mobile Commissioning App

