



Vision Pro™: Visibility Overview

Reference Guide

POWERFLEET®

People Powered IoT

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INTRODUCTION

This overview guide will introduce you to the core concepts and basic functionality of the **Visibility** module and its **MAPS** and **ZONE PROFILES** features. In this guide, you'll learn how to:

- Navigate Visibility Maps
- Interpret map icons
- Use map controls
- Filter, save and send playback videos
- Understand the concept of Zones
- Create Zones and assign them to Zone Profiles
- Add an indoor map to represent the floor plan of your facility

Visibility | Maps

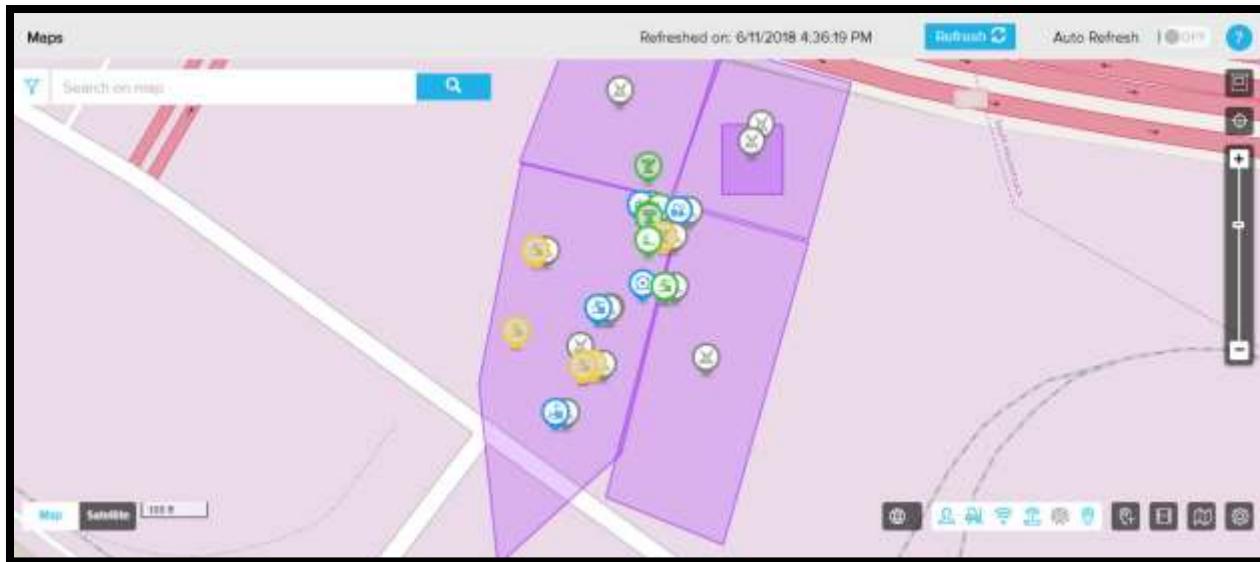
The Visibility tool's **Maps** feature interprets data transmitted by the components of your **Enterprise Vehicle Management System (VMS)** to provide you with detailed insight into:

- Operator and vehicle activity within and around your facility.
- Communication management devices and their access points delivering and receiving data throughout your facility.
- Zone structures you've created to monitor specific vehicle and operator activity.

This information is provided visually using a variety of real-time map views, while past activities and events can be filtered, saved, and shared using **PLAYBACK MODE**.

Visibility | Zone Profiles

Zones are specific areas that you define within or around your facility. The Visibility Maps feature provides tools for you to create zones on your map and allows you to view facility activities in relation to those zones.



Entities & Icons

It's important to understand the relationship between the icons you see on the Visibility map and the actual entities they represent. You'll notice this distinction when the guide references something as an **entity** or an **icon**.

Entities are your vehicles, operators, access points and any other elements of your VMS represented as an **icon** on the map. Below are a few examples:



Facility



Zone



Vehicle



Operator

Icons are the visual representations of your **entities** on the map. Below you'll see how the examples above are displayed on the map as an icon.



Facility



Zone



Vehicle



Operator

Interacting with map icons allows you to access the most recent information about the entity associated with that icon, and perform actions related to those entities.

Vision Pro Online Help

For detailed information on Maps, Zone Profiles, and any other screen where you see the **QUESTION MARK ICON**  in the upper right corner of the screen, click the icon to access the **Vision Pro Online Help Knowledge Base**.



NAVIGATING MAPS

1. From the Vision Pro main menu bar, click on **Visibility**.

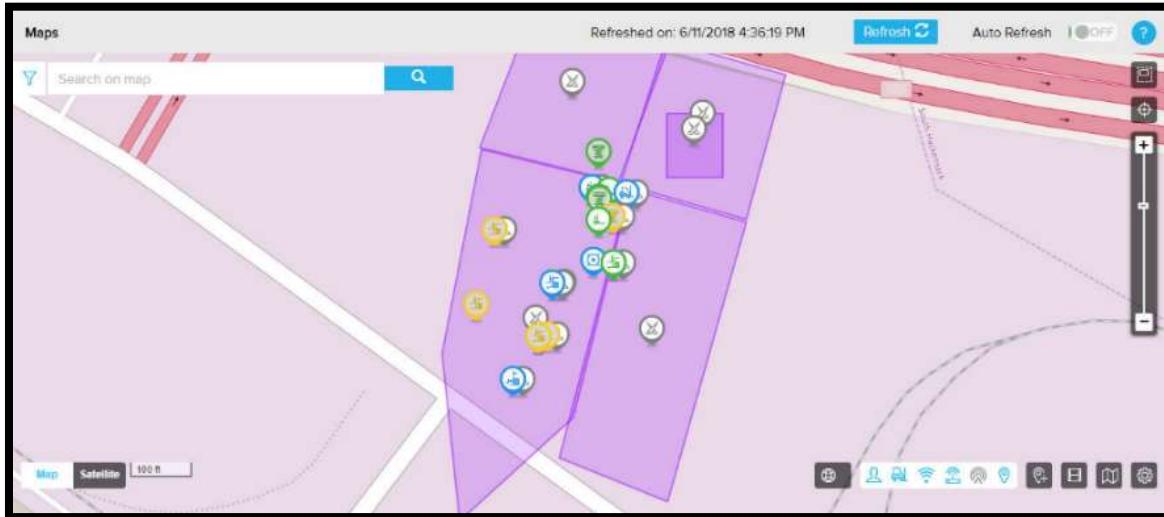


2. Select **Maps** from the Visibility drop-down menu.

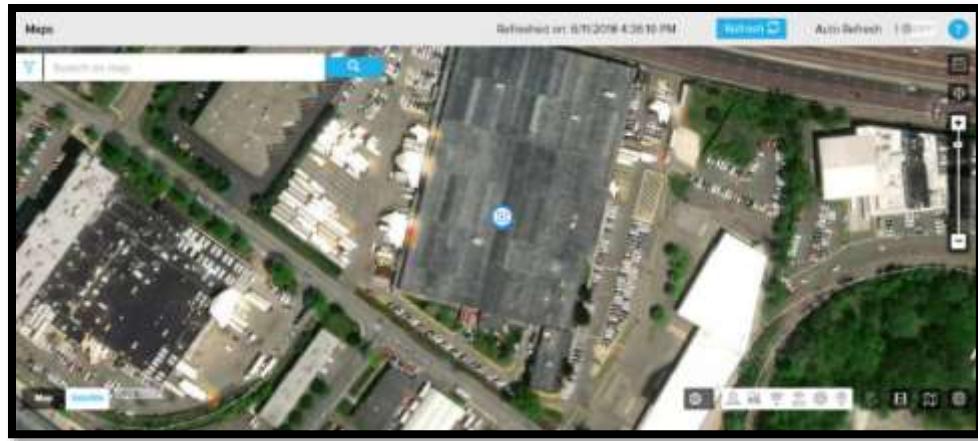


3. When you log in to the Maps tool, your map view will display one of two ways.

- If the Visibility Maps tool is already in use and fully configured at your facility, you will see on-screen icons for operators, vehicles, access points and other components of your system. If you've been using the Maps feature, the view settings will be as they were during your previous Vision Pro session, allowing you to pick up where you left off.



- If this is your first time accessing the Visibility Maps feature, there should be some basic coordinates loaded into Vision Pro. Using data from your organization's initial site allocation, the map view will zoom to your facility's location.



4. Navigate the Visibility Map with your mouse the same way you navigate a satellite map of weather or traffic conditions.
 - Click and hold to “grab” the map and drag it to the area you want to view.
 - Scroll up to zoom in.
 - Scroll down to zoom out.

Interpreting Vehicle Status

The color of a vehicle icon provides an at-a-glance indication of its present status.

BL U E	G R E E N	Y E L L O W	R E D
Operator is logged on / vehicle is in break mode	Available	Not communicating	Locked / out of service

Accessing Map Entity Details

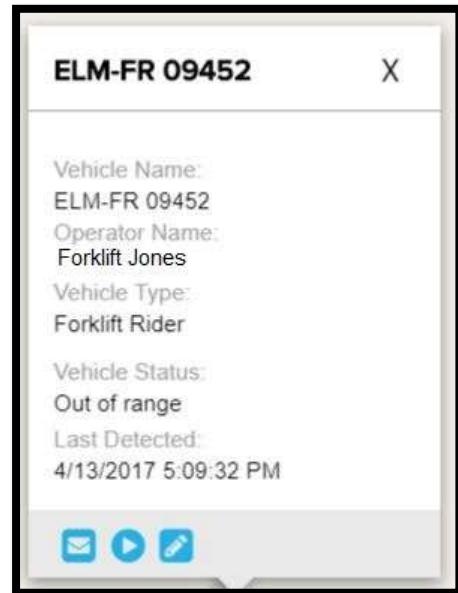
Clicking on a vehicle icon will open an information window that displays the following details:

- Vehicle Name/ID
- Operator Name
- Vehicle Type
- Vehicle Status
- When the vehicle last communicated with the system

Clicking on other map icons will bring up similar status windows that shows you information specific to that entity.

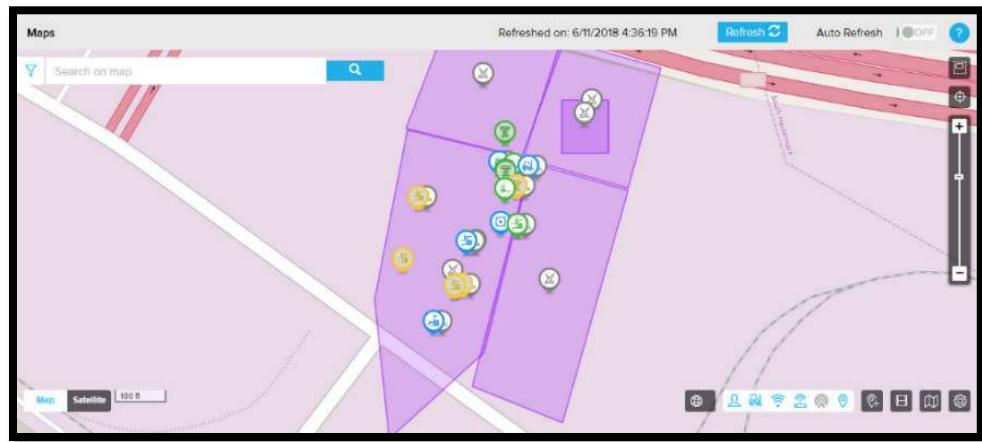
For example, clicking on a **WIRELESS ASSET MANAGER (WAM)**, displays the following details:

- WAM Name
- WAM ID
- WAM Status
- IP Address
- When the WAM last communicated with the system



USING MAP CONTROLS

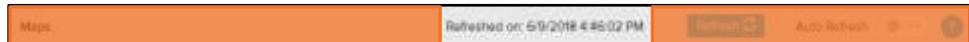
The controls on the Maps display allow you to search for individual entities and assets by ID, name, or search term, set the map window to display a specific area or street address, and use filters to refine the set of assets and icons displayed on the map.



Refreshing the Map View

The map displays visual elements of your VMS based on the last time data was refreshed.

The **Refreshed on:** date and time displayed on the bar above the map indicates when the data was last refreshed.



You can manually update the map data by clicking on **Refresh**.



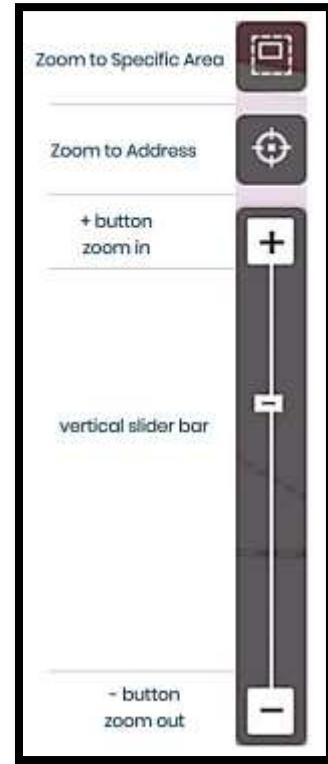
Alternately, you can set the system to automatically refresh map data by clicking the **Auto Refresh** toggle to the **On** position.



Zoom Functions

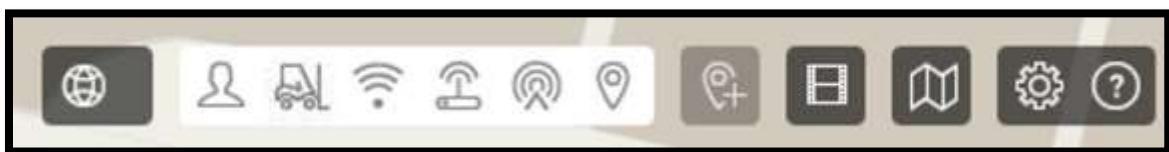
A set of standard satellite map zoom controls are located on the right side of the map display. You can use these controls to reposition the map view.

- Click on the **Zoom to Specific Area** control to select a specific section of the map to zoom in to using your mouse.
- Click on the **Zoom to Address** control to pull up a street address on your map. As you type into the field, the system tries to auto-predict the location based on the information you've enter. Once you find and select the address, your view will zoom to that location. This feature is helpful if you have multiple locations that share trucks or over-the-road (OTR) vehicles that may move from location to location.
- **Manual Zoom** allows you to use the **vertical slider bar** or **+ / - buttons** to manually zoom in and out of an area.



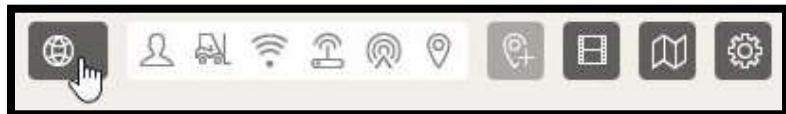
Map Tools

The map tools are in a tray at the bottom left corner of the main map screen. Depending on the tool's function, clicking on its icon will either activate related features or show/hide its corresponding icons on the Map screen.

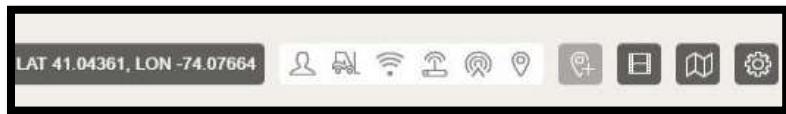


Current Position Control

When activated, the Current Position Control displays latitude and longitude based on your mouse pointer's location on the map.



Move your pointer to different places on the map and the coordinates update accordingly. When you position your pointer over a map icon, the Current Position Control tool shows you the geographic coordinates of the corresponding entity.



System Entities & Icons

People (Operators)

Click the **Show People** button to show or hide icons representing the location of operators based on the vehicle where they most recently logged in.



When shown on the map, click on an operator's People icon to view information about that operator based on the most recent data.

Vehicles

Click the **Show Vehicles** button to show or hide icons representing the location of vehicles equipped with a **VEHICLE ASSET COMMUNICATOR (VAC)**.



When shown on the map, click on a vehicle's icon to view information about it based on the most recent data.

WAMs

If your location uses Wireless Access Managers (WAMs) for VMS communication, click on the **Show WAM** button to show or hide icons representing the location of the WAMs on your location.



When shown on the map, click on the WAM icon to view information about that WAM based on the most recent data.

Beacons

If your location uses beacons for VMS communication, click the **Show Beacon** button to show or hide icons representing the location of the beacons installed at on your location.



When shown on the map, click on a beacon's icon to view information about that beacon based on the most recent data.

Access Points

If your location uses Access Points (APs) for VMS communication, click on the **Show Access Point** button to show or hide icons representing the location of the APs on your location.



When shown on the map, click on the AP icon to view information about that device based on the most recent data.

Zones

Zones allow you to create virtual areas on your map that correspond with actual physical areas at your location where you want to monitor or measure vehicle or

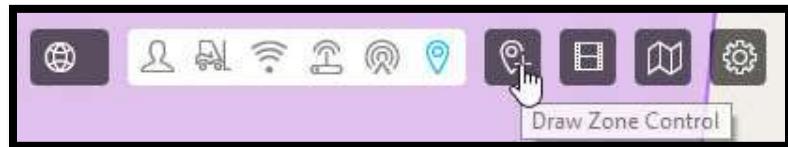
operator activity. If you've created zones on the map, click on the **Show Zone** button to show or hide icons representing those zones.



When shown on the map, click on a zone's icon to view information about that zone based on the most recent data.

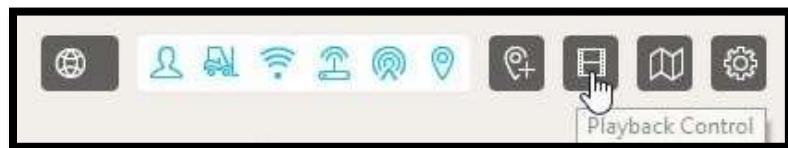
Zone Creation Tool

To the right of the VMS System Entities & Icons is the **Zone Creation Tool**. This tool allows you to create a **standard zone** or a **blockout zone** on the map to correspond with specific areas in or around your location.



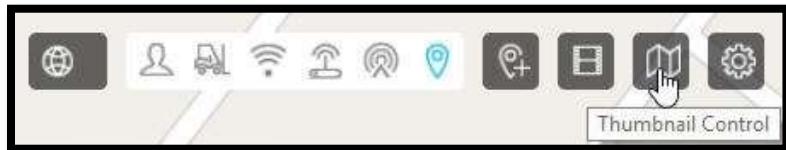
Playback Control

Clicking on the **Playback Control** button opens a window that displays a list of saved playback clips. These clips can be reviewed and shared with other users.



Thumbnail Control

Clicking on the **Thumbnail Control** button allows you to save your current map view and select or delete saved map views.



When the Thumbnail Control is active, a thumbnail image of the current map view appears above the toolbar.

To the left of the image is a plus sign **+** and a pair of left angle brackets **<<**.

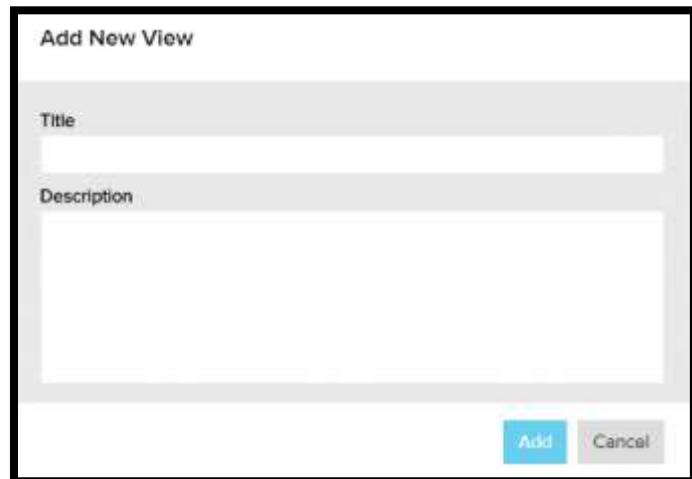


Saving a Map View

1. To save the current map view, **click the plus sign **+****.



2. A window will open and prompt you to **enter a title and description for the new map view**.



3. Enter a title and description, **click the Add button**.



4. A banner will appear above the map controls confirming that the new "mini-map" view saved successfully.



Selecting a Saved Map View

5. To automatically reposition your current view to a previously saved map view, **click the left angle brackets <<**.



6. A scrollable list of thumbnails will expand out from the current thumbnail view. To scroll through the list, **click the left or right bracket < >**.

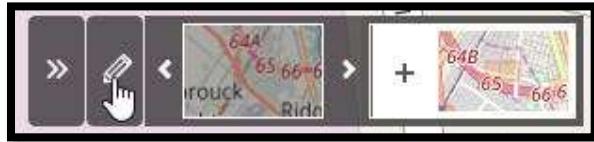


7. Select a thumbnail and the map will reposition itself to the selected view.



Deleting a Saved Map View

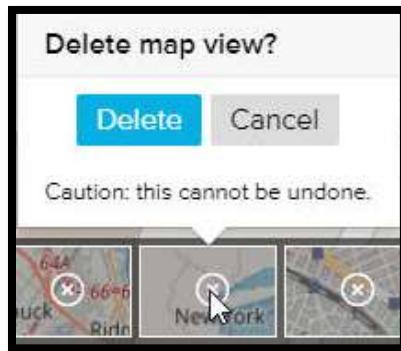
8. To delete a saved view, [click the pencil](#) .



9. The Thumbnail Control switches to Edit Mode. Click the  displayed over the thumbnail you want to delete.



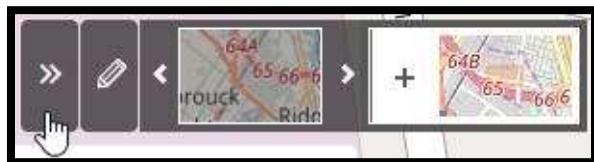
10. A message will appear, asking you to confirm that you want to delete the saved map view. [Click the Delete button](#) to continue.



To exit Edit Mode and return to Thumbnail Control view, [click the sight icon](#) .

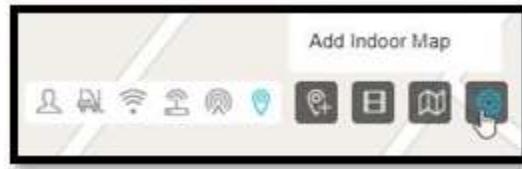


To collapse the thumbnail scroll, [click the pair of right-angle brackets >>](#).



Add Indoor Map

Clicking on the **Add Indoor Map** button allows you to load an AutoCAD DXF file of your facility floor plan to be displayed on the map.



SETTING MAP BOUNDARIES

If the location of your facility is not loaded into the system, the [Set Map Boundaries](#) feature allows you to create a very simple, rectangular area and place it on the map to represent the location of your facility. Using this feature allows the map view to auto-zoom to the location of the facility when new users access the map.

From a more technical standpoint, manually setting your facility's map boundaries helps determine vehicle location within certain communication environments and supports the system's ability to automatically add Access Points.

NOTE

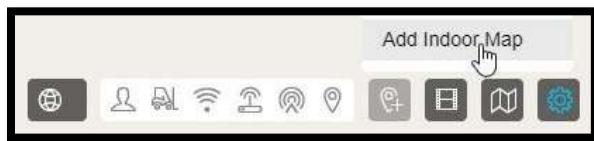
You should only need to use the Set Map Boundaries feature to define your facility location under certain circumstances. For example, if your facility is not using a GPS-based location system for vehicle and asset tracking, manually set the map boundaries would provide coordinate data to support Visibility Map functionality.

Setting Your Facility's Map Boundaries

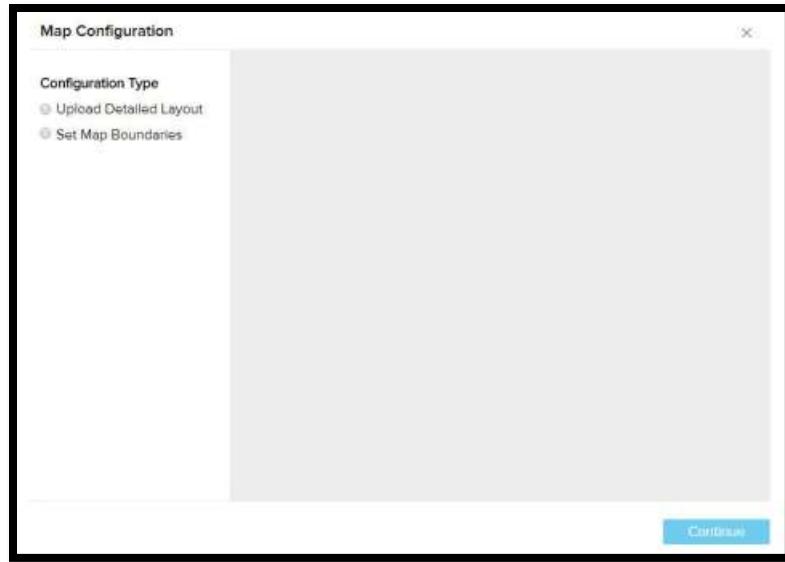
1. From the [MAP TOOLS](#) located in the bottom left corner of the map screen, click the [Export / Add Indoor Control](#)  button.



2. Select [Add Indoor Map](#).



3. The [Map Configuration](#) screen will appear.



4. Under Configuration Type, select Set Map Boundaries.



5. Click Continue.



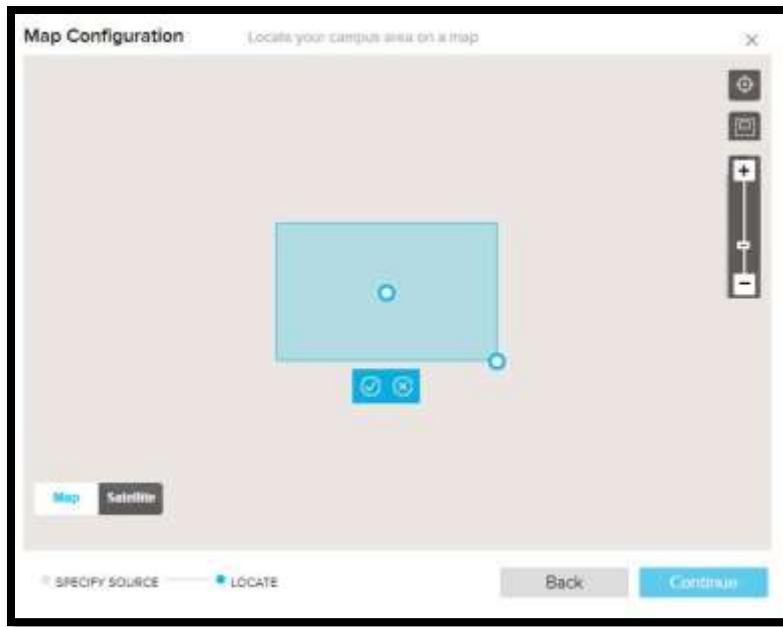
NOTE

Typically, it is easier to locate your facility location and create map boundaries with greater accuracy using the map's Satellite view, as shown below.



However, to provide a clearer visual of this process, the following instructions use the standard Map view.

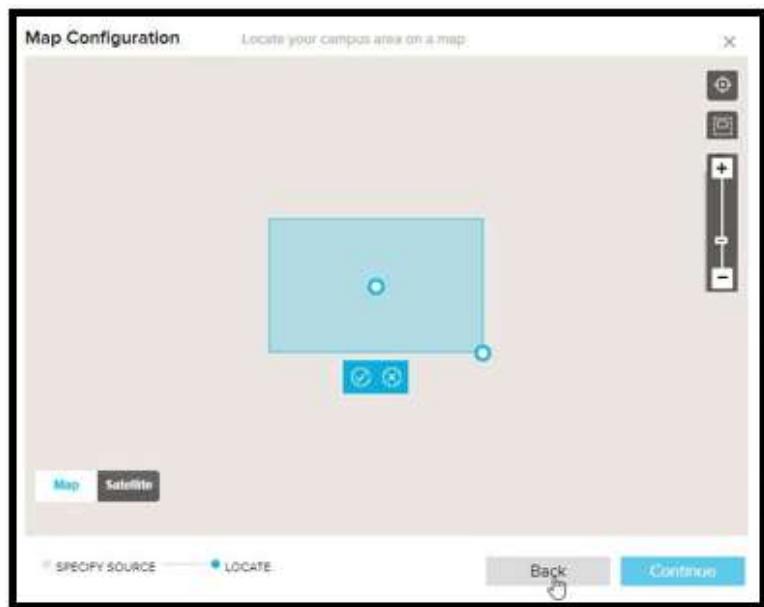
6. The Map view will open and should be within the general area of your facility. If you're not sure, zoom out to verify your location and adjust your map position as needed.



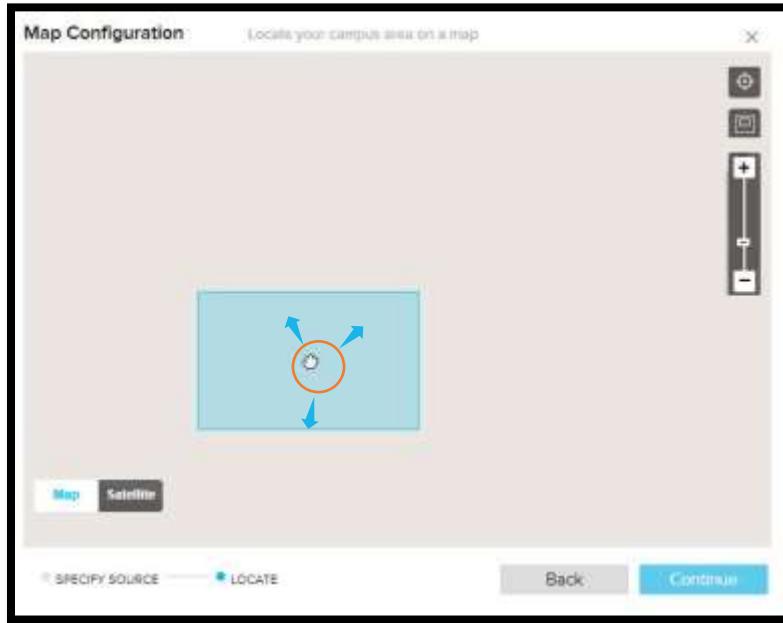
You will also see a **blue box**. Using a few simple controls, you'll use the blue box to define your facility map boundaries.

NOTE

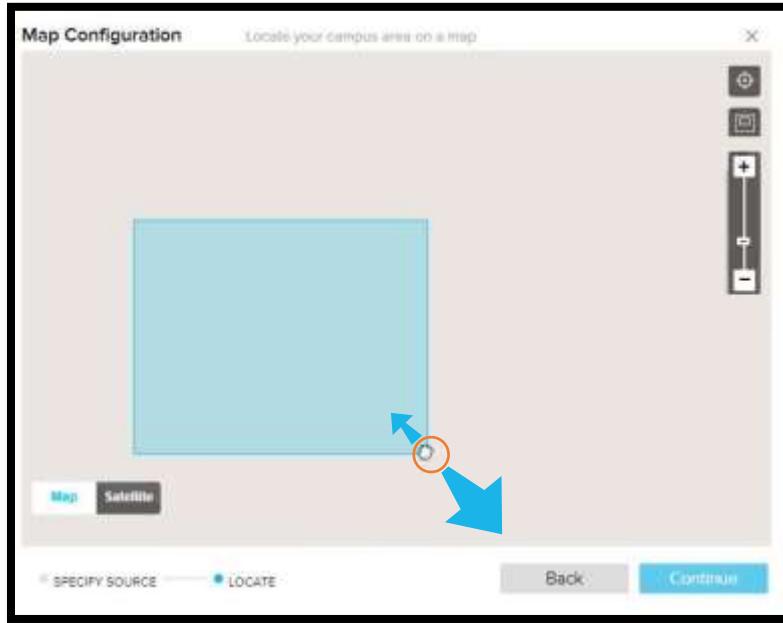
At any point, you can return to the **ADD INDOOR MAP - CONFIGURATION TYPE** selection screen by clicking the **Back** button.



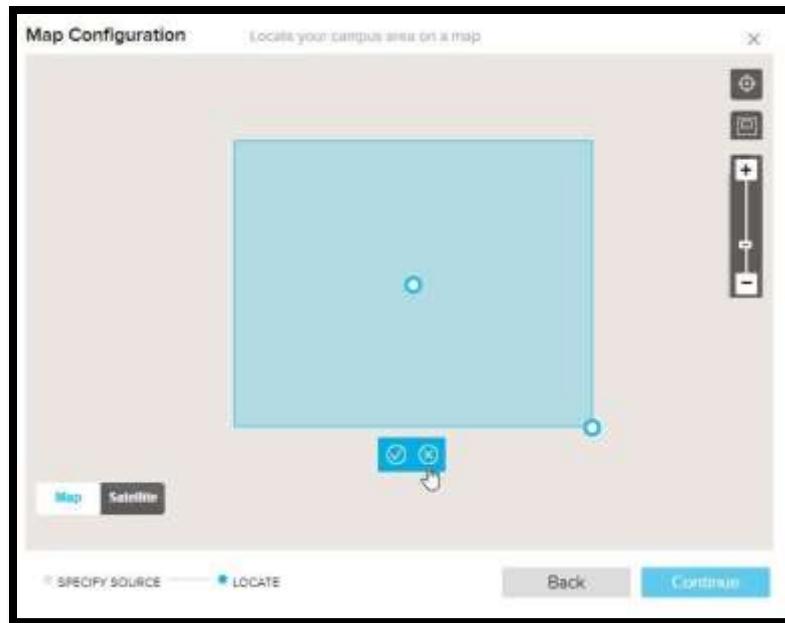
7. Click and hold the blue dot in the center of the box to **move** your map boundary area.



8. Use the dot at the corner of the box to **resize** your map boundary area.



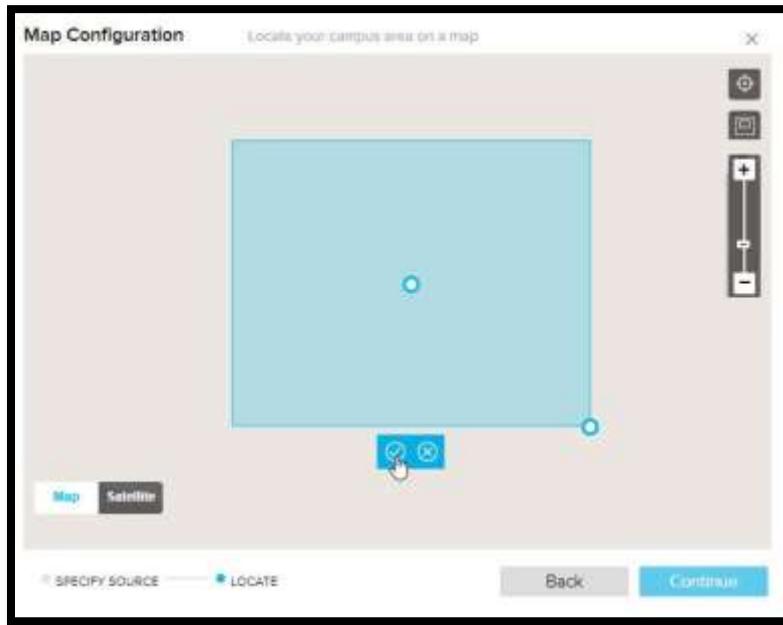
9. If at any point you decide that you want to start over, click the **x** icon .



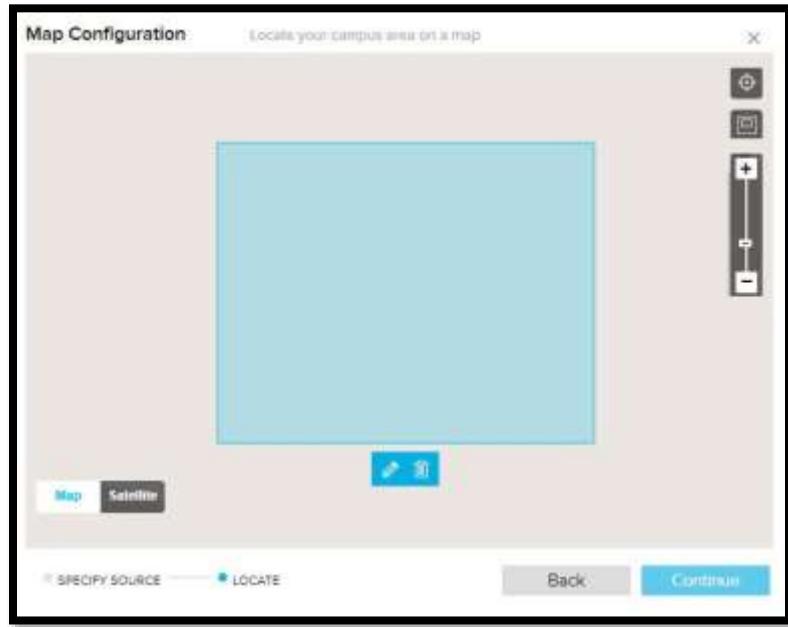
10. The boundary box will disappear, allowing you to create a new map boundary box.



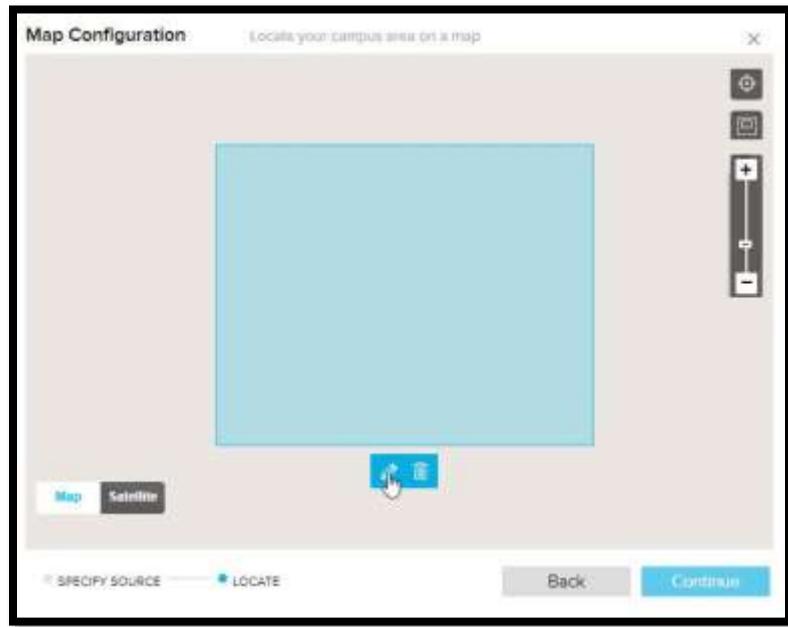
11. When you finish creating your map boundary, click the checkmark icon.



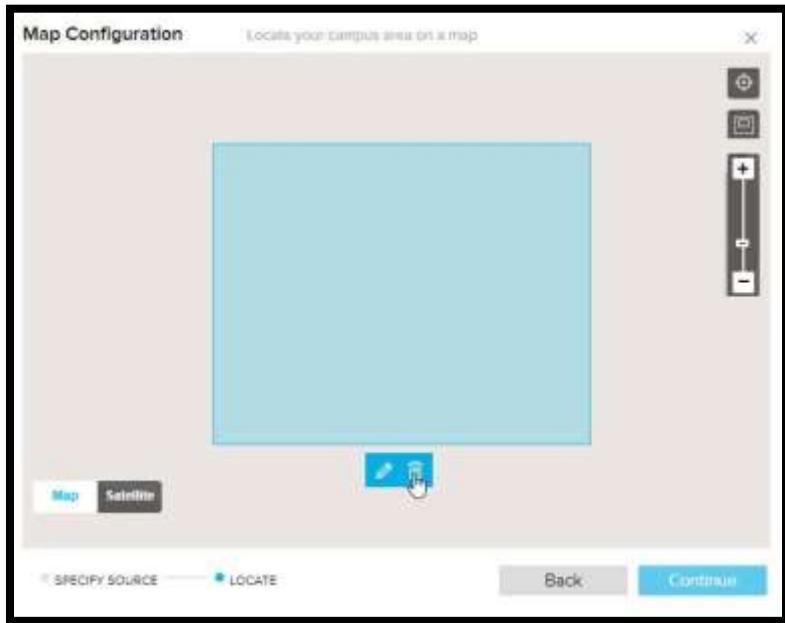
12. The checkmark / x icons  will become pencil / trashcan icons  .



13. If you change your mind and decide that you should continue editing the map boundary box, [click the pencil icon](#)  and the boundary box creation controls will return.



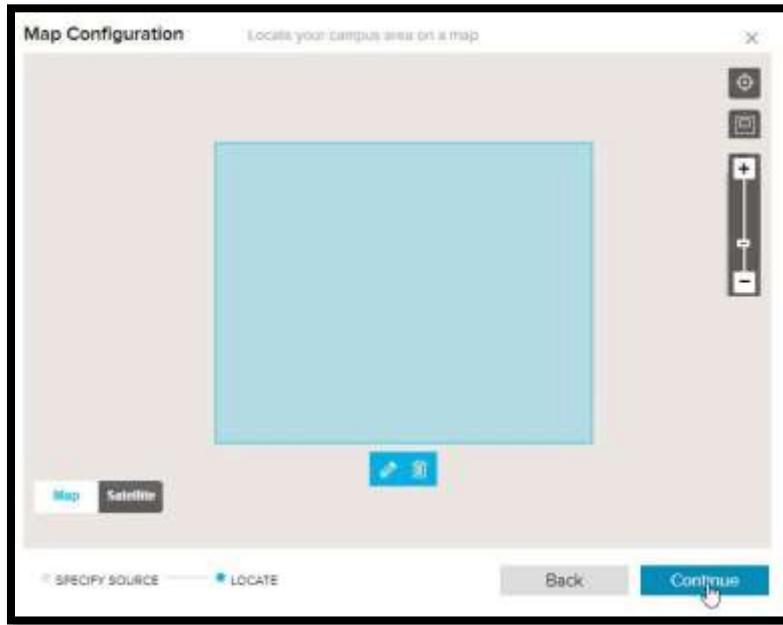
14. If you want to delete the map boundary box and start over, [click the trashcan icon](#) .



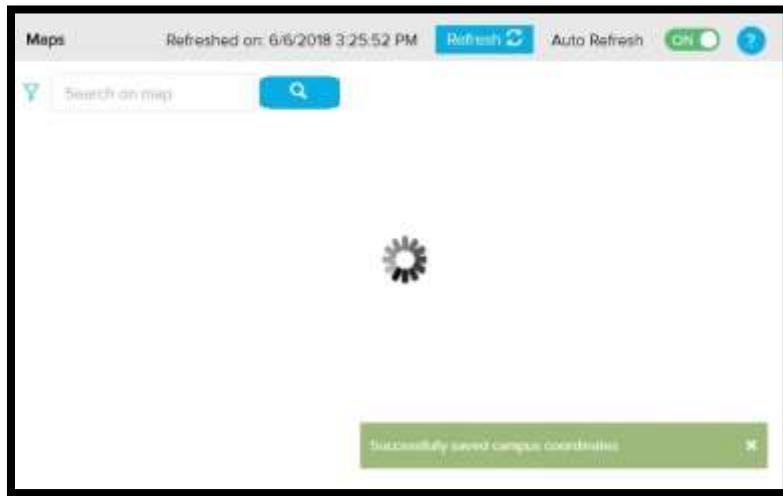
NOTE

You can always modify or start over and create a new boundary at any time and for any reason. As you use the Maps tool over time and become familiar with how vehicle data is interpreted, you may want to make slight modifications for accuracy.

15. When the map bounds have been created, [click Continue](#).



16. The system will save the coordinates of your floor plan and when it's finished, a green message field will appear in the lower right corner of the screen: [Successfully saved campus coordinates](#).

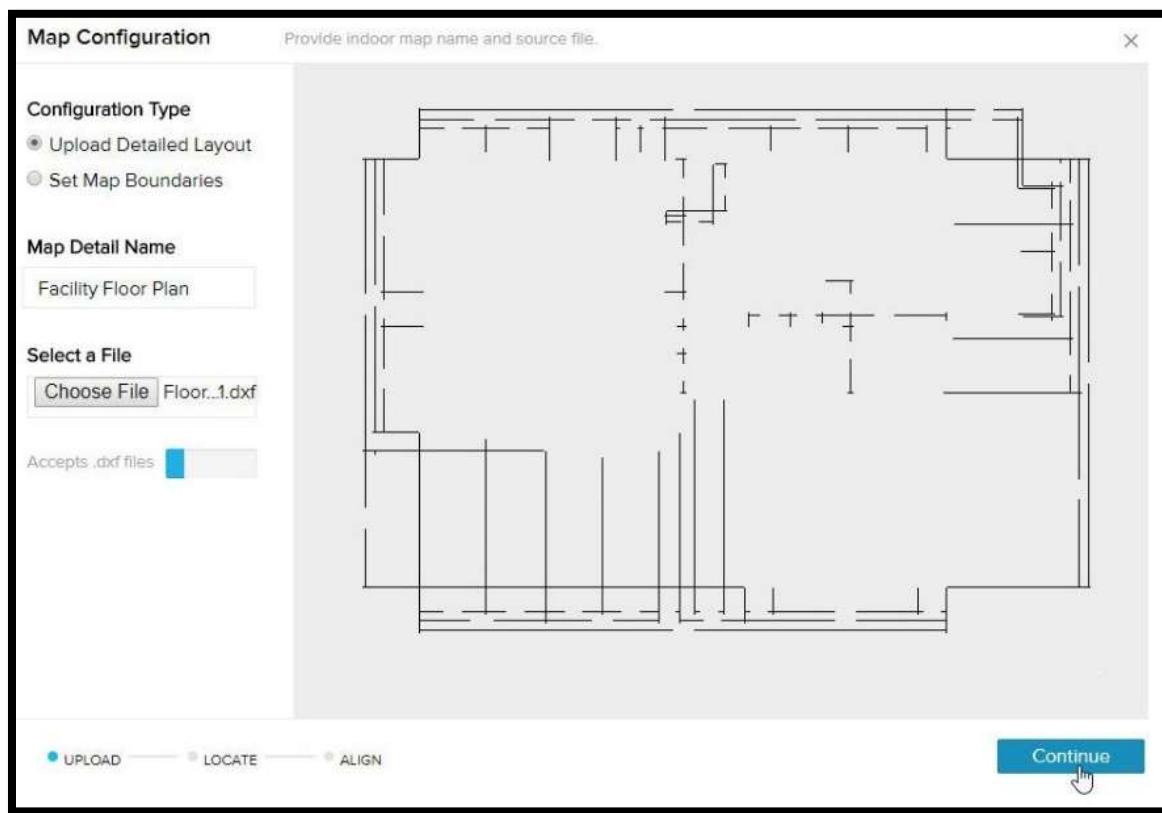


17. Process complete.

ADDING AN INDOOR MAP

When properly formatted, a file of the facility's floor plan drawing can be uploaded and placed on the map. This provides a more comprehensive view of vehicle, operator, and device activity as they relate to the physical space of your facility.

Prior to uploading a map, contact the individual or department responsible for managing drafts and digital floor plans for your organization.



As a requirement of this feature, the floor plan drawing must be uploaded as a **Drawing Interchange Format/Drawing Exchange Format (DXF)** file. If a .dxf format file cannot be provided, a .pdf can be exported from the CAD tool utilized to manage the indoor map; various cloud-based or desktop tools can be used to convert the .pdf file into a .dxf file for Vision Pro uploads.

If help is required to convert a PDF to DXF file, please contact support@powerfleet.com for assistance. Note: low input resolution will negatively impact the quality of the Vision Pro mapping.

Checklist - Preparing the Floor Plan File

- Ensure the floor plan drawing export does not contain external reference geography (i.e., Parking Lots).
- In the floor plan drawing, simplify design details for specific objects (such as vehicle-specific machinery or battery chargers) that you want included as part of your Vision Pro Visibility module's indoor map structure.
- Remove any unwanted or superfluous objects and blocks from the floor plan drawing, such as:
 - Objects within certain rooms (e.g., breakrooms, kitchens, bathrooms, etc.) that are not needed for tracking vehicles and assets.
 - Factory machinery that is not needed for tracking vehicles and assets.
 - Power lines, airducts, and other conduits that do not obstruct vehicle paths and never contact vehicles or assets.
- Ensure the floor plan includes Row and Column headings.
- Ensure the floor plan drawing is saved as a single layer DXF file.
- A spreadsheet is to be created containing the information below. This information will assist with placing the Access Points (APs) icons in the Visibility module.
 - AP # (how you want to see the label in the software)
 - AP Location (Column, Row)
 - AP's RADIO MAC Address or Addresses (BSSID). In the case of more than one BSSID per AP, it shall be expressed as follows:

Example: For AP-01 containing 3 BSSIDs

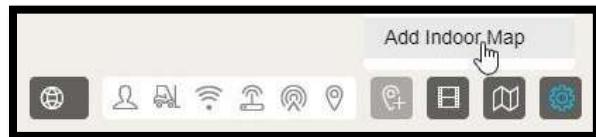
AP-01	BSSID 0E:07:23:FE:22:B1
	BSSID 0E:07:23:FE:22:B2
	BSSID 0E:07:23:FE:22:B3

Adding Your Facility Floor Plan

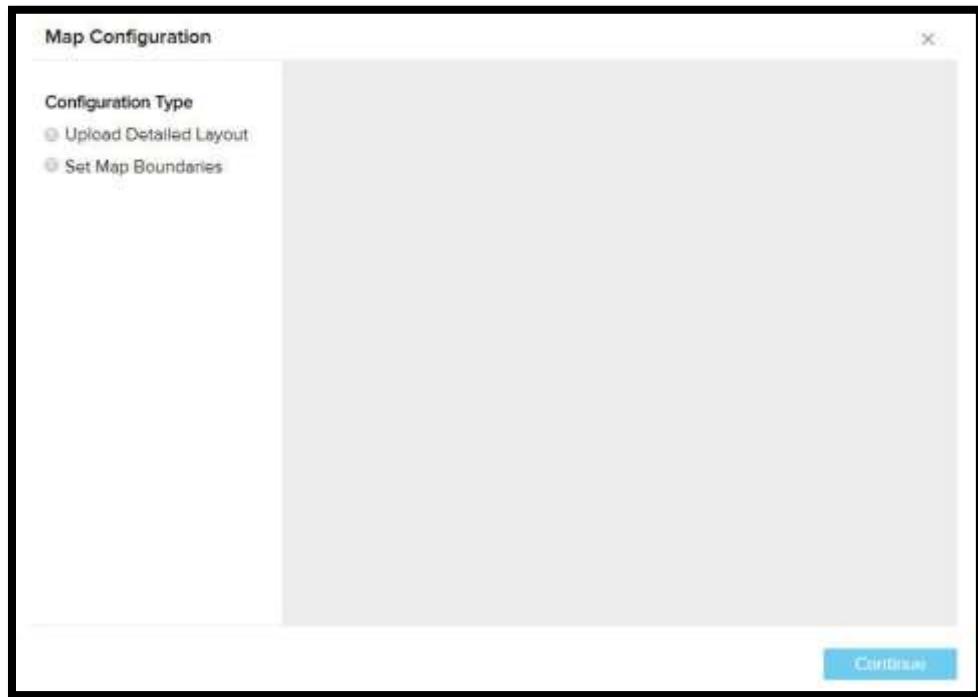
1. From the **MAP TOOLS** located in the bottom left corner of the map screen, **click** the Export / Add Indoor Control  button.



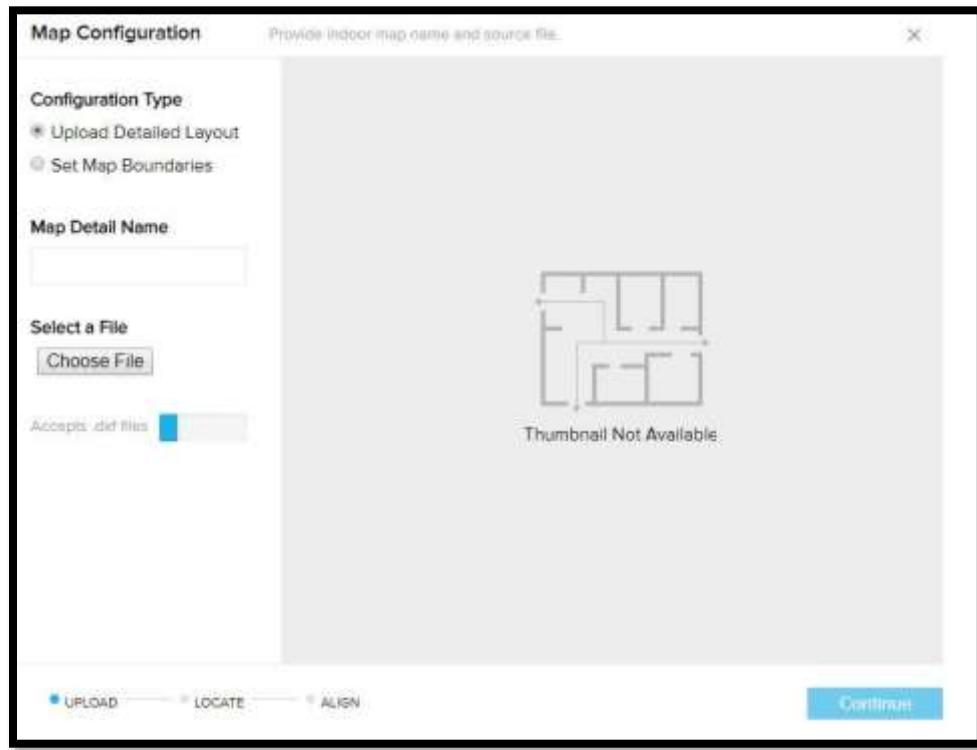
2. Select **Add Indoor Map**.



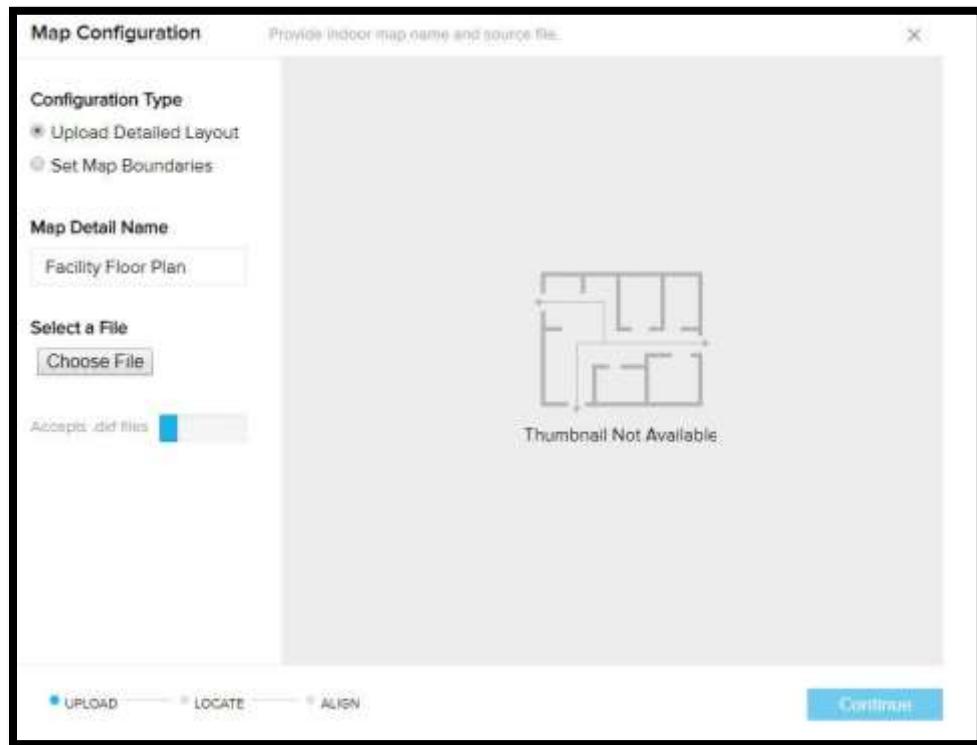
3. The **Map Configuration** screen will appear.



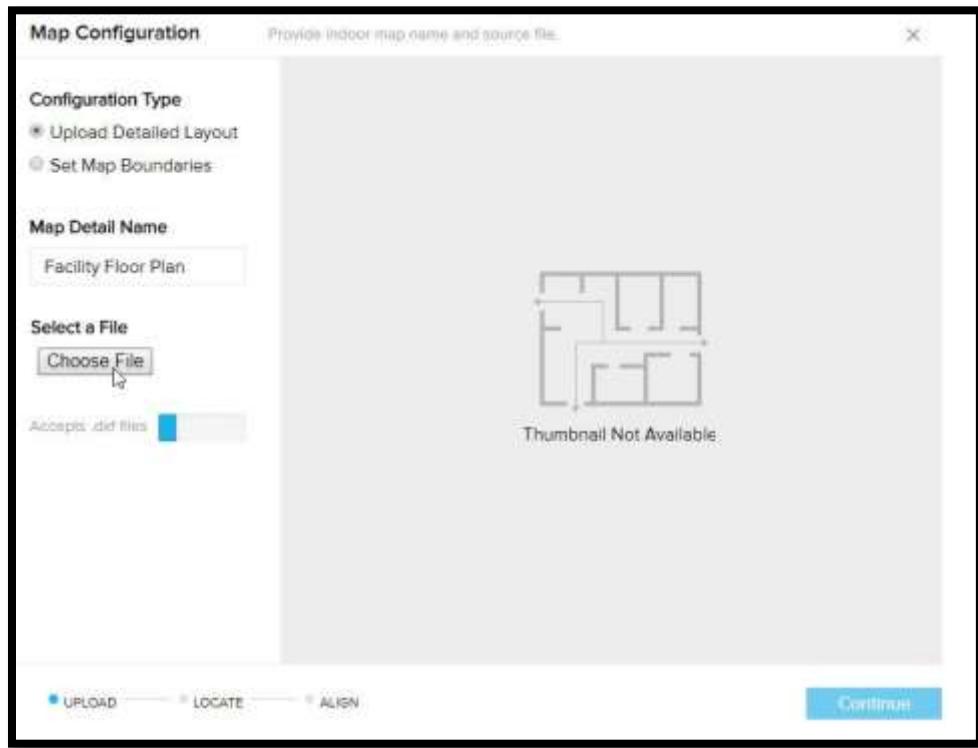
4. Under Configuration Type, select Upload Detailed Layout.



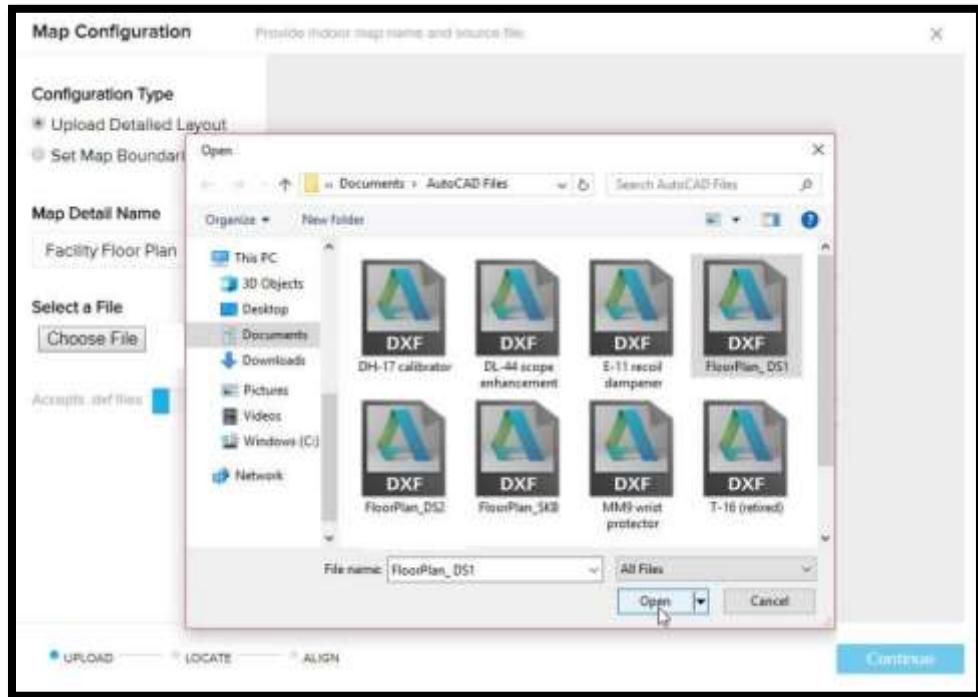
5. In the Map Detail Name field, enter a name for the area.



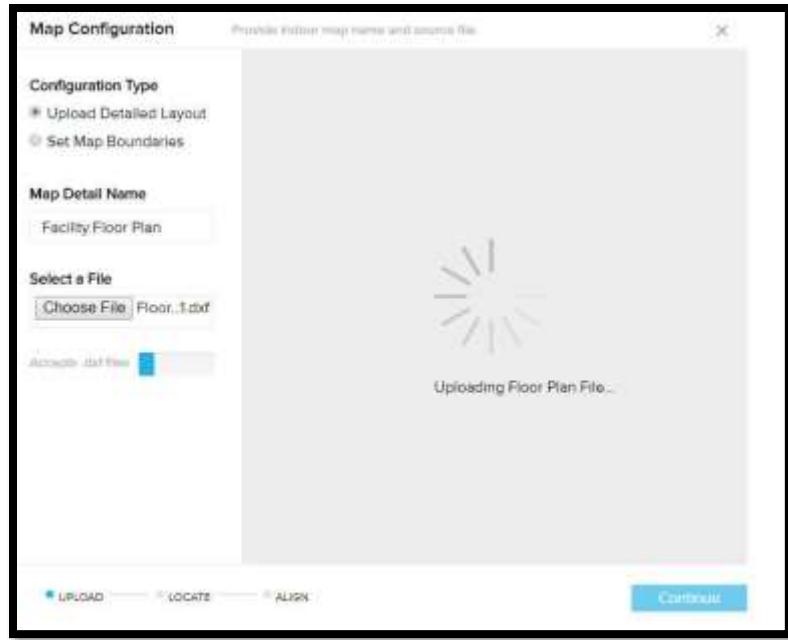
6. Click Choose File.



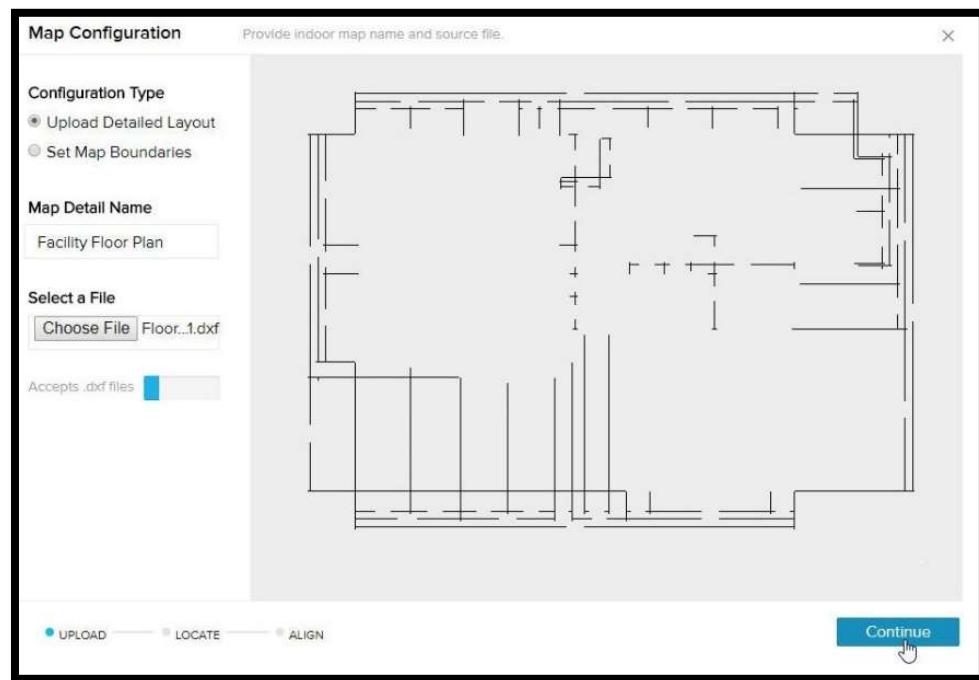
7. Locate your floor plan file and click Open.



8. Your floor plan file will upload. Depending on the detail of the floor plan and the size of the file, this process could take anywhere from a few seconds to several minutes.



9. After the file uploads successfully, your floor plan will display on screen. Click **Continue** to return to the main map screen and place the floor plan.



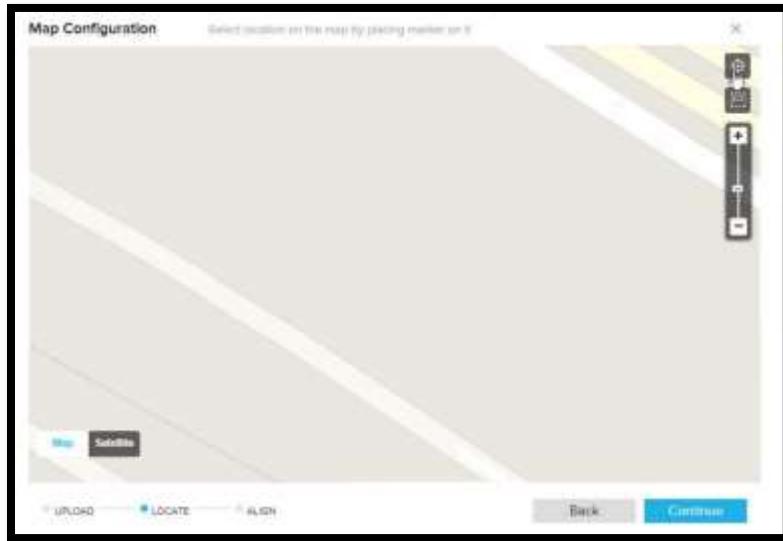
NOTE

Typically, it is easier to locate your facility and align your floor plan with greater accuracy using Satellite view, as shown below.



However, to provide a clearer visual of this process, the following instructions use the standard Map view.

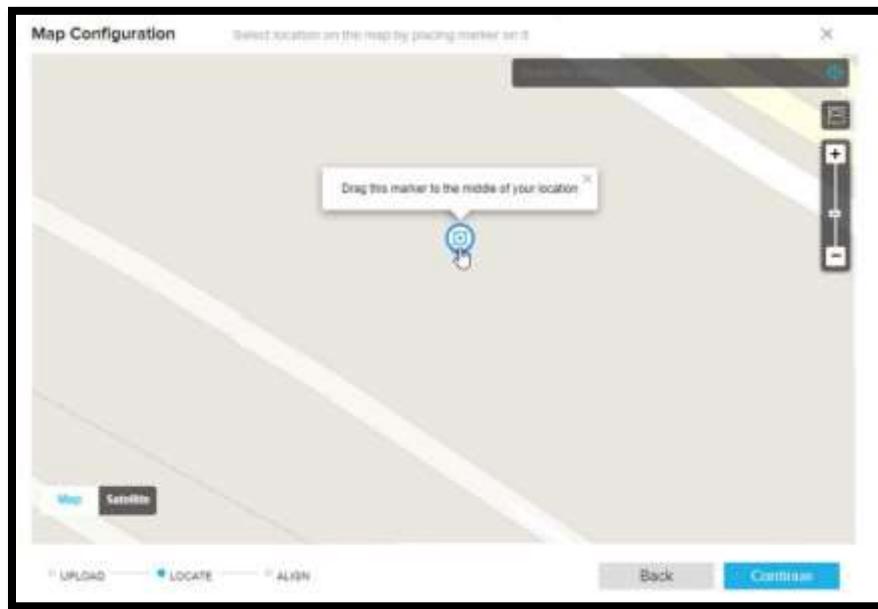
10. Click the Zoom to Address icon  , located above the zoom tools along the right side of the screen.



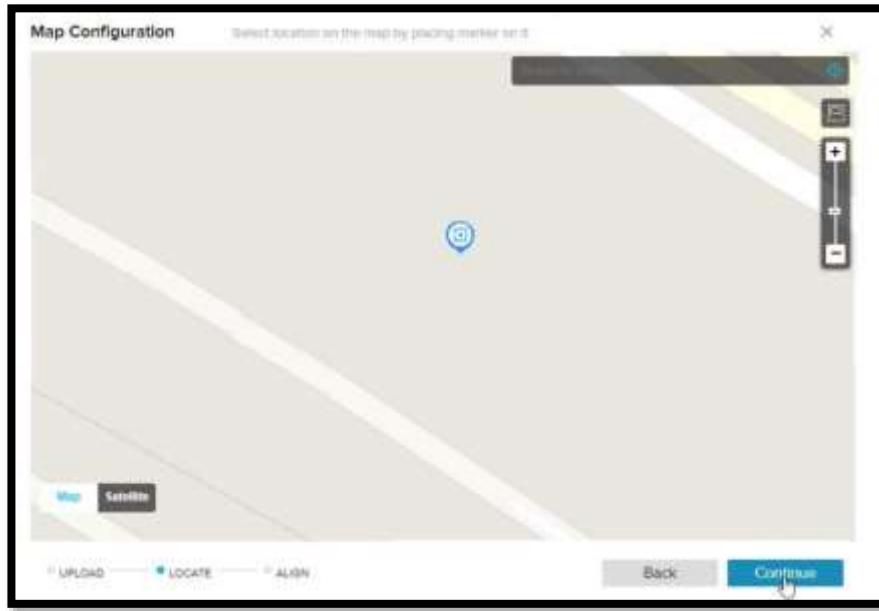
11. A field will extend out to the left of the icon. Here you can enter the physical address of your facility if you want the map to jump you to the correct location. Simultaneously, a placement marker will appear on the map.



12. Click and hold the location marker, and then drag it to the approximate center of where you want your floor plan to be. Don't worry about absolute accuracy. You'll be able to adjust the floor plan's size, angle and location in the next steps.



13. Once you have your location marker where you want it, [click Continue](#).

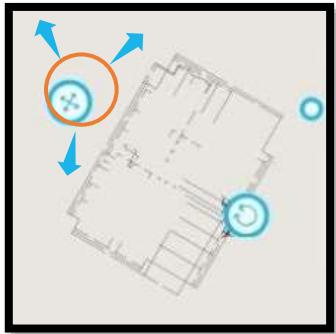


14. Your floorplan will appear on the map with three blue circles surrounding it. These are the tools you can use to resize and reposition your floorplan.

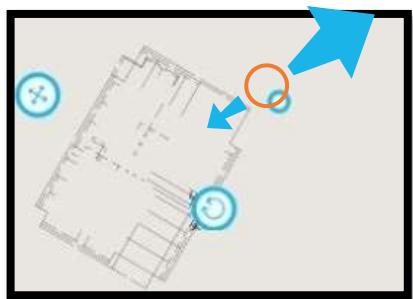


POWERFLEET®

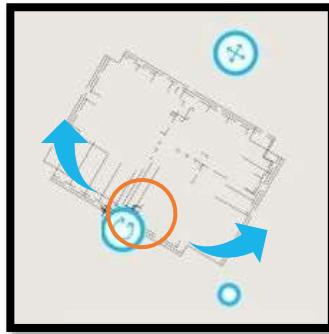
Click and hold the **directional control** to move the floor plan.



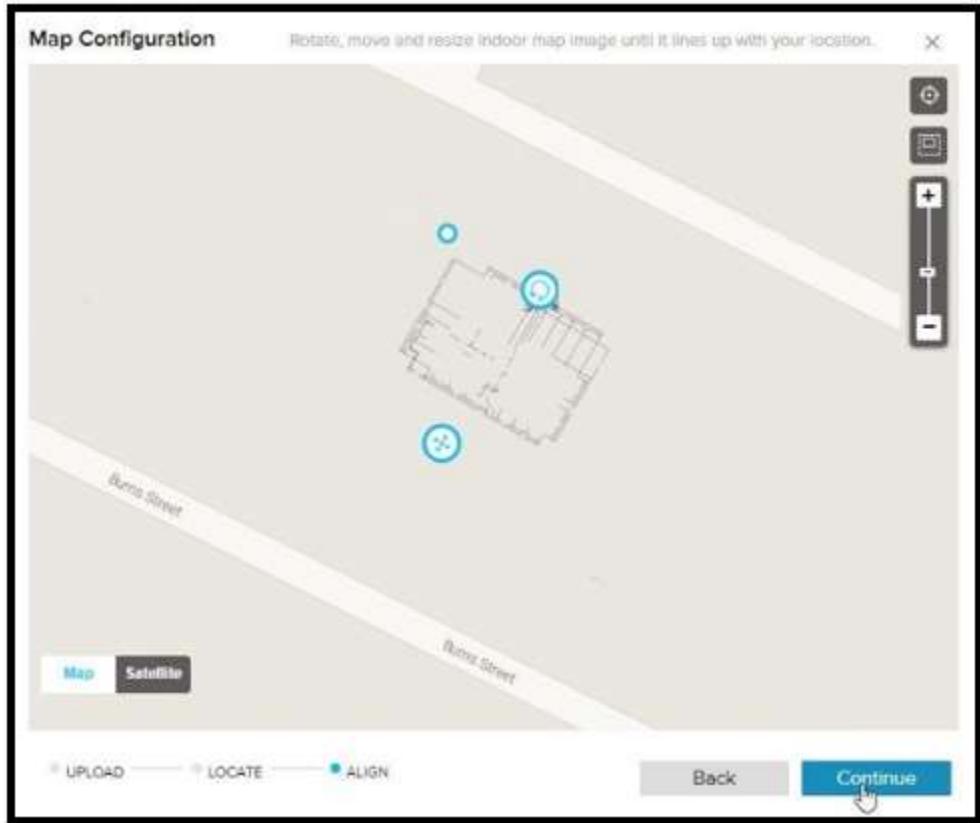
Click and hold the **size control** to make the floor plan larger or smaller.



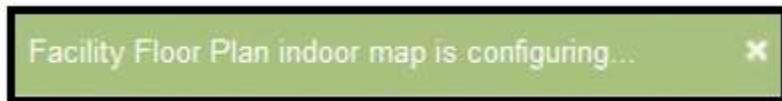
Click and hold the **rotate control** to pivot the floor plan with your mouse.



15. Once you have your floor plan sized and positioned, [click Continue](#).



16. While the system performs the final configurations on your floor plan, a progress notification will appear above the map controls in the lower left corner of the map screen.



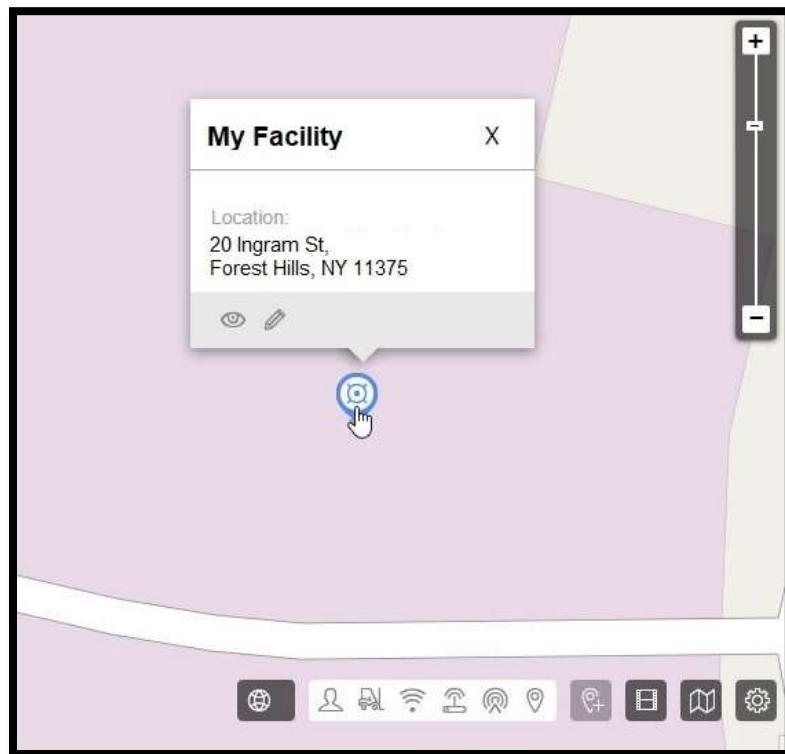
The time it takes to configure the indoor map is relative to the size of the imported file. The larger the file, the longer it will take to configure.

17. Process complete.

Updating Your Indoor Map

A configured facility is represented on the map by a **pinpoint icon**

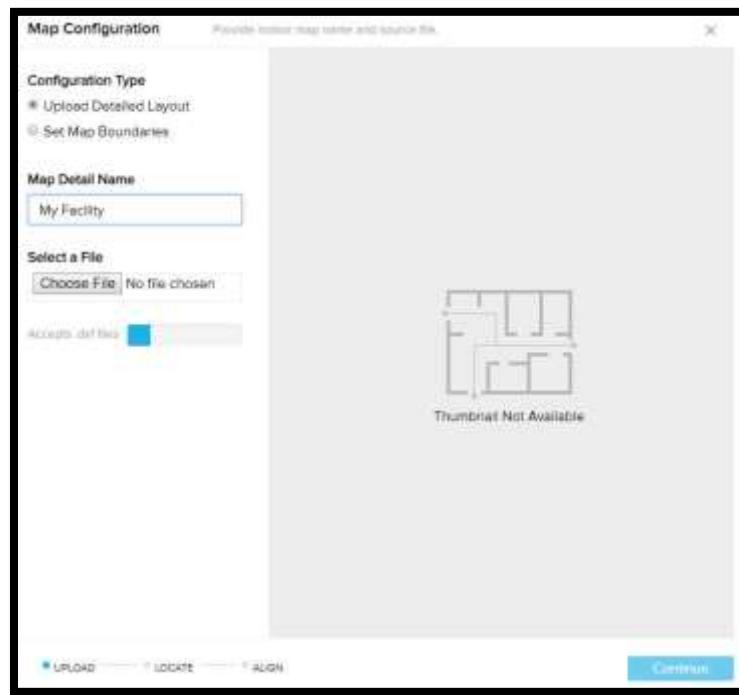
1. To review basic facility information and access additional floor plan options, **click the pinpoint**.



2. To edit floor plan, click the pencil icon .



3. The **MAP CONFIGURATION** screen will open. Following the same process for adding an indoor map, you can upload or create a new floor plan for your location here.

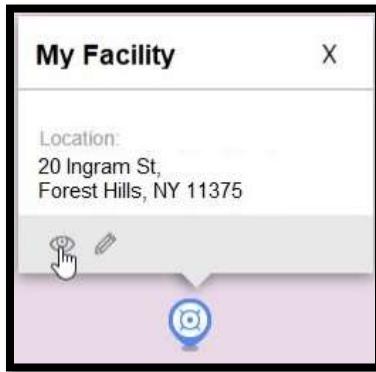


Campus View

Campus View is essentially a map within a map. Your standard map view is where you monitor and review activity across your location, as well as any nearby activity where access points and vehicles equipped with a **VEHICLE ASSET COMMUNICATOR (VAC)** can transmit data.

While the standard map provides you with a bird's-eye view, the Campus View gives you x-ray vision. Campus View allows you to view operator, vehicle and device activities displayed on your uploaded floor plan, within the context of your facility's physical boundaries.

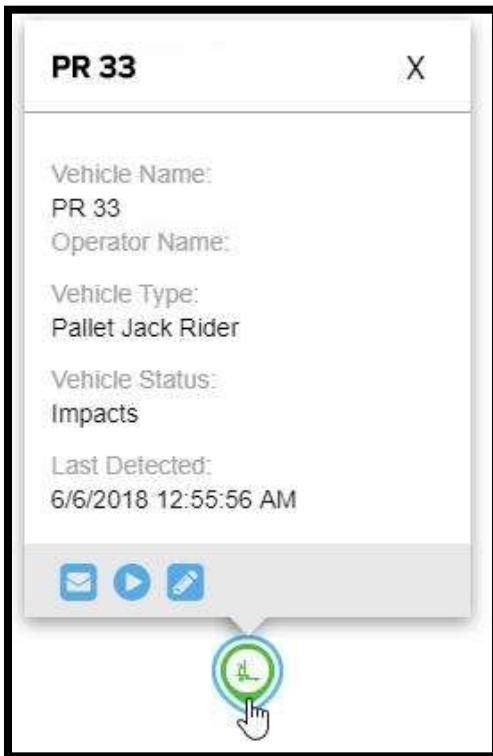
1. Click the facility icon  to access the detail window.
2. From the facility detail window, you can enter **CAMPUS VIEW** to monitor vehicles and assets layered on the floor plan the same way you would on the map. To access Campus View, click the sight icon .



3. In **CAMPUS VIEW**, you can filter and monitor vehicle, operator and other asset activity the same way you would from the standard map.



For example, clicking on a vehicle icon in Campus View displays the same information and options you'd see if you clicked on this icon from the standard map view.





4. To leave Campus View and return to the standard map view, click [Exit from Campus](#).



USING THE MAP TO ADD & EDIT ACCESS POINTS

When Access Points (APs) are installed and transmitting at your facility, you can use a VAC-equipped vehicle and the Maps feature to update AP device details and place the APs on the map.

The first VAC-equipped vehicle to drive within range of a new AP will connect to the device, retrieve data that includes the AP's BSSID MAC address, and send this data to the system, which then uses that data to automatically add the AP to your facility's device list and place a corresponding AP icon on your Visibility map.

When multiple APs have been installed, a VAC-equipped vehicle can collect and send data for all the devices at once by traveling a route within range of every AP. You can then update AP details and reposition their icons on the map to reflect their actual location in your facility.

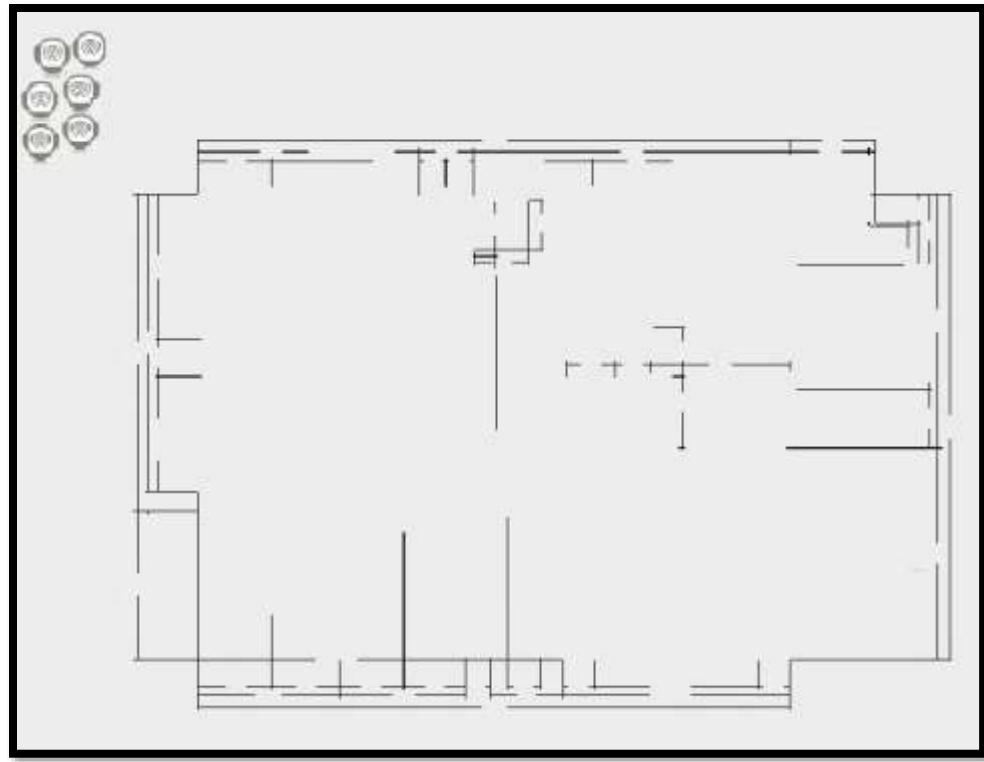
Before updating individual APs, a spreadsheet should be created containing the information below. This information will assist with naming and plotting the AP icons in the Visibility module.

- AP # (how you want to see the label in the software)
- AP Location (Column, Row)
- AP's RADIO MAC Address or Addresses (BSSID). In the case of more than one BSSID per AP, it shall be expressed as follows:

Example: For AP-01 containing 3 BSSIDs

AP-01	BSSID 0E:07:23:FE:22:B1
	BSSID 0E:07:23:FE:22:B2
	BSSID 0E:07:23:FE:22:B3

1. From the main map view, you will see AP icons clustered in the **upper left corner** of your Visibility map.



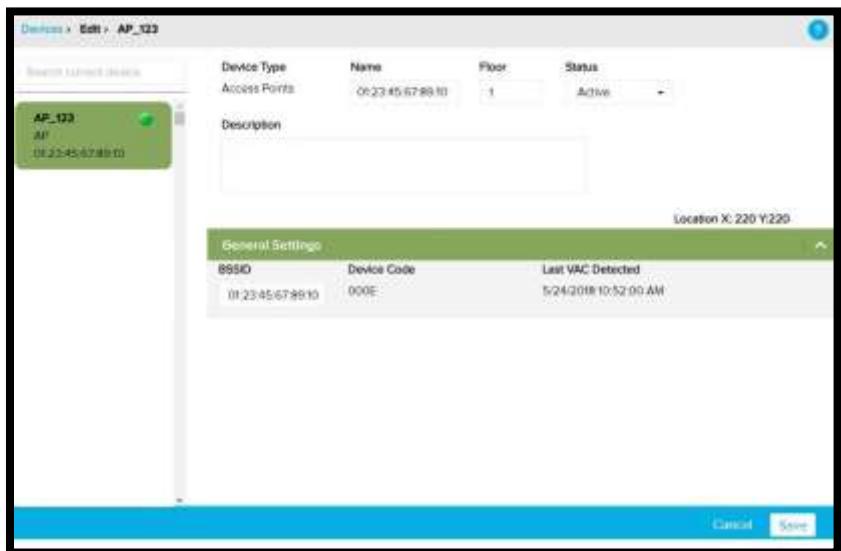
2. When an AP is auto-added to the system, its BSSID is used in place of a name. If you want to update the name, [click the AP icon](#) .



3. Click the tools icon .

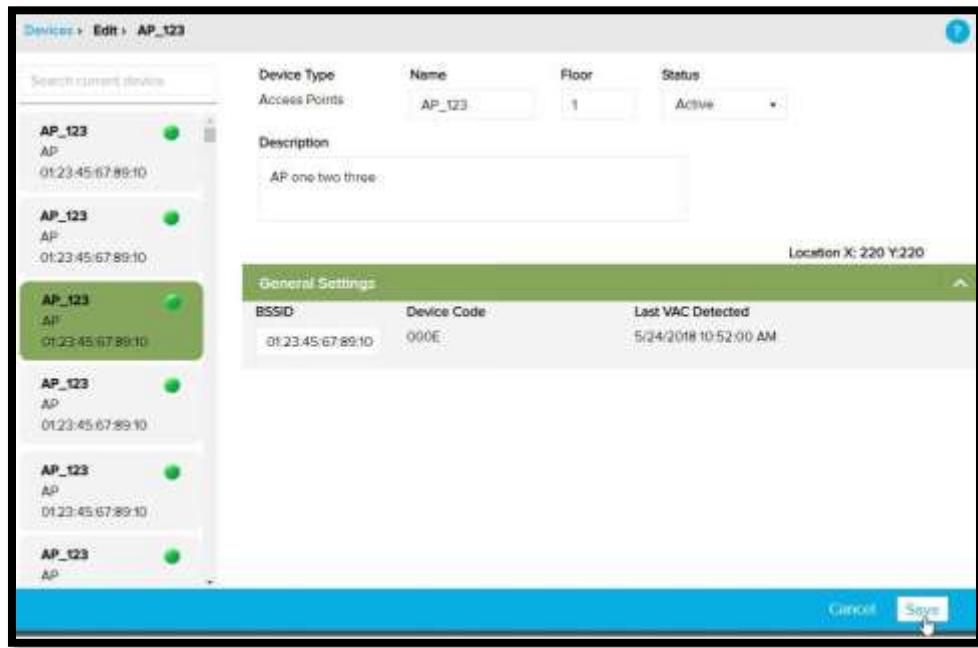


4. The **Edit Device** window will open and display details for the selected AP.

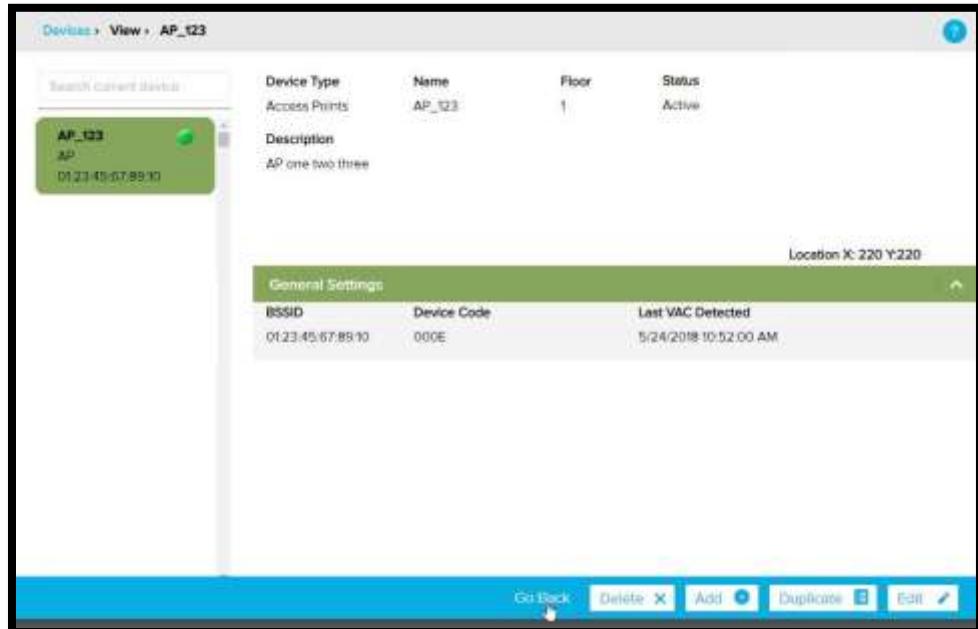


You'll notice that the device's Name and BSSID are identical.

5. Rename the device, provide a description (optional) and **click Save**.



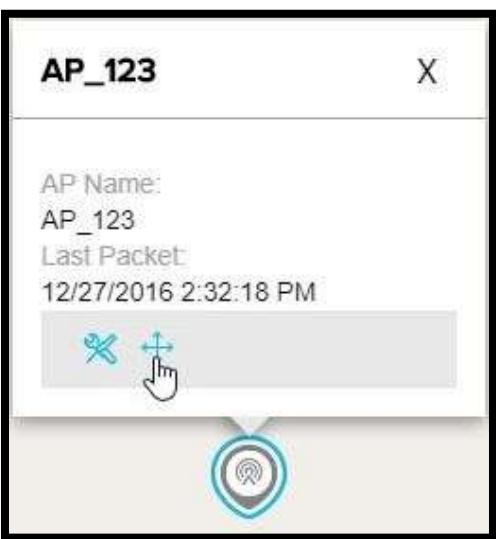
6. To return to the main Map screen, **click Go Back**.



7. To move an AP icon to a location on the map that corresponds with its physical location in the facility, **click the AP icon** .



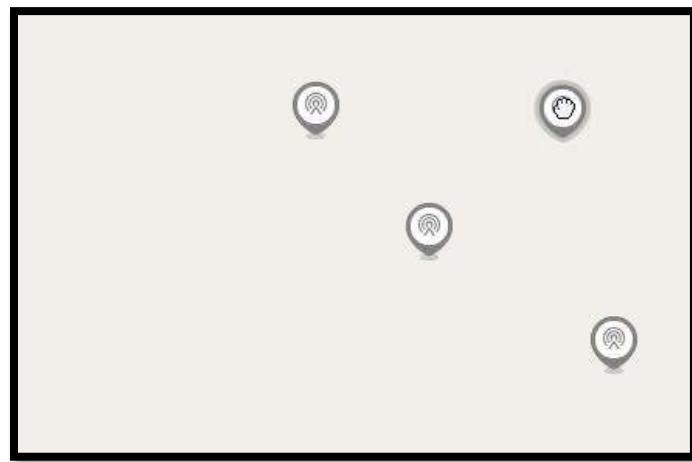
8. Then **click the crossed arrows icon** .



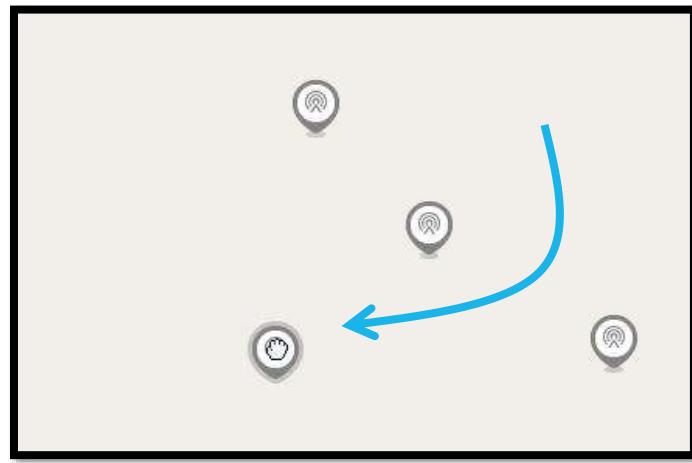
9. The AP detail will disappear and display the Save or Cancel buttons. Your mouse pointer will become an **open hand “grab” symbol**.



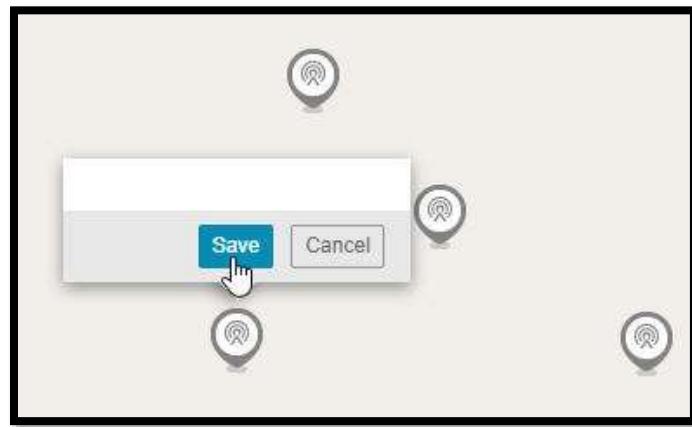
10. Click to **grab** the AP icon.



11. Drag the icon to the desired location.

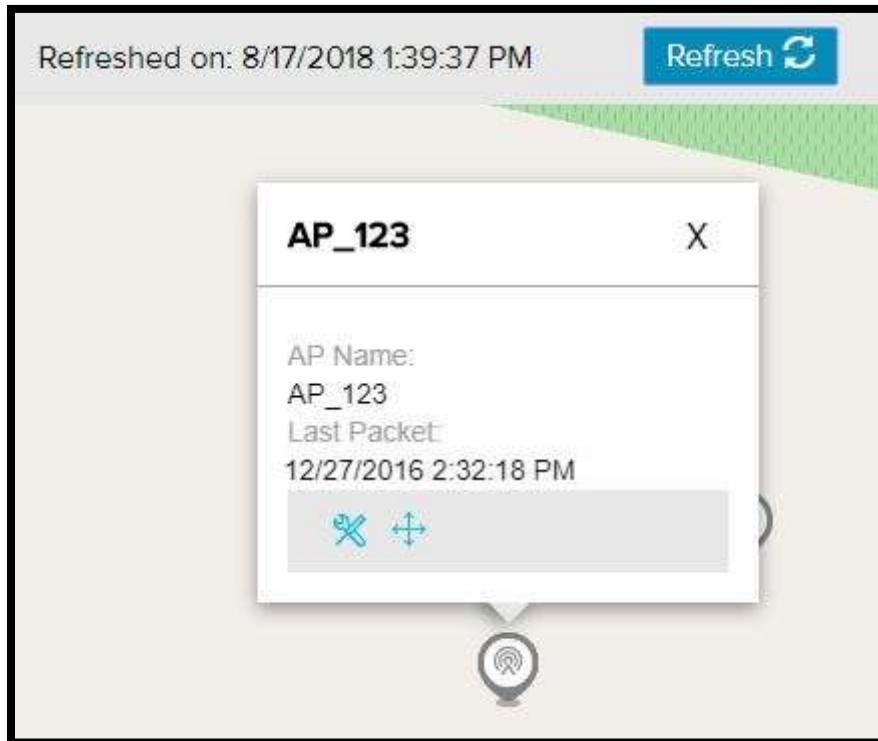
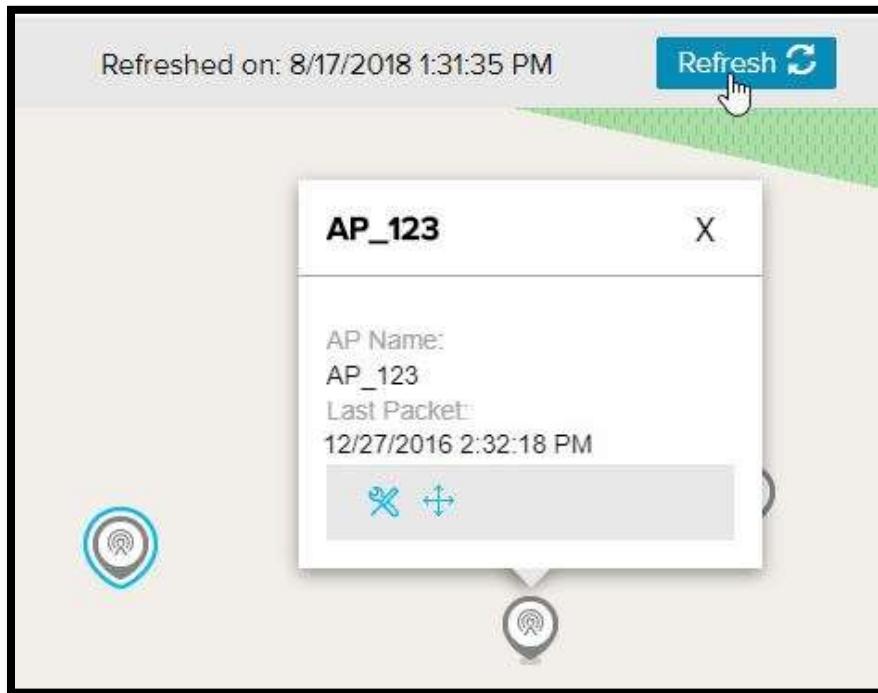


1. Click Save.



NOTE

If you successfully edit or move the AP icon but changes are not reflected in the map view, [click Refresh](#) to retrieve the latest data.



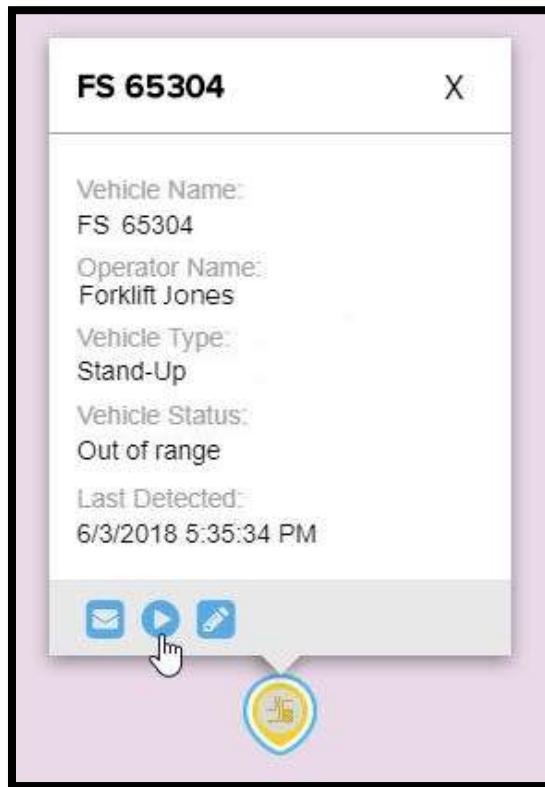
PLAYBACK MODE

Playback Mode lets you filter, find and review vehicle and operator activity as it appears on your map. You can trim playback to create clips that can be saved and shared with other people in the Vision Pro system.

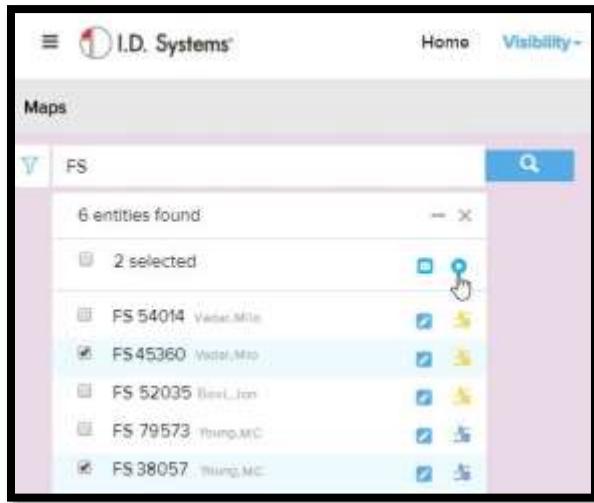
Accessing Playback Mode

There are two quick ways to enable Playback Mode.

- Click on a vehicle icon that appears on your map. If playback mode is available for that vehicle, you will see a play icon  in the vehicle detail window. **CLICK THE PLAY ICON  TO ENTER PLAYBACK MODE.**



- Use the map's search function to find the vehicle or operator you want to view in Playback Mode. From the filtered search results, check the box next to the vehicle/operator and **CLICK THE PLAY ICON  TO ENTER PLAYBACK MODE.**



When you turn on **Playback Mode**, a set of controls appear above the map screen.



Playback Controls

Playback Controls let you:

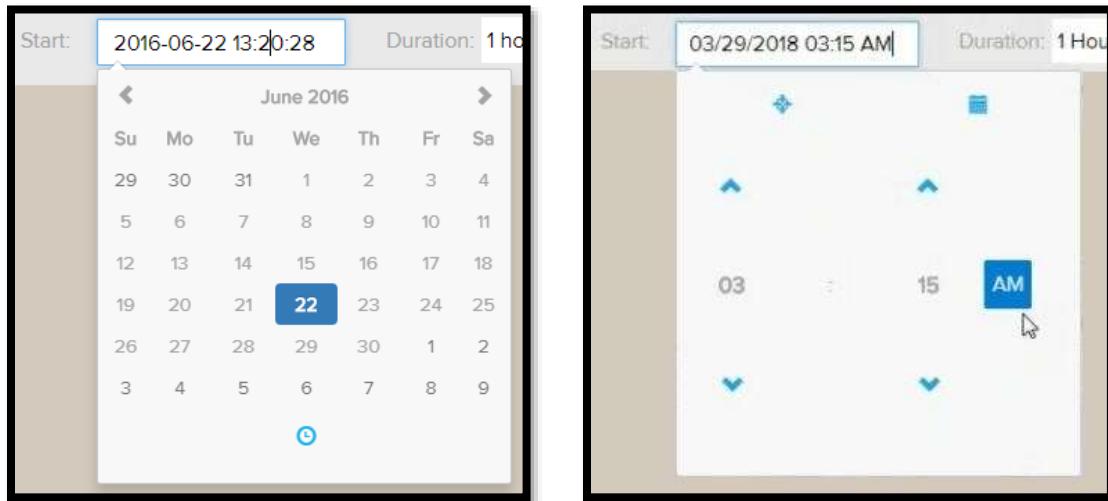
- Set the date and time when you want to review playback events
- Select alternate durations and intervals
- Watch playback in real time
- Increase the speed of historical playback

By default, Playback Mode displays activity on the map in five second intervals beginning one hour prior to the current time. You can configure these controls to review playback of specific events, vehicle activity and operator behavior based on the day and time when they occurred.

Configuring Playback

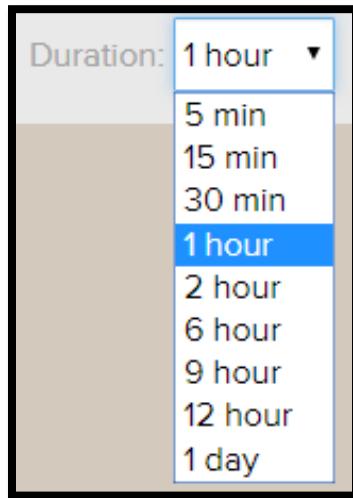
Start displays the date and time when the playback activity occurred. This also determines the point in time when the playback clip will start. You can adjust the date and time fields to when you want your playback clip to begin.

Click the **Start** field and a calendar will appear. Select your start date from the calendar and then set it to the desired time.



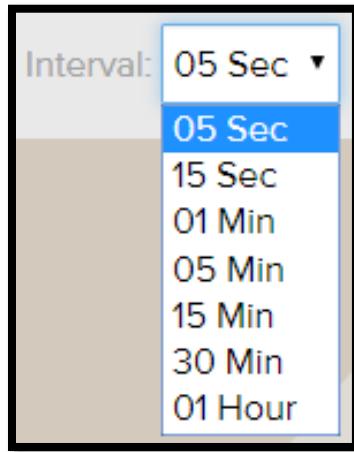
Duration determines the length of the playback clip.

As shown below, you can adjust the duration of the clip by selecting from a drop-down menu that offers various lengths of time.



Interval determines how often the on-screen data is updated during playback.

As shown below, you can adjust the interval of time between data updates by selecting from a drop-down menu that offers various lengths of time.



N O T E

When setting **Playback Duration** and **Interval**, remember that longer timeframes provide less detailed data. A shorter interval will provide a more accurate representation of map activity, but it may take longer to load because it requires the system to retrieve, prepare and display more data.



Type displays the kind of entity selected for playback.

Playback Controls



The **Play** button plays the clip based on the configuration of the playback settings. During playback, this control becomes a **Pause** button.



Speed Up Playback allows you to increase the speed at which the clip plays - x1, x2, x10, x50 – in relation to the defined interval.



Save PlayBack Clip lets you save a section of map playback, so you can access it quickly or send a link of the clip via email.

When prompted, enter a title and description for the playback clip, and then **CLICK SAVE**.

You can access saved playback clips by clicking the **Playback**



Control button located with the Map Tools in the lower right corner of the main map view.

Save PlayBack Clip

Title

Description

Save Cancel



Share by Email lets you send a link to the selected saved playback clip via email.

When prompted, enter a title and description for the playback clip, an email address for recipient(s), and then **CLICK SAVE** to send the link.

NOTE

To receive a link to a playback clip via email, the recipient must have an active Vision Pro account with a valid email address associated with it.

Share PlayBack Clip by Email

Title

Description

Email

Send Cancel



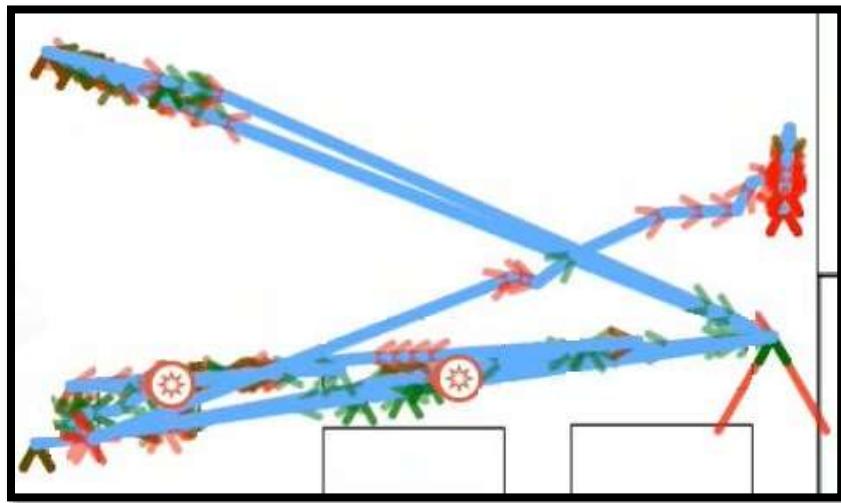
Click the **Exit** button to return to the map view.

Viewing Playback Clips

To understand the on-screen activity of Playback Mode, you'll need to familiarize yourself with how the system displays the data.

Color-coded arrows indicate vehicle direction and movement.

- **Blue** lines indicate vehicle routes.
- **Green** arrows indicate when vehicles in motion.
- **Red** arrows indicate when a vehicle is stopped.



Event icons provide visual indication of events. Below are examples of icons you may see while watching playback.



Checklist
Non-Compliant



Vehicle
Locked



Vehicle in Hard
Bypass Mode



Vehicle in
Sleeper Mode



Speeding

Impact icons show where and when an impact occurred and uses different colors to indicate impact severity.



Low



Moderate



Medium



High



Severe

Hover your mouse pointer over vehicle routes to see specific information about the vehicle and operator captured at that moment in the playback.

- In the example below, hovering over the vehicle route displays the date, time, vehicle ID and operator in the moments following a severe impact.

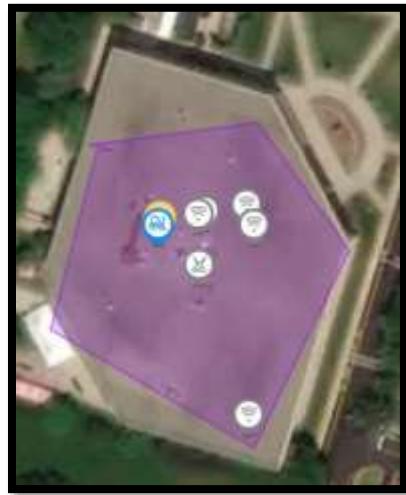


- In the next example, we see the same detail information associated with a checklist non-compliant vehicle.



ZONES & ZONE PROFILES

Zones can be whatever you want them to be. Zones can be physical locations or equipment within your facility, such as a maintenance area, a loading zone or stationary machinery. Zones can be a location within range of your VMS but outside your facility, such as a nearby lot or a common area where your vehicles travel. A zone is any location where you want to monitor vehicle and operator activity.



Two factors contribute to the significance of a zone:

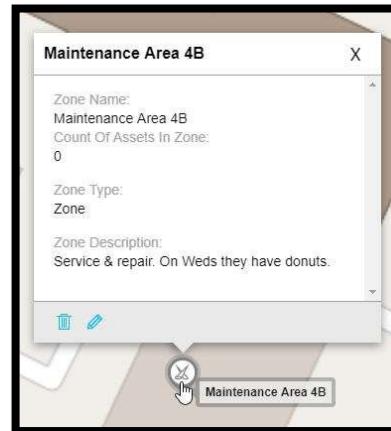
- **How you define the zone when you create it.** When you draw a zone on your map, you'll give it a name and define its zone type. The zone type is part of what determines how map data will be displayed for that zone.
- **How the zone's profile is configured.** BEHAVIOR PROFILES are specific configurations that define how vehicles react to various conditions and events. When you add zones to a zone profile, vehicle behavior profiles are cross-referenced. This allows relevant data to be captured as part of the zone profile (and vice versa).

In this section, you'll learn how to draw, edit and delete zones on your Visibility Map, and how to add zones to Zone Profiles.

Zone Types

Standard Zones

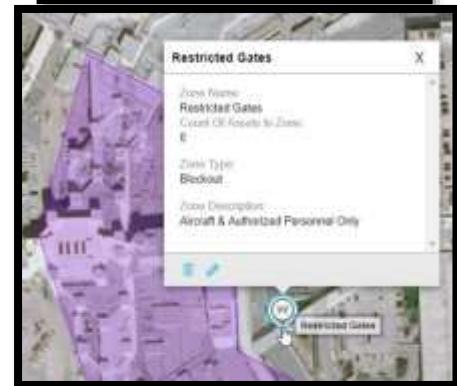
A standard zone is an area within or around your location that you want to define and be able to see on the map. Standard zones can be identified by their **spotlight** icon .



Blockout Zones

A blockout zone can designate places where you know vehicles should not be, such as pedestrian-only areas or locations dedicated to machinery. On the map, you can identify blockout zones by their **traffic barricade** icon .

Creating blockout zones allows for a more accurate and granular view than the system may be able to provide.



NOTE

If a vehicle's **VEHICLE ASSET COMMUNICATOR (VAC)** sends location data to the system that places that vehicle in a blockout zone, the software will force that vehicle's icon to appear as close as it can be on the map while still being outside the blockout zone.

Drawing Zone Structures

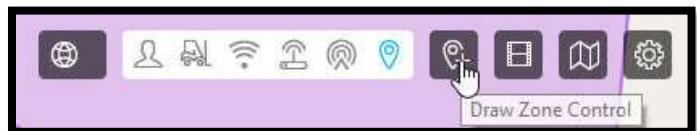
You can draw zones on your map by using one of three shape-drawing tools located in the Map Tools tray in the lower right corner of the main map screen.

NOTE

To access the zone drawing tools, **Show Zones** must be active.

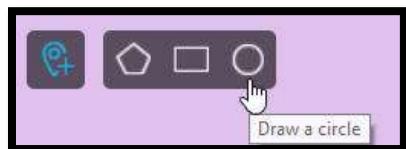


To select a drawing tool, click the **Draw Zone Control** button.



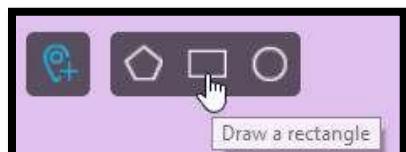
Circle Zone Tool

Select the **circle zone tool** to draw your zone in a circular shape.



Rectangle Zone Tool

Select the **rectangle zone tool** to draw your zone in a rectangular shape.



Point-to-Point Polygon Zone Tool



Select the **polygon zone tool** to create custom zone shapes one side at a time.

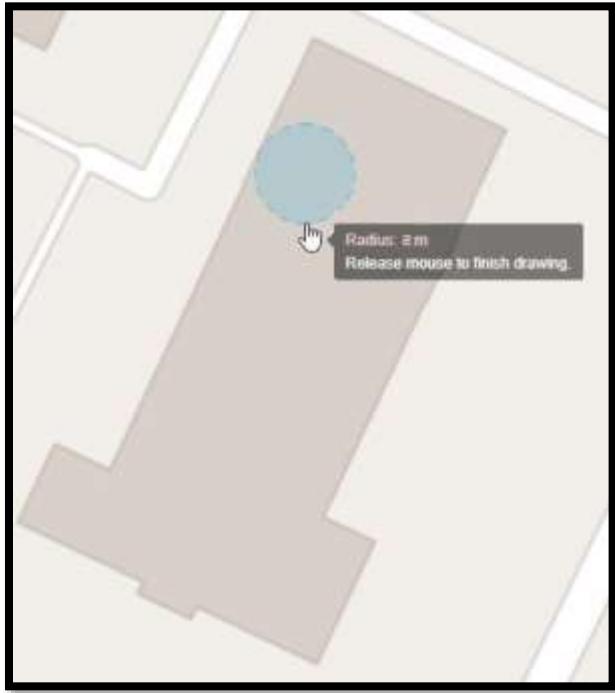
Drawing a Circle or Rectangle Zone

The steps for creating a circle or rectangle zone are identical. The only difference is the shape you end up with. For this example, the circle tool is shown but the same method is used with the rectangle zone tool.

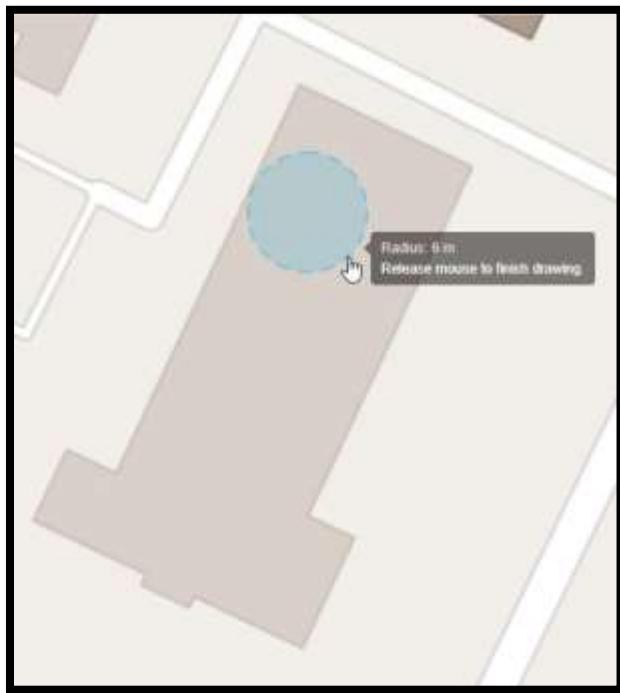
2. After selecting the drawing tool, your mouse pointer becomes a crosshair. Position the crosshair wherever you want to start drawing your zone.



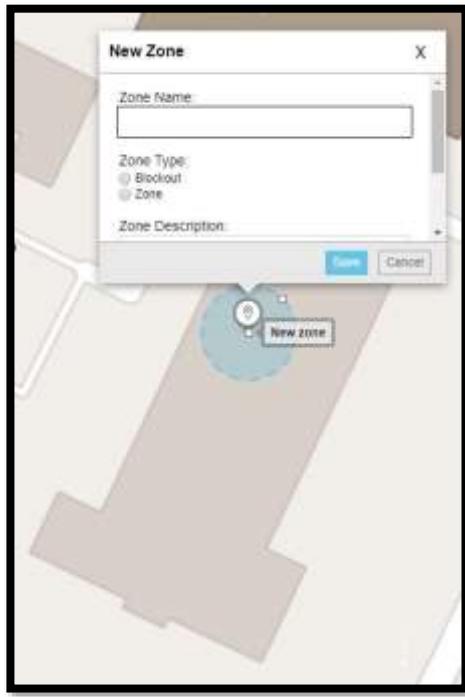
3. Click to begin drawing your zone.



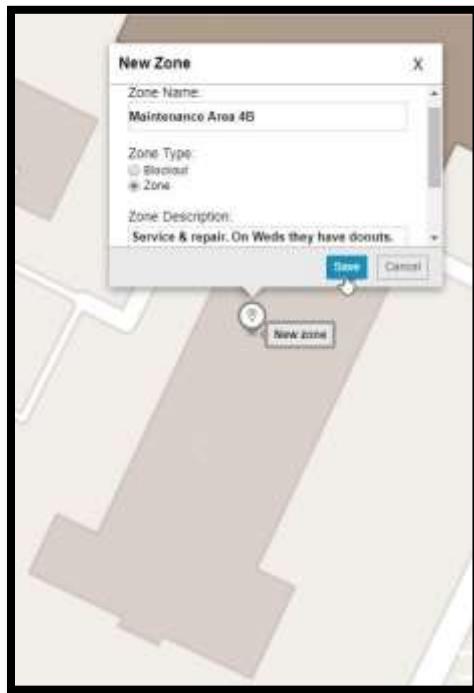
4. Drag outward from your starting point.



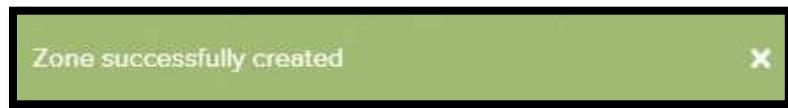
5. After you finish drawing your zone, **release the mouse button**. A New Zone detail window will appear.



6. Enter the name of the zone and select a zone type. If needed, you can enter additional details in the **ZONE DESCRIPTION** field. After you enter the details for your new zone, **click Save**.



7. A window will appear in the lower right corner of the screen, confirming Zone successfully created.

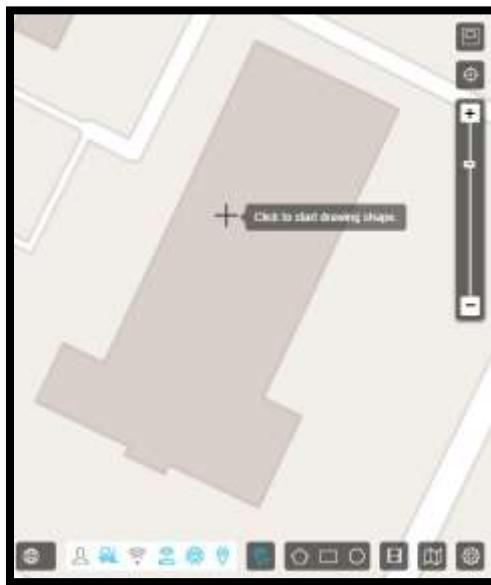


Drawing a Polygon Zone

The main difference between drawing a circle or rectangle zone and drawing a polygon zone is that your shape is not confined to only having four walls or being a simple circle. With polygon drawing tool, you create the shape of your zone one line at a time and create points where you want a line to end and a new one to begin. This allows you to create a very specific shape for your zone.

In the following steps, you'll learn the point-to-point method of drawing your zone using the polygon drawing tool.

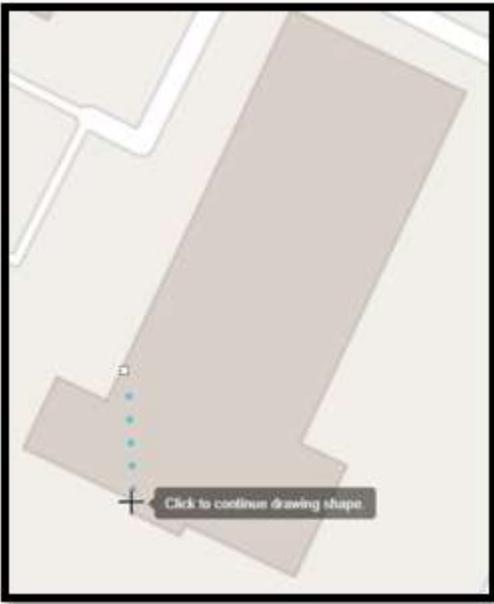
8. After selecting the polygon drawing tool, your mouse pointer becomes a +. Position the pointer where you want to start drawing your zone.



9. Click to begin drawing your zone. The pointer becomes a .



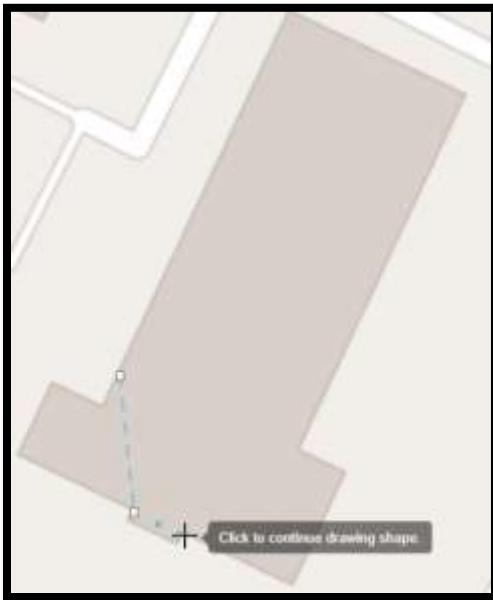
10. As you move the mouse to begin drawing your zone, the pointer will become a  and a preview of the first zone boundary will appear as a dotted blue line anchored to your starting point.



11. Move your pointer to the area where you want to start the next boundary. Click to create the new boundary point. The pointer becomes a .



12. As you move the mouse to draw the next boundary line, the pointer will become a  and you'll see the zone boundary previewed as a dotted blue line anchored to the previous boundary point.



13. Continue **clicking and moving** from point to point to draw your zone until you return to the starting point.



1.



2.



3.

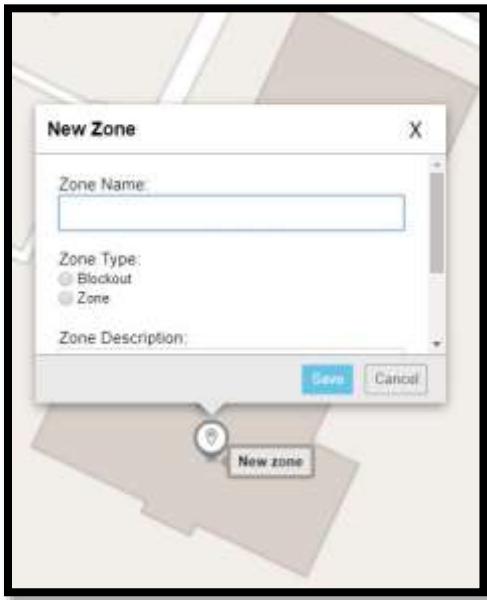


4.

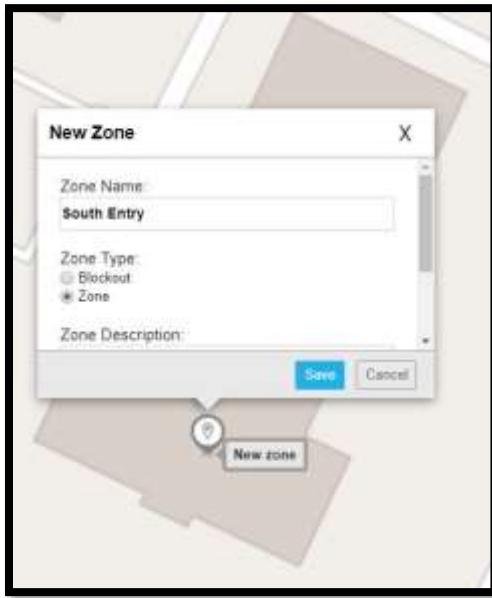
14. Move your pointer to the starting point. **Click** to close the shape and create your new zone.



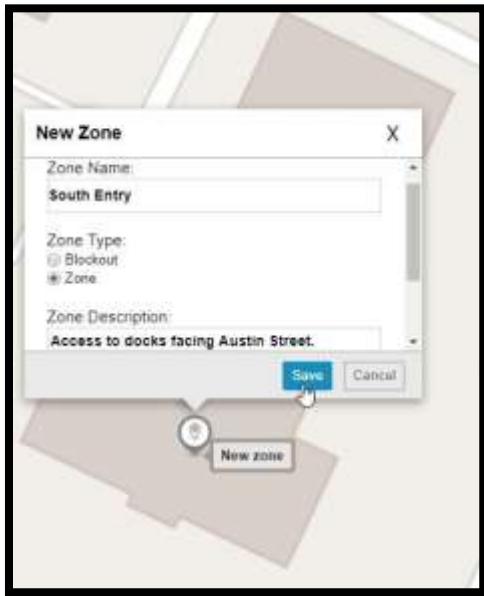
15. A New Zone detail window will appear.



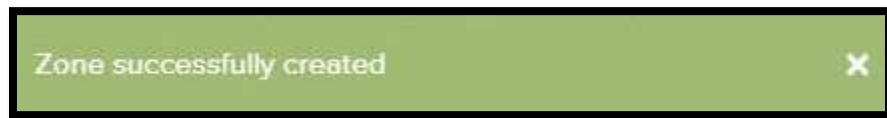
16. Enter the name of the zone and select a zone type. If needed, you can enter additional details in the Zone Description field.



17. After you enter the details for your new zone, [click Save](#).

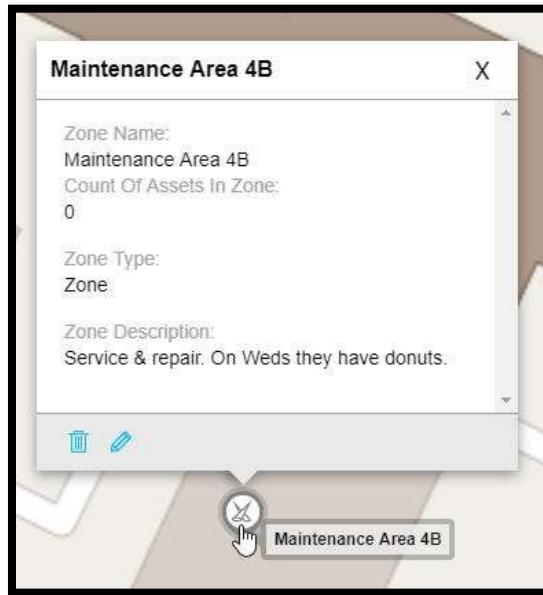


18. A window will appear in the lower right corner of the screen, confirming [Zone successfully created](#).

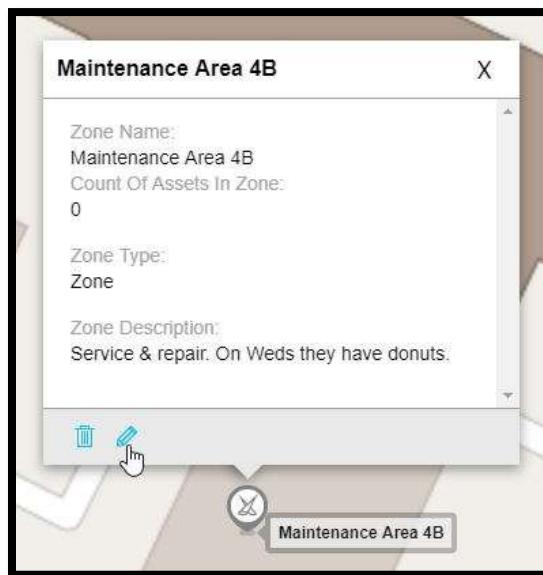


Editing a Zone

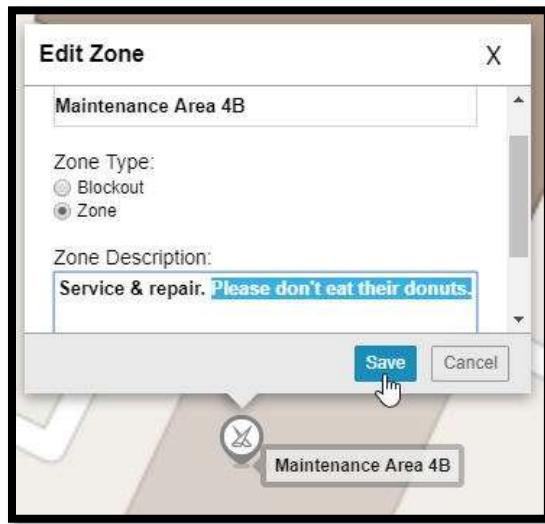
19. To edit a zone, **click the zone icon**.



20. To edit the zone information, **click the pencil icon**.



21. Update the details of the zone and click Save.



22. A window will appear in the lower right corner of the screen, confirming Zone successfully updated.



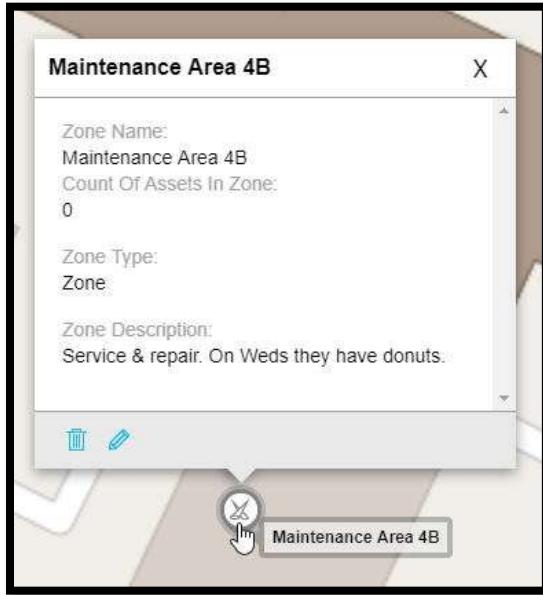
NOTE

If you don't see your changes reflected in the zone details, retrieve the most recent map data by [clicking the Refresh button](#).

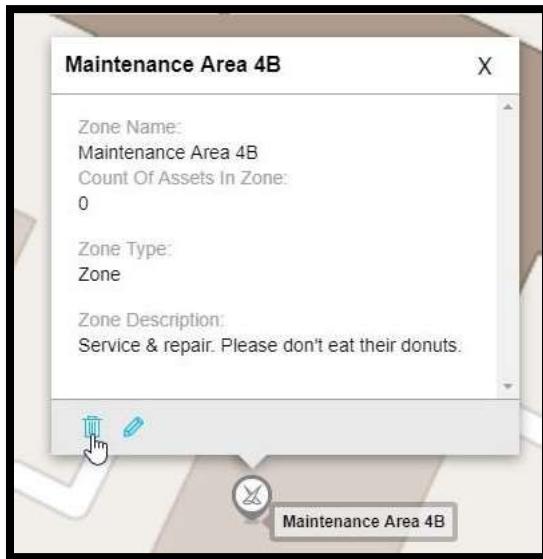


Deleting a Zone

1. To delete a zone, click the zone icon.



2. To delete the zone, click the trashcan icon.



3. A window will appear asking to confirm that you want to delete the zone. Click the **Delete Zone** button.



4. A window will appear in the lower right corner of the screen, confirming **Zone successfully deleted**.



NOTE

If the deleted zone still appears on the map, retrieve the most recent map data by **clicking the Refresh button**.



Zone Profiles

On its own, a zone is just a shape on your map where vehicles, operators and devices in relation to itself. When you assign a zone to a Zone Profile, the activity that occurs within that zone is then tied to the Behavior Profile configuration of your vehicles.

Accessing Zone Profiles

1. From the Vision Pro main menu bar, [click Visibility](#).



2. From the Visibility drop-down menu, select [Zone Profile](#).



Zone Profile List

The Zone Profile home screen contains a list of zone profiles with columns of summary data for each profile record.

NAME	DESCRIPTION	NO. OF ZONES	BEHAVIOR PROFILE ASSIGNED	VEHICLE ASSIGNED	ACTIONS
Hazardous Materials	Authorized vehicles and zones	1	1	0	
Heavy Traffic	Areas of heavy traffic	1	0	0	
Lot	Vehicle Parking areas	2	0	0	
Maintenance Areas	Maintenance areas	1	0	0	

From the list you can review the following summary data for each zone profile:

- **NAME OF THE ZONE PROFILE**
- **DESCRIPTION OF THE ZONE PROFILE**
- **NO. OF ZONES** - The number of zones assigned to the profile
- **BEHAVIOR PROFILES ASSIGNED** - The number of behavior profiles that the zone profile is associated with
- **VEHICLES ASSIGNED** - The number of vehicles assigned to the zone profile based on the associated behavior profile

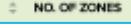
Click the carat located under the **ACTION** column to access available actions for each zone profile.

Click the **SYNC** button in the upper right of the screen to synchronize zone profile data.

Click the **ADD** button in the top right corner to create a new zone profile.

Click on the **REFRESH** button to refresh the list of profiles.

Sorting Zone Profiles on the List Screen

Click on the column header to sort the list of zone profiles by column. For example, if you want to sort by the number of zones in the profile, click on the **NO. OF ZONES** column header .

NAME	DESCRIPTION	NO. OF ZONES
Heavy Traffic	Areas of heavy traffic	1
Maintenance Areas	Maintenance areas	1
Hazardous Materials	Authorized vehicles and o...	1

Duplicating a Zone Profile on the List Screen

An easy way to add a new zone profile is to duplicate an existing profile with similar attributes.

1. To duplicate a profile from the Zone Profile List screen, **click the carat ▾ in the Actions column** on the row of the profile you want to duplicate.
2. The Action drop-down menu will appear. **Select Duplicate.**

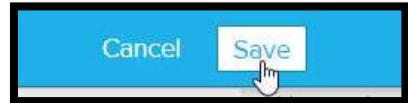
NAME	DESCRIPTION	NO. OF ZONES	BEHAVIOR PROFILE ASSIGNED	VEHICLE ASSIGNED	ACTIONS
Hazardous Materials	Authorized vehic...	1	1	0	
Heavy Traffic	Areas of heavy t...	1	0	0	
Lots	Vehicle Parking ...	2	0	0	
Maintenance Areas	Maintenance are...	1	0	0	

3. A new zone profile detail window will open with zone assignments copied from the selected profile.



The screenshot shows a 'Zone Profile' detail window with the title 'Zone Profile > Duplicate > From Hazardous Materials'. The 'Hazardous Materials' profile is selected on the left. The main area contains fields for 'Name' (with placeholder 'Enter Zone Profile Name') and 'Description' (with placeholder 'Enter Zone Profile Description'). At the bottom, there is a table titled 'Assigned Zones' with columns 'NAME', 'DESCRIPTION', and 'ACTV'. A '+' icon is located to the right of the table.

- Provide a name and description for the duplicated zone and, if needed, make changes to the assigned zones. When you're finished, **click the Save button in the lower right corner of the screen.**

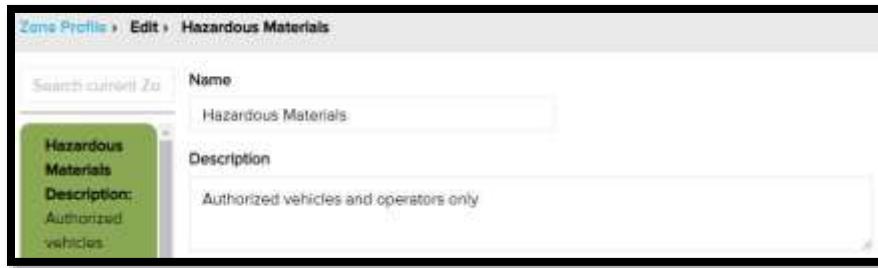


Editing a Zone Profile on the List Screen

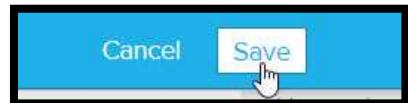
- To edit a profile from the Zone Profile List screen, **click the carat in the Actions column** on the row of the profile you want to edit.
- The Action drop-down menu will appear. **Select Edit.**

NAME	DESCRIPTION	NO. OF ZONES	BEHAVIOR PROFILE ASSIGNED	VEHICLE ASSIGNED	ACTIONS
Hazardous Materials	Authorized vehic...	1	1	0	<input checked="" type="checkbox"/> Duplicate
Heavy Traffic	Areas of heavy t...	1	0	0	<input checked="" type="checkbox"/> Edit
Lots	Vehicle Parking ...	2	0	0	<input checked="" type="checkbox"/> Delete
Maintenance Areas	Maintenance are...	1	0	0	

- The zone profile detail window will open.



- Make the desired changes to the zone profile. When you're finished, **click the Save button in the lower right corner of the screen.**

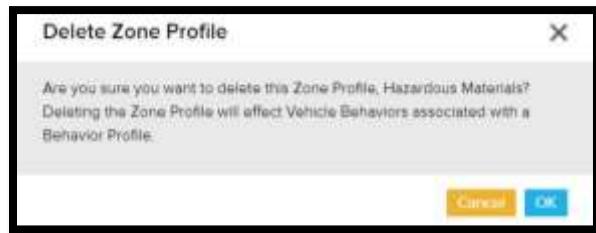


Deleting a Zone Profile on the List Screen

- To delete a profile from the Zone Profile List screen, click the carat  in the **Actions column** on the row of the profile you want to delete.
- The Action drop-down menu will appear. **Select Delete.**

NAME	DESCRIPTION	NO. OF ZONES	BEHAVIOR PROFILE ASSIGNED	VEHICLE ASSIGNED	ACTIONS
Hazardous Materials	Authorized vehicle...	1	1	0	
Heavy Traffic	Areas of heavy t...	1	0	0	
Lots	Vehicle Parking —	2	0	0	
Maintenance Areas	Maintenance area	1	0	0	

- A window will open asking to confirm you want to delete the Zone Profile.



- Click **OK** to proceed.

Zone Profile Detail Screen

- To access a zone profile's detail screen, [click on the profile name](#).

NAME	DESCRIPTION
Hazardous Materials	Authorized vehicles and o...
Heavy Traffic	Areas of heavy traffic

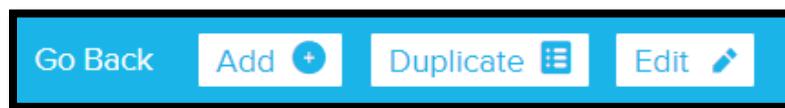
- The Zone Profile detail screen will open.

The screenshot shows the 'Zone Profile' detail screen for the 'Hazardous Materials' profile. The main area displays the 'Assigned Zones' table, which contains one row for '12Zone'. On the left, a sidebar provides summary statistics for 'Hazardous Materials' and 'Heavy Traffic'. The 'Hazardous Materials' sidebar shows: Name (Hazardous Materials), Description (Authorized vehicles and operators only), Assigned Zones (12Zone), Zones count (1), and Behavior profile count (0). The 'Heavy Traffic' sidebar shows: Name (Heavy Traffic), Description (Areas of heavy traffic), Assigned Zones (0), Zones count (0), and Behavior profile count (0). At the bottom, there are buttons for 'Delete', 'Add', 'Duplicate', and 'Edit'.

- Click on a zone profile from the list on the left to select it for editing and display its profile details.

Adding, Duplicating & Editing Zone Profiles

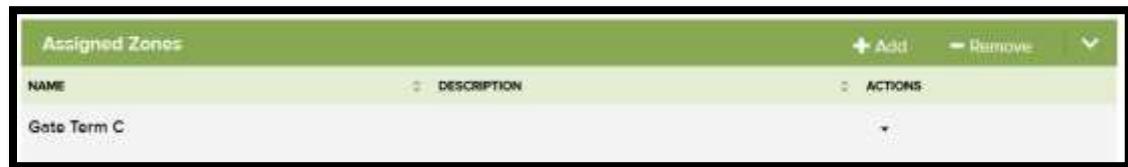
Buttons for adding, duplicating and editing a selected zone profile's records are in the bottom right corner of the screen.



- Click **Go Back** to return to the Zone Profile list screen.
- Click the **Add** button to add a new zone profile.
- Click the **Duplicate** button to create a new profile by duplicating the selected profile.
- Click the **Edit** button to edit the selected profile.

Assigned Zones

The detail screen displays the zones that have been assigned to the currently selected zone profile.



Adding a New Zone Assignment

1. To add a zone to the selected profile, click **+ Add**.



2. A window will appear listing zones that can be assigned to the selected profile. Check the boxes next to the zones you want to assign to the profile.



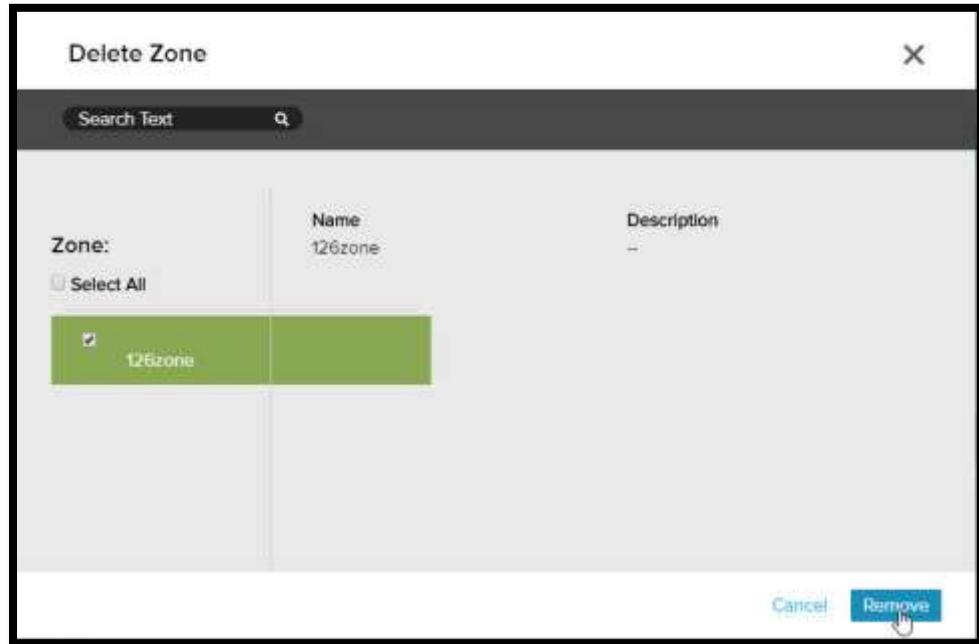
3. When you are finished, click the **Add** button in the lower right corner of the window.

Removing a Zone Assignment

1. To remove a zone from the selected profile, click **- Remove**.



2. A window will appear listing zones that can be removed from the selected profile. Check the boxes next to the zones you want to remove.



3. When you are finished, click the **Remove** button in the lower right corner of the window.

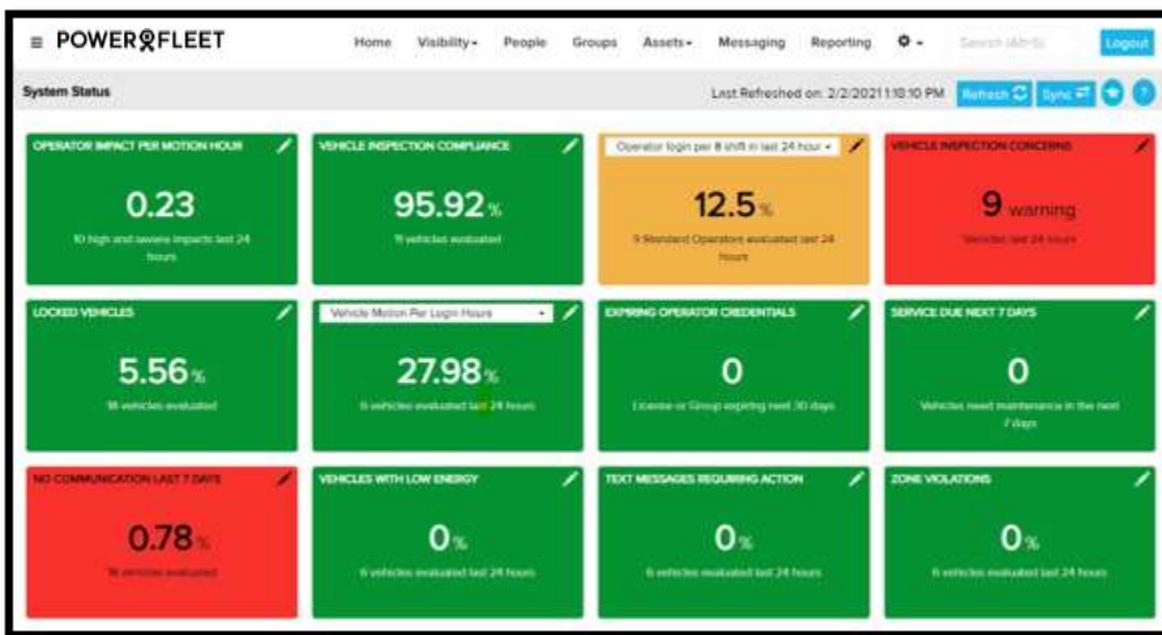
VISIBILITY SYSTEM STATUS

The Visibility **System Status** is a dashboard screen that provides you with a real-time summary of 12 vehicle statistics and two operator statistics.

To access the System Status dashboard, click the **VISIBILITY** drop-down menu and select **System Settings**.



The dashboard displays each status category using a color code to indicate urgency relative to defined thresholds.

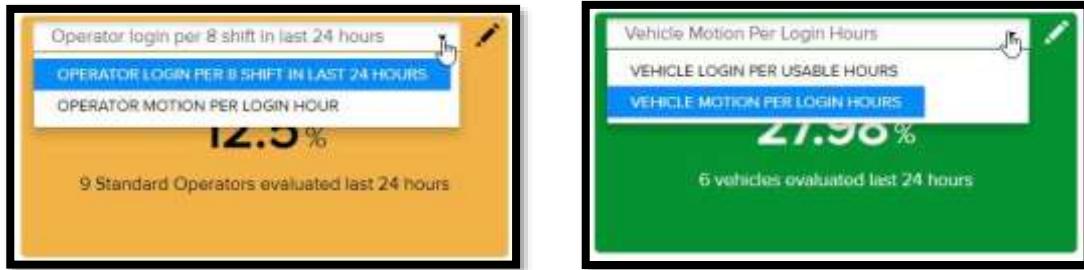


Green indicates a status within normal thresholds.

Yellow indicates a status of moderate urgency requiring attention.

Red indicates a status of high urgency needing immediate attention.

The **OPERATOR MOTION/LOGIN** and **VEHICLE MOTION/LOGIN** categories have drop-down menus for you to select which status summary data to display.



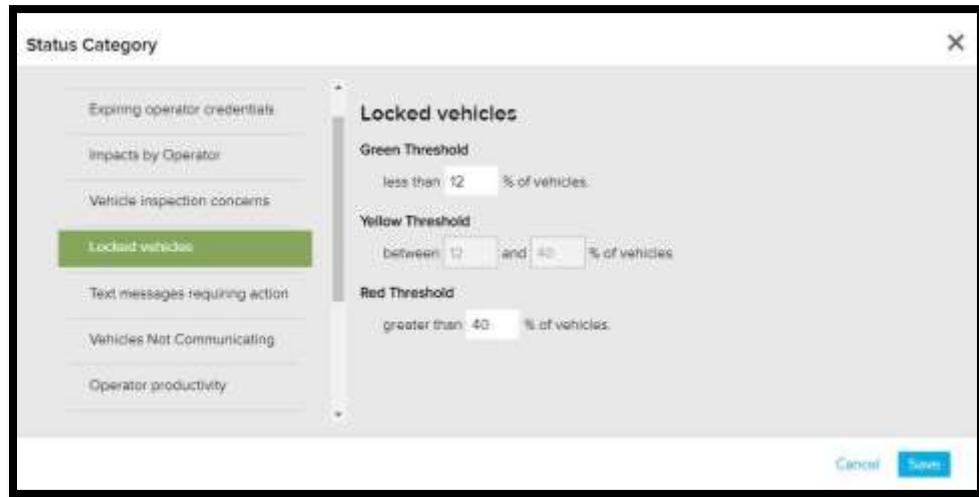
Editing Status Category Thresholds

From the dashboard view, you can't modify the configuration of the operator, vehicle, or system settings that produce the displayed results, but you can change the threshold values for each status category.

1. To change the threshold of a status category, [click the pencil icon](#) .



2. The **Status Category** window will open. You can navigate categories using the list on the left and edit the selected category thresholds on the right.



3. When you finish adjusting the thresholds, [click the Save button](#).

