

**STALKER**  
**STREET DYNAMICS**  
TRAFFIC DATA INTELLIGENCE

# STREET DYNAMICS WEB PORTAL User Manual





**Dear Valued Customer:**

Thank you for choosing the Stalker Street Dynamics Web Portal. You will find that this Portal allows you to dynamically change the configuration of your connected device. You will also be able to access and use your traffic data faster.

If you ever need any assistance with your Stalker Street Dynamics Web Portal, you can contact customer support at any time by calling 1-877-782-5537 (US and Canada) or +1-972-398-3780 extension 222 (outside of the US and Canada).

We sincerely appreciate you giving us the opportunity to serve you and your department. Most importantly, we care about you, and want you to be completely satisfied.

Thanks again!

Applied Concepts, Inc.

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# 1.0 INTRODUCTION

The following document explains the basic controls and functions of the Stalker Street Dynamics Web Portal. The Web Portal is a cloud-based application that allows users to select and configure Stalker Radar data collection devices and view the current and historical traffic data in the form of charts and reports.

**Note:** *We have attempted to make using the Street Dynamics Web Portal as easy as possible. Throughout the portal, you will find ( i ) icons. Hover over these icons for information about the feature and/or instructions about how to use it.*

## 1.1 BROWSER COMPATIBILITY

The Stalker Street Dynamics Web Portal was tested using Microsoft Edge, Firefox, and Chrome browsers. For best results, we recommend that you use the latest version of these browsers while using the Street Dynamics Web Portal.

## 1.2 SOFTWARE REQUIREMENTS

To view or open reports generated by the Street Dynamics Web Portal, you will need a .pdf-viewing software package such as Adobe Acrobat installed on any device used to view these reports.

## 1.3 CONNECTIVITY

Please be aware that device reception and connectivity may vary by location.

Stalker Radar shall not be responsible for the quality of, or lack of cellular service provided by any Underlying Carrier. It is the customer's responsibility to ensure devices enrolled in Street Dynamics Web Portal are placed in locations with adequate cellular coverage.

## 1.4 MANUAL COVERAGE

This manual corresponds roughly to Street Dynamics Web Portal version 2.11.1.



## 2.0 ACCESSING STREET DYNAMICS WEB PORTAL

### 2.1 LOGGING IN

You can log into the Street Dynamics Web Portal Software by visiting [www.streetdynamics.com](http://www.streetdynamics.com) and clicking the yellow “Web Portal Login” in the top right corner of the screen. Once you are on the login page, you will be prompted to enter your email address and password. (Fig. 1)

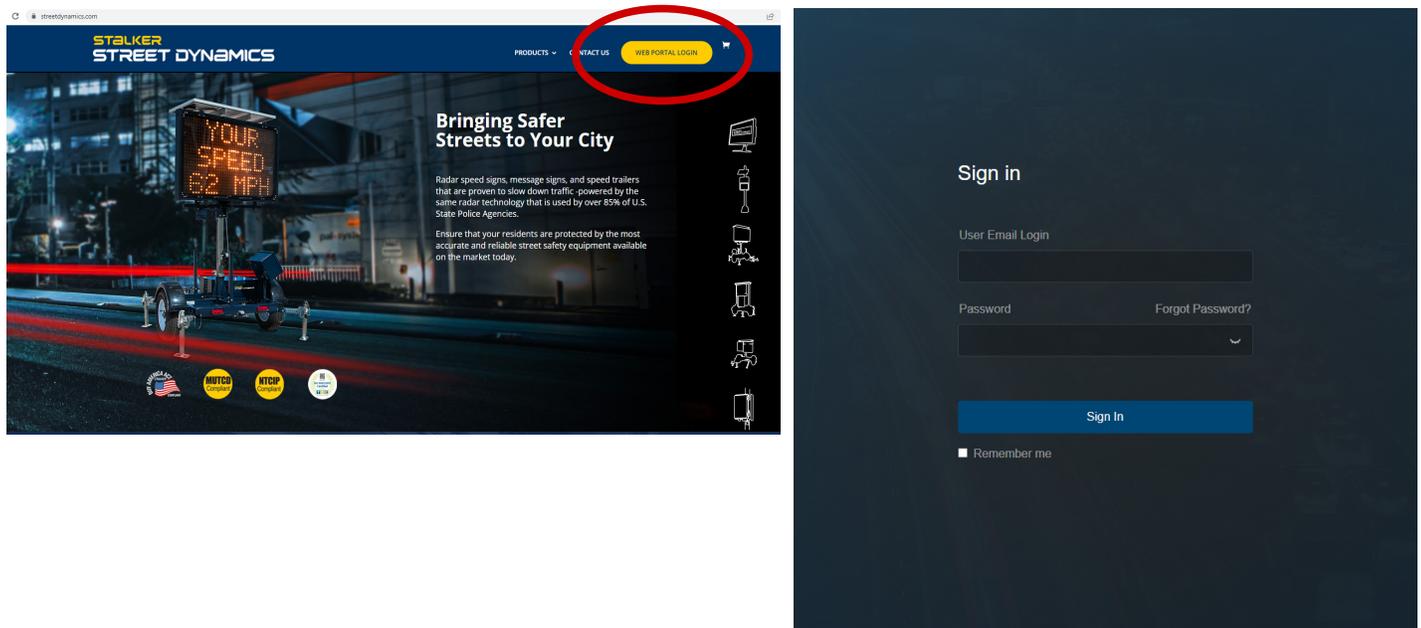


Fig. 1 - Log-In Screen

### 2.2 SETTING UP A NEW ACCOUNT

For instructions on how to set up new user accounts, see the 6.1 **Admin – Users** section of this manual.

#### 2.2.1 Account Types and Privileges

There are 3 account types:

- 1) **Administrator** – Administrators have full permission rights to the content of the web portal. They can create, modify, and delete any account access level and edit any of the devices. In the Device Menu, the administrator has the privilege to configure the device’s settings. They are also able to access the Admin Menu.
- 2) **Supervisor** – The supervisor has similar permission rights as the administrator, except that they can only create, modify, and delete User accounts.

3) **User** – The majority of individuals that have access to the devices in your Street Dynamics Web Portal account will have User-level permissions. Users have limited permissions to view device settings, view data, and create, download, and email reports.

### 2.2.2 Signing Out

To sign out of the Street Dynamics Web Portal, click the ▾ located next to your username in the top right corner of the screen, then click “Sign Out.” (Fig. 2)

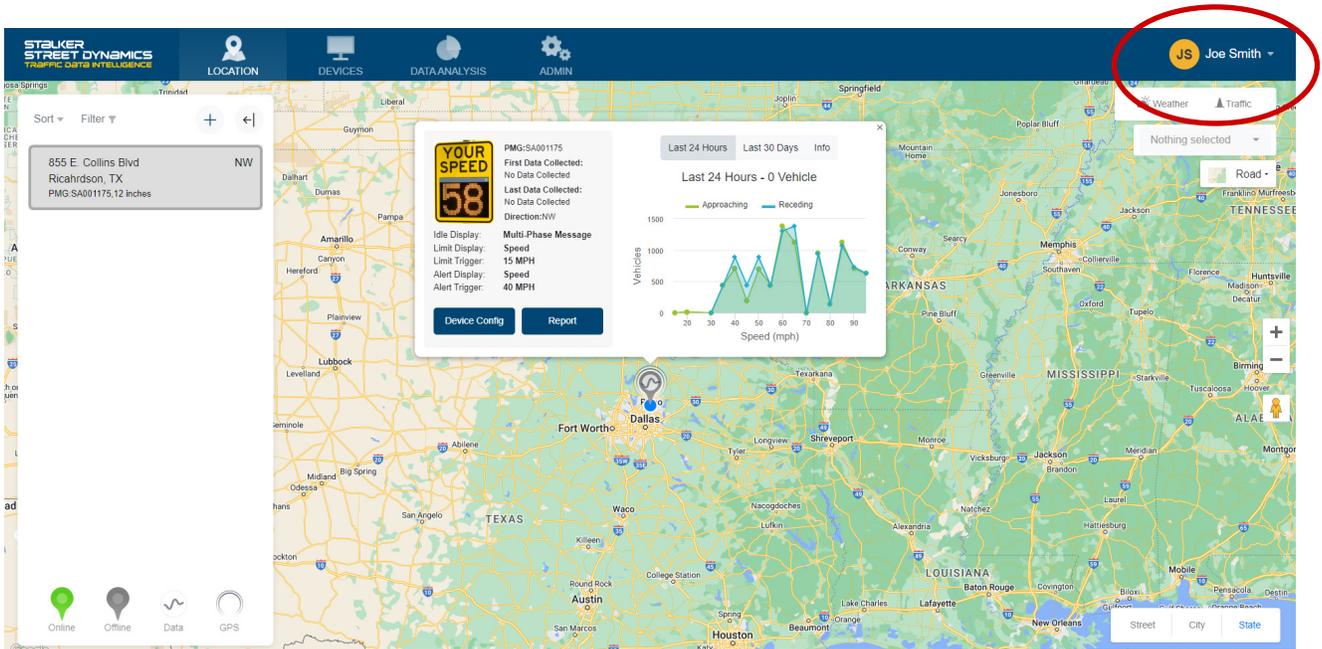


Fig. 2 - Signing Out

## 2.3 TROUBLE-SHOOTING LOG-IN

### 2.3.1 Forgotten Password + Password Reset Procedures

If you forgot your password, there are two ways that a password can be reset. You can either use the forgot password at the login screen or have the Admin or Portal Supervisor (depending on your access level) reset it for you. Please see the 6.1 Admin – Users section of this manual.

### 2.3.2 How To Change Your Password

To change your password, click the ▾ located next to your username, located in the top right corner of your screen. Then click on Change Password and follow the instructions on screen. (Fig. 3)

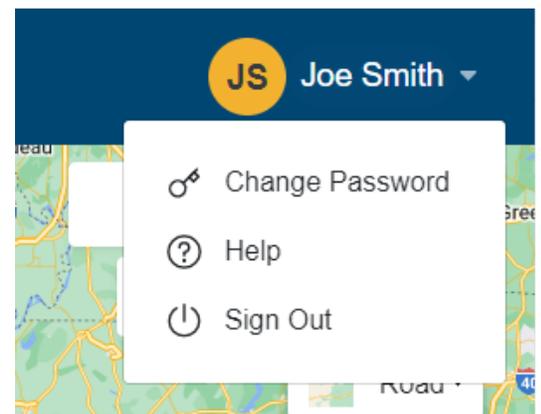


Fig. 3 - Change Password

### 3.0 LOCATION MENU

When you log into the Street Dynamics Web Portal, you will see a city-level map view. It will be centered in the area of the device that you most recently accessed via the portal, and the information for that device will be displayed in a device information popup over the map view. (Fig. 4)

To view the map and access the rest of your devices, simply click the ( X ) located in the top right corner of this popup to close it and then use the map as described below to view your devices. (Fig. 5)

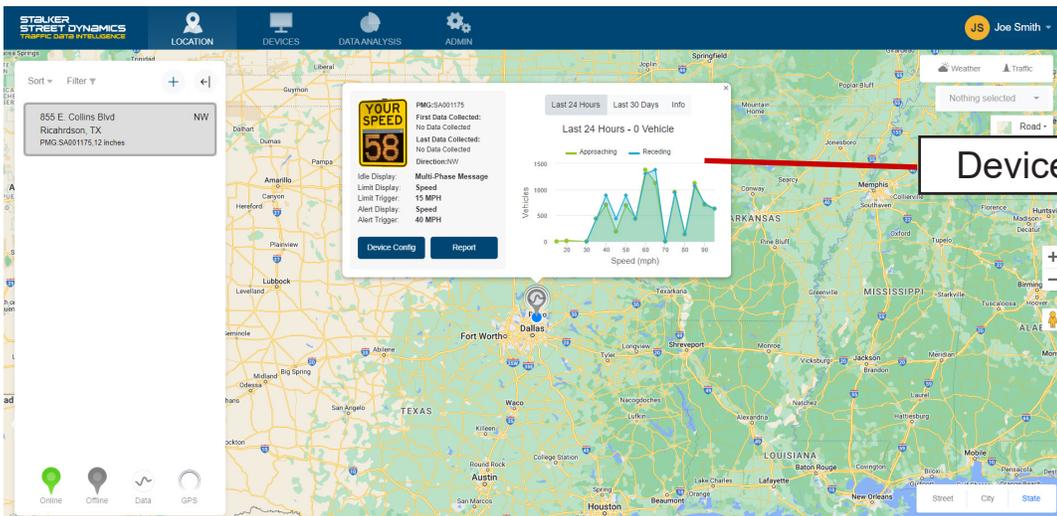


Fig. 4 - Device Popup

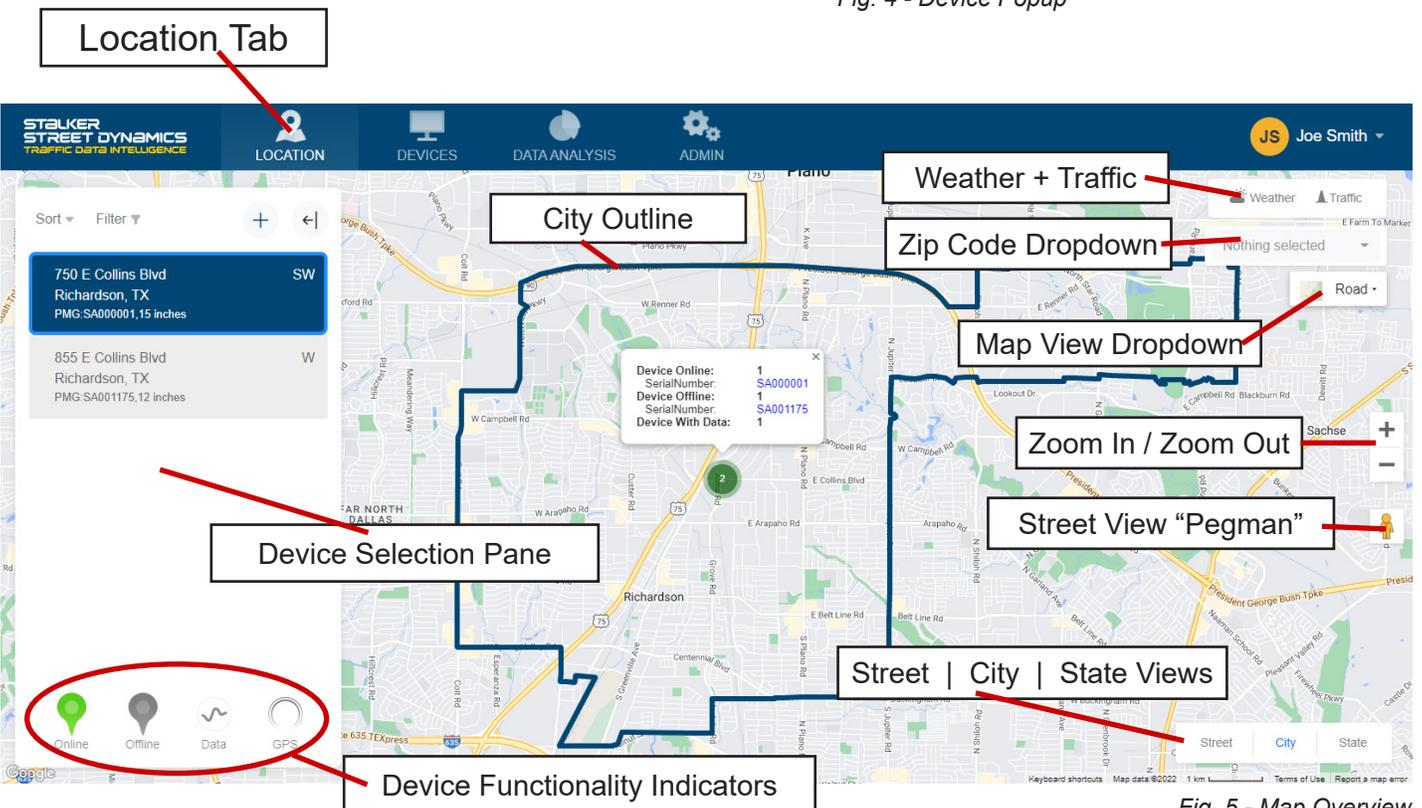


Fig. 5 - Map Overview

## 3.1 MAP SETTINGS

On the right side of the map screen are a collection of options that modify or enhance the map view.

### 3.1.1 Weather and Traffic

Click the weather button to add an overlay that shows active weather conditions in the area of the map being viewed. Clicking on the traffic button allows you to see current traffic conditions, road closures, and construction information. To deselect an overlay, simply click on the button a second time.

### 3.1.2 ZIP Code Dropdown

Directly under the Weather and Traffic buttons is a dropdown box with a list of the ZIP Codes that are in the city where your device is located. Click on any ZIP Code from this list to highlight and outline it on the map. You can click on multiple ZIP Codes to highlight larger areas. To unselect a ZIP Code highlight, click on the ZIP Code from the dropdown list a second time.

### 3.1.3 Map View Dropdown Menu

Underneath the ZIP Code dropdown box is a Map View dropdown menu that allows you to change the look and feel of your map.

- **Road** – A standard, easy to read map view.
- **Aerial** – Shows a satellite view of the map area.
- **Grayscale** – A grayscale version of the map.
- **Canvas Dark** – A dark mode friendly version of the map in black and gray.
- **Canvas Light** – Similar to the “Road” version of the map, but more simplified with fewer colors.

### 3.1.4 Zoom In / Zoom Out (+/- buttons) and Viewing Other Areas of the Map

Clicking the (+) button will zoom the map in. Clicking the (-) button will zoom the map out. You can also zoom in and out using the scroll wheel on your mouse if you have one.

Click the mouse and drag to move the map view to a different location.

### 3.1.5 Street View

Under the +/- buttons, you will see a “Pegman” icon (the yellow human figure). When you click on him and start to drag him onto the map, many roads will be highlighted in a teal blue color. You can place the “v” onto any highlighted road to see a street-level view of that location. To exit this view, click on the left arrow by the address that appears on the top left corner of the screen.

### 3.1.6 Street | City | State Views

In the bottom right corner of the Location screen you will see Street | City | State buttons. Click on any to zoom in or out to a street, city, or state-level map view.

## 3.2 ACCESSING YOUR DEVICES FROM THE LOCATION PAGE

There are two ways to access the configuration menu for your devices. (Fig. 6)

- 1) Click on the device pin while in map view.
- 2) Select the device from the list in the Device Selection Pane on the left side of the screen.

**Note:** To help you quickly recognize the currently selected pin (the one that is tied to the blue-highlighted device in the Device Selection Pane discussed below and the one related to the information displayed in the Device Info Popup), a blue dot appears at the point of the selected pin.

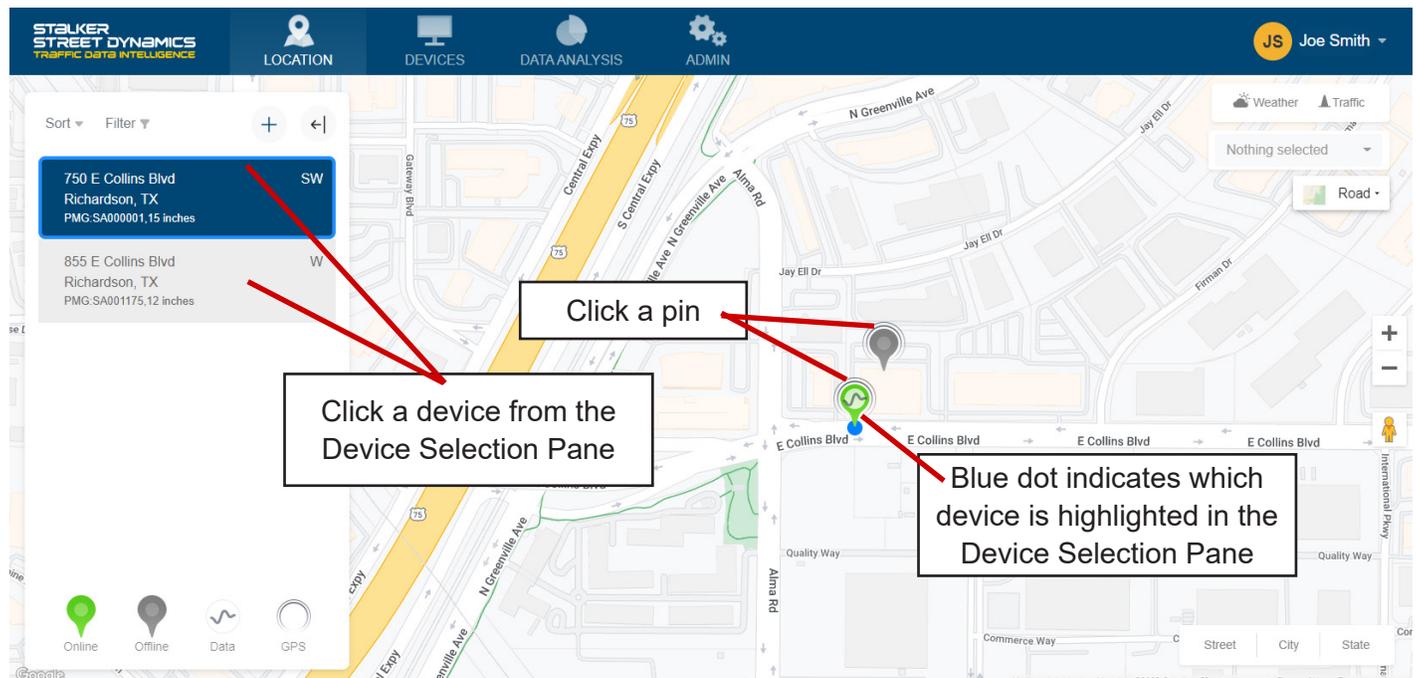


Fig. 6 - Select a Device

### 3.2.1 Accessing Devices from Map View

Accessing devices from Map View is as simple as clicking on the pin where your device is located on the map.

Devices pins are either green or gray, and may also include additional information about device functionality.



**Green pins** represent devices that are online, which means they are turned on and collecting traffic data.



**Gray pins** represent devices that are offline, which means they are powered off.



**Data Icon** - If a device has collected and transmitted data to the Street Dynamics Web Portal, it will show the wavy Data icon on top of the green or gray pin.



**GPS icon** - If a device is equipped with GPS, a halo will appear around the pin.



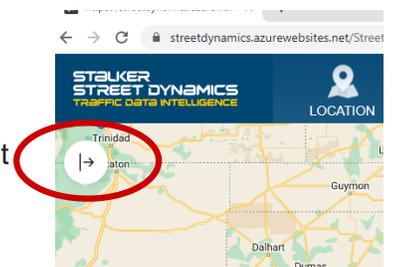
**Green circle with number** - A green circle with a number means that there is more than one device located in that area. This can happen when you have two or more devices located very close to each other, such as on either side of a road. Use the + / - arrow buttons to zoom in until you can see individual devices, then you can click on an individual device to select it.

**Note:** Circle will show as green, even if all associated devices are offline.

If the device you want to access is not located in the city that is currently centered, you can either click on its address from the Device Selection Pane (see section 3.2.2 for details) or use the + / - buttons on the right side of the map to zoom out until you see your device, then double click the device pin.

### 3.2.2 Accessing Devices from the Device Selection Pane

On the left side of the Location Page, you will see a Device Selection Pane, as shown in figure 6. If you do not see this Pane, it has been minimized. To bring it back on screen, simply click the icon located in the top left corner of the map just underneath the Stalker Street Dynamics logo.

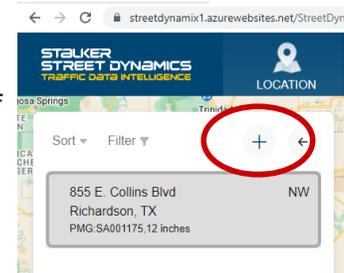


From this pane, you will see a list of all devices associated with your account. This list shows the address of each device, along with the device type, serial number, and, for some devices, the size of the device screen. The direction that the front of the device is facing is also listed in the upper right corner of each device's information.

Devices in this list can be sorted by online / offline status, street address, or serial number by using the Sort dropdown menu located in the top left corner of this pane. Devices can also be filtered by address using the Filter button.

If you have a large number of devices associated with your Street Dynamics Web Portal, scrolling will be enabled in this pane.

To change the location of a device, click on the "+" button located in the top right of the Device Selection Pane. For more information about adding devices, see the **3.4 Location - Assigning a Location to a Device** section of this manual.



### 3.3 DEVICE INFORMATION POPUP

Once you have clicked on your device from either the map or from the Device Selection Pane, you will see a Device Information Popup. This popup will show an image of your device model, some basic information about your device, a brief overview of the programmed functionality of your device, and 2 graphs that give you 24-hour and 7-day overviews of the data collected by your device if applicable. Close the popup by clicking on the ( X ) button in the top right corner of the popup. (Fig. 7)

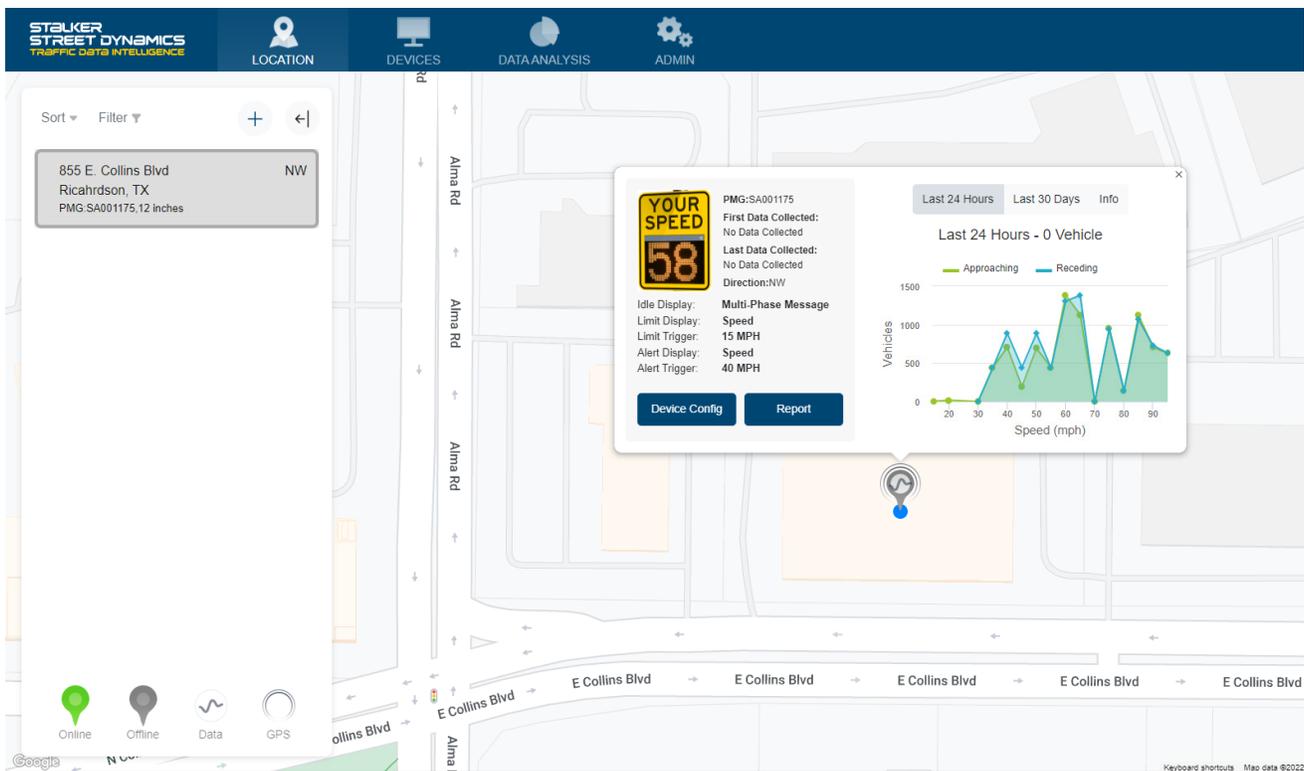


Fig. 7 - Device Information Popup

## Device Information

**Device Model** – Shows an image of the type of device associated with that location. **Note:** *This is a stock photo of the device model is not a live image of your device. Speeds/images shown on this image do not represent what is currently shown on your individual device.*

**PMG** – The serial number associated with your device.

**First Data Collected** – The date the 4G connection in the device first communicates with Street Dynamics Web Portal.

**Last Data Collected** – This is the date that data was last transmitted by your device to the Street Dynamics Web Portal.

**Direction** – This is the compass direction the front of the sign is facing. It is determined automatically by a magnetometer built into the sign.

## Programmed Display Information

For information about the functionality associated with the display options discussed here, see the **4.1.2 Devices – Quick Setup** section of this manual.

**Idle Display** – This shows the type of message displayed when the display is idle- i.e.- when a vehicle has not activated the Idle, Limit, or Alert Display settings.

**Limit Display** – This refers to the type of “Speed Limit Display” message that displays when a passing vehicle triggers the first displayed message/graphic/animation you have set up on your device.

**Limit Trigger** – The speed a passing vehicle needs to meet or exceed to trigger the Speed Limit Display message.

**Alert Display** – This refers to the type of “Speed Alert Display” message that displays when a passing vehicle triggers the second displayed message/graphic/animation you have set up on your device.

**Alert Trigger**– The speed a passing vehicle needs to meet or exceed to trigger the Speed Alert Display message.

## Graphs and Information (Fig. 8)

**Last 24 Hours Graph Tab** – The Last 24 Hours Graph will be automatically displayed when the Device Information Popup is opened. This report shows the distribution of the number of vehicles by their speeds that passed your device, breaking them down into approaching (driving towards the sign, shown in green) and receding (driving away from the sign, shown in blue), along with the total number of vehicles that have passed the device. The graph also is marked and labeled at the 85% Percentile Speed of the collected traffic data. You can click on the words “Approaching” and/or “Receding” to hide or display that data from the displayed chart.

**Last 30 Days Graphic Tab** – shows the same information as the “Last 24 Hours” graph, but includes all data collected by your device during the last 30 days. You can click on the words “Closing” and/or “Away” to hide or display that data from the displayed chart.

**Info Tab** – This tab displays detailed device information. This information is also found in **Devices – Settings – Device Configuration** and also in **Admin – Devices**.

**Device Config** – This button creates a popup window that displays all the configuration options available for the selected device. See the **4.0 Device Menu** section of this manual for more information on how to program your device. To close this popup, simply click on the ( X ) in the top right corner of the popup.

**Report** – This button creates a popup window that displays the Data Analysis options for the current survey. See the **5.0 Data Analysis Menu** section of this manual for more information on how to prepare the analysis for the current survey. To close the popup, simply click on the ( X ) in the top right corner of the popup.

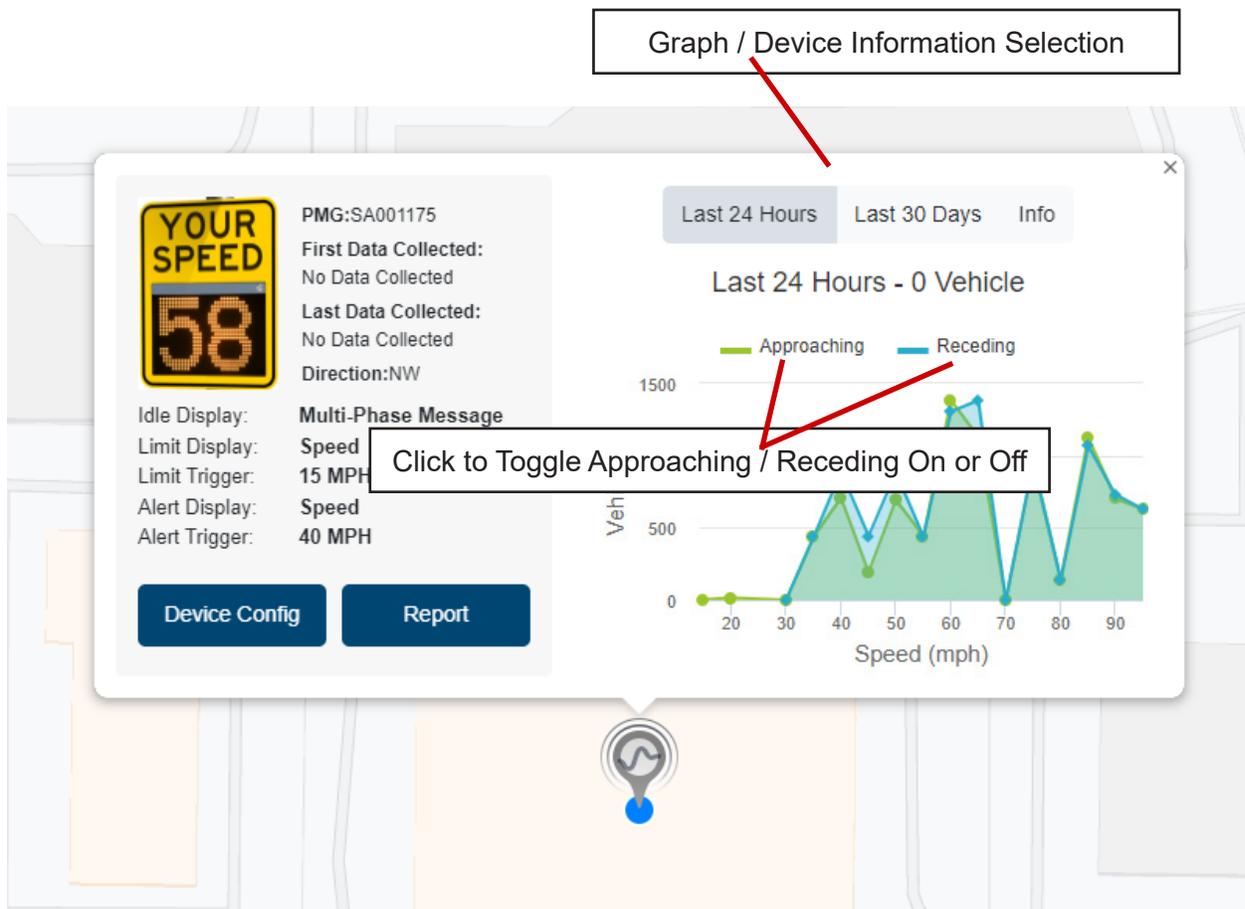


Fig. 8 - Device Information Popup

## 3.4 ASSIGNING A LOCATION TO A DEVICE

Even though the device being added to the Street Dynamics Web Portal may have GPS capability, its position can vary slightly from GPS fix to GPS fix due to variances in the GPS signal. To compensate for these variances, you will need to assign each device to a known location. The assigned location becomes the location of record for the device and the data it collects, even though the actual GPS of the device may indicate it is located slightly off the location.

### 3.4.1 Device Currently Installed and Powered On

The following procedure will allow you to relocate a device which is already installed and running

- 1) Select the device you would like to set up from the device pane of the location screen.
- 2) Click the “Yes” button to set the device’s location.
- 3) Fill out the form with the address and click the magnifying glass icon to load the proper time zone of the sign.

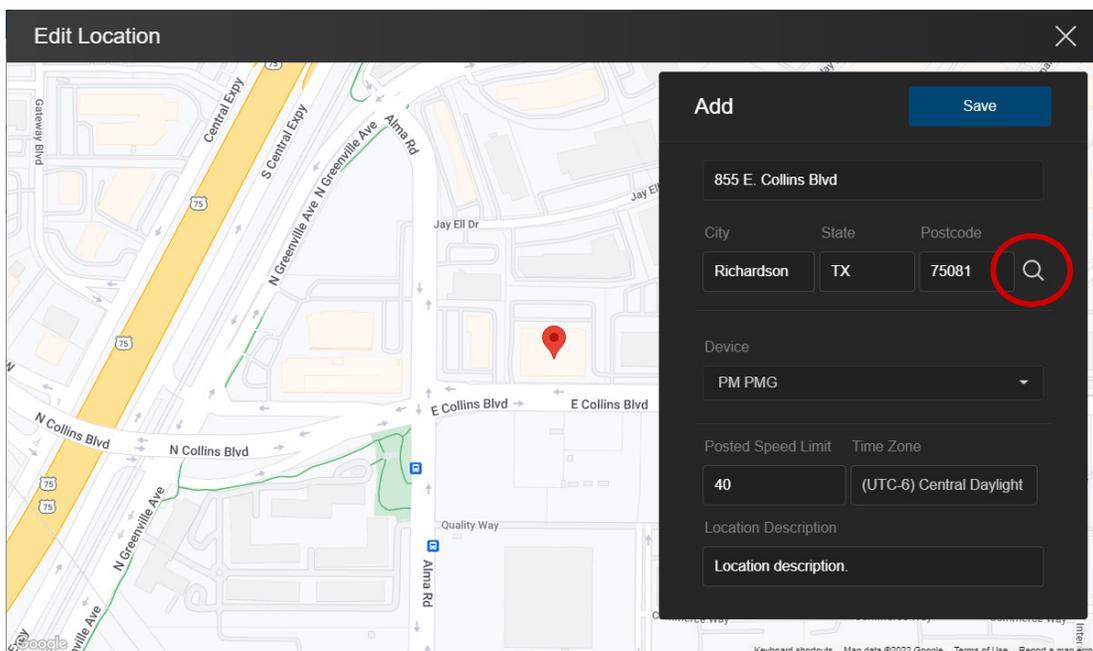


Fig. 9 - Relocating Current Device

- 4) Make sure the correct device is selected from the dropdown menu.
- 5) Fill out the remainder of the form with the “Posted Speed Limit” and “Location Description”
- 6) Click the “Save” button when all fields of the form have been filled out and the address is correct.
- 7) Your device should now be relocated to the address that was entered in the form.

### 3.4.2 Device Not Installed, or Device Position Needs to Change While Powered Off

The following procedure is for a device which is currently not sending data to the Street Dynamics Web Portal, either because it is powered down or not installed.

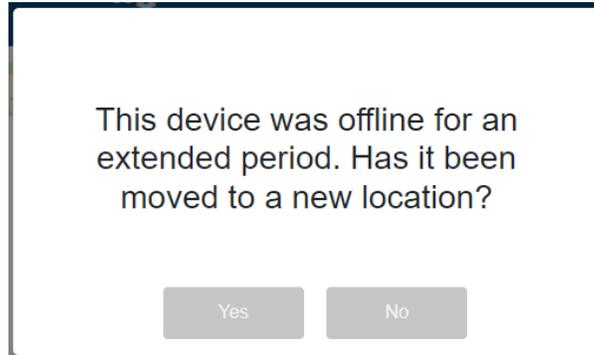


Fig. 10 - Offline Device Popup

- 1) Select the device you would like to set up from the device pane of the location screen.
- 2) Click the “+” icon at the top of the left menu to set the device’s location.
- 3) Fill out the form with the address and click the magnifying glass icon to load the proper time zone of the sign.

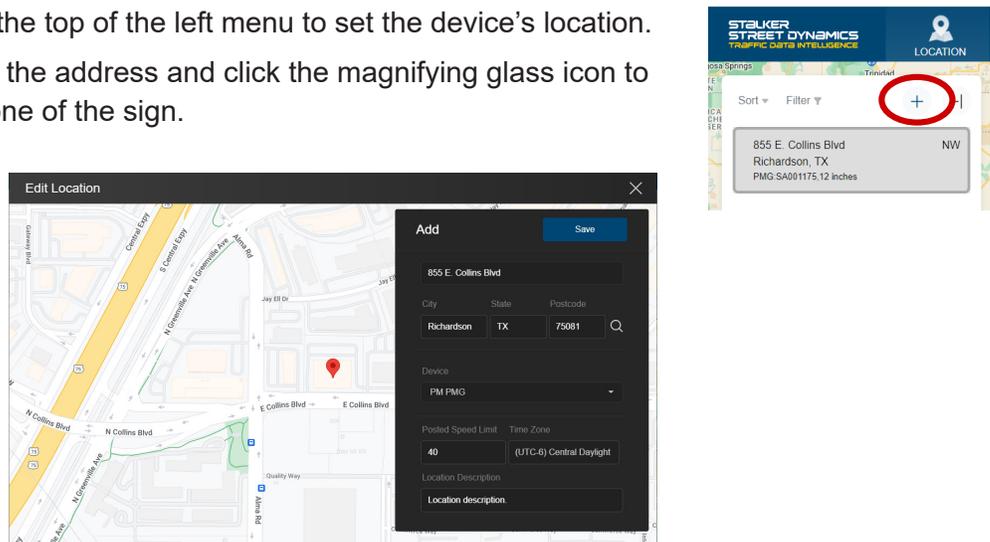


Fig. 11 - Assigning Location to Device

- 4) Select the correct device from the dropdown menu.
- 5) Fill out the remainder of the form with “Posted Speed Limit” and “Location Description”
- 6) Click the “Save” button when all fields of the form have been filled out and the address is correct.
- 7) Your device should now be relocated to the address that was entered in the form.

### 3.5 REMOVING A DEVICE FROM STREET DYNAMICS WEB PORTAL

There is no method to take a device offline other than powering down the device. When the device is powered back on, it will attempt to contact the server.

If a device needs to be taken out of service permanently, contact Stalker Radar Customer Service: 1-877-782-5537 (US and Canada) / 1-972-398-3780 ext. 222 (outside of the US and Canada).

## 4.0 DEVICES MENU

The Devices Menu is where messages, graphics, and animations are programmed and uploaded to your device(s). You can also schedule specific times and dates when messages will be displayed using the Calendar, and can configure other device settings.

There are two ways to access this Menu. (Fig. 12)

- 1) Click on the Devices icon in the blue header at the top of the screen.
- 2) From the Device Information Popup accessed by clicking on a device from the Locations Menu, click on the "Device Config" button. **Note:** This method will open the Devices Menu in a separate popup window.

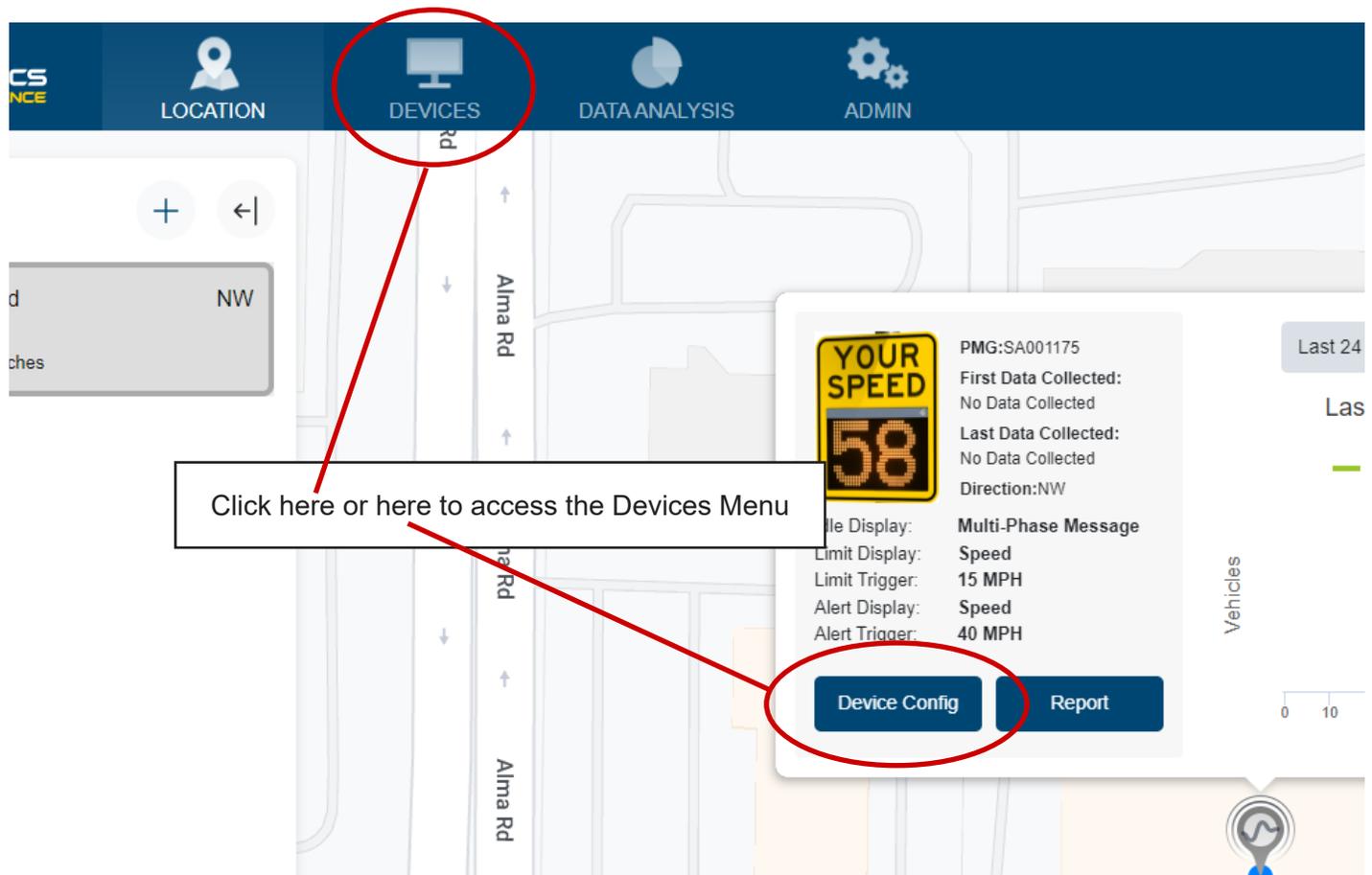


Fig. 12 - Access the Devices Menu

Fig. 13 - Devices Menu

## 4.1 DEVICES MENU OVERVIEW

See *PMG Operators Guide, PN# 011-0269-00 section 1* for overview of PMG operation.

On the left side of the Devices Menu, you will see a selection of options. (Fig. 13) For more detailed information about any of these options, please consult their individual descriptions in this manual.

### **Important Note:**

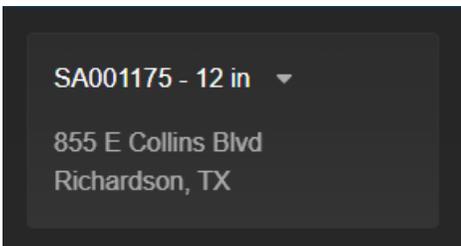


*Any changes input into the Devices Menu are specific to the device being modified. New messages created will only be available on the device they are programmed for and are also only available for use by the user who originally created the message, so be sure that you are working on the correct device and are logged into the correct account.*

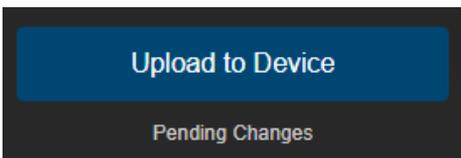
*You can check which device you are modifying by looking at the Device Information in the top left corner of the Device Menu. To select a different device from the one shown, click on the ▾ next to the sign name. A dropdown menu with all available devices will be shown. Click on the device you want to modify.*

*This dropdown will only be accessible if you accessed the Device Menu by clicking on the Devices tab at the top of the screen - you cannot access this dropdown if you have accessed the Device Menu via the "Device Config" button from the Device Information Popup.*

*You can only access Online Devices from this dropdown. To access an offline device, you must select the device from the Location menu, then click the "Device Config" button on its Device Information Popup.*



**Device Information** – Select which device you are editing.

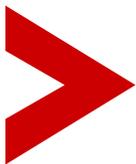


**Upload to Device Button** – This button pushes any messages, displays, or calendar changes to your device. It remains grayed out until you have saved your desired changes using the appropriate Save button(s) located on the screen(s) related to your change(s). Once you have clicked the Save button, the Upload to Device button will turn blue and “Pending Changes” will appear underneath the button. You can upload more than one change at a time to your device.

**Important Note:** *Saved changes to your device’s settings will not appear on your device unless you click the “Upload to Device” button, the changes you have made will be lost and you will have to redo them if you leave the configuration page.*

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**Note: Standard vs. Custom Messages/Graphics/Animations** – *Throughout the Devices Menu, you will see toggles that allow you to switch between standard and custom options. Standard messages/graphics/animations come pre-programmed on your device, and include common messages such as “SLOW DOWN,” “WORK ZONE,” and “LANE CLOSED.” Custom messages/graphics/animations are created by the User.*



**Please be aware that any pre-programmed Standard messages, graphics, and animations are not necessarily MUTCD-compliant. It is up to the operator to ensure that messages are appropriate and that they meet local, state, and federal signage guidelines where applicable.**



**Quick Setup** – Allows you to quickly select and add preconfigured custom and standard messages to your device.



**Calendar** – Allows you to schedule “Operations,” i.e. - collections of messages / graphics / animations that are designed to show on your device on select dates/times.

## Settings

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### Device Configuration

**Settings – Device Configuration** – Reset your device, sync the time, and view information about your device and its key components.

### Units of Measure

**Settings – Units of Measure** – Allows you to configure your device's minimum and maximum speed displays, the units of measurement shown, display brightness, and MUTCD compliance.

### Traffic/Radar/Data

**Settings – Traffic/Radar/Data** – Configure your radar settings and your data upload frequency.

### GPIO

**Settings – GPIO** – *reserved for future enhancement.*

### Power Monitoring

**Settings – Power Monitoring** – *reserved for future enhancement.*

## Messaging

---

### Text

**Messaging – Text** – Configure text-based messages.

### Graphics/Animations

**Messaging – Graphics/Animations** – Configure graphics and animations.

### Multi-Phase Messages

**Messaging – Multi-Phase Message** – Create a cycling series of text, graphic, and animated messages designed to display in series.



**Lock Icon** – If you see this icon next to items in the Device Menu, your device does not have this capability enabled, contact your representative to purchase this option.

### 4.1.1 Device Selection

If you have more than one device associated with your Street Dynamics Web Portal account, you will find them in the Device Selection dropdown menu. Be sure that you are editing the correct device when you are adjusting device settings, creating messages, or adjusting radar settings. (Fig. 14)

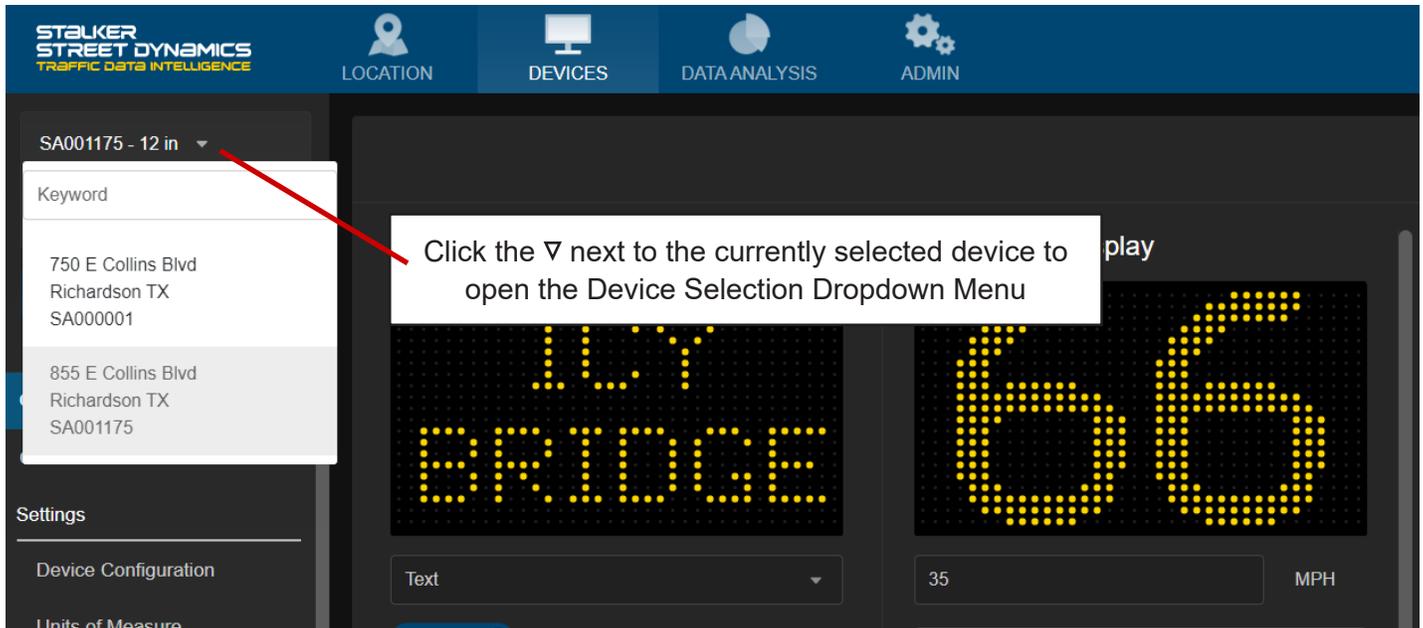


Fig. 14 - Device Selection

### 4.1.2 Quick Setup

#### Quick Setup

Quick Setup allows you to quickly configure your device using standard messages or the messages you have customized in the Messaging section of the Devices Menu (see the Text, Graphics/Animations, and Custom Message sections under **4.8 Device Menu – Messaging** in this manual

for more information on creating custom displays for your device). **Note: Selections made in Devices – Calendar can override settings programmed in Quick Setup. See the 4.2 Devices – Calendar section of this manual for more information on Calendar settings.**

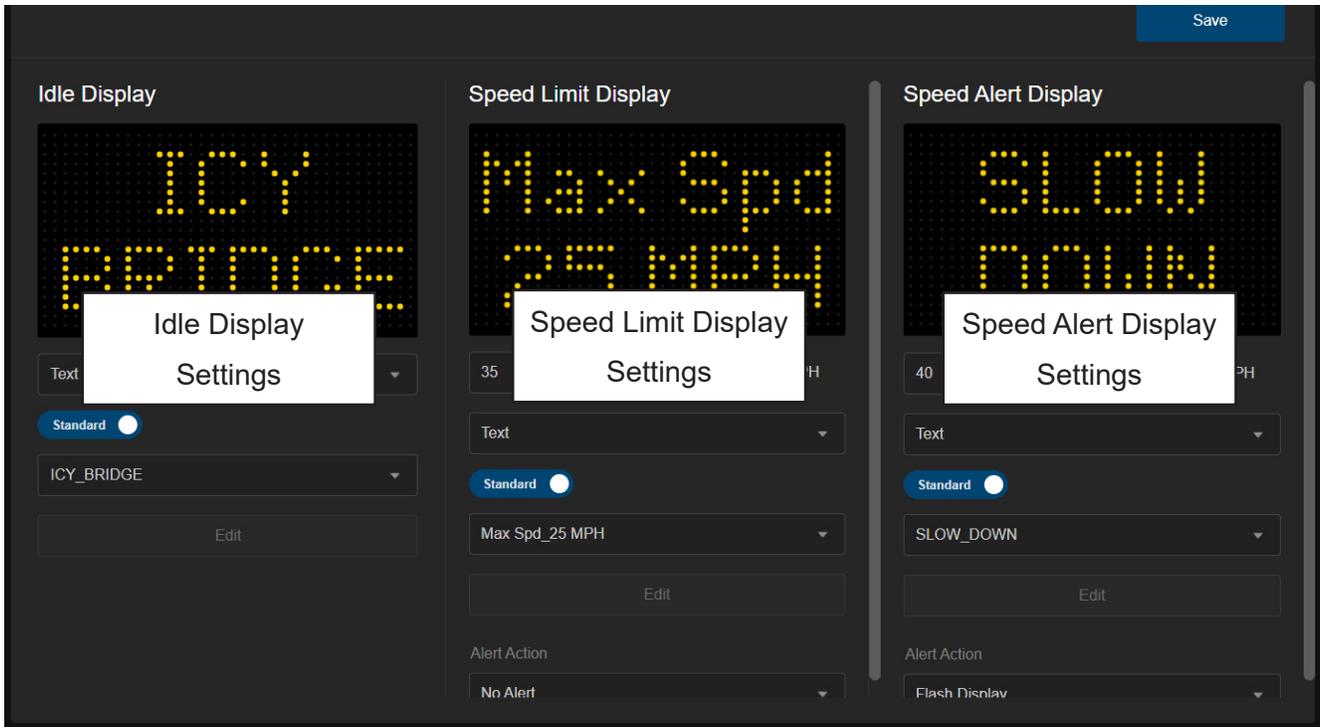


Fig. 15 - Quick Setup Settings

#### 4.1.2.1 Configuring Your Device Using Quick Setup

Each display configuration involves 3 settings (Fig. 15):

- **Idle Display** – what will show on the device when neither the Speed Limit Display or the Speed Alert Display have been triggered.
- **Speed Limit Display** – what will show on the Speed Limit Display when it has been triggered by a vehicle passing the device at a speed between the Speed Limit Display speed setting and the Speed Alert Display speed setting.
- **Speed Alert Display** – what will show on the device when a vehicle has exceeded the Speed Alert Display speed setting.

See *PMG Operator Manual, PN# 011-0269-00 section 1.0* for a full description.

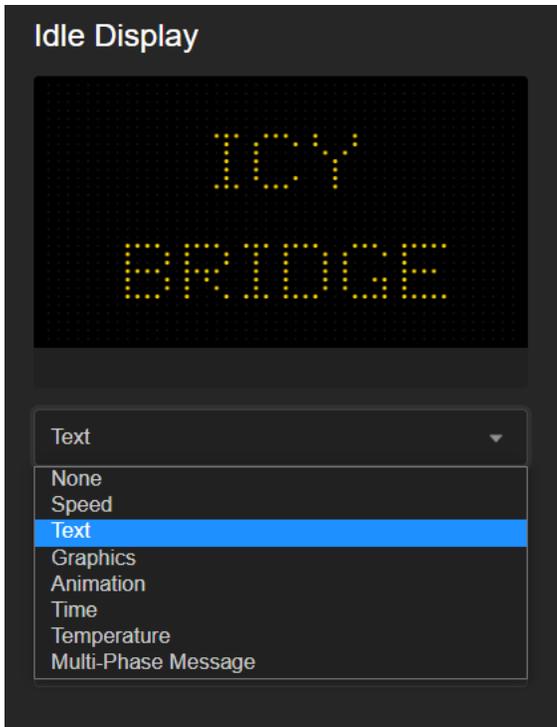


Fig. 16 - Display Settings Dropdown

Each Display setting requires you to select the display type from a dropdown menu (Fig. 16). The options are:

- None** – The display shows blank/black.
- Speed** – The display shows the speeds of passing vehicles.
- Text** – Displays a single text-based message.
- Graphics** – Displays an image.
- Animation** – Displays a moving animation.
- Time** – Displays the current time.
- Temperature** – Displays the current temperature at the location of the sign.
- Multi-Phase Message** – Displays a custom series of text-based messages, graphics, and animations. This is used when you need more than one message/graphic/animation to loop in a sequence.

For many of the Display options, you can toggle between “Standard” and “Custom” (Fig. 17). This will determine which set of display options will be available in the second dropdown menu.

If your device is equipped with the Text and Graphics Package, then you have access to a collection of pre-programmed Standard texts, graphics, and animations.

Multi-Phase Messages are messages that you have created in the **4.9-4.11 Device Menu – Text/Graphics/Animations/Multi-Phase Messages** sections of this Menu. For more detailed information about customizing your text/graphics/animations, see the **4.8 Devices – Messaging** section of this manual.

**Note:** *If you want your device to show the same message regardless of vehicle speed, you need to program each Display with the exact same settings. Enter any speed into the Speed Limit Display and Speed Alert Display areas.*

When you have selected your display settings, you will see them appear on the sample device screens in each section.

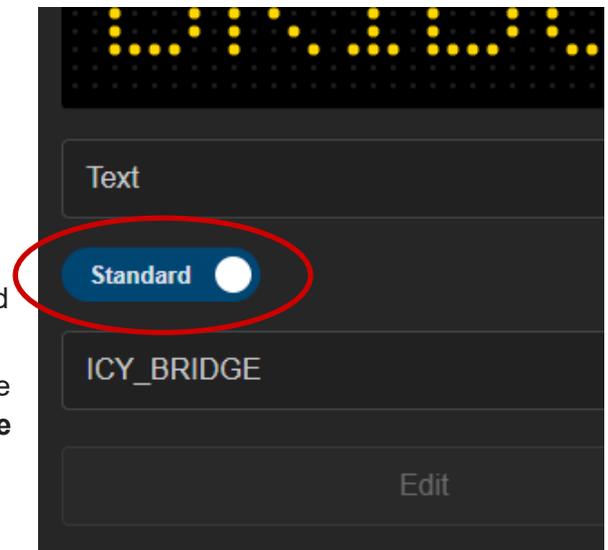


Fig. 17 - Standard / Custom Toggle

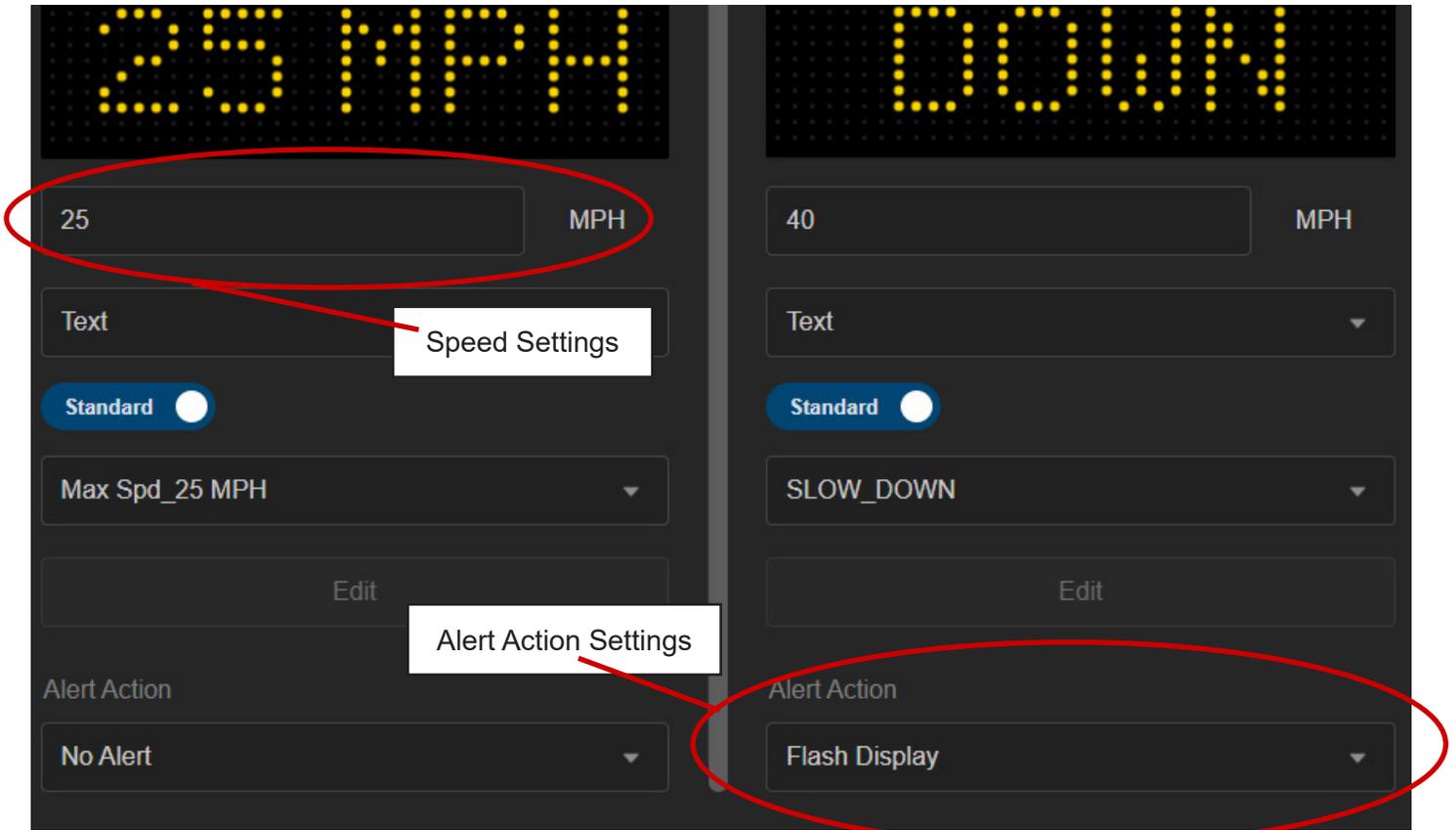


Fig. 18 - Speed and Alert Action Settings

Speed Limit Display and Speed Alert Display have two additional options:

**Speed** – This box allows you to input the passing vehicle speed that will trigger the message to appear.

**Alert Action** – In addition to showing your desired Text/ Graphic/Animation on the display, you can also program your device to show an Alert Action (Fig. 19). The “No Alert” and “Flash Display” options are available on all devices. The “Strobes,” “Camera rigger,” and “GPIO” alerts will only be available if your device has been configured with the Alert at the time of purchase.

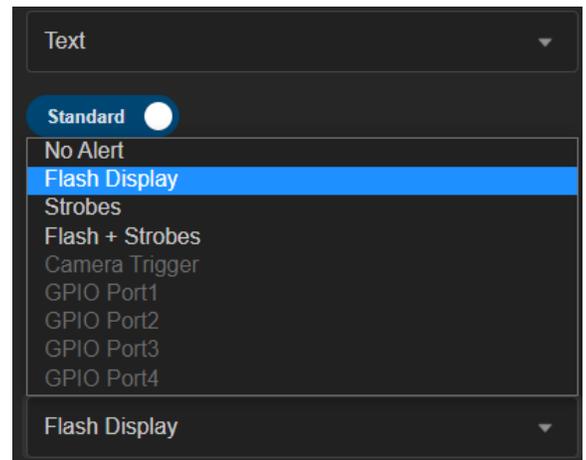


Fig. 19 - Alert Action Dropdown Menu

**Available Actions are:**

- **No Alert** – Only displays the selected Text/Graphic/Animation on the screen with no additional alerts.
- **Flash Display** – Causes the currently selection display option (Idle Display / Speed Limit Display / Speed Alert Display ) to flash.
- **Strobes** – Triggers white, blue, and/or red strobes to flash on the device (strobe colors selected at time of purchase).
- **Flash + Strobes** – Triggers both the Flash Display and the Strobes.
- **Camera Trigger** – *reserved for future enhancement.*
- **GPIO Port1** - *reserved for future enhancement.*
- **GPIO Port2** - *reserved for future enhancement.*
- **GPIO Port3** - *reserved for future enhancement.*
- **GPIO Port4** - *reserved for future enhancement.*



**IMPORTANT!** Don't forget to click the blue Save button located in the top right corner of the screen to save your settings. In order for the new settings to actually appear on your device, you need to send them to the device by clicking the blue **Upload to Device** button in the left menu directly underneath the Device Selection dropdown (this button will be unavailable until after you have clicked the Save button).

## 4.2 CALENDAR

### 4.2.1 Calendar Overview



**Reminder:** Check the device name in the upper left corner of the screen to ensure that you are programming your Calendar settings for the correct device. Settings/programs are not transferable between devices (they are created individually for each device).

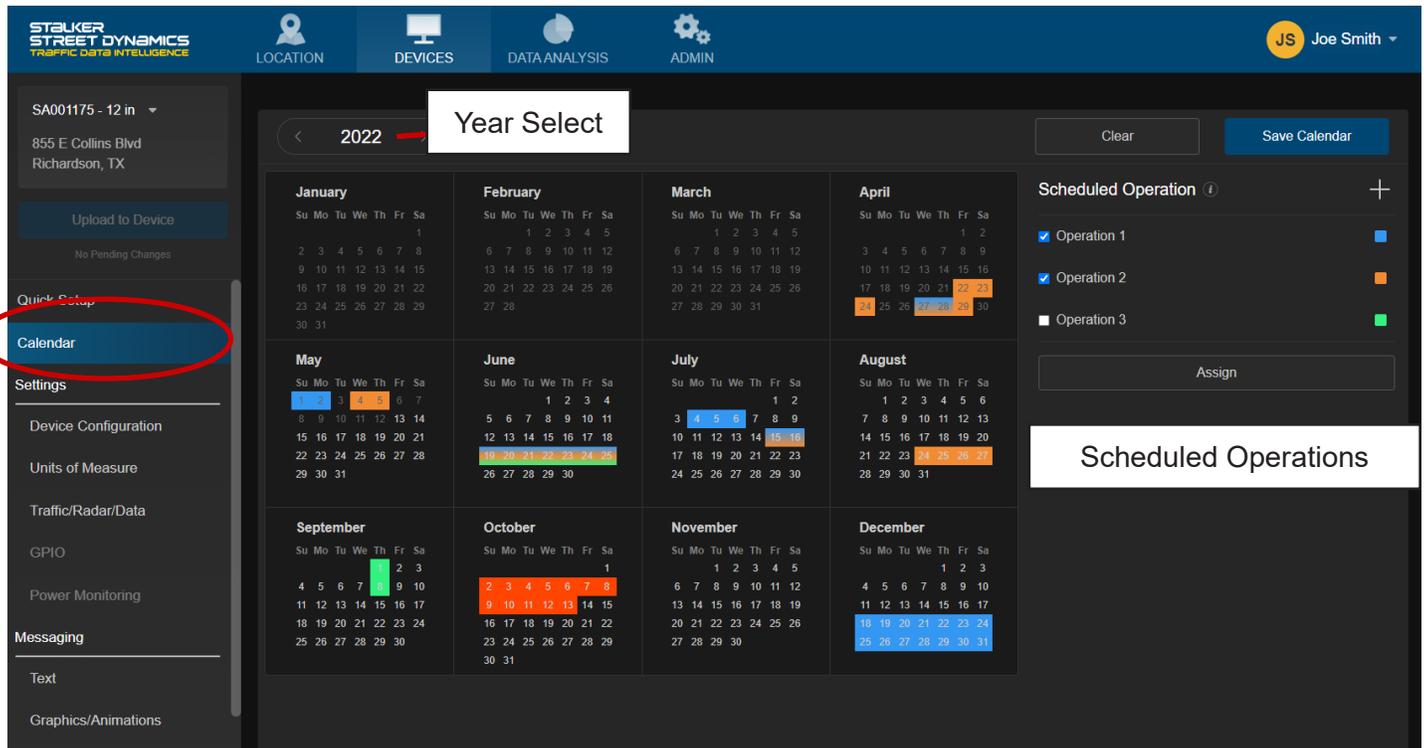


Fig. 20 - Access the Calendar

To access the calendar, click on “Calendar” located on the right side of the Devices sidebar. (Fig. 20) When you are in the Calendar Menu, you will see a calendar along with several buttons and have the ability to schedule operations. Hovering over any colored calendar date will show a popup with a list of the Operation(s) scheduled for that day.

**Note:** Past days are grayed out and you will be unable schedule operations on these days.

- **Year Select** – Located to the top left of the calendar is a year toggle. You can schedule operations indefinitely into the future. Scroll through the years by using the < and > arrows beside the year.

- **Scheduled Operation** – “Operations” are any sequences messages, graphics, or animations that you want to program your sign display on specific days at specific times. You can click the (+) button to add a new Operation. You can learn how to set up a new Scheduled Operation in the **4.2.2 Devices – Calendar – Scheduled Operations** section of this manual.

**Note:** Clicking on the ( i ) icon next to the words “Scheduled Operation” will cause an instructional popup to appear that explains the steps required to create a new Scheduled Operation. You can grab this popup and move it around the screen to keep these instructions handy as you work. (Fig. 21)

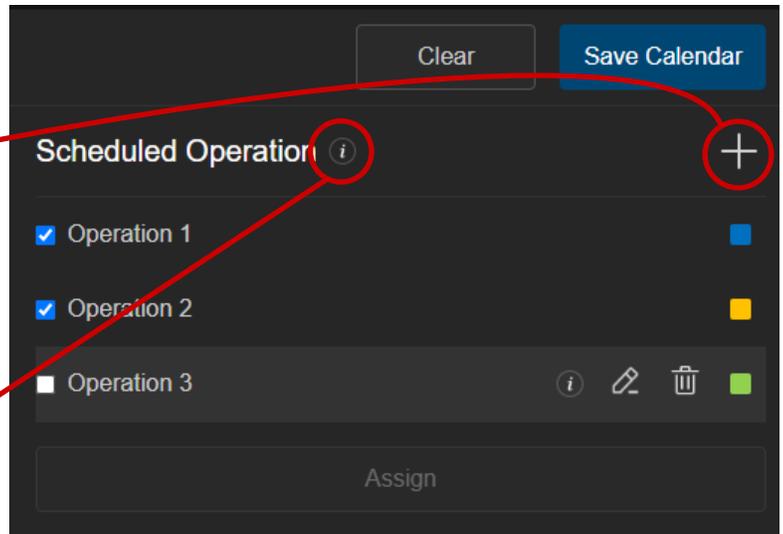


Fig. 21 - Scheduled Operation

Operations that have been previously created will display in a list, along with the color assigned to it during the setup process. On the calendar, you will see the days these Operations are scheduled highlighted in the operation’s color. If more than one Operation is scheduled for a day, you will see a gradient of the colors of all Scheduled Operations for that day on the calendar.

Hovering the mouse over an Operation in the list will cause the operation row to turn a lighter color and will cause several options to appear on screen. (Fig. 22)

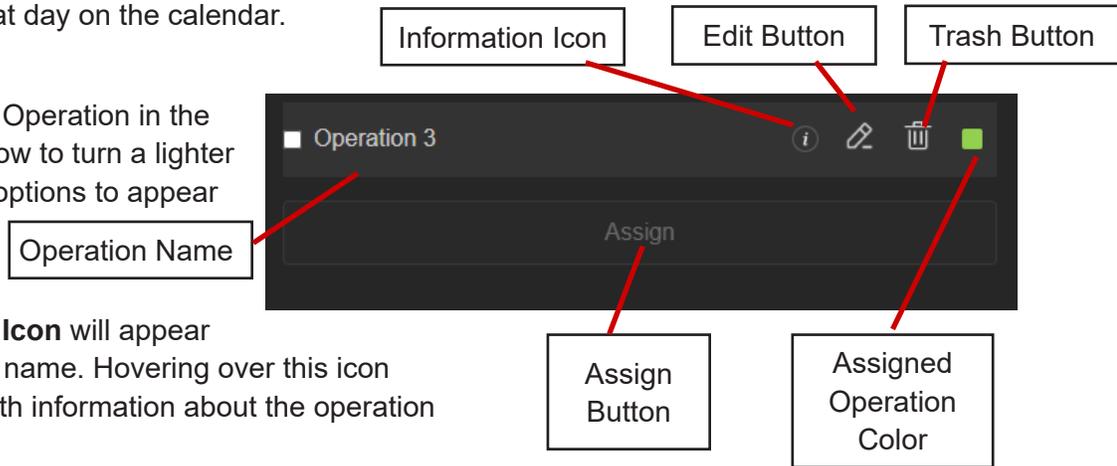


Fig. 22 - Scheduled Operation Hover State

- ( i ) **The Information Icon** will appear next to the Operation name. Hovering over this icon will cause a popup with information about the operation settings to appear.
- **Edit button** – Allows you to edit the settings of the Operation.  
**Note:** Editing a Scheduled Operation will delete all instances of the operation on the Calendar, requiring you to reschedule the edited operation to all dates where the original version of the Operation was scheduled.
- **Trash button** – Deletes the operation, and also deletes every instance of it on the Calendar schedule.

**Assign Button** – Remains gray/unavailable until you click on calendar dates and associate them with a Scheduled Operation. You must click the Assign button, then click the Save Calendar button. This will push the new calendar configuration to your device.

**Clear** – This button will completely clear the calendar of all Scheduled Operations.

**Save Calendar Button** – Saves any changes you have made to the Calendar and/or Scheduled Operations.

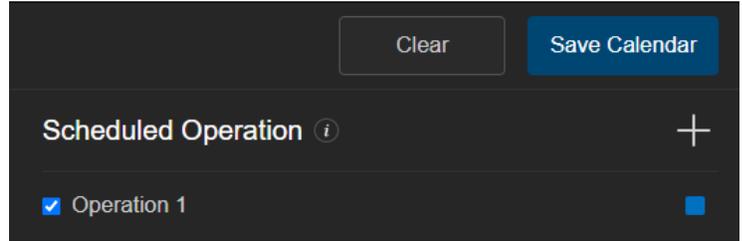


Fig. 23 - Clear and Save Buttons



**IMPORTANT NOTE:**

*You MUST click the Save Calendar button if you have added any Scheduled Operations, added/edited/removed Operations on the Calendar, or edited any Scheduled Operations. Failure to click the Save Calendar button will result in any new work not being saved.*

**4.2.2 Creating Scheduled Operations**

To create a new Scheduled Operation, click on the ( + ) button in the Scheduled Operation section of the Calendar page. (Fig. 24)

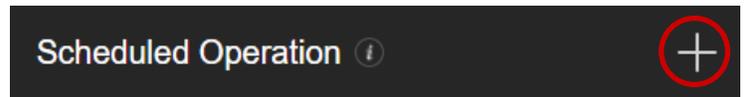


Fig. 24 - Create a new Scheduled Operation

This will bring up the Add window. (Fig. 25)

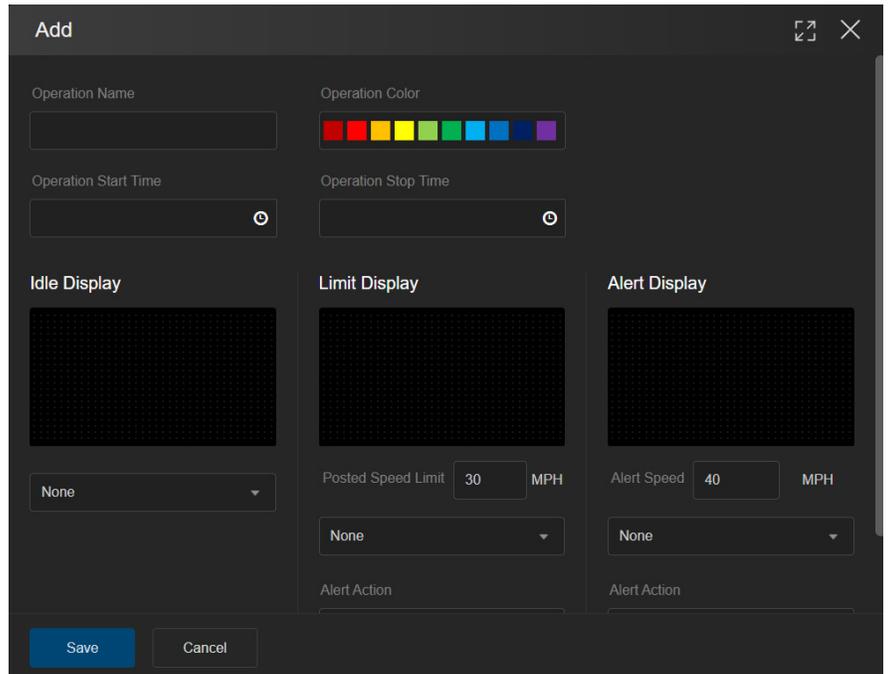


Fig. 25 - Add Scheduled Operation Popup

There are a variety of settings that you can configure for your Scheduled Operation:

**Operation Name** – The name that will be displayed for this Operation in the Scheduled Operations list in the calendar view.

**Operation Color** – Click on the colored square to bring up a color selector. Click on your desired color from the rainbow band on the right, then hover over the large colored square and move the crosshair cursor that appears over your desired color. Or, if you know the hex code of the color you want to be associated with this operation, you can click in the Operation Color box and type in the number. Click anywhere else on the screen to dismiss the color selector window. **Note:** *It is best to select unique colors for each operation to make them easy to distinguish when they are applied to the Calendar, especially for days that have multiple Scheduled Operations.*

**Operation Start Time** – This is the time that the Scheduled Operation will begin on whatever day(s) it is assigned to.

**Idle Display** – This shows the message displayed when the device is idle- i.e.- when the device has not been triggered by a vehicle passing the device.

**Limit Display** – This refers to the “Speed Limit Display” message that displays when a passing vehicle triggers the first displayed message/graphic/animation you have set up on your device.

**Speed Limit** – The speed a passing vehicle needs to meet or exceed to trigger the Speed Limit Display message.

**Alert Action** – If you have strobes, lights, a camera, or GPIO devices connected to your sign, you can trigger them by selecting them from this dropdown menu.

**Alert Display** – This refers to the “Speed Alert Display” message that displays when a passing vehicle triggers the second displayed message/graphic/animation you have set up on your device.

**Alert Speed** – The speed a passing vehicle needs to meet or exceed to trigger the Speed Alert Display message.



Remember to click the “Save” button when you are finished configuring your Scheduled Operation.

### 4.2.3 Assigning Scheduled Operations to the Calendar

There are two steps to adding a Scheduled Operation to the Calendar, and they can be done in either order. (Fig. 26)

1) On the calendar, highlight the day(s) on the calendar when you would like an operation to be scheduled. You can either click the days individually, or click and drag the mouse to select a consecutive series of dates.

2) Click the checkbox next to the name of the operation(s) that you want to add to the schedule.

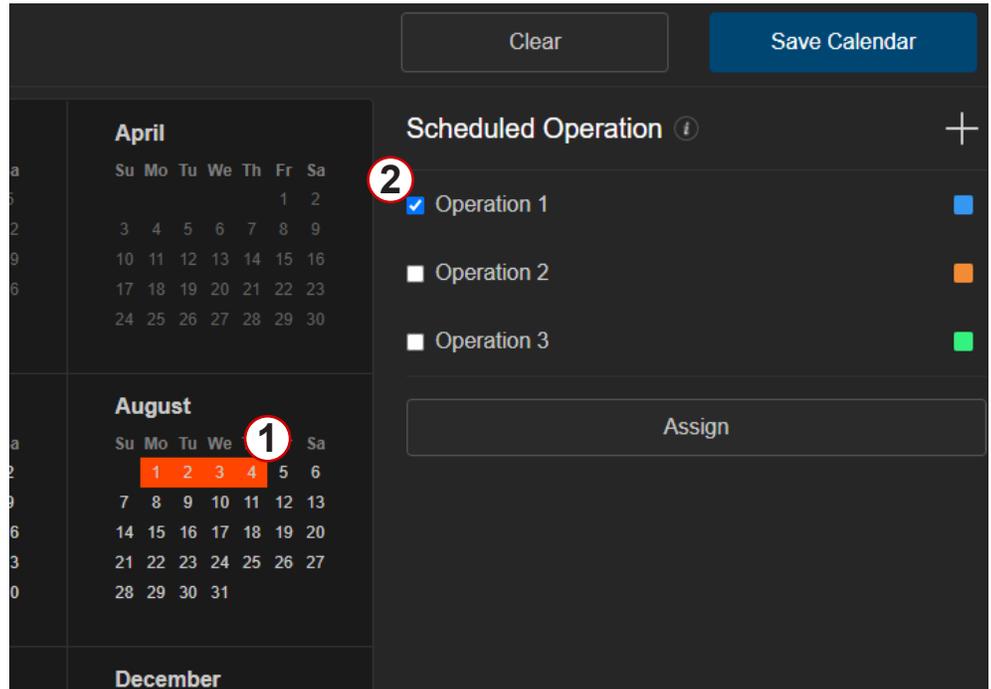
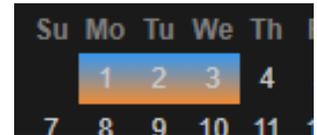


Fig. 26 - Add Scheduled Operation(s) to the Calendar

Once you have completed the steps above, click on the “Assign” button to schedule the operation to your calendar. You will then see the color assigned to the Scheduled Operation appear on the calendar for the dates scheduled.

If you have selected multiple Scheduled Operations, you will see a gradient of all assigned Operations on your calendar. **Note:** *This gradient does not show the operations in order of the hourly time they occur, but rather in the order the operations appear in the Scheduled Operations list.*



Once you have performed these steps, click the “Save Calendar” button. This will push the calendar changes to your device.

## 4.2.4 To Add Additional Scheduled Operations to a Day That Already Has a Scheduled Operation

Similar to assigning an initial operation to a day on the calendar, these steps can be done in either order:

- 1) On the calendar, highlight the day(s) on the calendar when you would like an operation to be scheduled. You can either click the days individually, or click and drag the mouse to select a consecutive series of dates.
- 2) Click the checkbox next to the names of ALL of the operations that you want to add to the schedule on this date.



**IMPORTANT:** If you only select the checkbox next to the new operation you want to add, previous operations assigned to this date will be overwritten. You must select the checkboxes next to all operations that you desire to appear on this date, even if that operation is already scheduled for that date.

Once you have completed the steps above, click on the “Assign” button to schedule the operations to your calendar, then click the “Save Calendar” button to push the changes to your device.

## 4.2.5 Removing Operations from the Calendar

### To remove all operations scheduled for a particular day

Double click on the date. The operation will be deleted, and that calendar date will not show any colors. Click the “Save Calendar” button.

### To remove a single operation from a date with multiple scheduled operations

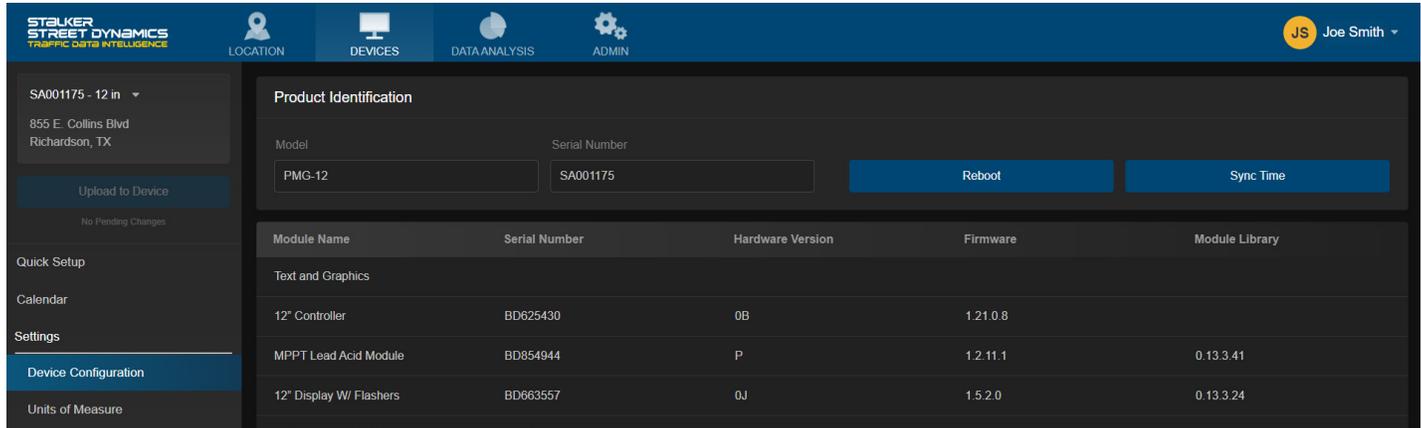
You cannot remove a single operation from a date that has multiple operations scheduled. Instead, click on the date(s) that you desire to modify, then click the checkboxes next to all the names of the operations that you want to KEEP on that date, then click the “Assign” button. Click the “Save Calendar” button, then click the “Upload to Device” button to commit the changes to your device.

## 4.2.6 Clearing the Calendar

The “Clear” button is used to clear **ALL** Scheduled Events from the Calendar. If you only want to remove specific Scheduled Operations from the Calendar, follow the steps listed in Devices – Calendar – Removing Operations from the Calendar.

## 4.3 SETTINGS – DEVICE CONFIGURATION

The Device Configuration Menu allows you to view information about components of your device, factory reset it, sync the time, fine-tune its location on the Location Map, and Sync any changes made directly to the device outside of the Street Dynamics Web Portal. (Fig. 27)



The screenshot shows the 'Device Configuration' page in the Street Dynamics Web Portal. The top navigation bar includes 'LOCATION', 'DEVICES', 'DATA ANALYSIS', and 'ADMIN'. The user is logged in as 'Joe Smith'. The main content area is titled 'Product Identification' and shows the following information:

Model: PMG-12  
Serial Number: SA001175

Buttons: Reboot, Sync Time

Module Name	Serial Number	Hardware Version	Firmware	Module Library
Text and Graphics				
12" Controller	BD625430	0B	1.21.0.8	
MPPT Lead Acid Module	BD854944	P	1.2.11.1	0.13.3.41
12" Display W/ Flashers	BD663557	0J	1.5.2.0	0.13.3.24

Fig. 27 - Device Configuration

You can find the Model name and Device Serial Number at the top of this screen. Serial numbers and versions of all other components will be listed in the table. To view device information for a different device, select it from the Device Selection dropdown menu in the top left corner of the screen.

**Reboot** – Just like restarting a computer, Reboot restarts your device. All previously configured message and calendar settings remain saved.

**Sync Time** – If the time displayed on your device is incorrect, click this button to re-sync it.

- To check the time associated with your device, you can enter the Quick Setup Menu and change the first dropdown menu in the Idle Display section to “Time” and see what time is displayed. When you are finished, click over to any other menu without saving and your sign will retain its original settings.
- Note:** *If you live in an area without Daylight Saving Time, you will need to toggle the Daylight Saving setting to “Off” in Admin – Settings – Daylight Saving (Daylight Saving is On by default).*

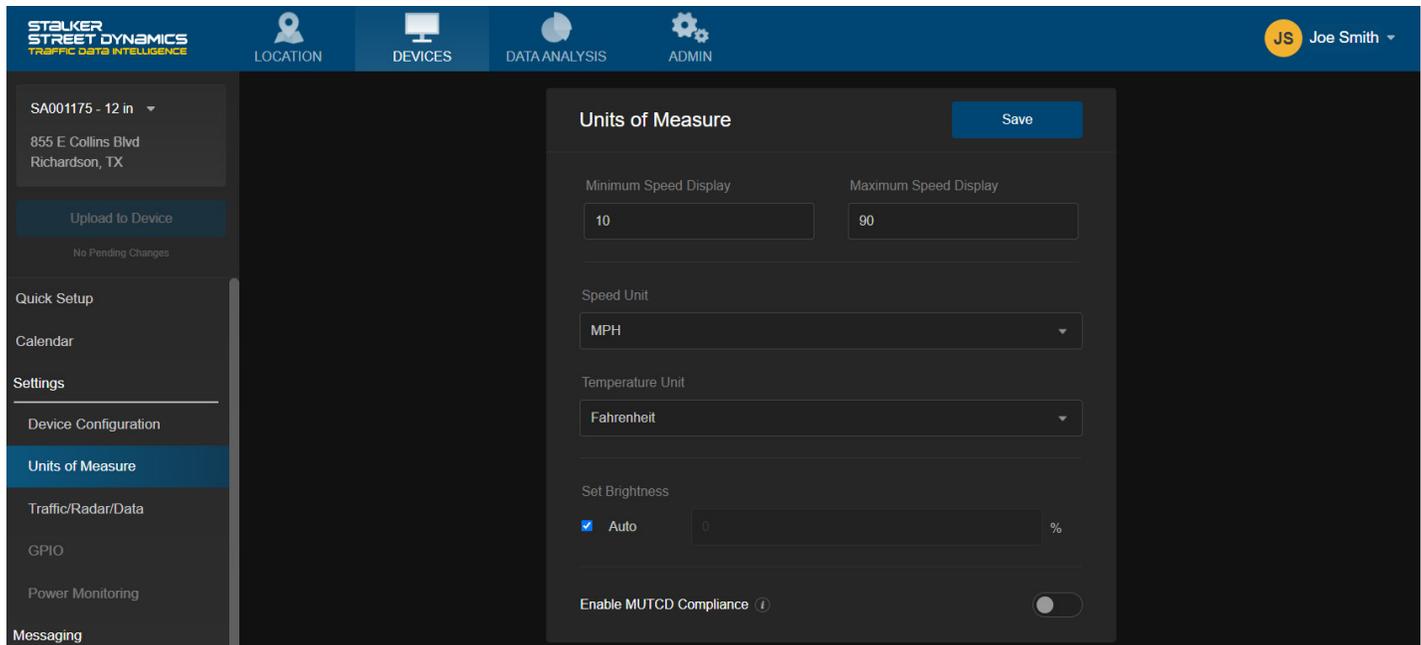


Fig. 28- Units of Measure

## 4.4 SETTINGS – UNITS OF MEASURE

The Units of Measure Menu allows you to configure various aspects of your device. (Fig. 28)

**Minimum Speed Display** – The display will be off until this minimum speed threshold is met.

**Maximum Speed Display** – The display will turn off once this maximum speed threshold is exceeded.

**Note:** *The Maximum Speed Display feature is good for discouraging people who want to “race” your sign so they can see high numbers on the display.*

**Speed Unit** – Set your device to display speeds in MPH, feet/sec, km/h, meters/sec, or knots.

**Temperature Unit** – Set your device to display temperatures in Fahrenheit or Celsius.

**Set Brightness** – Check the box to have your device automatically adjust its display brightness based on ambient lighting conditions, or uncheck the box to manually enter a brightness percentage in the % box.

**Note:** *It is recommended that you leave this set to Auto, as the LEDs are very bright at 100% which could affect night-time driver’s vision. This will also extend the battery life of your sign (if battery powered), and it will extend the life of the LEDs themselves.*

**Enable MUTCD Compliance** – Enables 2-second speed hold, which is one of the factors that makes a sign MUTCD-complaint.

## **4.5 SETTINGS – TRAFFIC / RADAR / DATA**

**IMPORTANT:** Do not adjust any settings on the Traffic/Radar/Data page. If you are having trouble with your device, please contact Stalker Radar support at 1-877-782-5537 (US and Canada) or +1-972-398-3780 extension 222 (outside of the US and Canada).

## **4.6 SETTINGS – GPIO**

*Reserved for future enhancement.*

## **4.7 SETTINGS – POWER MONITORING**

*Reserved for future enhancement.*

## 4.8 MESSAGING OVERVIEW

There are four types of messages that can be configured on your device:

1. **Text** – Messages consisting solely of letters, numbers, and/or punctuation.
2. **Graphics** – For stationary image-based messages.
3. **Animations** – A series of images played consecutively to create moving messages.
4. **Multi-Phase Message** – Allow you to create a series of text-based messages, graphics, and animations. This is used when you need more than one message, graphic, and/or animation to loop in a sequence.

Each category has two types of messages, Standard and Custom:

- **Standard Messages** come programmed into the Stalker Street Dynamics Web Portal for users who have purchased the Text and Graphics package.
- **Custom Messages** are created by the User.

### **IMPORTANT NOTE:**

*If you edit and save any message, either in the Messaging Menu or in the Quick Create Menu, it will modify that message everywhere else you have it used and/or scheduled on your device(s).*

*If you want to create a modified version of an existing message without changing the original, use the Save As option in the Messaging section to create a new version of the message that does not affect the original. (Fig. 29)*

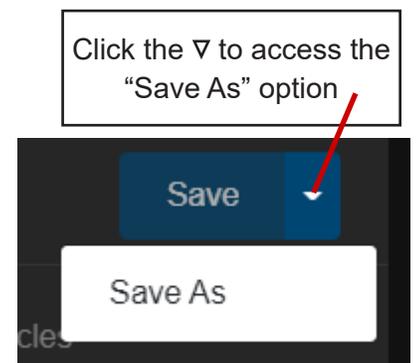


Fig. 29 - "Save As"

### **Note about MUTCD-compliant messages:**

*MUTCD compliant messages generally involve using all capital letters, limiting the complexity of the message, and utilizing standardized wording. For complete guidelines see the appropriate MUTCD reference documents (<https://mutcd.fhwa.dot.gov/>).*

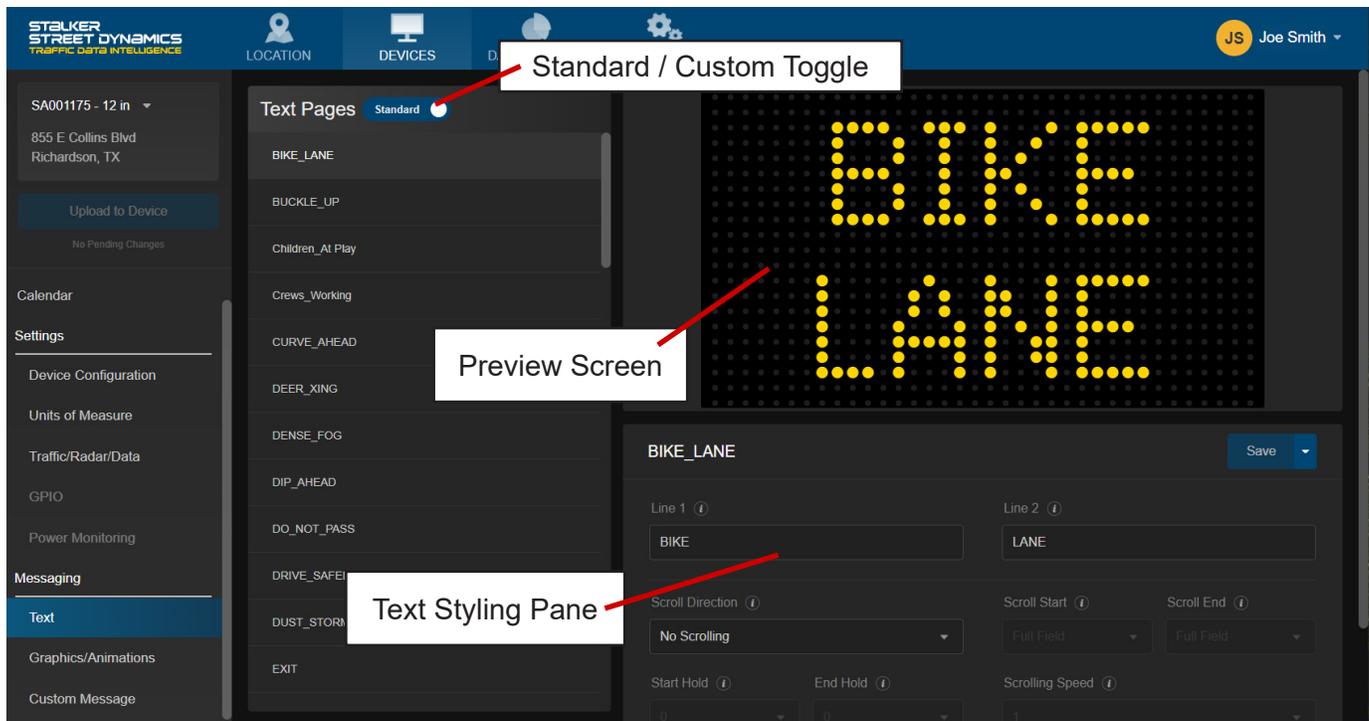


Fig. 30 - Messaging - Text

## 4.9 MESSAGING – TEXT

When you select the **Messaging – Text** Menu, you will see a screen offering you a variety of standard messages, a graphic previewing what your device’s display will show, and a collection of options you can use to style your text (Fig. 30). You can also access a collection of Standard Text Messages written in a brighter, bolder font from the Messaging - Graphics/Animations Menu.

**Text Pages** – This is the list of all the messages that are available for your device. The Standard Messages are displayed by default. Toggle the Standard toggle over to Custom to view your Custom Messages or to create a new Custom message.

**Note:** *If you want to edit a message without permanently altering the original, you can use the dropdown located next to the Save button, then click on “Save As.” You can then name your new message, and edit it from the Custom Message area.*

### 4.9.1 Text Styling Pane

On the lower right side of the Text Menu is the Text Styling Pane. You have the option to customize your message, make your text scroll, and change the text styling. All changes that you make in the Text Styling Pane will immediately show on the preview screen. (Fig. 31)

Fig. 31 - Text Styling Pane

**Line 1** – In a two-line message, this line appears on top. If you only enter text into the Line 1 box, it will show in the center of the device display.

**Line 2** – In a two-line message, this line appears on the bottom.

**Note:** *While there are no inherent character limits for Line 1 and Line 2, the display itself will only be able to show messages of a certain length. Be sure to check the sample display above the text styling pane to ensure that all portions of your message are visible.*

Messages can either be stationary or scrolling.

**Stationary messages** do not move, and the entire message displays on the device screen at one time. These messages can be either one or two lines long.

**Scrolling messages** scroll from either Right to Left (best for languages read from left to right like English or Spanish) or from Left to Right (best for languages read from right to left, like Arabic or Chinese). Scrolling messages can only be one line long, but this line can extend indefinitely and there is no character limit.

**Scroll Direction** – Turn Scrolling on for your message by selecting either Right to Left (<<<<<) or Left to Right (>>>>>) from the Scroll Direction dropdown menu.

**Scroll Start and Scroll End** – allows you to select if the message starts at the side of the screen and leaves no blank space between cycles of the message, or if the message scrolls on to a blank screen and leaves a blank screen after the message has been fully displayed.

**Full Field** – There is always text displayed on the screen. As soon as the last letter of the programmed message is displayed, the first word (Right to Left Scroll Direction) or last word (Left to Right Scroll Direction) of the message appears on the screen.

**Scroll In** – Puts space at the beginning and/or end of your message, allowing the text to flow off the edge of the screen before the message repeats.

**Note:** *Message tend to look better on the screen if you set the Scroll Start and Scroll End to the same Scroll Type (ie- both set to Full Field or both set to Scroll In).*

**Start Hold and End Hold** – Allows you to set the amount of time (in seconds) that the screen remains blank after the last letter of the message has scrolled off the screen.

**Scrolling Speed** – Determines how fast your message scrolls across the screen. 1 (default) is the fastest, and 16 is the slowest.



Scrolling messages are not MUTCD compliant.

**Font Style** – *Reserved for future enhancement.*

**Character Style** – There are 4 Character Style options:

**Standard** – Characters are composed of lines that are 1 pixel wide. Allows lower case and upper case characters.

**Bold** – Characters are composed of lines that are a mixture of 1-2 characters wide. Only allows upper case characters.

**Large** – 2 Digit – Fills the screen with up to 2 digits. Numbers only.

**Large Narrow** – 3 Digit – Fills the screen with up to 3 digits. Numbers only.

After you are finished styling your text, click either the “Save” or “Save As” button (access the “Save As” button via the ▾ dropdown on the Save Button). (Fig. 32)

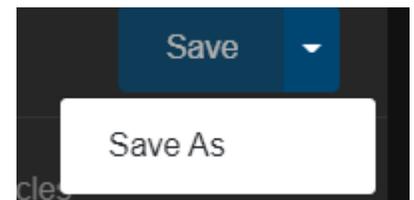


Fig. 32 - Save + Save As

## 4.10 MESSAGING – GRAPHICS/ANIMATIONS

This Menu allows you to create Graphics (still images) and Animations (moving images). Animations are composed from a series of Graphics that are arranged in sequence.

### 4.10.1 Graphics

#### 4.10.1.1 Create a New Custom Graphic

There are 3 ways to start the process of creating a new Custom Graphic:

- 1- Scroll to the “Blank\_Screen” graphic in the Standard Graphics list, design your graphic, then click the “Save As” option in the dropdown located next to the Save Button, name your file, then click “Save.”
- 2- Enter the desired name of your new graphic in the “Create New File” text box, then click the “Add” Button.
- 3- Click the ( X ) Clear Graphics button, design your graphic, and then click the “Save As” option in the dropdown located next to the Save Button, name your file, then click “Save.”

Creating a custom graphic is a fairly straightforward process. Clicking on any grey pixel on the sample display will turn it on (change it to yellow), and clicking any yellow pixel will turn it off (change it to gray). You can also click and drag to turn multiple pixels on/yellow (but clicking and dragging does not work to turn pixels off/gray).

Underneath the sample display are 10 buttons:



The Left button shifts the pixels one column left. If you start with pixels in the farthest column to the left, they will wrap around to the other side of the graphic and appear in the farthest column to the right.



The Right button shifts the pixels one column right. If you start with pixels in the farthest column to the right, they will wrap around to the other side of the graphic and appear in the farthest column to the left.



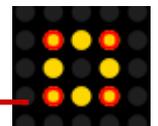
The Up button shifts the pixels one row up. If you start with pixels in the top row, they will wrap around to bottom side of the graphic.



The Down button shifts the pixels one row down. If you start with pixels in the bottom row, they will wrap around to top side of the graphic.



The shift Lock Edit Mode allows you to select pixels that stay in place if you click the left/right/up/down buttons. This allows you to keep one portion of your image steady while the rest of the pixels move. Locked pixels will be designated with a red circle around the pixel.



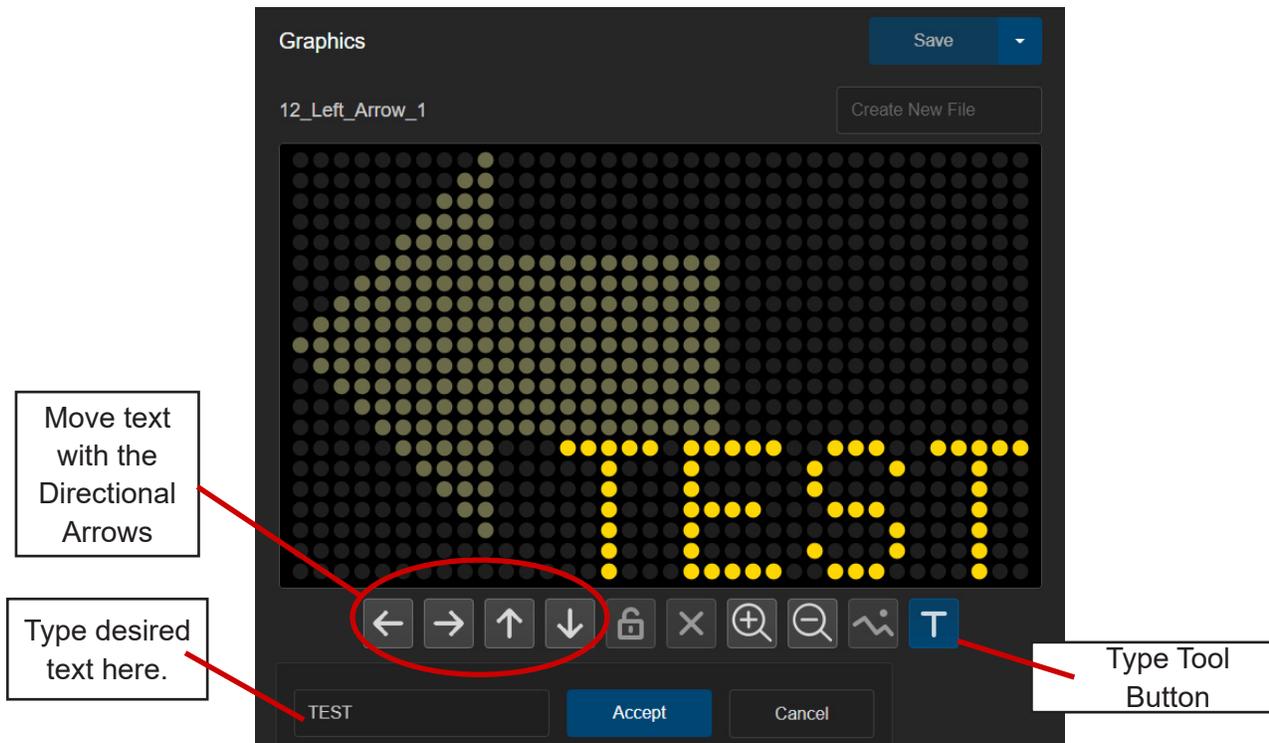


Fig. 33 - Overlay Text on Graphics



The X button clears the screen, resetting all pixels to the “off”/gray position. **Note:** *be careful- this action can not be undone!*



Zooms in on the sample display.



Zooms out on the sample display.



Allows you to import a graphic that you can use as a template (.bmp files only)



The Overlay Text on Graphics option brings up a text window that allows you to write a message using the Standard Text Style. While working in this window, you can use the directional arrows to move your text around the display. Once you click the blue “Accept” button, you will no longer be able to move the text around as an individual layer- it will be combined with the rest of the graphic. (Fig. 33)

Once you are finished, save the Blank\_Screen graphic under a new name by either:

- 1- Click the “Save As” button (click the ▾ next to the “Save” button) and assign your new graphic a name in the popup that will appear,
- or 2- Type a name into the “Create New File” field, then click Add.

### 4.10.1.2 Editing Standard Graphics

Standard Graphics cannot be modified, and they can also not be deleted. If you wish to edit a Standard Graphic, use the “Save As” feature to save it under a different name. There are two methods you can use to do this:

1- Select the Standard Graphic that you want to edit from the list in the Graphic Pages section, assign your new graphic a name in the “Create New File” field, then click the “Add” button. You will then edit the graphic with your desired changes, then click the blue “Save” button. (Fig 34)

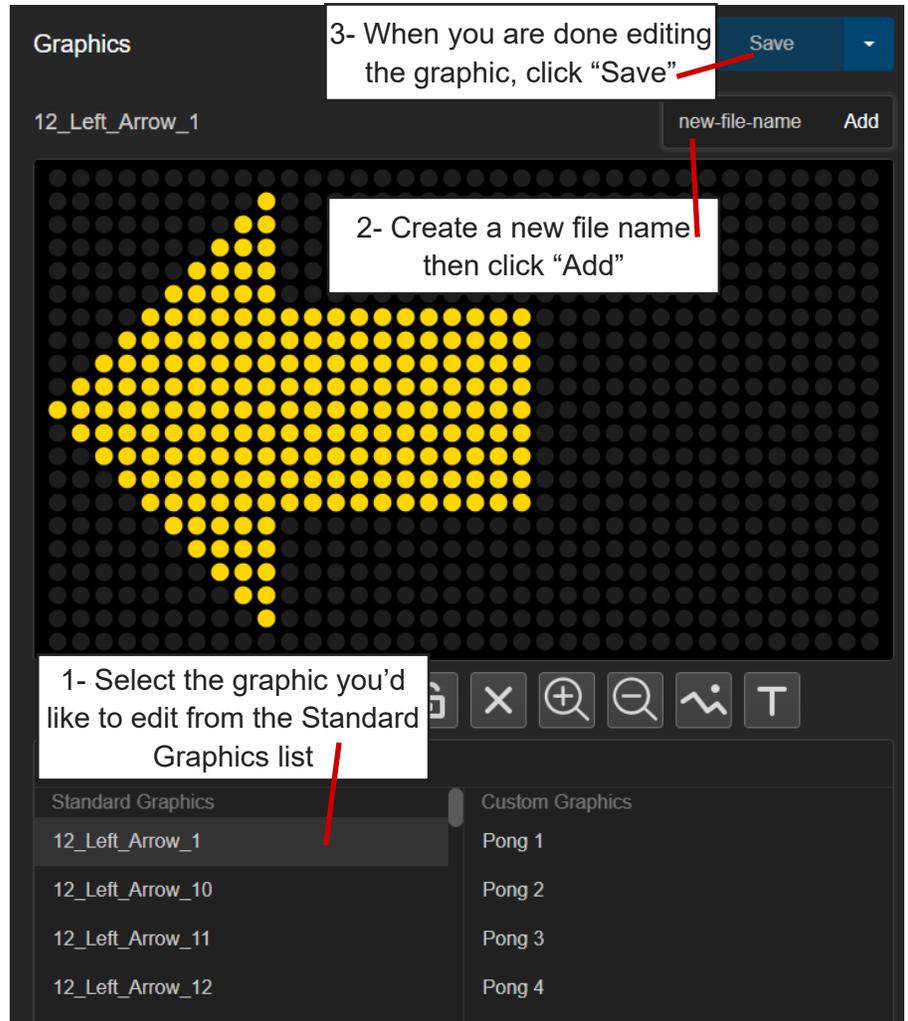


Fig. 34 - Editing Standard Graphics, Method 1

2- You can edit a Standard Graphic on the screen, then click the “Save As” button to save your modified version under a different name. (Fig 35a - 35b)

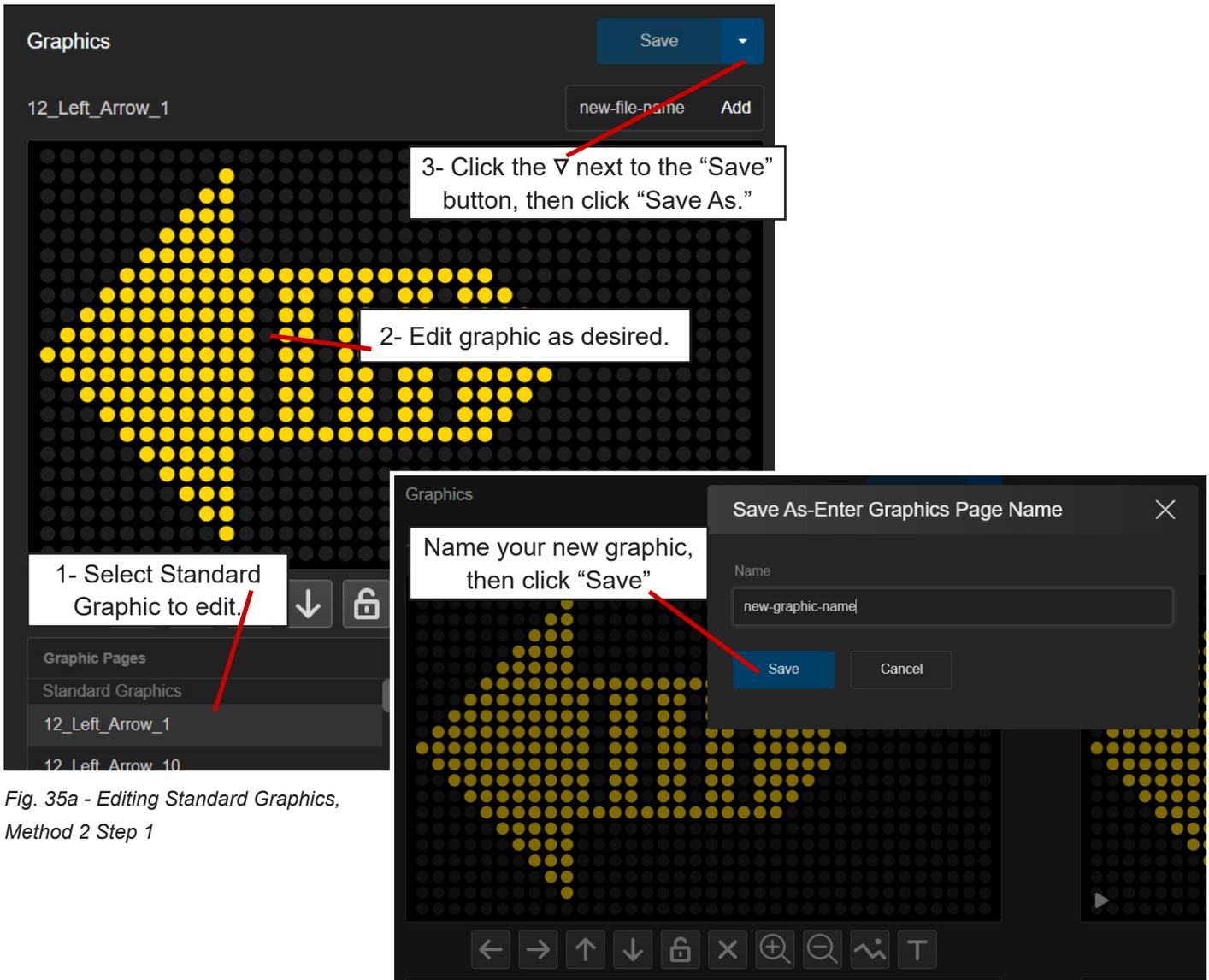


Fig. 35a - Editing Standard Graphics, Method 2 Step 1

Fig. 35b - Editing Standard Graphics, Method 2 Step 2

### 4.10.1.3 Editing Custom Graphics

Click on the graphic from the Custom Graphics list that you want to edit. Perform any desired edits, then either click the “Save” button to overwrite the original version of the graphic, or click “Save As” if you want to retain the original version and save the edited version as a new graphic. (Fig 36a - 36b)

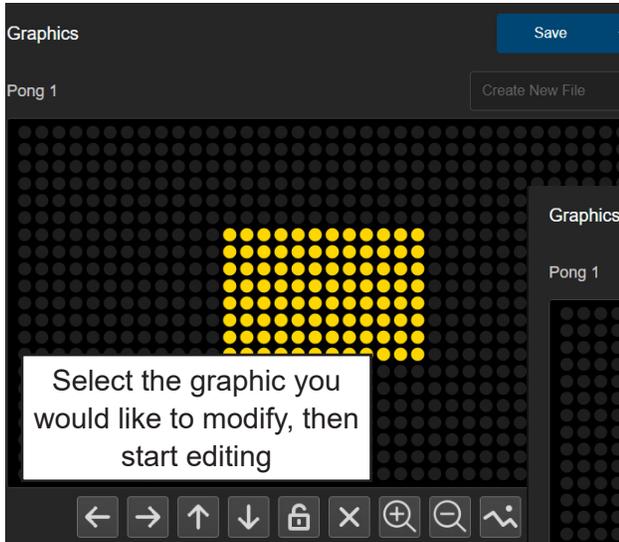


Fig. 36a - Editing Custom Graphics, Step 1

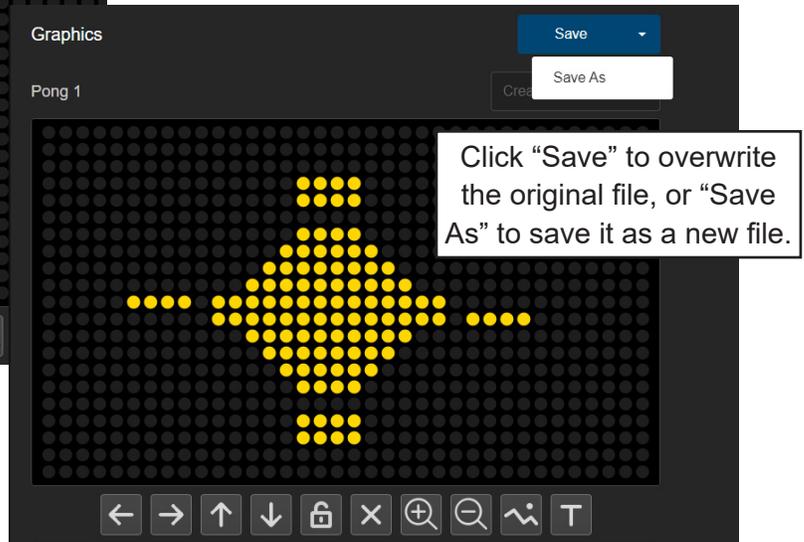


Fig. 36b - Editing Custom Graphics, Step 2



**Note:** *If you edit a custom graphic that is used with a Quick Setup program and/or Scheduled Operations on your calendar, it will update all versions of the custom graphic to the newly saved version. If you do not want to modify existing applications of the design, be sure to “Save As” rather than “Save” the edited version of your Custom Graphic.*

### 4.10.1.4 Designing Graphics for Animations

It is easy to create a series of graphics designed for moving Animations.

To create images that appear to move: Simply create and save your starting image, then use the Left / Right / Up / Down arrows to move it over one row and/or column at a time. You can also use the cursor to manually add or subtract pixels. (Fig. 37a - 37b)

**Tip:** It will be easiest to create an animation if you name your images sequentially (ie- Image-1, Image-2, Image-3 etc.).

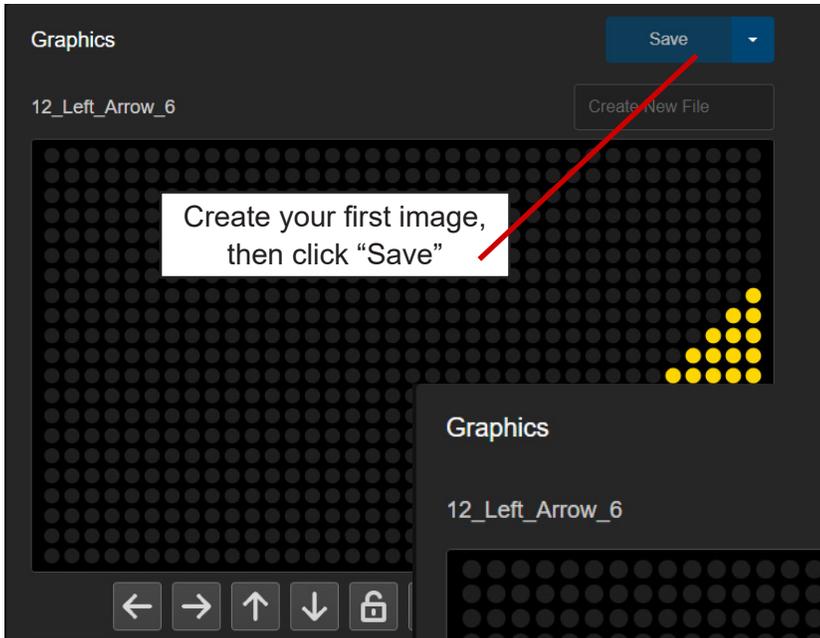


Fig. 37a - Designing Graphics for Animations, Step 1

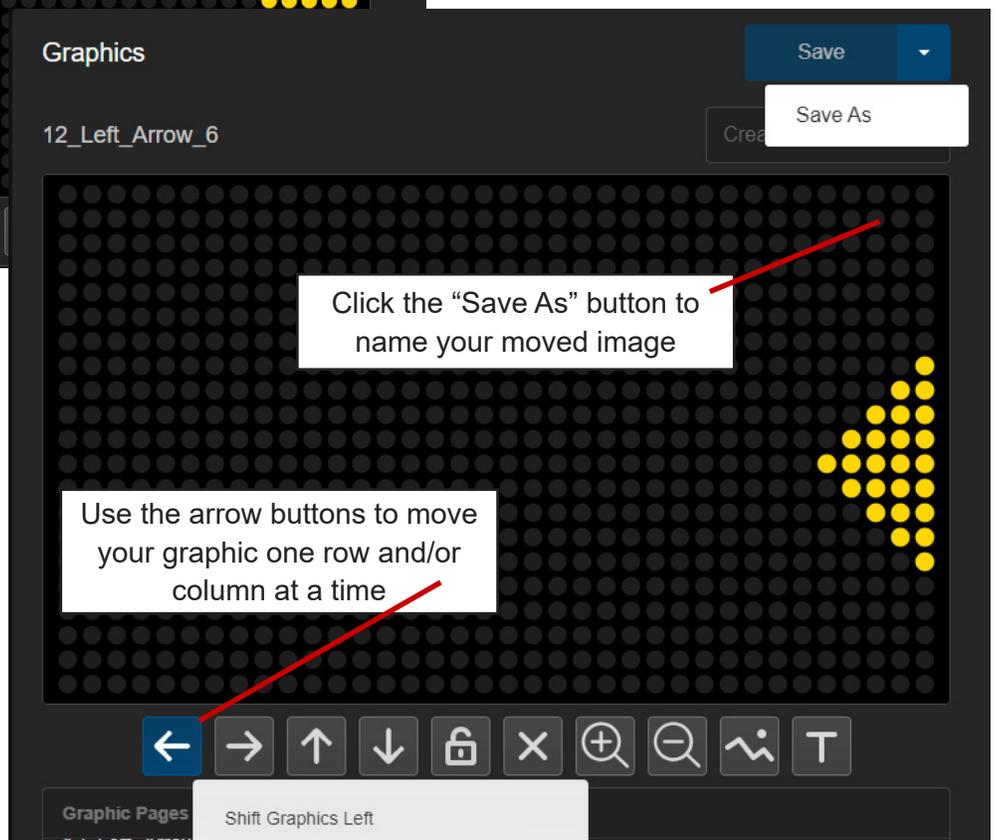


Fig. 37b - Designing Graphics for Animations, Step 2

### 4.10.1.5 Delete a Graphic

If you want to delete a Custom Graphic, hover over the name of the graphic in the Custom Graphics list, then click the ( X ) button. You will then see a popup that asks you to confirm whether or not you want to delete the graphic. Click Confirm to delete. (Fig. 38)

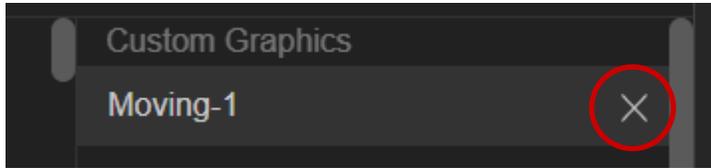


Fig. 38 - Delete a Graphic

### 4.10.2 Animations

Just like the Text and Graphics options in the Street Dynamics Web Portal, Animations gives you the option to use Standard Animations or Custom Animations. Use the dropdown menu underneath the “Animations” label to select from your saved standard and custom animations, or type in a name into the “Create New File” field and click the “Add” button to create a new Animation. (Fig. 39)

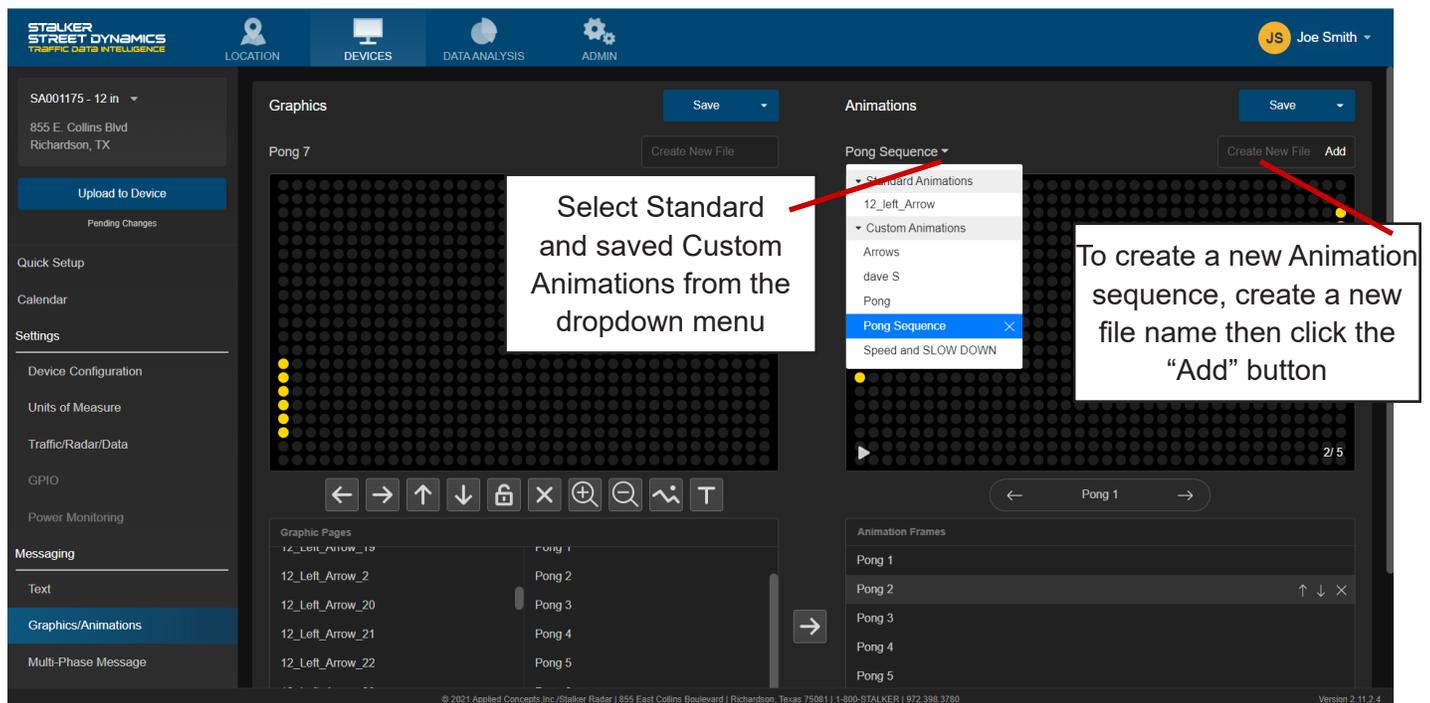


Fig. 39 - Animations

### 4.10.2.1 Creating a Custom Animation

Creating a custom animation is as easy as moving images from the Graphics side of the screen to the Animations side of the screen.

Start by naming your new Custom Animation sequence by typing a name into the “Create New File” box, then click the “Add” button.

Next, click on the name of the graphic from the Standard or Custom Graphic Pages list, then click the “Right Arrow” button to move the graphic over to the Animation Frames list. Continue adding graphics until your animation sequence is complete.

When you add a graphic to the Animation Frames list, it will automatically be added at the bottom of the list. To move graphics higher or lower on the list (which will cause them to appear earlier or later in the animation sequence), simply click on or hover over the name of the image that you want to move. Up and Down arrows will appear, allowing you to move the image to your desired location in the sequence. To delete an animation from the Animation Frames list, simply click on the X by its name.

To save your sequence, click the “Save” or “Save As” button at the top of the Animations pane. (Fig. 40)

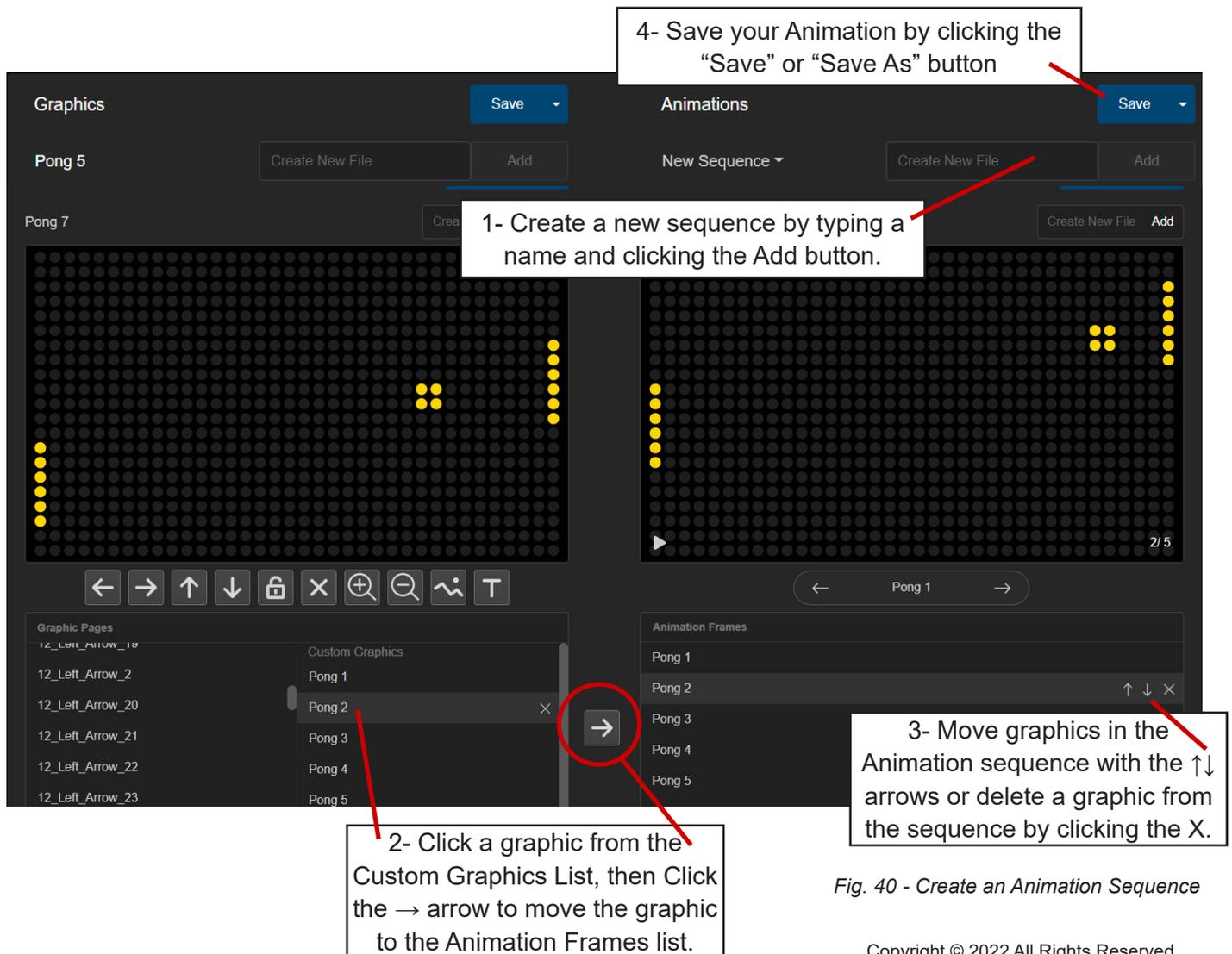


Fig. 40 - Create an Animation Sequence

### 4.10.2.2 Controlling the Speed of Your Animation

The Page Display Interval field at the bottom of the Animation section allows you to control how quickly the images cycle.

By default, custom messages start with a Page Display Interval of 0 (zero), which is very fast. To slow down or speed up your Animation Sequence, hover to the right of the 1 / 20 Second on the right side of the Interval field. This will show up and down arrows. Click on the arrows to increase or decrease the speed. (Fig. 41)

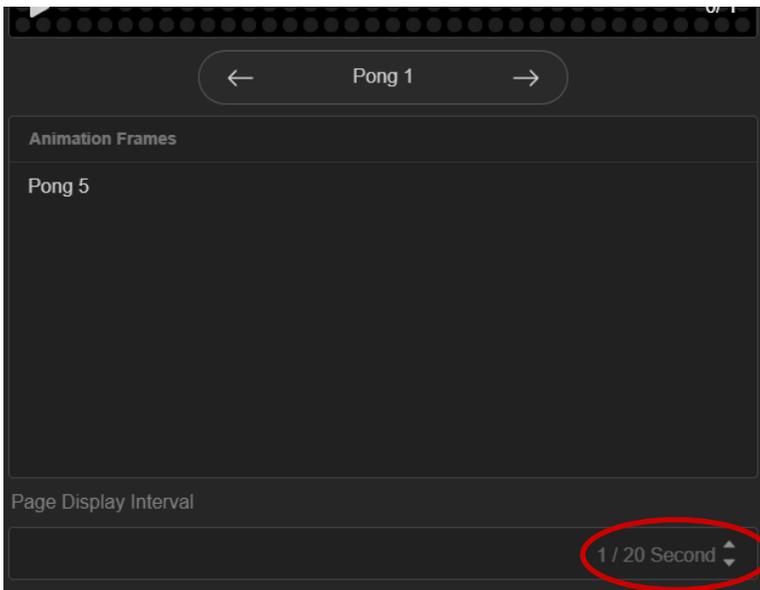
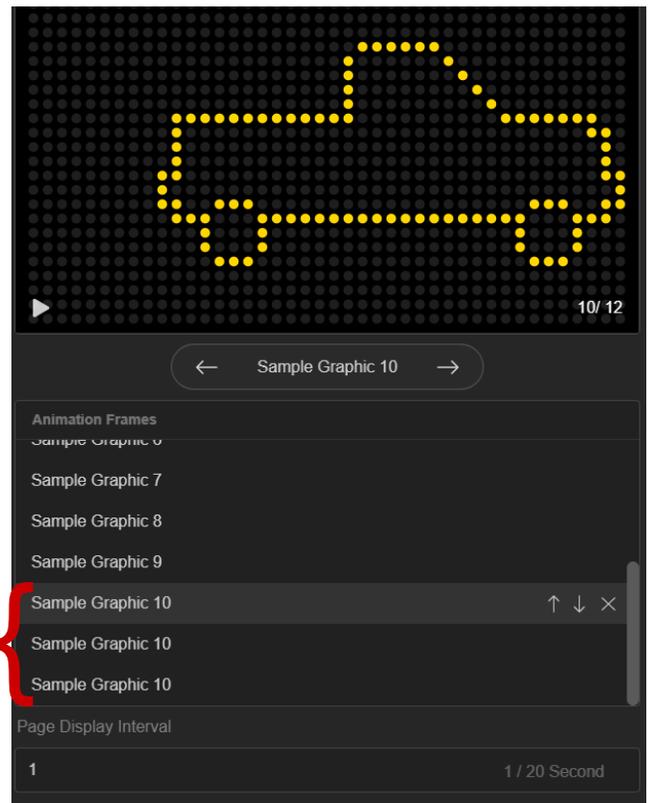


Fig. 41 - Animation Speed



**Tip:** All animation frames display for the same length of time in the sequence. If you want an individual animation to stay on the screen longer, simply add that image more than one time to the Animation Frames list. The more times you add it, the longer the image will appear to stay on the screen when the sequence is played.

## 4.11 Multi-Phase Messages

The Multi-Phase Message Menu allows you to assemble sequences of Text messages, Graphics, and Animations that loop either indefinitely or for a set number of cycles.

### 4.11.1 Creating Multi-Phase Messages

**Note:** *The Multi-Phase Messages are designed to create a collection of standard and your previously saved Text messages, Graphics, and Animations. Before you begin creating a Multi-Phase Message, create and save all of the components individually first.*

To create a new Multi-Phase Message, move the toggle to “Custom,” then click on the ( + ) sign. You will be prompted to name your Multi-Phase Message. (Fig. 42)

Next, start adding segments to your message by clicking on the “Add Segment” button. This will trigger a popup to appear. (Fig. 43)

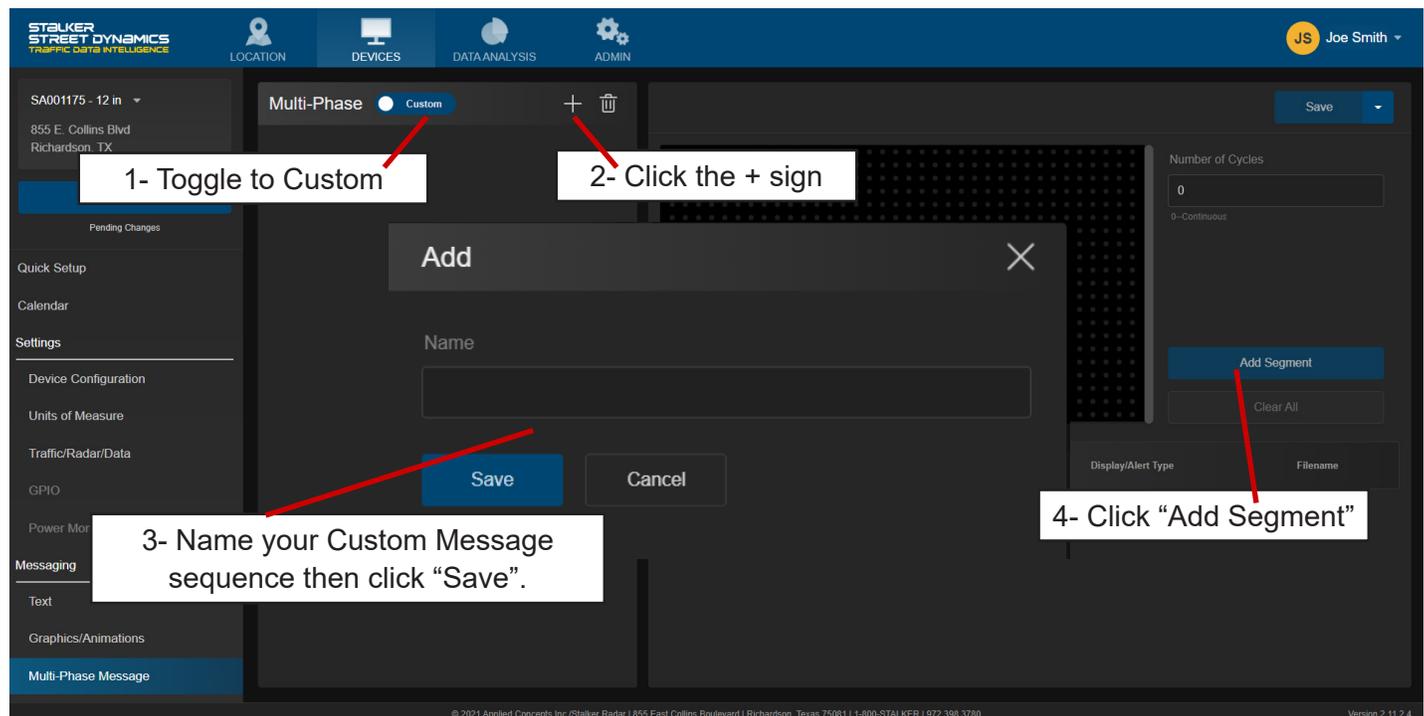
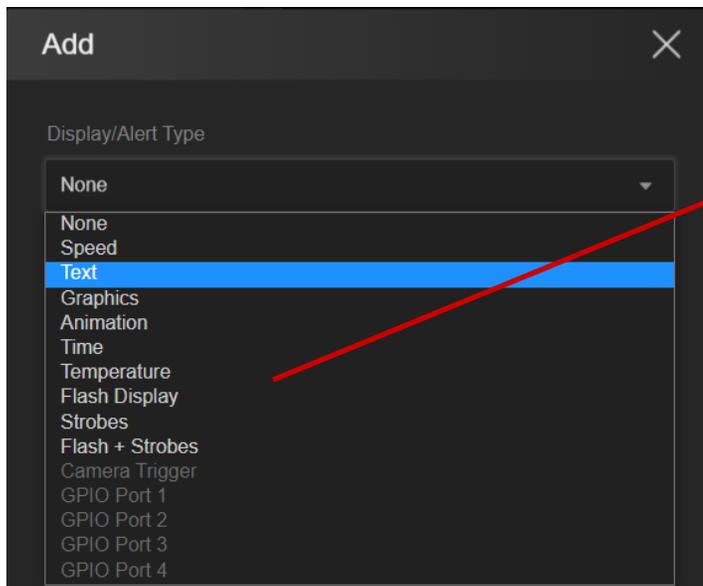
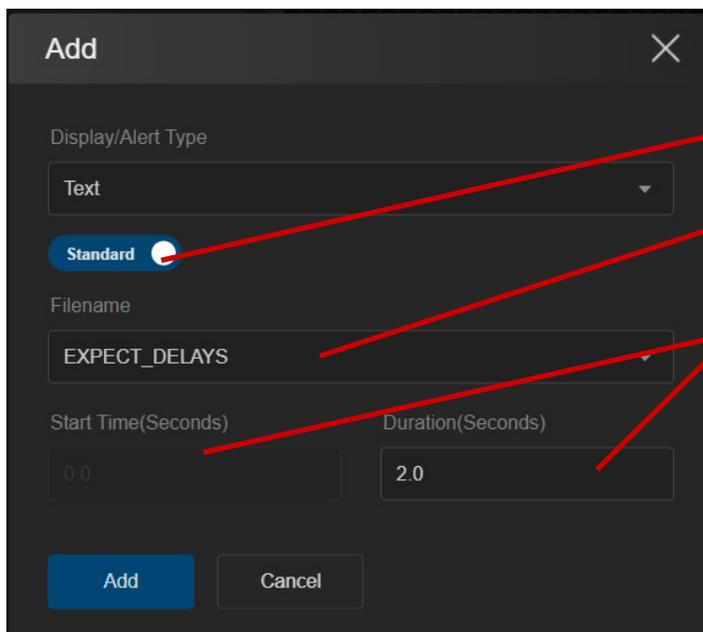


Fig. 42 - Create an Custom Message Sequence



Use the Display/Alert dropdown to navigate to the category of the first message in your sequence.

Fig. 43 - Display / Alert Type



Next, a toggle will appear, asking if you want to select one of your Standard or Custom messages.

Once you have chosen between Standard and Custom, find the name of the file that you want to add from the Filename dropdown and click on it.

Finally, select the Start Time (only for Flash Display and Camera Trigger) and the Duration(Seconds) for the Segment. Click the "Add" button to add the Segment to your sequence. (Fig. 44)

Fig. 44 - Configure Display / Alert Settings

Once you have assembled your Sequence, determine how many cycles of the sequence that you would like to show when the Message is triggered on your display (See the **4.1.2 Quick Setup** and **4.2 Calendar** sections of this manual for information about how to trigger messages to appear on your device). If you set the Number of Cycles to 0 (zero), your device will display the sequence continuously until the device is triggered to do something else. Otherwise, type in how many times you'd like the sequence to repeat before the sign returns to its Idle state.

Once you have added your desired Text messages, Graphics, and Animations, click on the blue "Save" button in the top right corner of the screen. Saving will also trigger a preview of your Multi-Phase Message to appear on the preview display. (Fig. 45)

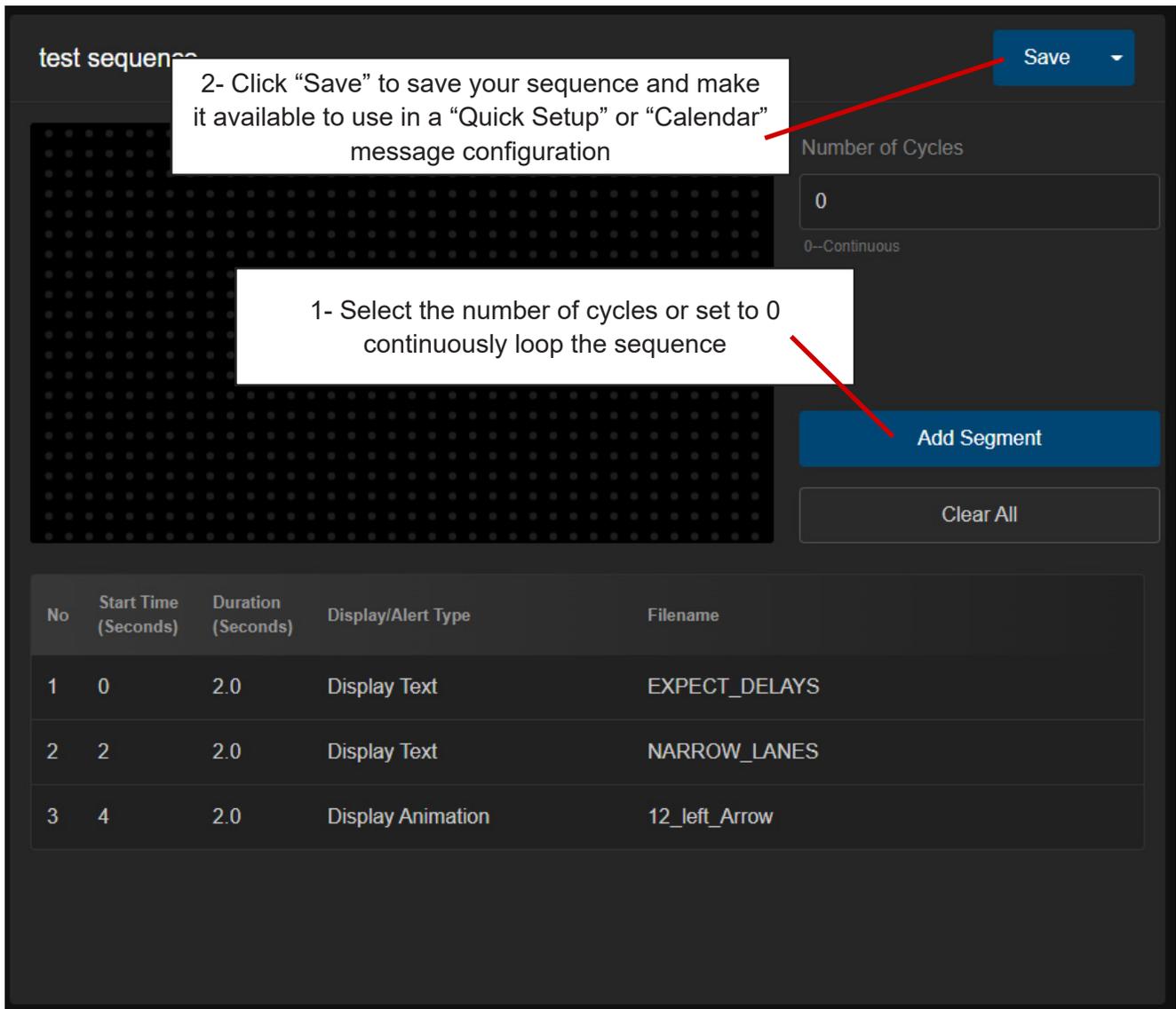


Fig. 45 - Finalize your Multi-Phase Sequence

## 4.11.2 Editing Multi-Phase Messages

To edit a Segment in your Multi-Page Message, hover over it in the Segment List. You will see Up / Down arrows, an Edit button (Pen icon), and a Delete button ( X ).

To move a Segment to appear earlier or later in your Sequence, click the up / down arrows.

To edit the duration of a Segment or to replace a segment with a different Text/Graphic/Animation, click on the Edit button (Pen icon). The same popup that you originally used to configure the Segment will reappear. Click the “Add” button to save your changes to the Segment.

To delete an individual Segment from your Sequence, click on the Delete ( X ) button. To delete the entire sequence, click the “Clear All” button.

**Note:** Clicking “Clear All” does not delete your Multi-Phase Message- it simply deletes the Sequence of Segments you have configured for the Message. To delete a Multi-Phase message, click on the name of the message in the column under the words “Multi-Phase Pages,” then click the Trash button located next to the Add ( + ) button. (Fig. 46)

No	Start Time (Seconds)	Duration (Seconds)	Display/Alert Type	Filename	
1	0	2.0	Display Text	EXPECT_DELAYS	
2	2	2.0	Display Text	NARROW_LANES	↑ ↓ ✎ ✕
3	4	2.0	Display Animation	12_left_Arrow	

Fig. 46 - Arranging Multi-Phase Message Sequences

Click the blue “Save” button in the top right corner to save your changes, or click the “Save As” option from the dropdown menu located next to the “Save” button if you want to retain the original version of the Sequence and save this work as a new version.

## 5.0 DATA ANALYSIS MENU

The Data Analysis Menu gives users the ability to create reports based on the data collected by their device(s).

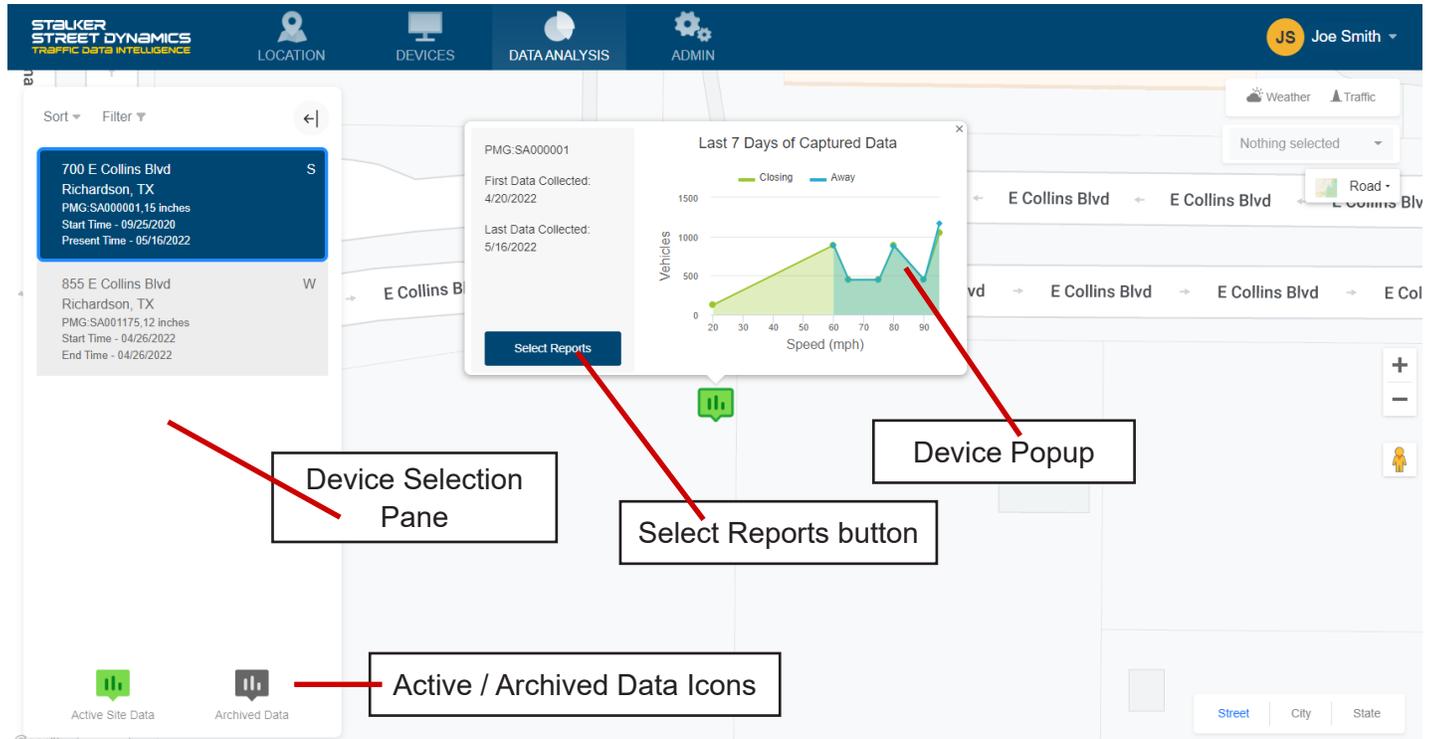


Fig. 47 - Data Analysis Menu

### 5.1 SELECT A DEVICE

When you click on the Data Analysis button, you will see a map view that resembles the view seen in the Location Menu (Fig. 47). On the right side of the screen, you will see a map view. Devices that have data available for analysis will be designated with one of two icons:



Active Site Data

The **Active Site Data** icon indicates a device that is currently collecting data.



Archived Data

The **Archived Data** icon indicates devices that are offline, but that have data that is archived in the system.

You will also see devices listed in a Device Selection Pane on the left side of the screen. The Device Selection Pane shows information about the device address, which direction the front of the device is facing, the device serial number, the Start Time and End Time of when data has been collected, and, for some devices, the device size.

Clicking on a device in either the map view or from the Device Selection Pane will trigger a Device Popup to appear on the screen. This popup highlights the last 7 days of captured data, and also lists the device type, serial number, setup date, and date that the most recent data was collected.

You also will see a “Select Reports” button. Click this button to go to the Reports menu. (Fig. 46)

## 5.2 REPORTS MENU

The Reports Menu allows you to customize reports that utilize the data collected by your device. You will see the following options when you open this window: (Fig. 48)

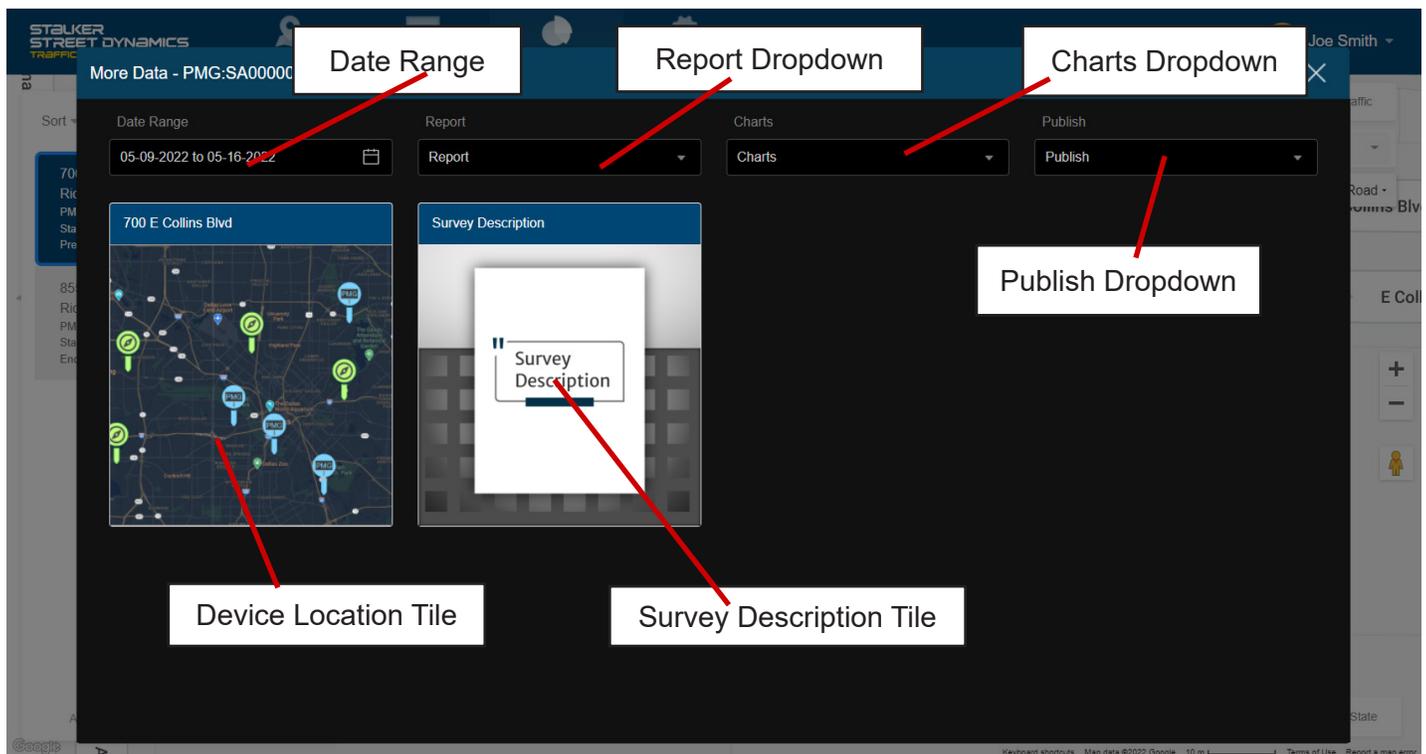


Fig. 48 - Reports Menu

- **Device Location** – Clicking on this tile will show a map view of your device’s location, along with information about the device type, address, start and stop date/time, and the vehicle count observed by the device.

- **Survey Description** – This menu tile allows you to describe your survey, add survey notes, and specify the traffic zone posted speed limit and excessive speed level. It also shows data about the date range of your report, device GPS location, serial number, and if the data includes closing traffic data, away traffic data, or both (you can configure closing/away/both in the settings area of each report, accessed by clicking the report tile. See details in the Report Dropdown section below).
- **Date Range** – Select from preconfigured date ranges, such as “Yesterday” or “Last 30 Days,” or select your desired date range from the calendar. Click “Apply” to save.
- **Report Dropdown** – Allows you to select which report type you would like to include in your final report. Note: *You can only select one report type per published report. If you would like more than one report type, please create two separate reports.*

## Report Types

Reports are collections of charts that work best together to convey desired information. There are several report types available:

- **Speed Compliance** – A pie chart that shows what percentage of vehicles were traveling at, moderately above, and excessively above the speed limit.
- **Speed Profile** – Includes a line graph that displays the number of vehicles broken down by their speed and survey results that analyze collected speed data in a variety of ways.
- **Traffic Density** – Includes a matrix that shows the distribution of vehicles sorted by both speed and time. It also includes a bar graph that displays the vehicle count for every 15 minutes, broken down by day.
- **Traffic Matrix** – Includes the same traffic matrix report as the Traffic Density report, but also includes survey results that analyze speed data in a variety of ways (the same as the survey results included in the Speed Profile report).
- **Speed Profile 2** – Includes a bar graph that displays the average speed and 85th percentile speed by day and a line graph that displays the traffic count vs. speed (the same as the line graph in the Speed Profile report).
- **Traffic Volume** – An area graph (i.e.- a “filled in” line graph) that displays the traffic count vs. speed (a variation of the graph from both of the Speed Profile reports) and a bar graph that displays the vehicle count for every 15 minutes, broken down by day (the same as the bar graph from the Traffic Density report).

- **Speed Enforcement** – This report shows the expected revenue per hour if you were to enforce the posted speed limits in the area where your device is located, and also includes an Enforcement Schedule that shows when the best time to enforce speeds in the area based upon when the highest rates of speeding occurred in the area.

## Chart Types

In addition to (or instead of) the charts included in Reports, you can select Charts to include in your report from the Charts dropdown.

- **Average Speed vs Time-Point** – A bar graph that displays the average speed and 85th percentile speed by day (the same as the graph from the Speed Profile 2 report).
- **Count vs Delta Speed** – This chart shows the effect the speed sign has on vehicle speed, showing how much vehicles have slowed down.
- **Count vs Speed – Multi Charts** – This chart has several options on how you can choose to display the data:
  - » **2D Spline** – Spline charts plot a fitted curve through each data point in a series.
  - » **2D Area** – An area graph (“filled in” line chart).
  - » **2D Scatter** – A scatter plot.
  - » **2D Line** – A traditional line graph broken down by date.
  - » **2D Column** – a column chart broken down by date.
- **Count vs Time – Multi Charts** – In addition to the 2D chart options offered in the Count vs Speed Multi Charts, Count vs Time Multi Charts also offer several 3D display options that display data in a 3D “layered” view rather than a 2D “stacked” view:
  - » **3D Spline** – A 3d line chart where data is represented as a fitted curve that passes through data points.
  - » **3D Area** – A 3D area graph (“filled in” line chart).
  - » **3D Line** – Shows individual line charts layered onto a single 3D graph.
  - » **3D Column** – Shows layered column charts.
- **Enforcement Schedule** – a simple time-based list of, statistically, the best times to enforce speed, broken down by closing traffic, away traffic, and day of the week.
- **Pie** – a traditional pie chart displaying percentages as part of a whole. This report is always based on speed compliance, regardless of the type of report selected.

- **Revenue** – Displays the amount of potential revenue per hour that could be generated by enforcing posted traffic speeds at this location. To configure this report with your precinct's ticket rates, click on the Revenue Tile, then click the Revenue Setup button in the top right corner.
- **Speed vs Volume Matrix** – A matrix of the total number of vehicles passing the device broken down by time of day and speed.
- **Survey Summary** – This report provides various analyses of the data from the selected date range, including vehicle counts/averages, percentage of vehicles following posted speed limits, average vehicle speeds, 85th percentile speeds, and more. The Survey Summary is included by default with most Reports.
- **Synchronous Chart – Comb/Closing/Away** – Shows 3 line charts in sequence, displaying closing traffic, away traffic, and a combined chart.
- **Add Image** – Allows the user to upload an attach an image to a report. Allowed file types: .png, .jpeg/.jpg.

You can modify the contents of any report or chart by clicking on the report / chart tile (Fig. 49). Several chart options allow you to view the individual chart in full screen mode, print it, or save it as a .png, .jpeg, .pdf, or .svg image (Fig. 50).

The screenshot displays the 'More Data - PMG:SA000001' interface. At the top, there are four main sections: 'Date Range' (05-09-2022 to 05-16-2022), 'Report' (Speed Profile), 'Charts' (Charts), and 'Publish' (Publish). Below these are four report tiles for the location '700 E Collins Blvd':

- 700 E Collins Blvd**: A map view showing the location on a street grid.
- Survey Description**: A tile with a placeholder for a survey description.
- Count Vs Speed - 2DLine**: A line chart showing traffic counts versus speed. The chart has three data series: Closing Traffic (red), Away Traffic (blue), and Combined Traffic (green). A red arrow points to this tile, and a white box below it says 'Click on a Report / Chart Tile to view details'.
- Survey Summary**: A tile with a placeholder for a survey summary.

Fig. 49 - Modify Reports

From within the tile view of some reports and charts, you can choose to view the chart for closing-only data, away-only data, or combined data. Click on the data set in the chart legend to see a chart with only that data set.

**IMPORTANT:** When you publish a report, it will only show combined data in the charts. If you want a chart that has only closing, only away, or closing + away data broken apart individually, you must print/save these charts individually from the tile view of that report/chart.

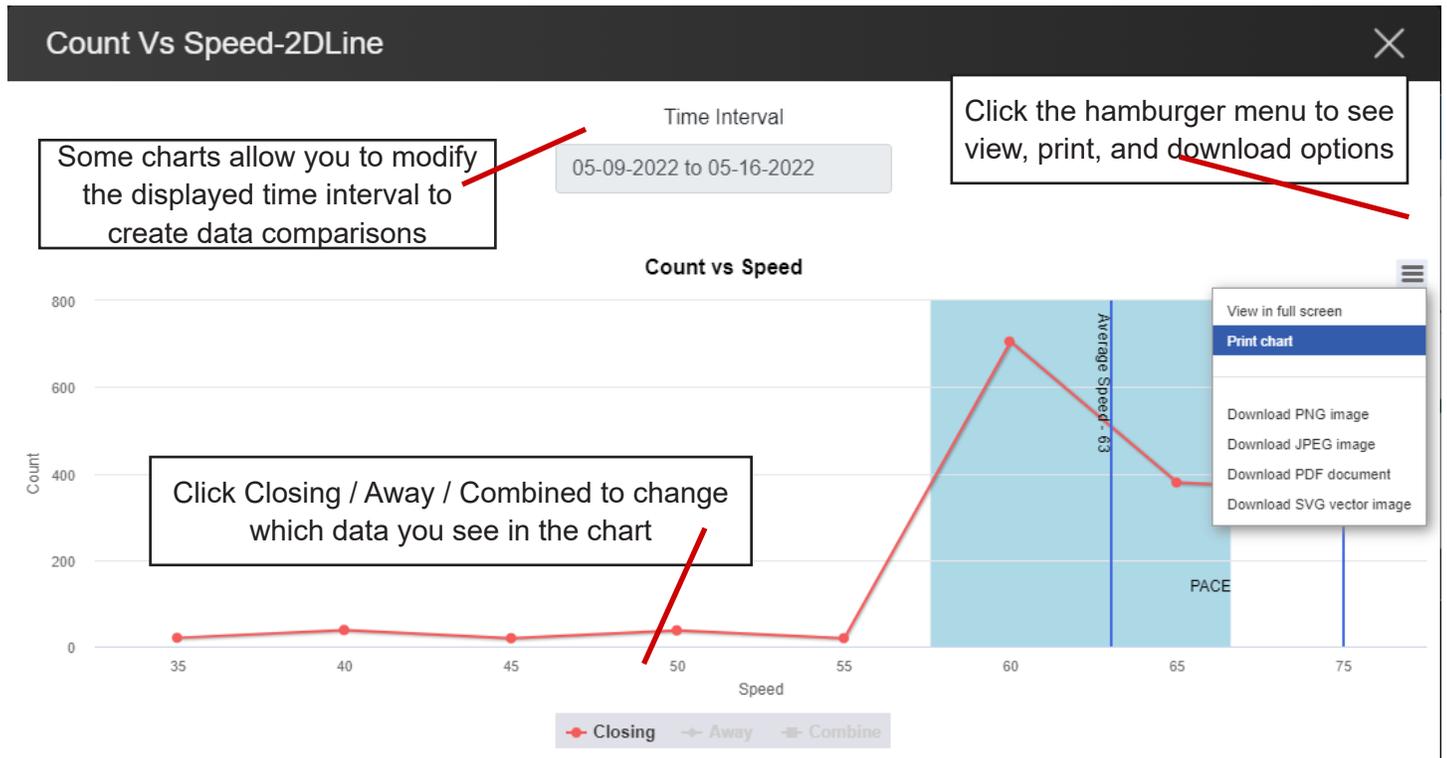


Fig. 50 - Report / Chart Details

**Note:** You can only add one Report per data collection, and you can only add one of each chart type to your data collection. There is an exception to this rule, however: if your report contains a chart, you can add that chart type one additional time to your data collection by selecting it from the chart dropdown. This allows you to create helpful comparisons by modifying the added chart to display a different data type or date range.

## **Publish**

Allows you to choose how you want to publish your report for viewing and sharing. Published reports will include a cover page that features the User’s name and logo and will feature a secondary logo on the top corner of all pages (if a User has uploaded a logo in **Admin – Settings – Report Cover Logo** and **Report Header Logo**), a table of contents, the Survey Description, and the collection of reports and charts selected by the User. Select an option from the Publish dropdown last, as it will finalize your report and download or email it.

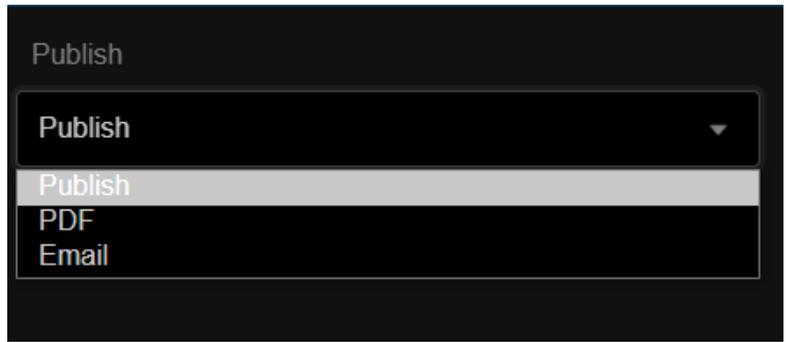


Fig. 51 - Publish Options

(Fig. 51)



**IMPORTANT:** Depending on the date range, report type, and number of charts selected, it can take 3 or more minutes to compile the data for a report before it starts to download. The “Please wait while exporting” message indicates that the Street Dynamics Web Portal is working – **please be patient!**

### **Available report formats:**

- **PDF**
- **Email** – emails a .PDF of the report to one or more email addresses input into the Email popup that appears when a user selects the “Email” Publish option. If inputting multiple email addresses, separate them with commas (,) or semicolons (;). (Fig. 52)

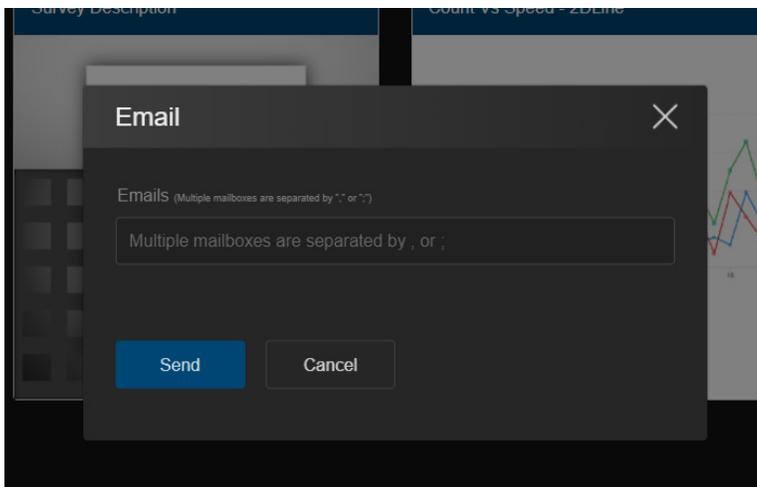


Fig. 52- Email Popup

## 6.0 ADMIN

The Admin Menu allows you to add and edit users, add devices and change their online/offline status, and adjust general app settings.

### 6.1 USERS

The Users Menu allows you to add new users, adjust their permissions, reset their passwords, and assign them to device zip codes. You can also see when each user last logged in. (Fig. 53)

#### 6.1.1 User List

The first screen you will see when accessing the Users Menu is a list of all users associated with your Street Dynamics Web Portal Account. You can search for users using the search bar at the top of the user list.

You can sort the columns by pressing the ↑↓ arrows by the column title.

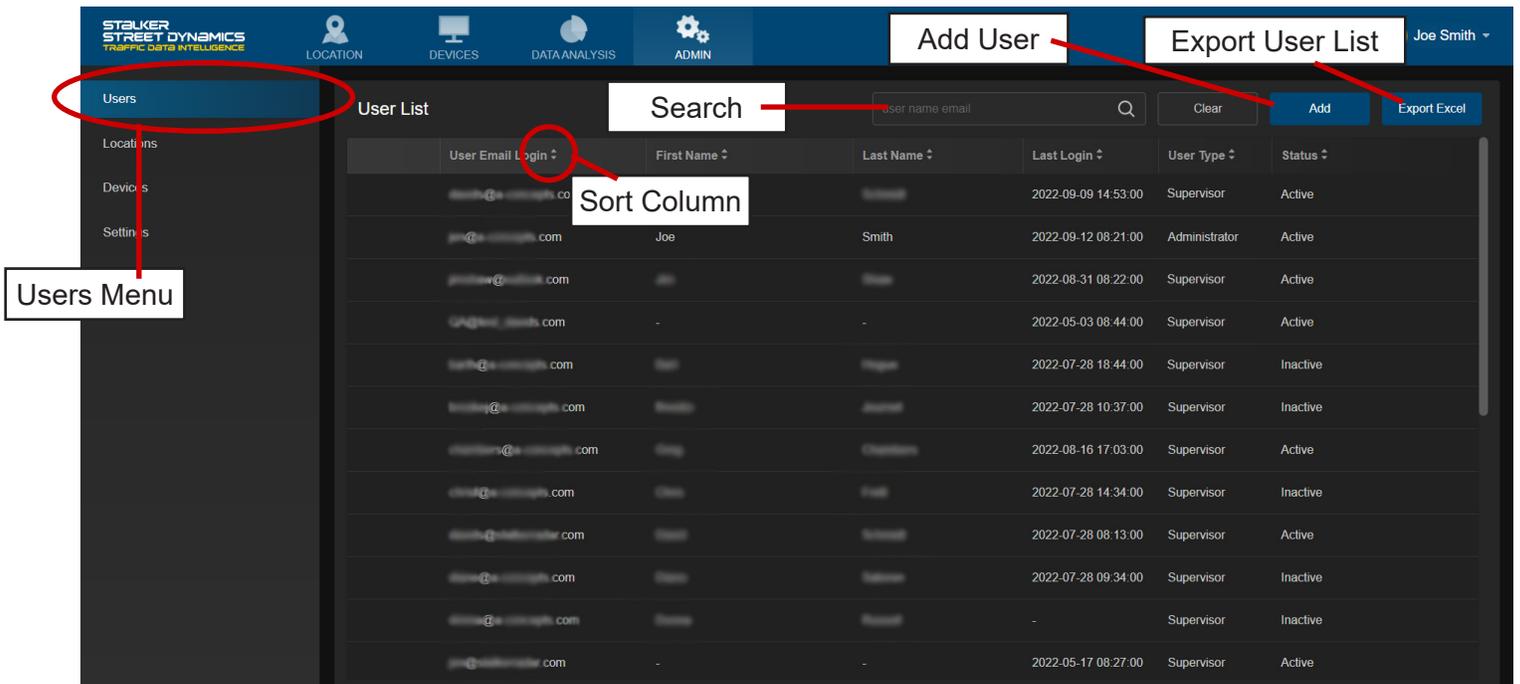


Fig. 53 - Users Menu

- **User Email** – Accounts are tied to a user email address. An email address can only be associated with a single user.
- **User Name** – Assigned when the user is added, the User Name is what a user will use to log in to their Street Dynamics Web Portal account.



**IMPORTANT:** *Once a user account is set up, you cannot edit the User Email.*

- **Last Login** – Show the last time a user logged into their Street Dynamics Web Portal account.
- **User Type** – Shows what permission level each user has.
- **Status** – Shows whether a user is active or inactive.

At the top of the User List screen there are also a few additional buttons:

- **Clear** – This button will clear any filters that you have applied using the Search box.
- **Add** – Click this button to add a new user account (see **6.1.2 Users – Adding a New User** for more information about this process).
- **Export Excel** – Exports a list of all users in .xls format.

## 6.1.2 Adding a New User

To add a new user, click on the blue “Add” button at the top of the User List. (Fig. 54)

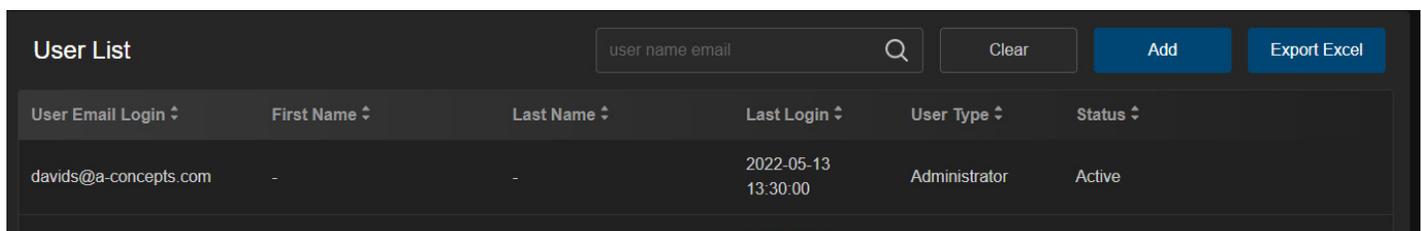


Fig. 54 - Adding a New User

Clicking the “Add” button will bring up the Add User Popup. (Fig. 55)

The screenshot shows a dark-themed 'Add' form with a close button (X) in the top right. The form contains the following fields and controls:

- Active:** A green toggle switch is currently turned on.
- Avatar:** A circular placeholder with an 'i' icon and an 'Upload' button.
- First Name:** An empty text input field.
- Last Name:** An empty text input field.
- User Email Login:** An empty text input field.
- User Password:** A text input field with a closed eye icon on the right.
- User Type:** A dropdown menu with 'Supervisor' selected.
- Address:** An empty text input field.
- City:** An empty text input field.
- State:** An empty text input field.
- Zip Code:** A text input field containing the number '0'.
- Session Length (Hours, 0 = No Session Expiration):** A text input field containing the number '24'.
- Last Login:** A label with the value '5/16/2022 10:48:00 AM'.
- Buttons:** A blue 'Save' button and a grey 'Cancel' button at the bottom.

- **Active** – Choose whether the user is active or inactive. To make a user inactive, toggle this to grey/off.
- **Avatar** – You can add an image to a user’s profile by clicking the “Upload” button and attaching an image with a maximum size of 256px x 256px. If you do not upload an avatar, you will see a circle with the first and last initials of the User’s name displayed by the account information located at the top right corner of the Street Dynamics Web Portal screen.
- **User First Name and Last Name** - Enter the user’s first and last name
- **User Email** – Enter the user’s email address. This is where account information and password reset instructions will be sent, so be sure the user has access to this account. **Note:** *You cannot edit a User Email once the account has been set up. The User Email functions as the “User Email Login” used to log in to the user’s account.*
- **User Password** – You can assign a generic password to a new user, and they can reset their password to something more secure after logging into their account for the first time. For security reasons, when you type into this field, it will display as hidden information. To read the password, click on the closed eye icon on the right side of this field. To hide a displayed password, click on the open eye icon.

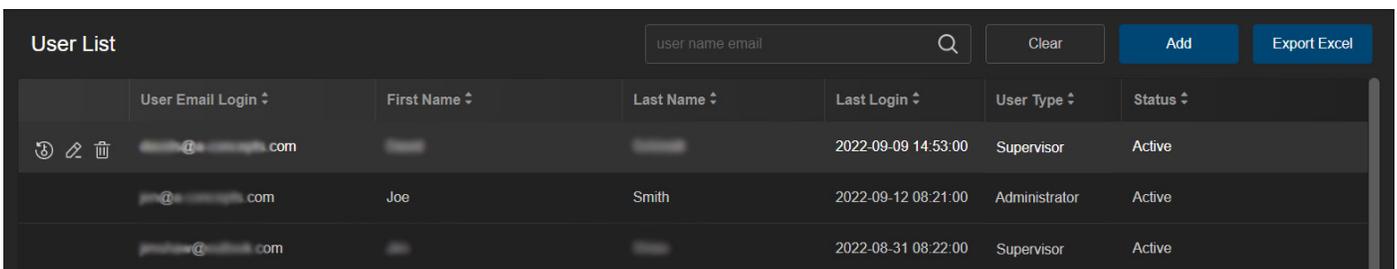
Fig. 55 - Add New User Details

- **User Type** – There are 3 possible levels of account permissions:
  - 1- Administrator** – Administrators have full permission rights to the content of the web portal. They can create, modify, and delete any access level of accounts and any devices. In the Device Menu, the administrator has the privilege to configure the device’s radar settings, device speed profile, MUTCD settings, and unit of measure. They are also able to access the Admin Menu.
  - 2- Supervisor** – The supervisor has similar permission rights as the administrator, except that they can only create, modify, and delete User accounts.
  - 3- User** – The majority of individuals that have access to the devices in your Street Dynamics Web Portal account will have User-level permissions. Users can modify messages and calendar settings on a device, view data, and create, download, and email reports.
- **Address, City, State, Zip Code** – Enter an address for the user. This can be your business address.
- **Session Length** – For security reasons, after the number of hours displayed in this field, the user will be automatically logged out of their account.
- **Last Login** – Once a new User starts using their account, their last login time and date will be displayed here.

Once you have completed this form, click on the blue “Save” button located at the bottom of the screen.

### 6.1.3 Editing an Existing User Account

To edit an existing User Account, hover over the account in the User List. Click on the Pencil icon to edit the account. (Fig 56)



	User Email Login	First Name	Last Name	Last Login	User Type	Status
	...@...com	...	...	2022-09-09 14:53:00	Supervisor	Active
	...@...com	Joe	Smith	2022-09-12 08:21:00	Administrator	Active
	...@...com	...	...	2022-08-31 08:22:00	Supervisor	Active

Fig. 56 - Editing User Accounts

This will bring up an Edit screen that looks exactly like the “Add User” popup. The only fields that cannot be edited are the User Email and the User Name.

You can also view the user’s last login by scrolling to the bottom of the Edit screen.

### 6.1.4 Resetting a User Password

Users can reset their own passwords by logging into their account, clicking the ▾ dropdown by their name in the top right corner of the screen, and clicking the “Change Password” option. They would then type in their old password and choose a new password. (Fig. 57)

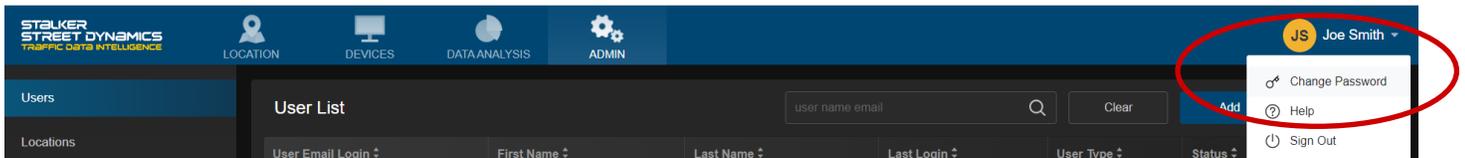


Fig. 57 - Reset Your Own Password

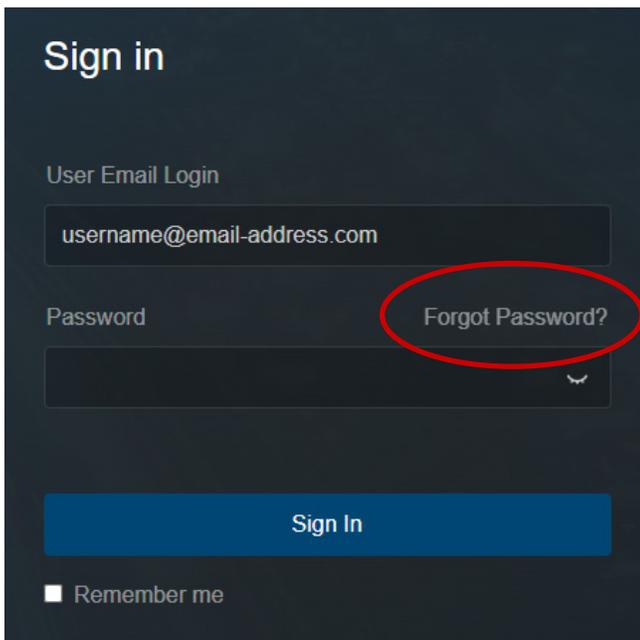


Fig. 58 - Forgot Password

If a user has forgotten their password, they can enter their User Email Login, click the “Forgot Password?” link from the login screen, then follow the prompts to receive a new password. (Fig. 58)

Admins can also trigger a password reset. Hover over the user name from the list on the **Admin – Users – User List**, then click the “Password Reset” button (key in a circle with an arrow). (Fig. 59) This will send a password reset email to the address associated with the user’s account. They will receive an email with a link and instructions on resetting the password.

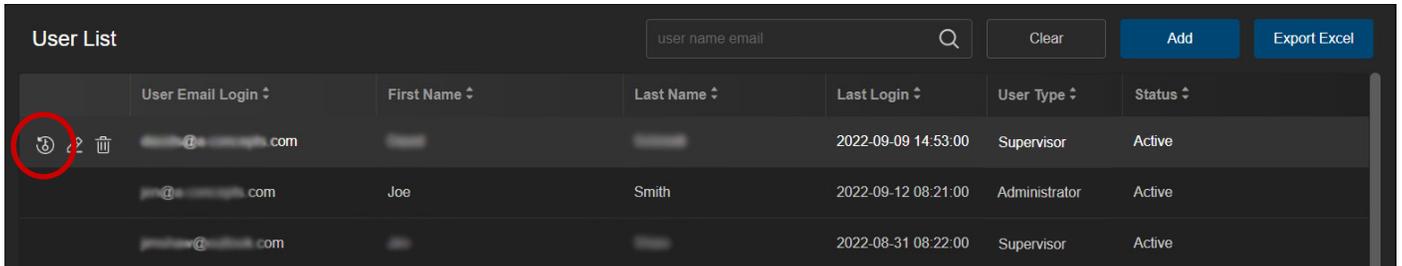


Fig. 59 - Reset a User’s Password

### 6.1.5 Make a User Inactive

If you would like to deactivate a user without deleting their account, hover over the user name from the list on the **Admin – Users – User List**, then click on the “Edit” button (Pencil icon). At the top of the “Edit” screen, you will see an “Active” toggle. Turn the active toggle to gray/off to change their account status to inactive. (Fig. 60)

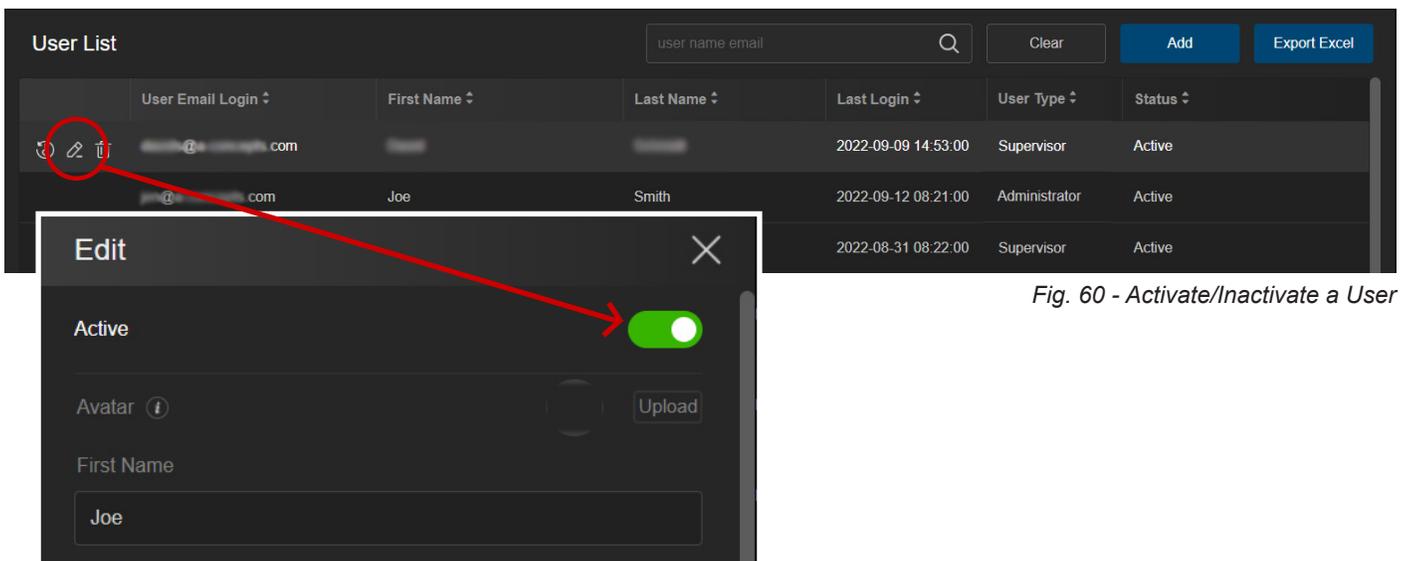


Fig. 60 - Activate/Inactivate a User

### 6.1.6 Reactivate an Inactive User

If you would like to reactivate an inactive user, hover over the user name from the list on the **Admin – Users – User List**, then click on the “Edit” button (Pencil icon). At the top of the “Edit” screen, you will see an “Active” toggle. Turn the active toggle to green/on to change their account status to active. (Fig. 60)

### 6.1.7 Deleting a User

To delete a user, hover over the user name from the list on the **Admin – Users – User List**, then click on the “Delete” button (Trash Can icon). (Fig. 61)

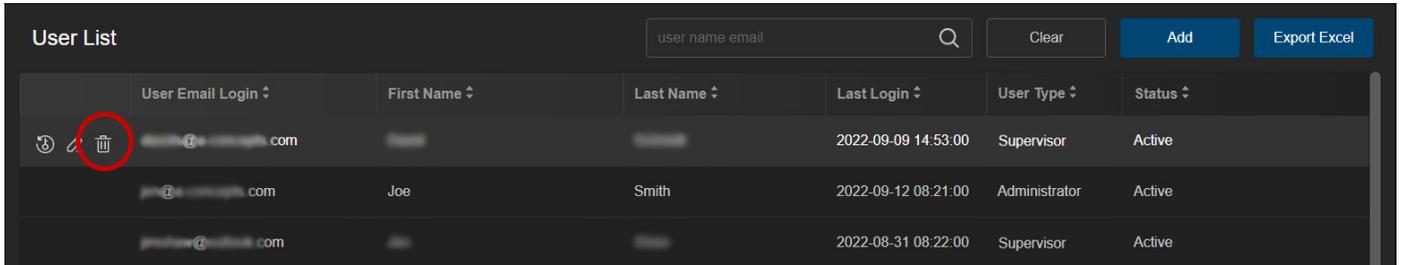


Fig. 61 - Delete a User

## 6.2 DEVICES

The Devices Menu lists all devices associated with this Street Dynamics Web Portal account. You can view device serial numbers, names, sizes, types, online/offline status, address, users assigned to the device, and the last time the device connected to the Street Dynamics Web Portal. (Fig. 62)

You can search for an individual device by using the Search function at the top of the screen. To clear search results and return to an “all devices” view, click the clear button located next to the search bar.

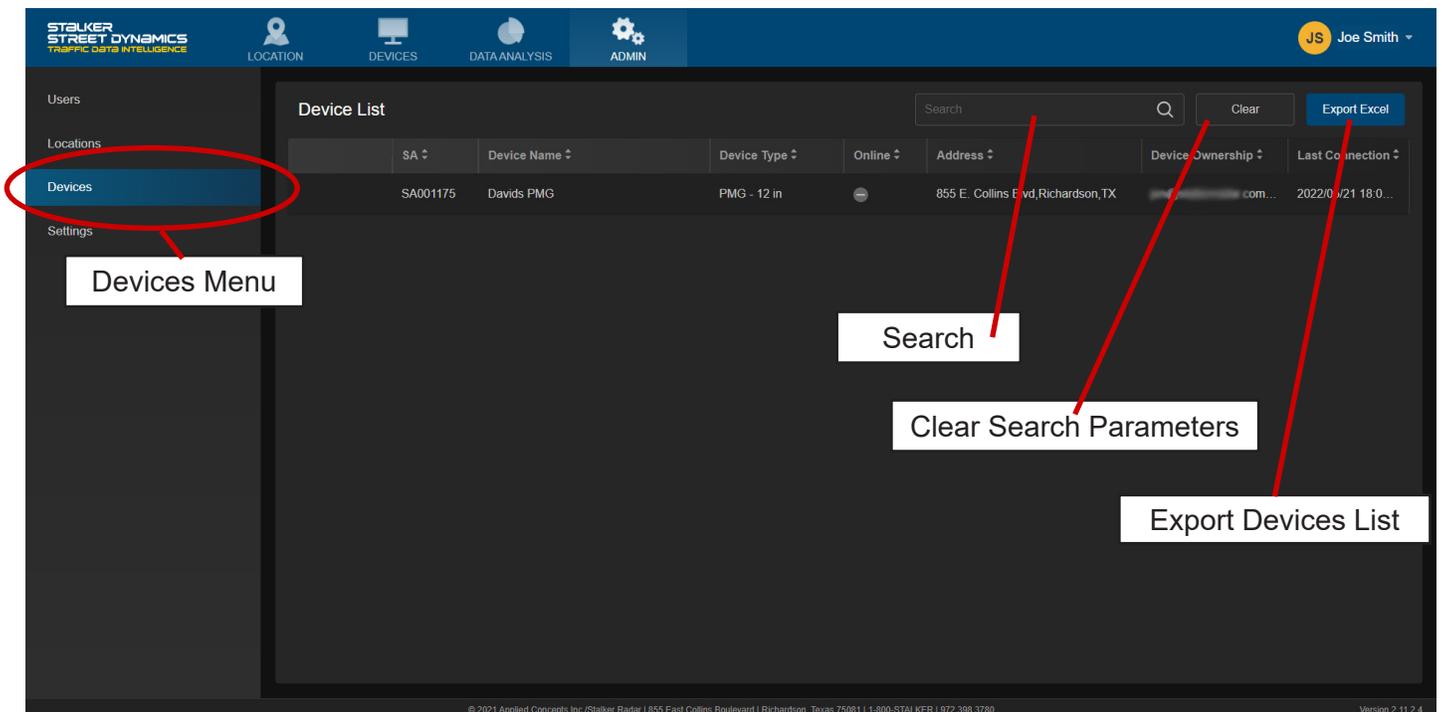


Fig. 62 - Devices Menu

### 6.2.1 View Device Information

Hovering over a device's information will highlight the row. Click on a row to display detailed information about all the components included in the device. (Fig. 63)

The screenshot shows a 'Device List' table with columns: SA, Device Name, Device Type, Online, Address, Device Ownership, and Last Connection. The selected device is SA001175, Davids PMG, PMG - 12 in, located at 855 E. Collins Blvd, Richardson, TX, with a last connection of 2022/05/21 18:0... Below the table, a detailed view of the device's components is shown:

Module Name	Serial Number	Hardware Version	Firmware	Module Library	Firmware Update
Text and Graphics					
12" Controller	BD625430	0B	1.21.0.8		v1.21.0.11
MPPT Lead Acid Module	BD854944	P	1.2.11.1	0.13.3.41	
12" Display W/ Flashers	BD663557	0J	1.5.2.0	0.13.3.24	
12" Display W/ Flashers	BD663547	0J	1.5.2.0	0.13.3.24	
GPS Module-Standalone	BD000011	02	1.0.0.2	0.14.0.4	
4G V4 Wireless	BD914754	0A	1.1.0.5	0.14.0.4	v1.1.0.12

Fig. 63 - Detailed Device Information

### 6.2.2 Edit Device Information and Assign/Remove Users from a Device

To edit a device's information, hover over the device in the Device List. The row will be highlighted, and you will see an edit icon displayed on the right side of the row (Fig. 64).

The screenshot shows the 'Device List' table with the same columns as in Fig. 63. The row for SA001175, Davids PMG, is highlighted. A red circle highlights an edit icon (a pencil) located in the first column of the highlighted row.

Fig. 64 - Edit Device Information

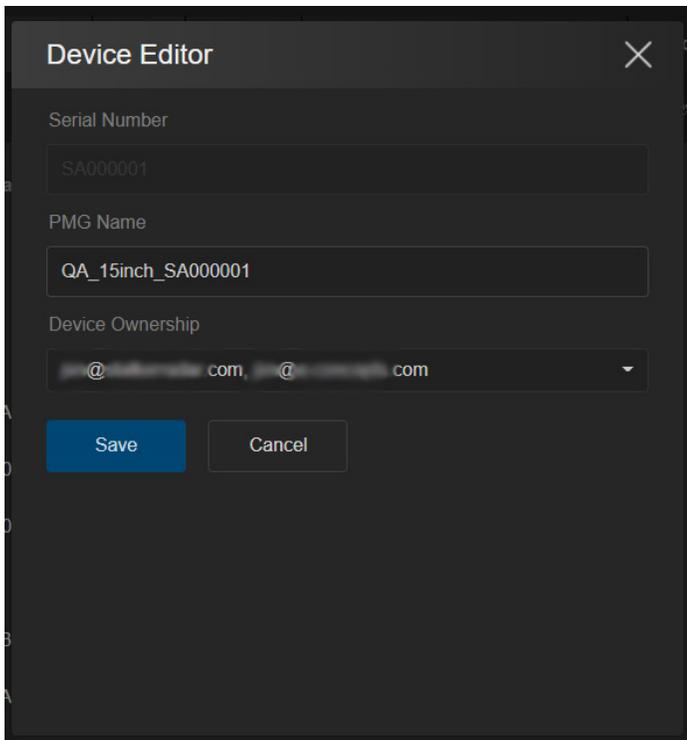
A dark-themed modal window titled "Device Editor" with a close button (X) in the top right corner. It contains three input fields: "Serial Number" with the value "SA000001", "PMG Name" with the value "QA\_15inch\_SA000001", and "Device Ownership" which is a dropdown menu showing "@ [redacted] .com, @ [redacted] .com". At the bottom, there are two buttons: "Save" (highlighted in blue) and "Cancel".

Fig. 65 - Device Editor Popup

Clicking this icon will cause a popup to appear (Fig. 65), allowing you to view the device's Serial Number and PMG Name. Admins can select which Users can access the device by selecting their names from the Device Ownership dropdown menu. Assigned users will be displayed in the Device Ownership box, and will also display a checkmark next to their name in the Device Ownership dropdown. To remove a user from the device, simply click on their name a second time from the User Name dropdown list .

### 6.2.3 Export Device List

You can export a list of your devices by clicking on the blue "Export Excel" button located at the top right corner of the screen. (Fig. 66)

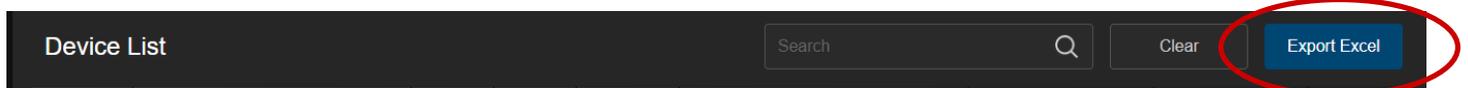


Fig. 66 - Export Device List

## 6.3 SETTINGS

There are three settings that can be modified from the Settings Menu: (Fig. 67)

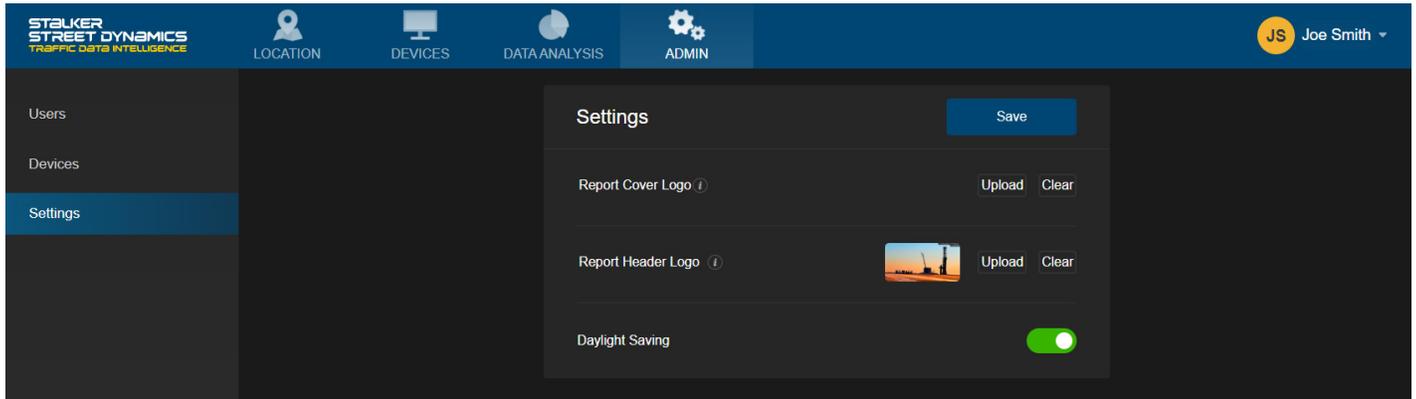


Fig. 67 - Settings Menu

**Report Cover Logo** – If you would like your logo to be displayed on the cover of Data Analysis reports, you can click the “Upload” button to add it here. Click “Clear” to delete a currently saved logo. Recommended size: 645px x 645px.

**Report Header Logo** – If you would like your logo to be displayed on the header of every page in your Data Analysis reports, you can click the “Upload” button to add it here. Click “Clear” to delete a currently saved logo. Recommended size: 425px x 85px.

**Daylight Saving** – This toggle turns daylight saving time (DST) on and off. It is on by default. If your area does not participate in daylight saving time (DST), toggle this switch to off.

# Notes

# Notes

