



Getting Started with TraffiCloud: SpeedAlert Radar Message Signs



SpeedAlert 18



SpeedAlert 24

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About this document

This Getting Started Guide is meant for anyone who needs to set up SpeedAlert Radar Message Signs using TraffiCloud. It provides an introduction to TraffiCloud and describes the basic use and configuration of the system, including the following:

- » Setting display options for your signs
- » Specifying the Sites for your signs
- » Assigning signs to Sites
- » Creating and activating messages for your signs
- » Monitoring the traffic data collected by your signs

This guide presumes that you have already unpacked and set up your signs, per the included *InstALERT 18/SpeedAlert 18 Quick Start Guide* or *InstALERT 24/SpeedAlert 24 Quick Start Guide*.



TIP: Before deployment to the road, you'll need to power up your signs, and then use TraffiCloud to set up a Site and add it to your sign. Those are the basic steps to ensure that you can generate traffic reports. If you can't get a signal indoors, try a better location, pointing the antenna towards a window, or take your sign outdoors.

Browser requirements

TraffiCloud has been tested with all the leading Web browsers, and works best with Google Chrome.

Documentation conventions

This document uses the following formatting conventions:

Format	Description
Bold	Used in procedures to indicate menu commands, interface controls and dialog box options.
<i>Italics</i>	Used to place emphasis on certain words.
Right chevron >	Used to indicate a sequence of commands (and sub commands) to be carried out in the displayed order. For example, Equipment tab > Nickname refers to the Nickname section of the Equipment page.



NOTE: Notes are used as reminders or to provide information of interest that supplements or emphasizes important points of the main text.



TIP: Tips are used to suggest alternative methods, workarounds and/or shortcuts that are not essential but that you may find useful in a given situation.



CAUTION: Cautions are used to advise users of specific actions that could result in a loss of data.



WARNING: Warnings are used to advise users of specific actions that could result in personal physical injury or damage to equipment.

Contacting Technical Customer Support

For support for your All Traffic Solutions products,

- » visit the Technical Customer Support page at <https://www.alltrafficsolutions.com/support/>,
- » send email to support@alltrafficsolutions.com, or
- » call 1-866-366-6602, Option 2 anytime between 8:00 a.m. to 6:00 p.m. EST, Monday to Friday.

Technical documentation

Please visit our [ATS Start-Up Guides](#) page for links to the most recent versions of our technical documentation.

Also, please visit our YouTube page, at [TraffiCloud Training Videos for SpeedAlert](#).

Chapter 1

Overview

All Traffic Solutions SpeedAlert Radar Message Signs and all data-enabled radar displays make it easy to collect highly accurate, report-ready data from any Internet-connected device.

ATS devices not only collect the traffic data you need to produce reports, but they automatically upload data remotely and securely to TraffiCloud, so that you don't have to drive to each sign to perform data collection. TraffiCloud is a Web-based display sign management solution developed by All Traffic Solutions. It features the convenience of the cloud to enable you to monitor and manage all aspects of your SpeedAlert Radar Message Signs without installing and maintaining the software on your local computers.

An added bonus is that you can generate reports using a variety of metrics, making it easier to track key data, such as 85th percentile speeds, and many others with just a few clicks of the mouse.

For the multipurpose SpeedAlert Radar Message Signs, **Dependent Messages** is the go to sign mode, displaying messages specific to vehicle speed ("Slow Down", "Too Fast!", "Have a Nice Day"), or dedicated messages ("Flood Warning", "Amber Alert"), depending on your needs.

With SpeedAlert Radar Message Signs and TraffiCloud you can do the following:

- » Monitor and manage your signs and their Sites,
- » Configure the display settings of your signs,
- » Specify displayed messages,
- » Set up and review alerts from the signs,
- » Generate and print statistical reports based on data gathered by the signs.

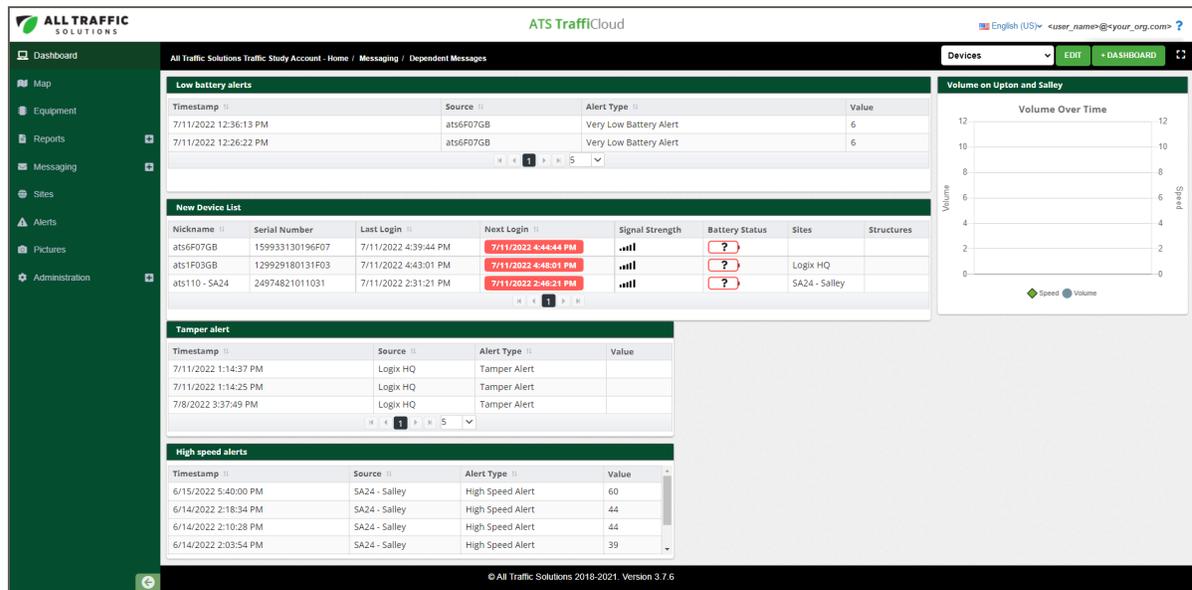
Before you begin

Before you begin using TraffiCloud with your SpeedAlert Radar Message Signs, there are a couple of things that you need to do. Turn the sign on and verify that it starts up correctly, and then take note

of the serial number of the sign. This serial number is used to identify the sign to All Traffic Solutions Technical Customer Support, and enables you to specify which sign is installed in which location.

Exploring the TraffiCloud user interface

The TraffiCloud home page includes a **navigation** menu, referred to as "tabs", along the left side of the window, a header bar including user settings at top right, the main window, and a footer bar. Click any of the tabs to explore what you can do. The main window in the example in [Figure 1] below shows the **Dashboard**, setup with some popular widgets (see *The Dashboard* on the facing page).



[Figure 1] The TraffiCloud User Interface

Navigation menu tabs

The following table describes what you can do with the navigation menu tabs:

Icon	Tab	Description
	Dashboard	Opens the Dashboard page, where you can set up dashboards and widgets to display alerts, devices, and traffic volume over time. See <i>Using the Dashboard</i> on page 101.
	Map	Opens the Map page, where you can check your Sites for conflicts on Google Maps. See <i>Understanding the Map</i> on page 84.
	Equipment	Opens the Equipment page, where you can set your device mode, speed settings schedules, alerts, and more. For the multipurpose SpeedAlert Radar Message Signs, Dependent Messages is the go to sign mode, displaying messages specific to vehicle speed ("Slow Down", "Too Fast!", "Have a Nice Day"), or dedicated messages ("Flood Warning", "Amber Alert"), depending on your needs. See <i>Configuring your sign</i> on page 19.

Icon	Tab	Description
	Reports	Opens the Reports page, where you can generate  Traffic reports for your Sites. See <i>Generating Reports</i> on page 67.
	Messaging	Opens the Messaging page, where you can set default messaging or custom or speed-dependent messaging. See <i>Using the Messaging tab</i> on page 47.
	Sites	Opens the Sites page, where you can add new Sites and view and edit existing ones. See <i>Creating a Site</i> on page 15.
	Alerts	Opens the Alerts page, where you can view alerts generated by your signs. Alerts are sent to TrafficCloud immediately, whenever they are triggered. See <i>Checking Alerts</i> on page 91.
	Pictures	Opens the Pictures page, where you can view photos taken by your signs. See <i>Checking Pictures</i> on page 97.
	Administration	Opens the Administration page, where you can perform administrative activities, like managing your account, equipment, users, entitlements, integration accounts, and uploads. See <i>Administration</i> on page 107.

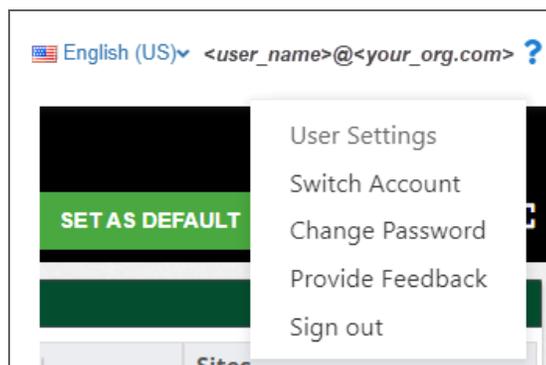
The Dashboard

When your TrafficCloud account is first set up, you'll see a default Dashboard in the main viewing pane. Dashboards are meant to give you a quick overview of your All Traffic Solutions devices and activity, and are made up of components called "widgets", which add features to websites.

See [Figure 1] on the previous page and *Using the Dashboard* on page 101.

The User menu

Use this section for details about the **User** menu.



The TraffiCloud **User** menu includes the following:

Menu item	Description
User Settings	Opens the Edit User window, where you can change your information, allow TraffiCloud text messaging for the account, add phone numbers, and more. See <i>Editing a user</i> on page 110.
Switch Account	Switches between TraffiCloud accounts if you have more than one. You can also change the default account by clicking Switch Account > Make Primary .
Change Password	Opens the Change Password page.
Provide Feedback	Opens a page where you can send feedback about TraffiCloud to Technical Customer Support.
Sign out	Opens the Sign out menu, where you can confirm that you want to sign out.

Chapter 2

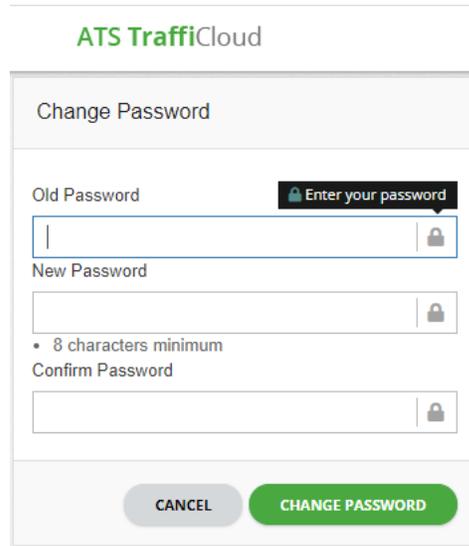
Signing in to TraffiCloud for the first time

Once you have a TraffiCloud subscription, All Traffic Solutions registers your users' email addresses as their user names, and sends them a Welcome email with a temporary password and a link to TraffiCloud. If this is your first time using an ATS sign with TraffiCloud, make sure the purchaser has set up a user account for you.

To sign in to TraffiCloud:

1. In the Welcome email from All Traffic Solutions, click the **Join All Traffic Solutions <your account name> Account** link, or click here:
<https://portal.trafficcloud.com/login>
2. In the **Sign In > Email** box, enter the email address and temporary password provided in the Welcome email.

3. Click the **Sign me in** button. You'll then be prompted to create a new password.



[Figure 2] The Change Password window

- A. In the **Old Password** box, enter the password from the Welcome email (you can copy and paste it, just make sure no trailing space is added).
- B. In the **New Password** and **Confirm Password** boxes, enter a new password. Passwords must have a minimum of eight characters, and we recommend including at least one special character, number, uppercase letter, and lowercase letter. Password rules can be defined by your TraffiCloud administrator. You can also let your Web browser suggest and save a secure password.
- c. Click the **Change Password** button.

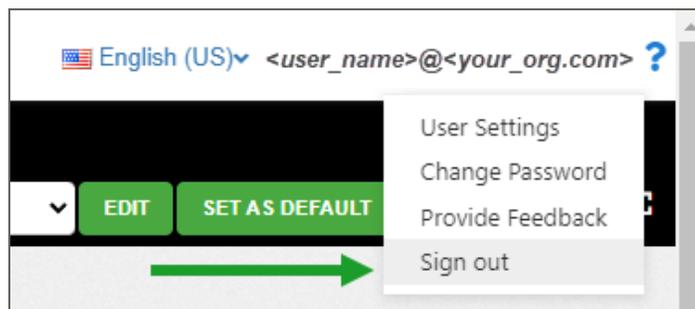
The TraffiCloud **Dashboard** page opens and confirms that you have successfully changed your password. You can reset your password as needed using **Change Password** on the TraffiCloud **User** menu.

Signing out of TraffiCloud

Use this procedure to sign out of TraffiCloud.

To sign out of TraffiCloud:

- » Click your user name in the top-right corner of the page, and click **Sign out**.



[Figure 3] The User menu > Sign out

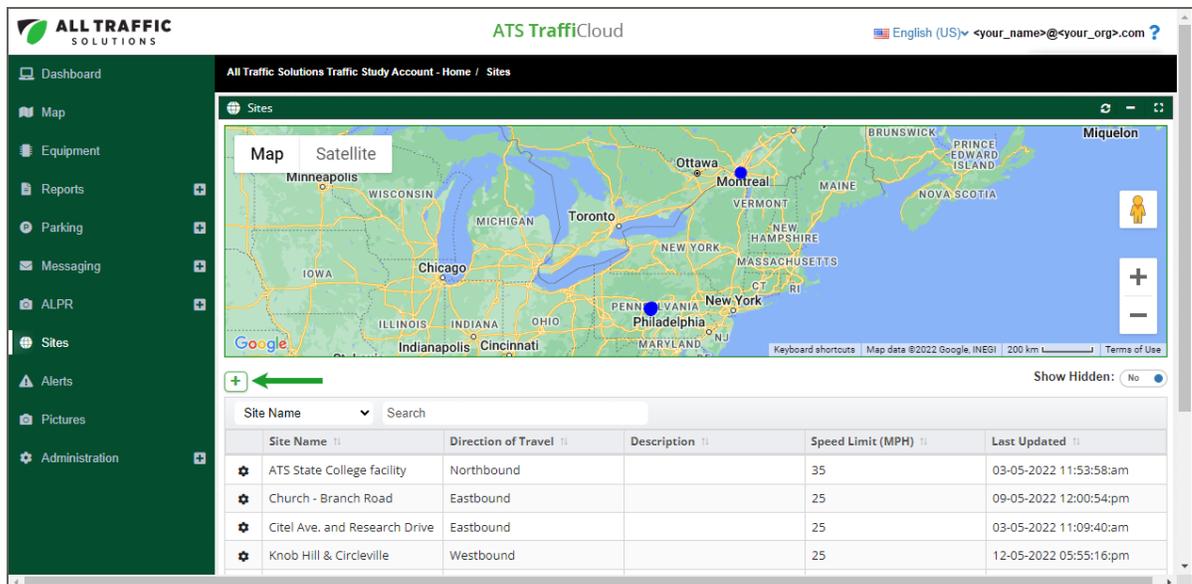
Chapter 3

Creating a Site

The first thing you'll need to do to get started using your signs with TraffiCloud is to create at least one Site for each sign. Sites are the key to generating traffic reports, because TraffiCloud organizes traffic data for reports by Site. You can perform these steps before (recommended) or after you install a sign at a physical location. For details about physical setup, refer to the included *InstALERT 18/SpeedAlert 18 Quick Start Guide* or *InstALERT 24/SpeedAlert 24 Quick Start Guide*.

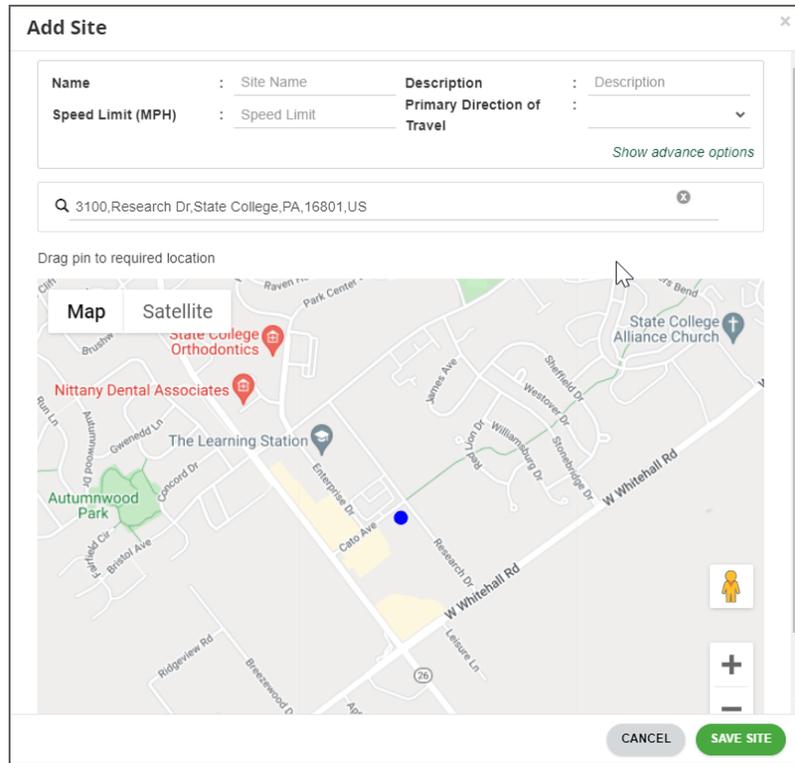
To create a Site in TraffiCloud:

1. On the navigation menu, click **Sites** and then click the **Plus** sign  under the map.



[Figure 4] The Sites page > Add Site button

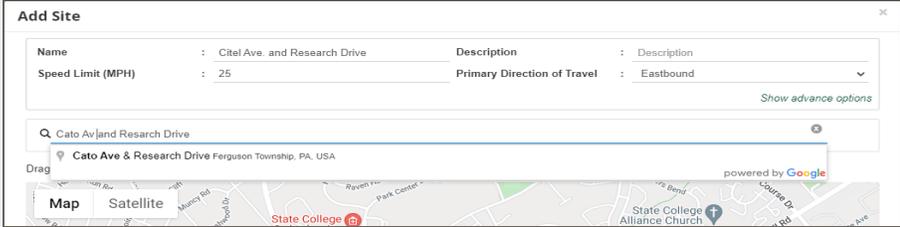
The **Add Site** window opens.



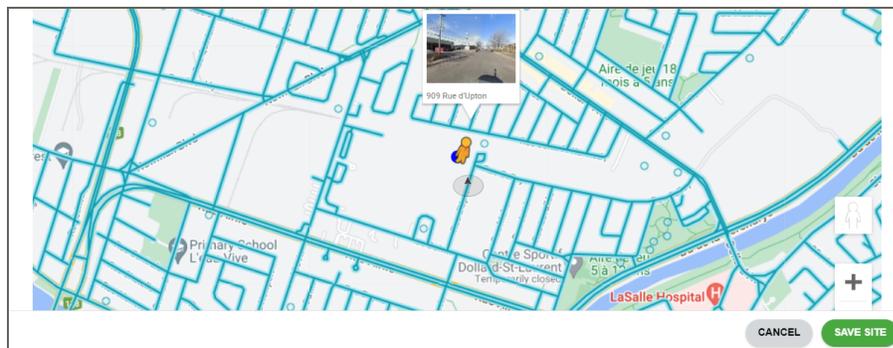
[Figure 5] The Add Site window

2. Enter the following details:

Setting	Description
Name	Enter a Site name that will identify the location for the sign in the Sites list. For example, Whitehall Road.
Description	Optionally, enter a description for the Site.
Speed Limit	Enter the speed limit for the Site.
Primary Direction of Travel	Select the primary direction of travel: North , South , East , or West . If the street direction is between two of the primary directions, choose the closest one.  NOTE: Once you have report data for a Site, it's best not to change the direction of travel. Instead, create a new Site for that direction.

Setting	Description
Address	<p>Enter an address for the Site using one of the following methods. The blue dot represents the Site for your sign on the map.</p> <ul style="list-style-type: none"> » In the address search box, enter the address or intersection where the sign will be located. The address field displays pattern matches for the address as you type. Select the address from the list. You can also copy and paste an address from your address book.  <p>OR</p>
	<ul style="list-style-type: none"> » Zoom the map until you can see street names. To zoom in, <ul style="list-style-type: none"> » Do any of these: Roll the middle mouse button forward, use the + sign on the bottom right corner of the map, or click the keyboard + key. See the Keyboard Shortcuts at the bottom-right corner of the map as well. » As you zoom, click and hold the mouse button on the map to drag and reposition your view of the blue dot or status marker. » Drag the blue dot to the planned location. The goal is to move the dot to within 100 feet of the Site address.

 **TIP:** You can also use Google **Satellite view** or drag the **Pegman**  onto the map to switch to **Street view**. Drag the Pegman to the blue dot and release the mouse button when you see the street view popup.



3. Click the **Save Site** button. Your Site will appear in the **Sites** list in the main window. By default, only active Sites show in the list. Click **Show Hidden** to show all Sites, including active and hidden Sites.

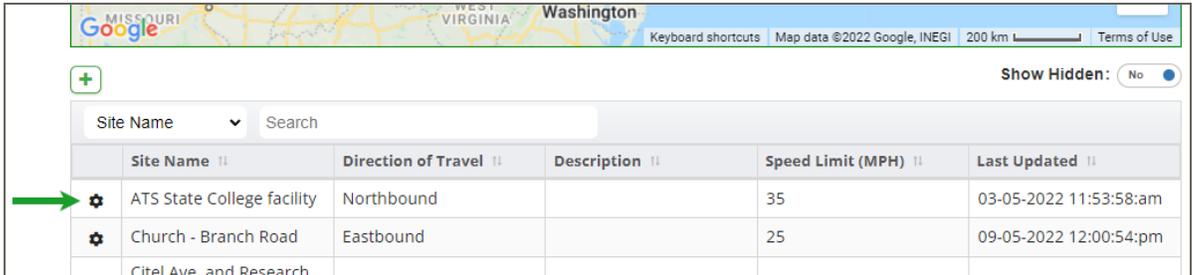
If you'll be using a sign at multiple Sites, you can repeat the above steps for those Sites or add them later.

Editing a Site

Use this procedure to edit an existing Site.

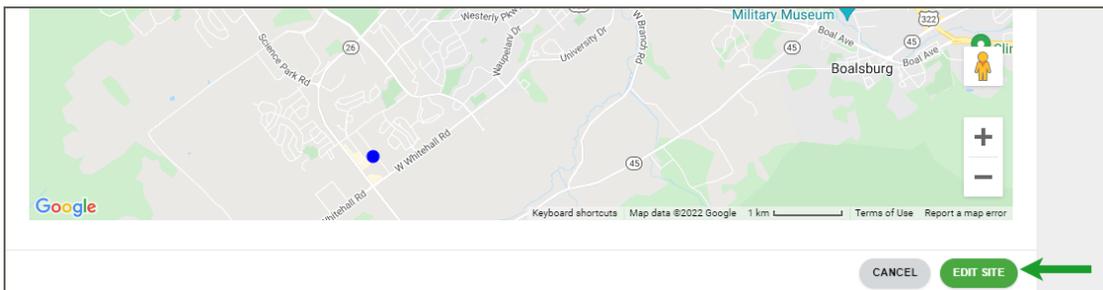
To edit a Site:

1. Click the View Sites button, the cog icon next to the Site name in the **Sites** list.



[Figure 6] The View Sites button

2. In the **View Site** window, click the **Edit Site** button.



[Figure 7] The View Site window

3. Make your changes and click the **Save Site** button. Your changes appear in the Sites list.

Chapter 4

Configuring your sign

The place to configure your sign is the **Equipment** tab. The initial **Equipment** page displays a table with controls to edit the settings for your sign and identifying information, including nickname and serial number, the assigned Site, last and estimated next communication, and status.

You can also click the **Pencil** icon  or even the **History** icon  to open an **Equipment** details page, where you can set your sign's

- » **Sign Mode**, the type of information the sign displays, such as vehicle speed for radar-enabled signs, messages and daily and weekly schedules.
- » **Assigned Site**, the location TraffiCloud recognizes where you plan to place the sign. The Site is also key to preparation of reports.
- » **Speed** settings, such as speed limit, speed slots (when to collect data), speeds to display and when to blink or strobe (if equipped), and radar sensitivity,
- » **Alerts and Images**, configurations for low battery, tampering, high and low speed (traffic congestion) events, and whether to take pictures and at what resolution.

Topics in this chapter:

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 Retroactively adding a Site to a sign 44

Assigning a Site to your sign

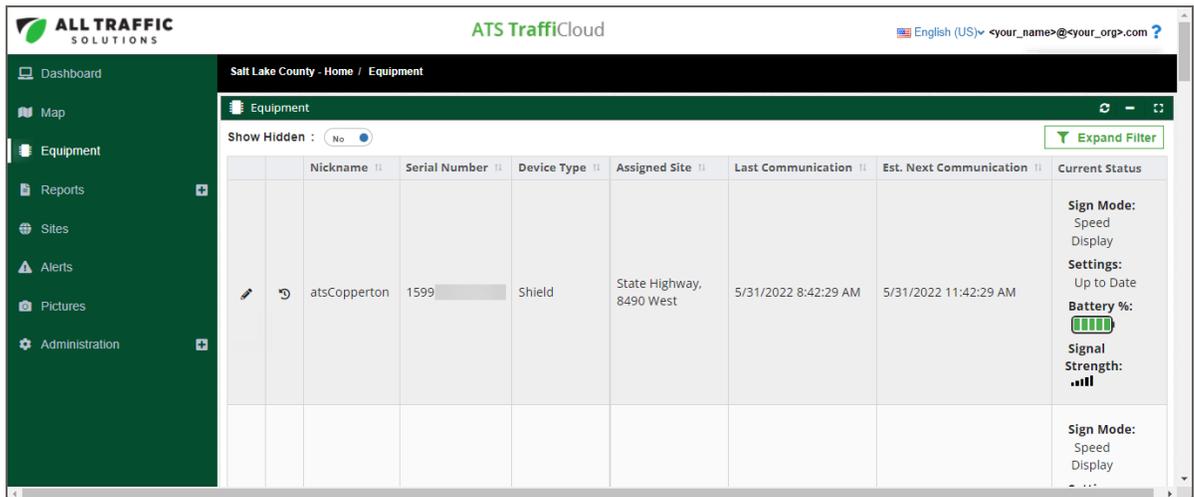
Once you have created a Site, the next thing you'll need to do is assign a sign to the Site using TraffiCloud.

You can perform these steps before or after you install the sign on location, but we recommend performing them before you place the sign on location so you'll have your data as soon as the sign is placed on Site.

To assign a Site to your sign:

1. On the navigation menu, click **Equipment** and then click the Pencil icon  next to the sign you want to assign the Site to. The **Equipment** details page opens.

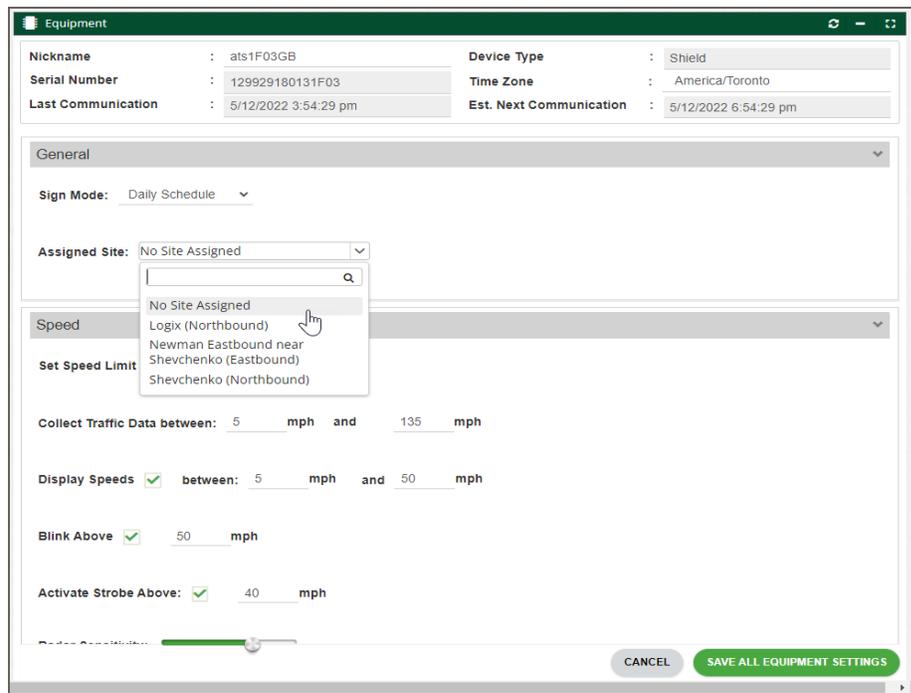
 **TIP:** If you need to filter the list, click **Expand Filter**. You can filter by nickname, serial number, device type, Site, last communication, and power level.



[Figure 8] The Pencil icon

2. Verify your preferred **Sign Mode**. With SpeedAlert Radar Message Signs, the default is set to **Single Message**. The sign mode default varies by device type. See *Understanding Sign Modes* on page 22.

3. In the **Assigned Site** box, click the down arrow and select your Site.



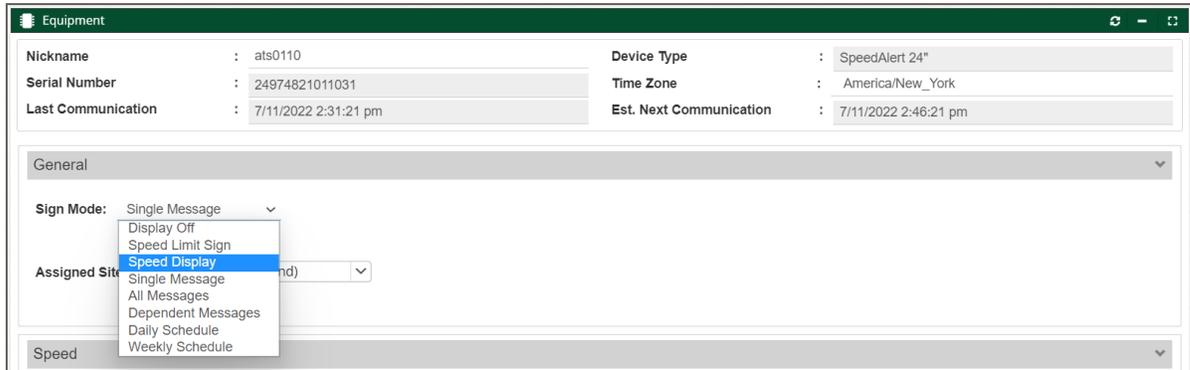
[Figure 9] Equipment > Assigned Site box

 **TIP:** If you need to unassign a Site from a sign, in the **Assigned Site** box, select **No Site Assigned**.

4. A prompt appears asking if you want to apply the speed limit to the sign that you specified when you created the Site. Click **Yes** to confirm. If you want to change the speed limit, you can click **No** and change it on the **Equipment** page. The Site will now be assigned to your sign.
5. Click the **Save All Equipment Settings** button.

Understanding Sign Modes

ATS signs and devices include a variety of display modes, depending on the capabilities of your sign. Here's what you'll find for **Sign Modes** with SpeedAlert signs:



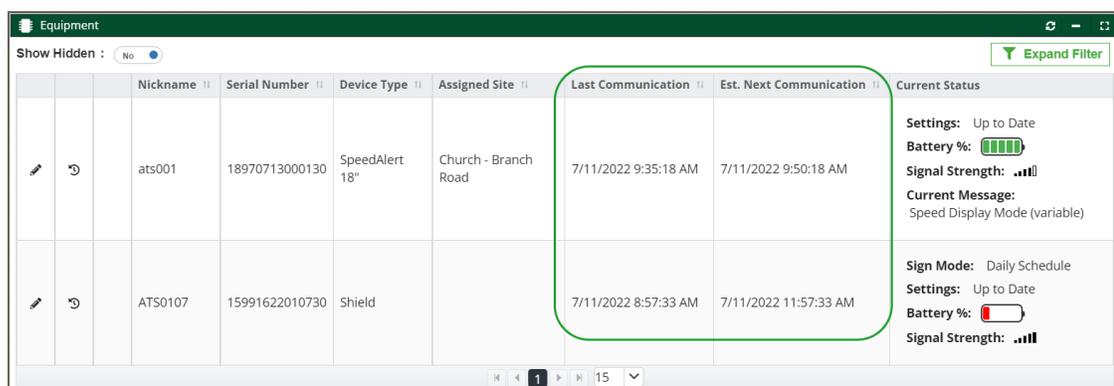
[Figure 10] The Equipment page: Sign Modes

Sign Mode	Description
Display Off	Collects traffic and status data, but doesn't display it on the equipment. This mode is recommended for performing traffic studies at a Site. See <i>Performing a traffic study</i> on page 24.
Speed Limit Sign	Displays the configured speed limit, but the sign still collects data and blinks and strobes based on your sign settings for speed warnings as vehicles pass through the sign's radar detection zone. See <i>Configuring speed settings</i> on page 25.  NOTE: If you use this setting, to avoid driver confusion be sure to remove the Your Speed faceplate.
Speed Display	Displays the detected speed of oncoming vehicles, adjusting as vehicles change speeds and pass through the sign's radar detection zone. See <i>Configuring speed settings</i> on page 25.
Single Message	Rotates a message of up to six screens in sequence. There are 24 factory-preset messages included with SpeedAlert signs. You can also create your own messages. See <i>Enabling messaging for your sign</i> on page 26.
All Messages	Displays all of the messages in the sign's memory in sequence.

Sign Mode	Description
Dependent Messages	<p>Displays a series of speed-dependent messages. For the multipurpose SpeedAlert Radar Message Signs, Dependent Messages is the go to sign mode, displaying messages specific to vehicle speed ("Slow Down", "Too Fast!", "Have a Nice Day"), or dedicated messages ("Flood Warning", "Amber Alert"), depending on your needs. See <i>Creating a Dependent Message</i> on page 51.</p> <p> TIP: A popular option with dependent messaging, which also prolongs battery life, is setting the sign to display a blank screen when no vehicle is detected.</p>
Scheduling	
<p>Using TrafficCloud daily and weekly schedules, you can adjust the speed limit and messaging for your sign during scheduled periods of the day or week, such as for deployment to school zones when students are attending school, or for construction zones during work hours. You can also use scheduling to display messages at specific times, or to direct traffic for events like concerts, games, and festivals.</p>	
Daily Schedule	Adjusts the speed limit and messaging used for your sign during scheduled periods of the day. See <i>Setting up a daily schedule</i> on page 30.
Weekly Schedule	Adjusts the speed limit and messaging used for your sign during scheduled periods of the day and week. Setting a weekly schedule is more appropriate than a daily schedule for school or construction zones, where the speed reduction and messaging would usually be necessary only on workdays and during working hours. See <i>Setting up a weekly schedule</i> on page 35.

When do SpeedAlerts call in?

Here's a quick overview of how SpeedAlert Radar Message Signs communicate back to TrafficCloud, both to pick up new settings and to upload traffic data. You can check for the last call-in on the **Equipment** summary page. Here's an example of what you'll see, with the **Last Communication** and **Estimated Next Communication** fields highlighted:



Equipment								
Show Hidden : <input type="radio"/> No <input type="radio"/>								Expand Filter
		Nickname	Serial Number	Device Type	Assigned Site	Last Communication	Est. Next Communication	Current Status
		ats001	18970713000130	SpeedAlert 18"	Church - Branch Road	7/11/2022 9:35:18 AM	7/11/2022 9:50:18 AM	Settings: Up to Date Battery %: Signal Strength: Current Message: Speed Display Mode (variable)
		ATS0107	15991622010730	Shield		7/11/2022 8:57:33 AM	7/11/2022 11:57:33 AM	Sign Mode: Daily Schedule Settings: Up to Date Battery %: Signal Strength:

[Figure 11] The Equipment summary page > Last and Est. Next Communication

You can also set up a **Device List** widget in the **Dashboard** to track sign status and properties. See *Setting up a Device List Dashboard widget* on page 105.

About call-in scheduling

SpeedAlert signs:

- » Send Alerts back to TraffiCloud immediately,
- » Call in to pick up settings changes every 15 minutes,
- » Send traffic data every three hours.

SpeedAlert call in frequency		
Alerts	Traffic Data	Settings
Immediately	Every 3 hours	Every 15 minutes

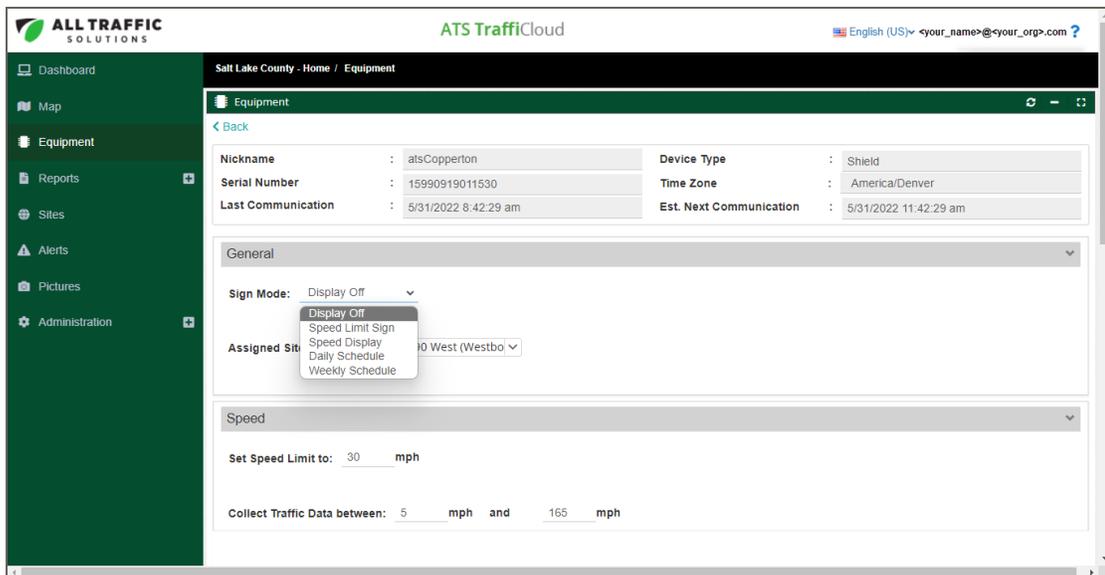
Performing a traffic study

If you want to perform a traffic study, we recommend setting ATS radar-enabled display signs to **Display Off** mode, also referred to as "stealth mode". In this mode, the signs still collect data but appear to be turned off, which should eliminate the traffic calming influence of having the speed display turned on.

For example, you could install the sign in a new location, leave the display off for a week to collect the data, and run a **Compliance & Risk** report to get a feel for whether speeding is a significant issue in that location. Then, you could turn the **Speed Display** mode on, collect the data for another week and compare the differences.

To set up Display Off mode:

1. Open the **Equipment** tab, and click the **Pencil** icon  next to the sign you want to use for your study. The **Equipment** page opens.
2. Click the **Sign Mode** box, and select **Display Off**.



[Figure 12] Equipment > Sign Mode

- Click the **Save All Equipment Settings** button. The sign display turns off the next time the sign checks in during its three-hour cycle. Even with the display off, data will still be collected according to your settings.

For details about analyzing the data collected, see *Generating Reports* on page 67.

Configuring speed settings

As shown below, in the **Equipment page > Speed** settings, you can set your sign's speed limit and scheduling, when it collects traffic data, speed ranges to display, when it should blink or strobe, along with radar sensitivity.

[Figure 13] Speed settings

Use the following table for details about speed settings:

Setting	Description
Set Speed Limit to	Sets the speed limit for the sign. The speed limit is also set in the TrafficCloud Site tab and initially using the Speed Limit button on the sign itself. TrafficCloud settings take precedence over the settings on the physical sign.
Collect Traffic Data between	Sets the minimum and maximum speeds defining when traffic data is collected.
Display Speeds	Sets the range of speeds to be displayed. To avoid joy riders competing for "high scores" on radar signs, most organizations set the maximum display speed much lower than the data collection maximum speed.
Blink Above	Sets the speed when the display starts to blink. Most organizations set this at the speed limit of five to 10 mph over, depending on the situation. Uncheck to disable this setting if preferred.

Setting	Description
Activate Strobe Above	Sets the speed when the strobe light in the sign (if equipped) starts to flash. Organizations that use the strobe option, typically set it to 10-15 mph above the speed limit. Uncheck to disable this setting if preferred.
Radar Sensitivity	<p>Sets the sensitivity level of the radar device in the sign, ranging from least to most sensitive. We recommend using settings between 4 and 8.</p> <p> NOTE: Setting radar sensitivity to less than 4 can result in unreliable detection distances, such as the vehicle being past the sign before it illuminates, while settings above 8 can cause the radar to pick up background objects, cross streets, or other interference.</p>

Enabling messaging for your sign

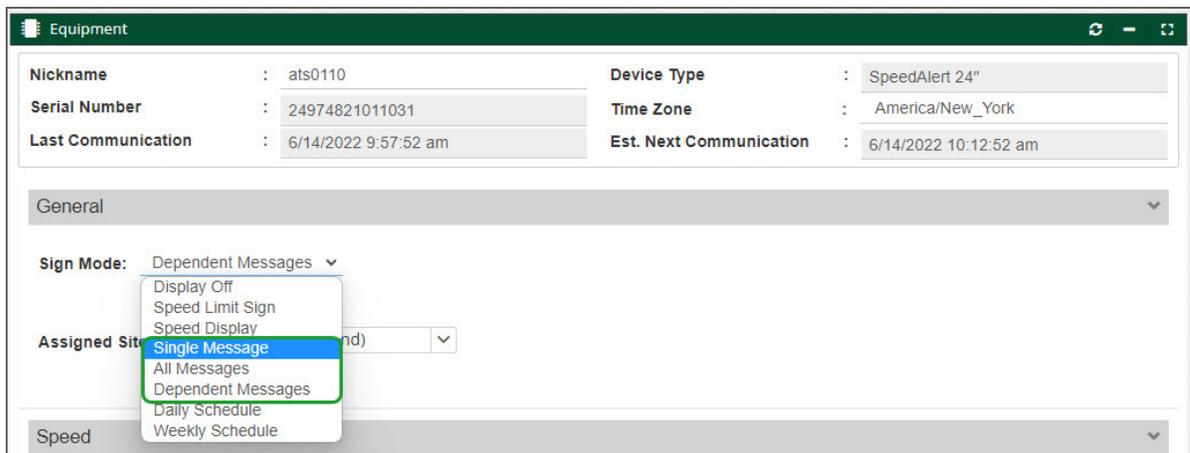
With SpeedAlert Radar Message Signs you can deploy, create, and manage messages for your signs using the **Equipment** tab and the **Messaging** tab.

On the **Equipment** tab, SpeedAlert signs can store a maximum of 24 messages plus a placeholder message, referred to as the **InstaMessage**. The InstaMessage is always the first message in the **Single Message** and **All Messages** lists on the page. You can create an unlimited number of custom or dependent messages in TraffiCloud. See *Using the Messaging tab* on page 47.

 **TIP:** You can't directly delete the InstaMessage, but you can replace it using the **Messaging > Bulk Send** command. See *Sending a message to one or more signs* on page 58.

On the **Equipment** tab, you can select from these messaging modes:

- » *Single Message mode*
- » *All Messages mode*
- » *Dependent Messages mode*



[Figure 14] Sign Modes for Messaging

For details, see *Understanding messaging modes* on the next page.

In **Single Message** mode and **Dependent Messages** modes, you can:

- » select from the default messages or create your own messages,
- » activate, add, edit, reorder, or copy messages, and
- » choose messages from the **Message Library** or **Dependent Message Library**. See also *Using the Messaging tab* on page 47.

To set up messaging for your sign:

1. On the navigation menu, click the **Equipment** tab. The **Equipment** summary page opens, listing all of the signs and devices in your organization.
2. Click the **Pencil** icon  next to the sign you want to set up messaging for. The **Equipment** page opens for the sign.
3. In the **General** section, click the **Sign Mode** drop-down list and select the mode you want to use: **Single Message**, **All Messages**, or **Dependent Messages**. The **Sign Modes** for messaging are described in *Understanding messaging modes* on the next page.
4. Scroll down to the **Messages** screen of the **Equipment** page.
5. If you select **Dependent Messages**, you can:
 - View the default Dependent Message.
 - Click the **Edit** button to edit the default message. See *Editing a message* on page 59.
 - Click the **Copy** button to copy the current message to the **Dependent Message Library**. This is the preferred way to create a new Dependent Message. See *Creating a Dependent Message* on page 51.
 - Click the **Choose From Dependent Message Library** button to select another message, if others have been added. Select a message and click the **Choose** button.

After you make your selections, go to the last step.

6. If you select either **Single Message** or **All Messages**, you can:
 - Click the **Add** button  to create a new message or choose from the library.

 **NOTE:** If the **Add** button is grayed out, it means the sign already has the maximum 24 messages stored locally. To add another message, first you'll need to delete one of the existing messages.

 - View and select existing messages. When you select a message, scroll down and select messages to preview any of the screens in the message.
 - Select a message and click the **Make Active** button, to make it the active message on the sign (not available in **All Messages** mode).
 - Click the **Save** icon  to save a copy of a selected message to the **Message Library**.
 - Click the **Pencil** icon  to edit the selected message. See *Editing a message* on page 59.
 - Drag the hamburger icon  to change the order of a selected message in the list.
 - Click the **Delete** icon  to delete a selected message.
7. After you've made your changes click the **Save All Equipment Settings** button.

Understanding messaging modes

Use this section to understand the **Sign Modes** for messaging that you can use with your SpeedAlert Radar Message Signs. For the multipurpose SpeedAlert Radar Message Signs, **Dependent Messages** is the go to sign mode, displaying messages specific to vehicle speed (“Slow Down”, “Too Fast!”, “Have a Nice Day”), or dedicated messages (“Flood Warning”, “Amber Alert”), depending on your needs.

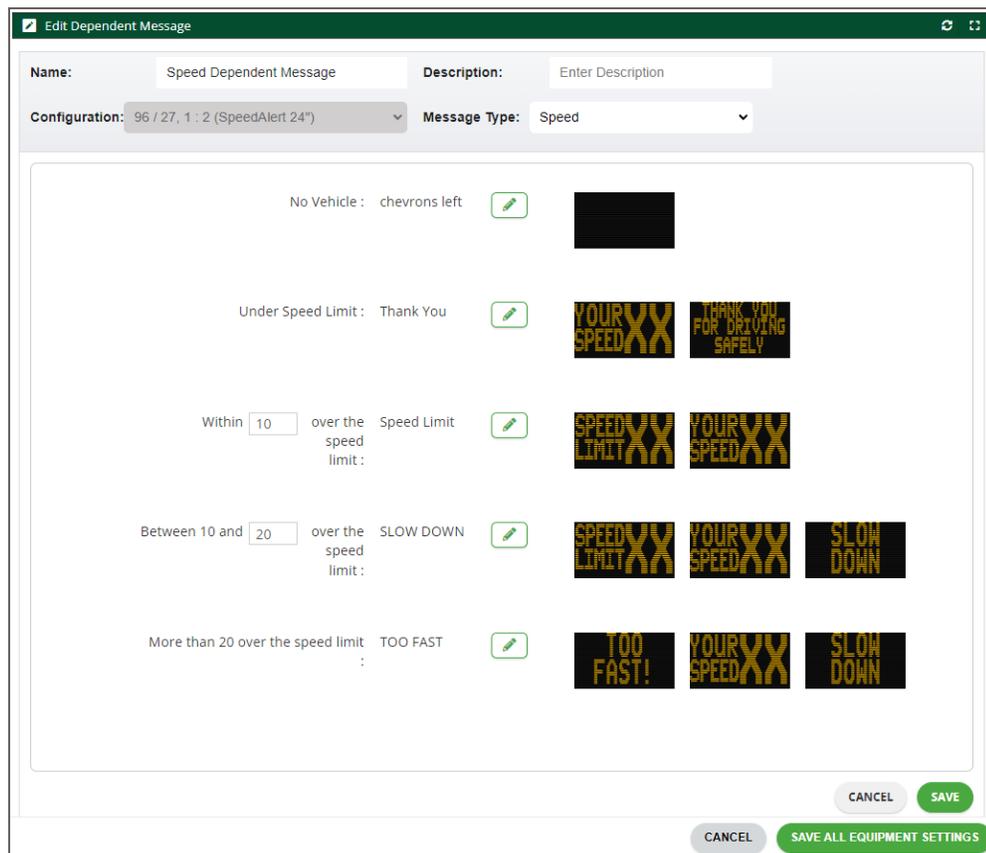
See also *Using the Messaging tab* on page 47.

Dependent Messages mode

Dependent Messages mode displays a series of speed-dependent messages. Depending on the speed of the approaching vehicle, the default message displays positive reinforcement, an advisory, or a warning.

[Figure 15] below shows the default Dependent Message page, where you can

- » edit the preset messages or metadata, draw or enter new images, and change the template, blink type, or duration of display for each screen in a given message,
- » copy a message to the **Dependent Message Library**, or
- » choose a message from the Dependent Message Library.



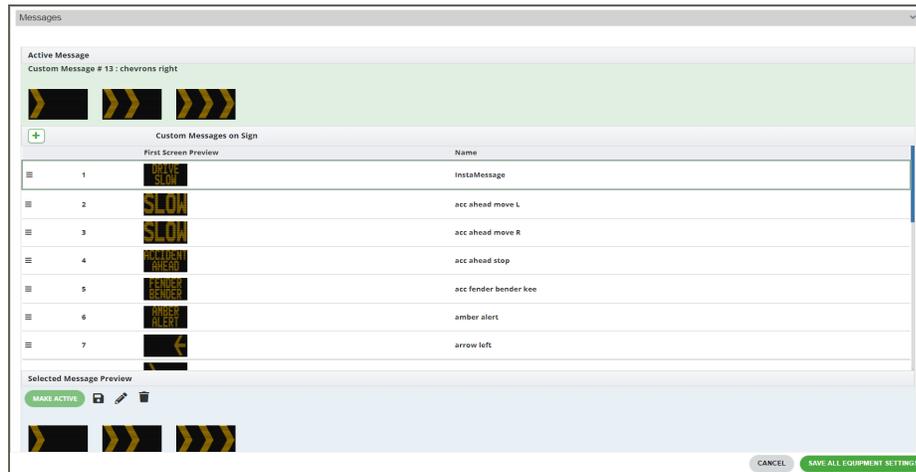
[Figure 15] The default Dependent Message

 **TIP:** A popular option with dependent messaging, which also prolongs battery life, is setting the sign to display a blank screen when no vehicle is detected.

Single Message mode

Single Message mode rotates a message of up to six screens in sequence. There are 24 default messages included with SpeedAlert signs. You can also create your own messages. See *Creating a custom message* on page 54.

[Figure 16] below shows an example of the **Single Message** screen, where you can activate a message, view or change the active message, add a new message, reorder messages, save a copy of a message to the library, or delete messages.

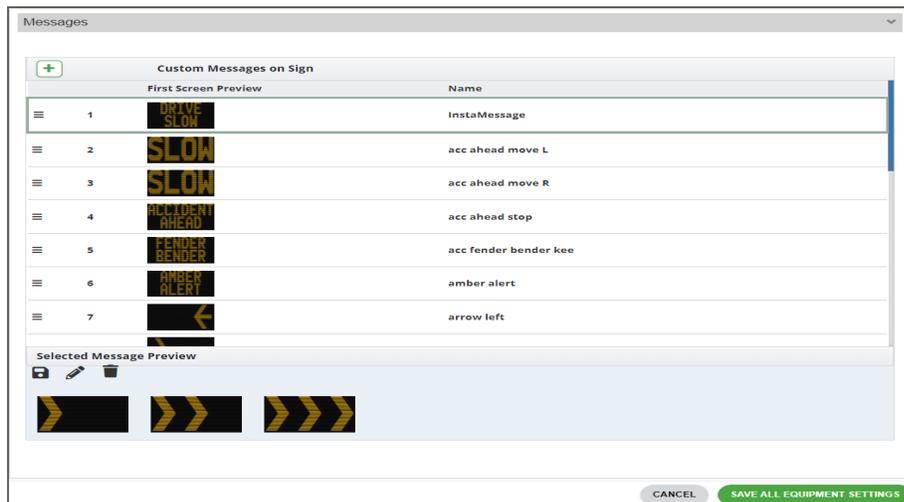


[Figure 16] Single Message page

All Messages mode

All Messages mode displays all of the messages in the sign's memory in sequence.

Here is an example of the **All Messages** screen, where you can preview any message, reorder messages, save a copy of a message to the library, or delete messages:



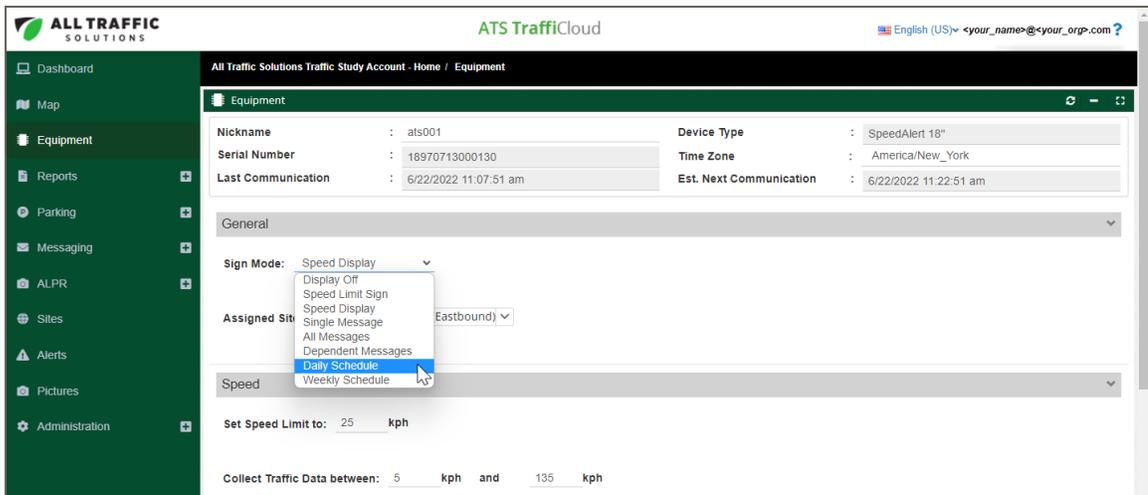
[Figure 17] All Messages page

Setting up speed and messaging schedules

Using TraffiCloud daily and weekly schedules, you can adjust the speed limit and messaging for your sign during scheduled periods of the day or week, such as for deployment to school zones when students are attending school, or for construction zones during work hours. You can also use scheduling to display messages at specific times, or to direct traffic for events like concerts, games, and festivals.

To set up a daily or weekly schedule:

1. On the **Equipment** page for your sign, under **General**, select **Sign Mode** and select either **Daily Schedule** or **Weekly Schedule**.



[Figure 18] Selecting a scheduling mode

2. Scroll to the **Schedule** section, which appears after the **Speed** section.

For detailed steps, see:

- *Setting up a daily schedule* below
- *Setting up a weekly schedule* on page 35

Setting up a daily schedule

Set your **Sign Mode** to **Daily Schedule** if you want to repeat the same message every day and don't want to vary or repeat it based on the days of the week.

To set up a daily schedule:

1. On the navigation menu, click the **Equipment** tab and then click the Pencil icon  next to the sign you want to assign the Site to. The **Equipment** details page opens.

	Nickname	Serial Number	Device Type	Assigned Site	Last Communication	Est. Next Communication	Current Status
	ATS0240	24970422024030	SpeedAlert 24"		7/18/2022 12:47:15 PM	7/18/2022 1:02:15 PM	Settings: Up to Date Battery %: Signal Strength: Current Message:
	ats110 - IA24	24954821011031	InstAlert 24"				Settings: Waiting for check-in Battery %: Data unavailable Signal Strength: Current Message:
	ats110 - SA24	24974821011031	SpeedAlert 24"	SA24 - Salley	7/11/2022 2:31:21 PM	7/11/2022 2:46:21 PM	Settings: Up to Date Battery %: Signal Strength: Current Message:

[Figure 19] The Pencil icon

TIP: If you need to filter the list, click **Expand Filter**. You can filter by nickname, serial number, device type, Site, last communication, and power level.

2. Select **Sign Mode > Daily Schedule** (as shown in [Figure 18] on the previous page).

TrafficCloud adds a **Daily Schedule** section to your **Equipment** page, below the **Speed** section, like this:

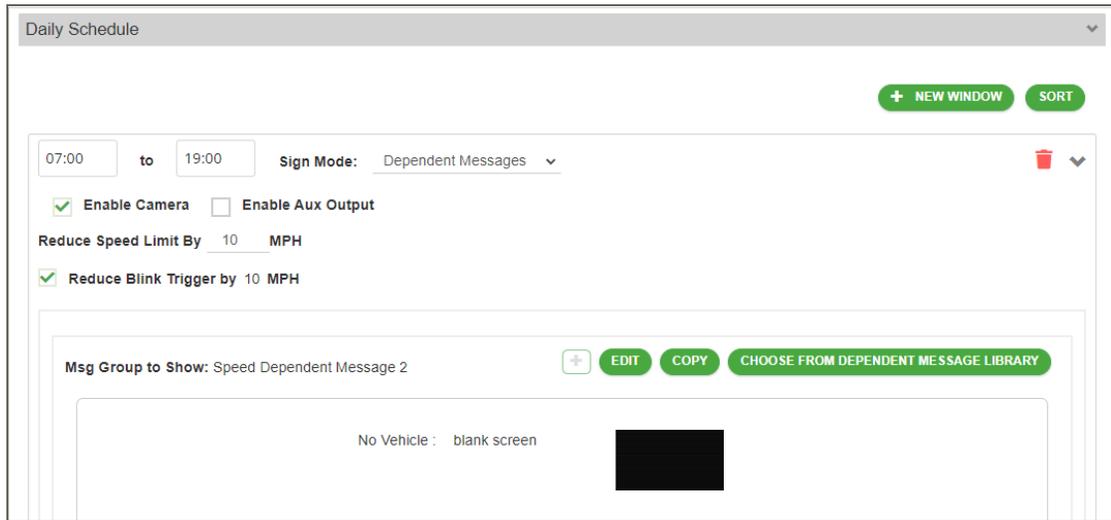
Daily Schedule +

+ NEW WINDOW SORT

00:00 to 00:00 Sign Mode: Single Message Default 24 schedule msg

[Figure 20] Daily Schedule (collapsed view)

3. Click the right chevron > at the side of the page or any blank area in the bounding box, and select schedule options. In the following example, the schedule and settings are:
 - **Schedule** is set from 07:00 to 19:00,
 - **Sign Mode** is set to **Dependent Messages**,
 - the camera is enabled, and
 - the options for **Reduce Speed Limit by** and **Reduce Blink Trigger by** are both reduced by 10 mph.



[Figure 21] Daily Schedule (expanded view)

4. Use this table for details about the datafill options:

Setting	What you can do
Time frame	Set the time frames for message display and speed reduction.
Sign mode	Set the Sign Mode you want to use (typically Dependent Messages) for the scheduled time.
Enable Camera	Click the checkbox if you want the camera enabled when the radar detects a violation. For details about how to ensure that your sign captures photos when you want it to, see <i>Configuring Alerts and Images</i> on page 40.
Enable Aux Output	Enables an optional relay (switch) to allow control of a customer-provided external device, based on radar speeds (for example, a camera, light, or siren).
Reduce Speed Limit By	Enter the amount you want to reduce the speed limit by during scheduled hours. For example, if the regular speed limit is 35 mph and you want to reduce it to 20 mph, enter 15. The sign will use 20 mph as the speed limit during scheduled hours.
Reduce Blink Trigger By	First, click the checkbox if you want to set a Blink Trigger , the reduced speed when the sign will start to blink, and then enter the amount of the speed reduction from the normal speed for the sign.

Setting	What you can do
Reduce Strobe Trigger By	Click the checkbox if you want to set a Strobe Trigger , the reduced speed when the strobe light in the sign (if equipped) will start to flash, and enter the amount of the speed reduction from the normal speed for the sign.

For details about Dependent Message settings, see *Creating a Dependent Message* on page 51.

- Click the **+ New Window** button to add scheduling windows until all 24 hours of the day are covered. TrafficCloud automatically adds another period of the day that hasn't been covered yet. You can create up to 13 scheduling windows per day.

Here's an example 24-hour schedule, including:

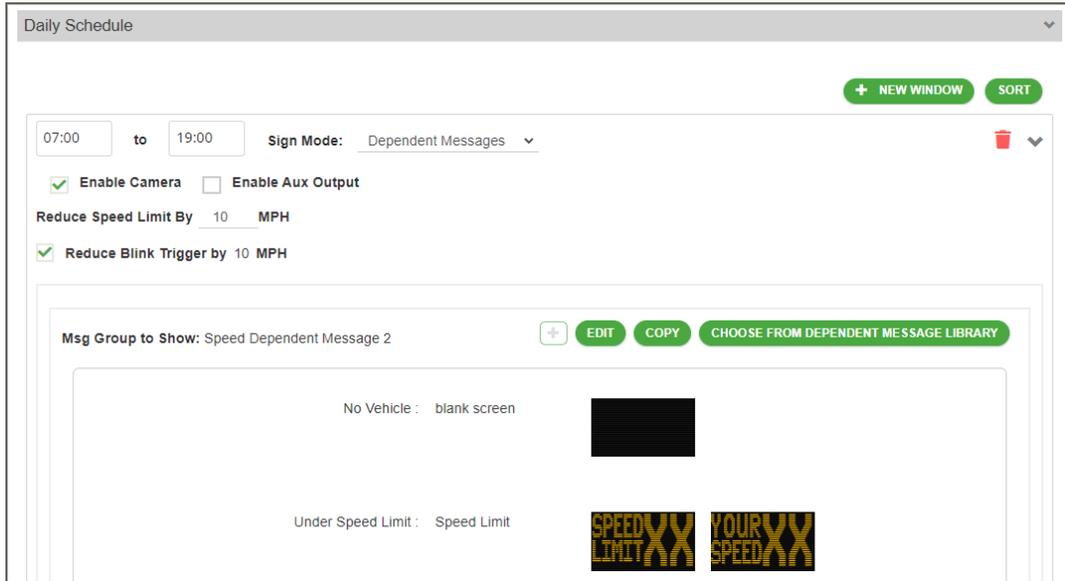
- During the first window, from midnight to 7:00 a.m., the **Sign Mode** is set to **Single Message**, and the camera enabled, but there is no speed reduction from the regular speed limit or to the blink trigger.

The screenshot shows a 'Daily Schedule' configuration window. At the top right, there are buttons for '+ NEW WINDOW' and 'SORT'. The main configuration area includes:

- Time range: 00:00 to 07:00
- Sign Mode: Single Message (dropdown menu)
- Enable Camera: (checked)
- Enable Aux Output: (unchecked)
- Reduce Speed Limit By: 0 MPH
- Reduce Blink Trigger by: 0 MPH
- Msg to Show: City or Jail funny (with a '+' icon)
- Buttons: EDIT and CHOOSE FROM MESSAGE LIBRARY
- Message preview: Four panels showing 'DRIVE SLOW', 'SEE OUR CITY', 'DRIVE FAST', and 'SEE OUR JAIL' in yellow text on a black background.

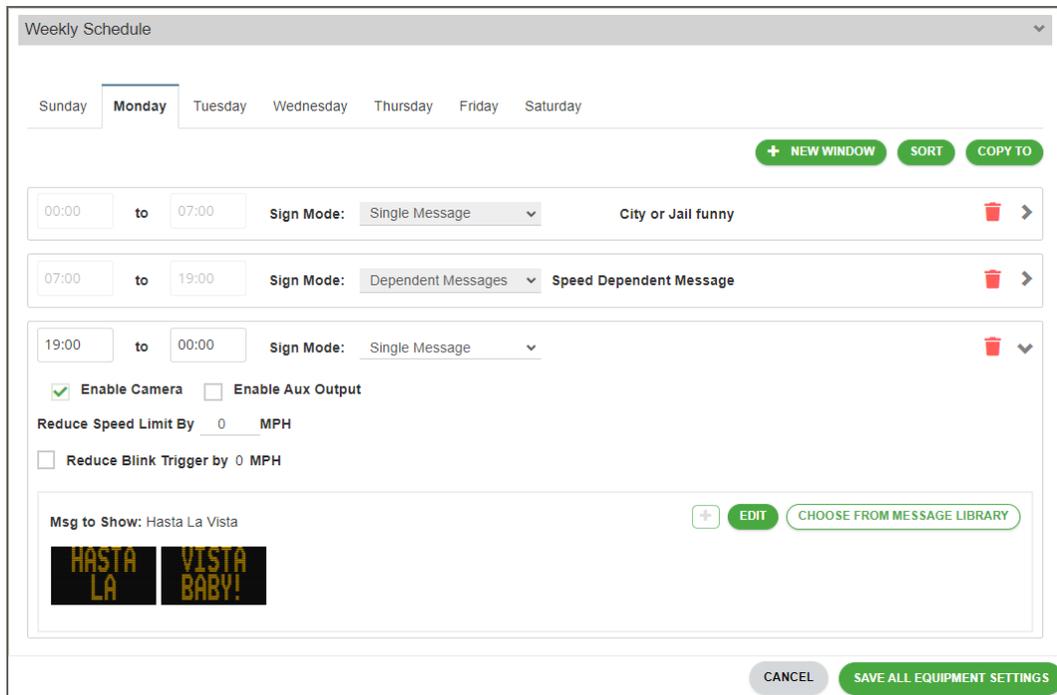
[Figure 22] Daily Schedule (00:00 to 07:00 - Single Message)

- B. And during the second window, from 7:00 a.m. to 7:00 p.m. (19:00), the **Sign Mode** is set to **Dependent Messages**, the camera is enabled, and the **Speed Limit** and **Blink Trigger** are reduced by 10 MPH.



[Figure 23] Daily Schedule (07:00 to 19:00 - Dependent Messages)

- c. During the third window, from 19:00 to midnight, like the first window, the **Sign Mode** is set to **Single Message**, and the camera is enabled, but there is no speed reduction from the regular speed limit or to the blink trigger.



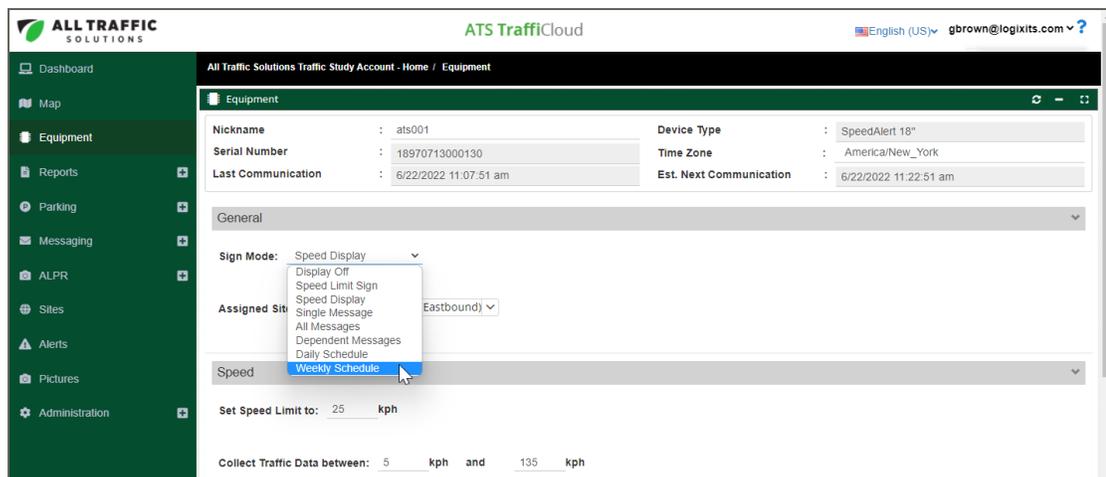
[Figure 24] Daily Schedule (19:00 to 00:00 - Single Message)

 **TIP:** You can use the **Sort** button to sort multiple schedules from morning to night, or the trash icon  to delete a scheduling window.

6. Click the **Save All Equipment Settings** button to apply your changes.

Setting up a weekly schedule

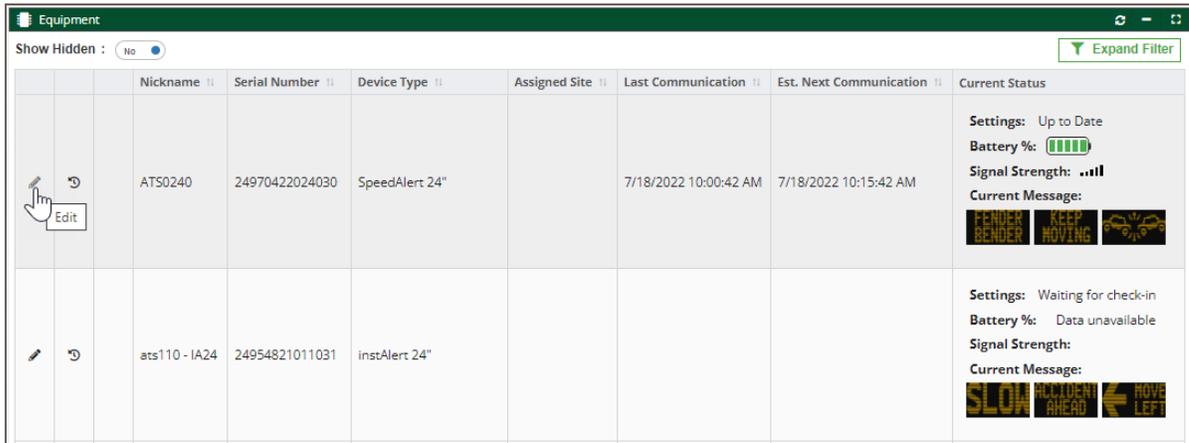
Setting a weekly schedule is more appropriate than a daily schedule for school or construction zones, where the speed reduction and messaging would usually be necessary only on workdays and during working hours.



[Figure 25] Sign Mode > Weekly Schedule

To set up a weekly schedule:

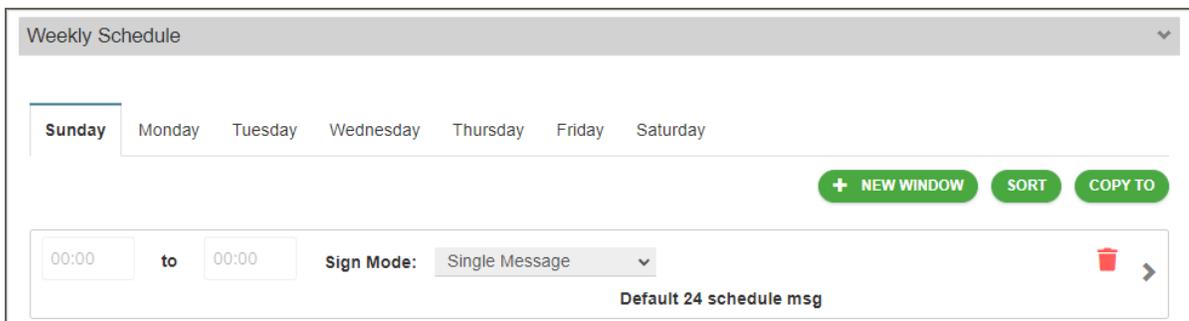
1. On the navigation menu, click **Equipment**. The main **Equipment** page opens.



[Figure 26] The Pencil icon

 **TIP:** If you need to filter the list, click **Expand Filter**. You can filter by nickname, serial number, device type, Site, last communication, and power level.

2. Click the Pencil icon  in the row for the sign you want to set the schedule for. The **Equipment** details page opens.
3. Select **Sign Mode > Weekly Schedule** (as shown in [Figure 25] on the previous page).
TraffiCloud adds a **Weekly Schedule** section to your **Equipment** page, below the **Speed** section, like this:



[Figure 27] Weekly Schedule > Day of week tab (collapsed view)

4. Click the right chevron > at the side of the page or any blank area in the bounding box, and select scheduling options. In the following example, the schedule and settings are:
 - **Schedule** is set to from 07:00 to 19:00 on Mondays,
 - **Speed Limit** is reduced by 15 MPH,
 - **Sign Mode** is set to **Dependent Messages**,
 - the camera is enabled, and
 - the options for **Reduce Speed Limit by** and **Reduce Blink Trigger by** are both reduced by 15 mph.

Weekly Schedule

Sunday **Monday** Tuesday Wednesday Thursday Friday Saturday

+ NEW WINDOW SORT COPY TO

07:00 to 19:00 Sign Mode: Dependent Messages

Enable Camera Enable Aux Output

Reduce Speed Limit By 15 MPH

Reduce Blink Trigger by 15 MPH

Msg Group to Show: Speed Dependent Message + EDIT COPY CHOOSE FROM DEPENDENT MESSAGE LIBRARY

No Vehicle : Blank Message

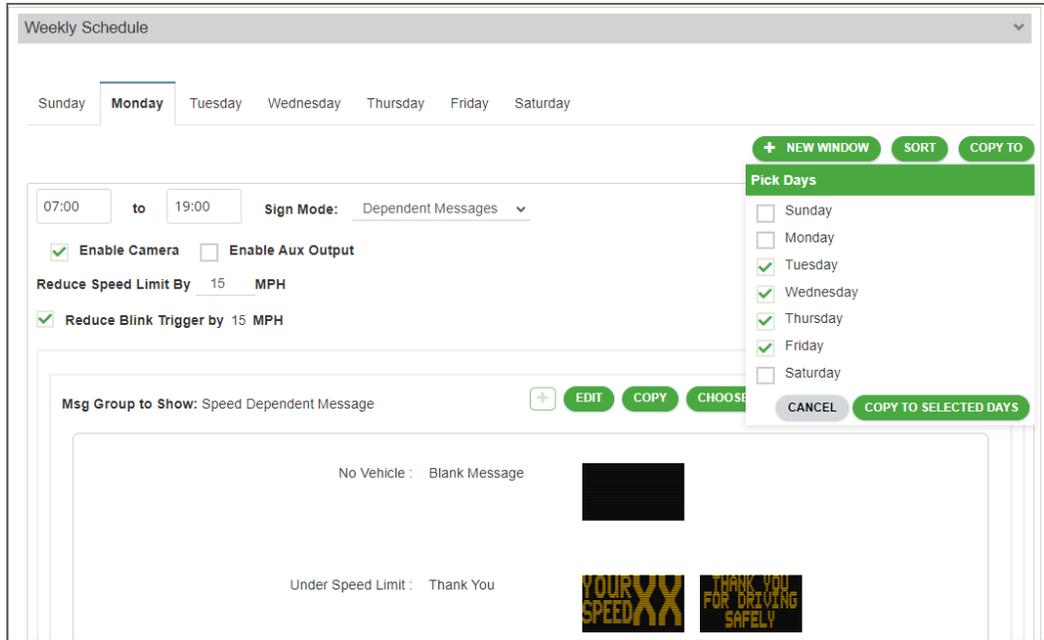
[Figure 28] Weekly Schedule (expanded view)

5. Use this table for details about the datafill options:

Setting	What you can do
Time frame	Set the time frames for message display and speed reduction.
Sign mode	Set the Sign Mode you want to use (typically Dependent Messages) for the scheduled time.
Enable Camera	Click the checkbox if you want the camera enabled when the radar detects a violation. For details about how to ensure that your sign captures photos when you want it to, see <i>Configuring Alerts and Images</i> on page 40.
Enable Aux Output	Enables an optional relay (switch) to allow control of a customer-provided external device, based on radar speeds (for example, a camera, light, or siren).
Reduce Speed Limit By	Enter the amount you want to reduce the speed limit by during scheduled hours. For example, if the regular speed limit is 35 mph and you want to reduce it to 20 mph, enter 15. The sign will use 20 mph as the speed limit during scheduled hours.
Reduce Blink Trigger By	First, click the checkbox if you want to set a Blink Trigger , the reduced speed when the sign will start to blink, and then enter the amount of the speed reduction from the normal speed for the sign.
Reduce Strobe Trigger By	Click the checkbox if you want to set a Strobe Trigger , the reduced speed when the strobe light in the sign (if equipped) will start to flash, and enter the amount of the speed reduction from the normal speed for the sign.

For details about Dependent Message settings, see *Creating a Dependent Message* on page 51.

6. Click the **+ New Window** button to add scheduling windows until all 24 hours of the day are covered. TraffiCloud automatically adds another period of the day that hasn't been covered yet. You can create up to 13 scheduling windows per day.
7. If you have a standard daily schedule you want to copy to the other days, such as Monday to Friday,
 - A. Click **Copy To**,
 - B. Select the other days you want to copy to,
 - C. Click **Copy to Selected Days**, as shown, copying the schedule from **Monday** over to **Tuesday** through **Friday**:



[Figure 29] Weekly Schedule > Copy to other days

- For any days you don't want to apply a speed limit reduction, set the timespan from midnight to midnight (00:00 to 00:00), and the speed settings to 0, for example:

The screenshot shows the 'Weekly Schedule' configuration interface for Sunday. At the top, there are tabs for 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', and 'Saturday'. Below the tabs are three green buttons: '+ NEW WINDOW', 'SORT', and 'COPY TO'. The main configuration area includes a time range from '00:00' to '00:00', a 'Sign Mode' dropdown set to 'Dependent Messages', and a trash icon. There are two checkboxes: 'Enable Camera' (checked) and 'Enable Aux Output' (unchecked). Below these are two input fields: 'Reduce Speed Limit By' set to '0 MPH' and 'Reduce Blink Trigger by' set to '0 MPH'. A 'Msg Group to Show' dropdown is set to 'Speed Dependent Message 2', with '+', 'EDIT', 'COPY', and 'CHOOSE FROM DEPENDENT MESSAGE LIBRARY' buttons. The preview area shows two message states: 'No Vehicle : blank screen' with a black screen image, and 'Under Speed Limit : Speed Limit' with two yellow 'SPEED LIMIT XX' signs.

[Figure 30] Weekly Schedule > No speed reduction

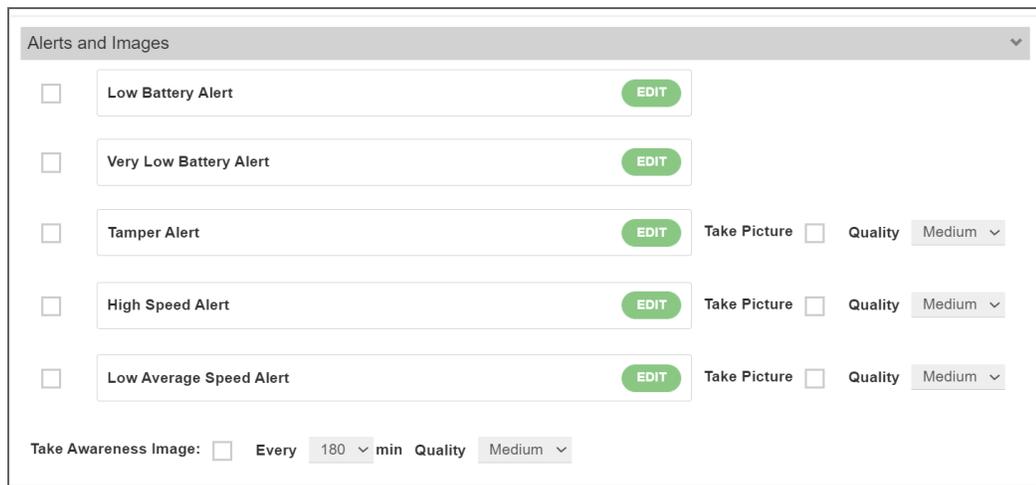
- Click the **Save All Equipment Settings** button to apply your changes.

Configuring Alerts and Images

In the **Equipment > Alerts and Images** settings you can set up alerts for your sign's battery charge level, tampering, as well as high and low speeds. You can also configure your sign to take pictures automatically, based on **Tampering, High Speed, or Low Speed** (congestion) events, and to take **Awareness Images**, photos of the roadway at set intervals. Traffic data are sent by the sign every three hours, but alerts are sent immediately.

To configure Alerts and Images:

1. On the navigation menu, click **Equipment**. The main **Equipment** page opens.
2. Click the Pencil icon  next to the sign you want to assign the Site to. The **Equipment** details page opens.
3. Scroll down to the **Alerts and Images** settings.



[Figure 31] Alerts and Images

4. Use this table for details about configuring **Alerts and Images**:

Setting	How to set it
Low Battery Alert	<p>To set low battery alerts:</p> <ol style="list-style-type: none"> 1. Click the checkbox on the left side of the page to enable low battery alerts. 2. Click the Edit button to open the Edit window, where you can set up <ul style="list-style-type: none"> • text and email alerts for TraffiCloud users and guest users. To enable alerts, move the slider to "Yes", <p>NOTE: To enable text alerts, the Allow Text Messages slider must be set to Yes, and the user added in the Administration > Users tab. See <i>Adding a user</i> on page 108.</p> <ul style="list-style-type: none"> • the charge level (threshold %) for when you want to receive battery alerts. We recommend the low battery alert threshold be set at 50% in freezing temperatures and 30% in seasonable weather.

Setting	How to set it
	<ul style="list-style-type: none"> a timespan for auto-silencing alerts. <p>See <i>Editing alerts</i> on the next page.</p> <ol style="list-style-type: none"> Click the Save Alert button to save your changes.
Very Low Battery Alert	<p>See Low Battery Alert, above.</p> <p>We recommend the Very Low Battery Alert threshold be set at 30% in freezing temperatures and 10% in seasonable weather.</p>
Tamper Alert	<p>To set tamper alerts and speed alerts:</p> <ol style="list-style-type: none"> Click the checkbox on the left side of the page to enable alerts. Click the Edit button to open the Edit window, where you can set up <ul style="list-style-type: none"> text and email alerts for TrafficCloud users and guest users. To enable alerts, move the slider to Yes, <p>NOTE: To enable text alerts, the Allow Text Messages slider must be set to Yes, and the user's mobile phone number added in the Administration > Users tab. See <i>Adding a user</i> on page 108.</p> <ul style="list-style-type: none"> for speed alerts, set a speed threshold (in mph or kph, depending on your account settings). a timespan for auto-silencing alerts. Silenced alerts temporarily suspend notifications, but do not stop recording of events and transmission to TrafficCloud. For Tampering, we recommend no auto-silencing. Set auto-silencing to 0. <p>See <i>Editing alerts</i> on the next page.</p> Click the Save Alert button to save your changes. Optionally, click the Take Picture checkbox and set the image quality (Low, Medium or High) to have a picture taken when an event is detected. If you select Send Alert and Take Picture, the alert email will include an attached image. <p> NOTE: The cameras miss vehicles occasionally and image quality is not yet advanced enough to capture license plates.</p>
High Speed Alert	
Low Average Speed Alert	
Take Awareness Image	<p>Awareness Images are photos triggered at set intervals, independent of a specific event.</p> <ol style="list-style-type: none"> Click the checkbox to enable the sign to take a picture at set intervals. Beside Every, click the down arrow and select a time interval from the list. The range is from 15 to 240 minutes, at 15-minute intervals. For the Quality setting, you can select Low, Medium, or High for the picture.

- Click the **Save All Equipment Settings** button.

Editing alerts

Use this topic for details about setting up notifications for alerts. To enable text messaging from TraffiCloud, your user account must include your cell number.

To edit an alert:

1. Open the **Equipment** page, and scroll down to **Alerts and Images**.
2. Click the **Edit** button next to the alert you want to edit. The **Edit** window opens.

[Figure 32] The Edit alerts window

3. Use this table for help with editing alerts:

Setting	What you can do
Alert Type	Select the Alert Type you want to edit.
User and Guest User	<p>Enable SMS (text messages) or email (or both) to be sent to selected users.</p> <p>Send sms Move the slider to Yes to enable, and No to disable sending text message alerts.</p> <p>Send email Move the slider to Yes to enable, and No to disable sending email alerts.</p> <p>Users are members of the organization granted access to the TraffiCloud account. Guest users are users granted read only access to the TraffiCloud account.</p>
Threshold (%)	The battery charge level, or speed when you want to receive alerts.
Auto silence for (min)	Enter a timespan in minutes for how long to prevent alerts from being sent after an incident.

Setting a new Nickname for your sign

Use this topic to revise the original **Nickname** given to your sign. By default, TraffiCloud sorts the **Equipment** list by Nickname. For the new Nickname, enter a name that displays your sign in a useful alphanumeric sequence in the list.

 **TIP:** If you need to filter the list, click **Expand Filter**. You can filter by Nickname, serial number, device type, Site, last communication, and power level.

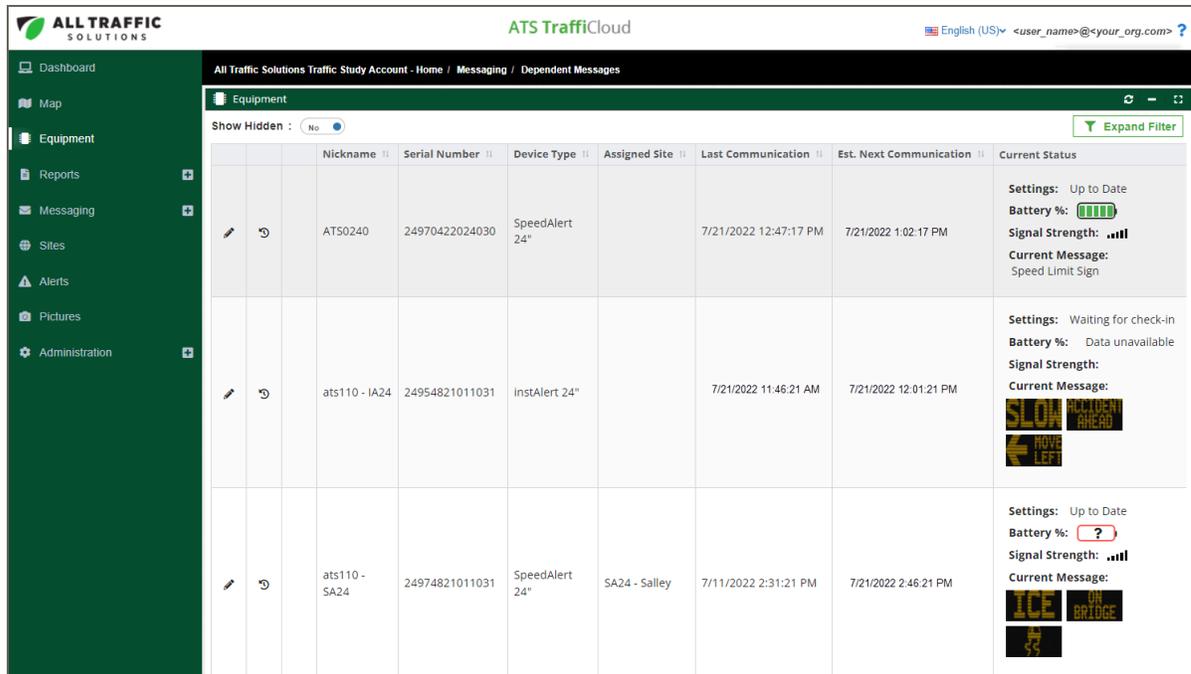
You can also sort the list from first to last by clicking the **Sort** buttons  beside **Nickname** and other column headings.



[Figure 33] The Equipment page > Sort buttons

To set up a Nickname:

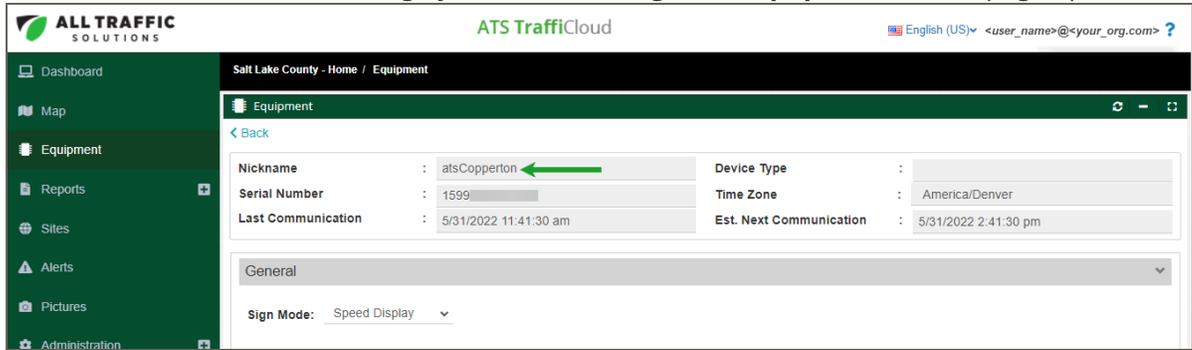
1. Click the **Equipment** tab. Your subscribed signs display in the list.


 A screenshot of the 'Equipment' table in the TraffiCloud interface. The table has columns: Nickname, Serial Number, Device Type, Assigned Site, Last Communication, Est. Next Communication, and Current Status. There are three rows of equipment data. The first row shows a SpeedAlert 24" sign with a current message of 'Speed Limit Sign'. The second row shows an InstAlert 24" sign with a current message of 'SLOW AHEAD' and 'MOVE LEFT'. The third row shows a SpeedAlert 24" sign at site SA24 - Salley with a current message of 'ICE ON BRIDGE'.

	Nickname	Serial Number	Device Type	Assigned Site	Last Communication	Est. Next Communication	Current Status
	ATS0240	24970422024030	SpeedAlert 24"		7/21/2022 12:47:17 PM	7/21/2022 1:02:17 PM	Settings: Up to Date Battery %:  Signal Strength:  Current Message: Speed Limit Sign
	ats110 - IA24	24954821011031	InstAlert 24"		7/21/2022 11:46:21 AM	7/21/2022 12:01:21 PM	Settings: Waiting for check-in Battery %: Data unavailable Signal Strength:  Current Message: 
	ats110 - SA24	24974821011031	SpeedAlert 24"	SA24 - Salley	7/11/2022 2:31:21 PM	7/21/2022 2:46:21 PM	Settings: Up to Date Battery %:  Signal Strength:  Current Message: 

[Figure 34] The Equipment table

2. Click the **Pencil** icon  for the sign you want to change. The **Equipment** details page opens.



[Figure 35] The Nickname field

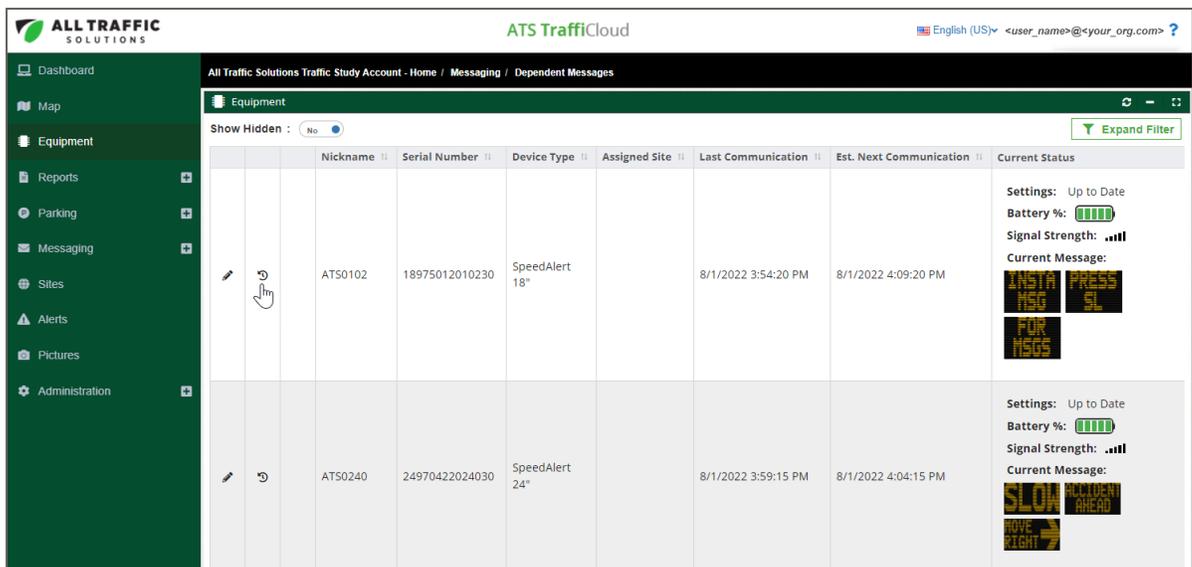
3. In the **Nickname** field, enter a new name or revise the existing name. The name must begin with "ats" (upper or lower case) and is limited to 14 characters or less.
4. Click the **Save All Equipment Settings** button.

Retroactively adding a Site to a sign

Use the steps in this procedure to retroactively add a Site to a sign if you happen to have placed it on location before assigning a Site to it in TrafficCloud. As long as you turned your sign on and set a speed limit before installing it, the last 30 days of traffic data will be ready for upload to TrafficCloud as soon as you assign a Site to it.

To retroactively add a Site to a sign:

1. Click the **History** icon  next to the Site name in the **Sites** list.

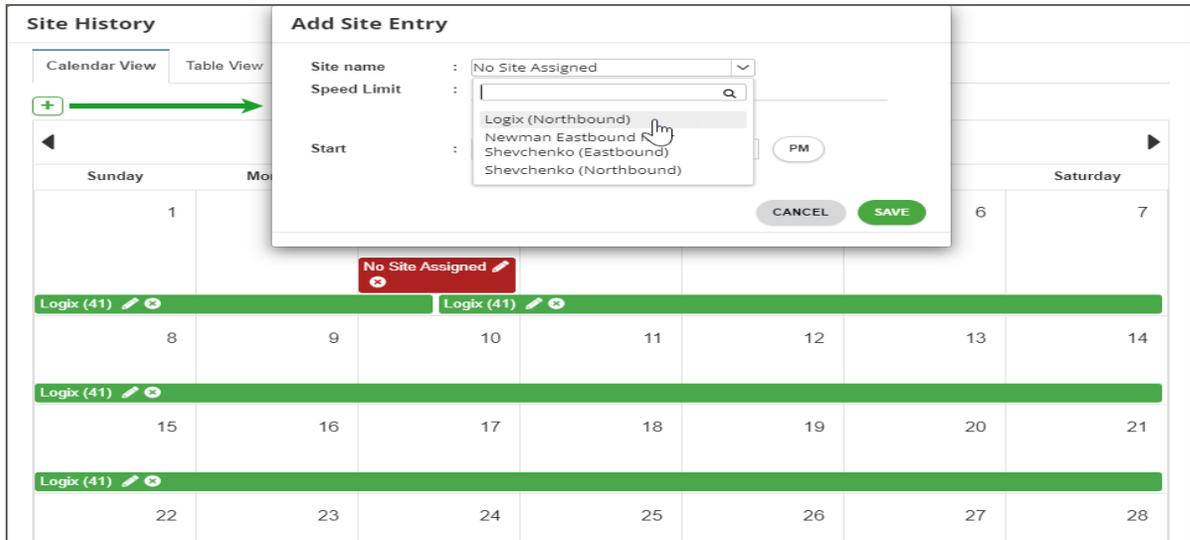


[Figure 36] The History icon

The **Site History** window opens, showing the **Calendar View**. If you prefer, you can change to the **Table View** to view the Sites without a calendar.

- In the **Site History** window, click the **Plus** icon . The **Add Site Entry** window opens, as shown in *[Figure 37]* below.

Dates where the sign was deployed are shown with a header bar in the calendar. You can scroll the calendar back to the desired date and click the **Pencil** icon  to select that date.



[Figure 37] The Add Site Entry window > Calendar View

- Click the **Site name** box as shown above, and select your Site from the drop-down list. The **Speed Limit** field populates automatically from your existing settings, as shown in the next step.
- Select a start date and time from when your sign began collecting data.



[Figure 38] Setting a start date and time

- Click **Save** in the **Add Site Entry** window.
- Click **Save** in the **Site History** window to complete your changes.

Chapter 5

Using the Messaging tab

Use the topics in this section to set up messaging from the Messaging tab:

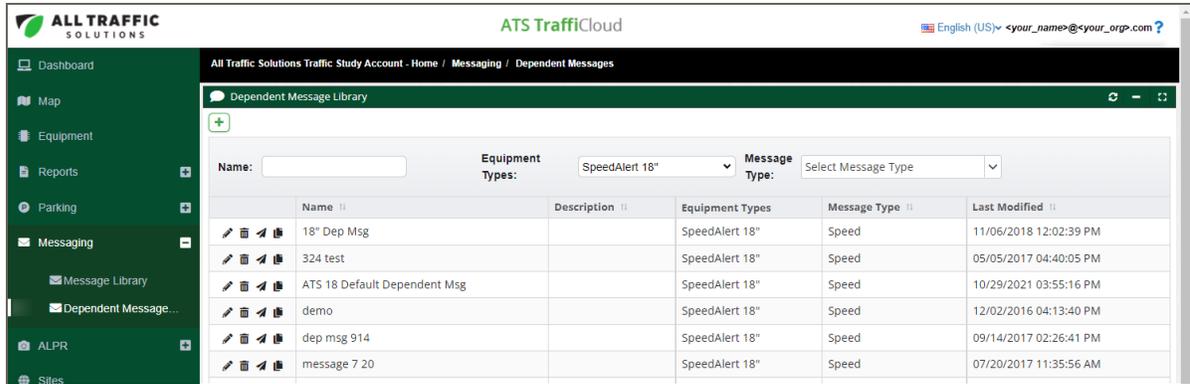
Messaging: An overview	48
Creating a Dependent Message	51
Creating a custom message	54
Copying messages	56
Sending a message to one or more signs	58
Editing a message	59
Using the drawing tool	61

Messaging: An overview

You typically set up initial messaging for your sign using the defaults in the TrafficCloud **Equipment** tab, but the **Messaging** tab gives you more capabilities for creating new messages, sending messages to multiple signs, editing messages, and using the drawing tool.

The Dependent Message Library

TrafficCloud Dependent Messages is the go to sign mode for the SpeedAlert Radar Message Signs, displaying messages specific to vehicle speed (“Slow Down”, “Too Fast!”, “Have a Nice Day”), or dedicated messages (“Flood Warning”, “Amber Alert”).



[Figure 39] Dependent Message Library

The **Dependent Message** Library is where TrafficCloud stores any new Dependent Messages you create or copy from the **Equipment > Messages** page.

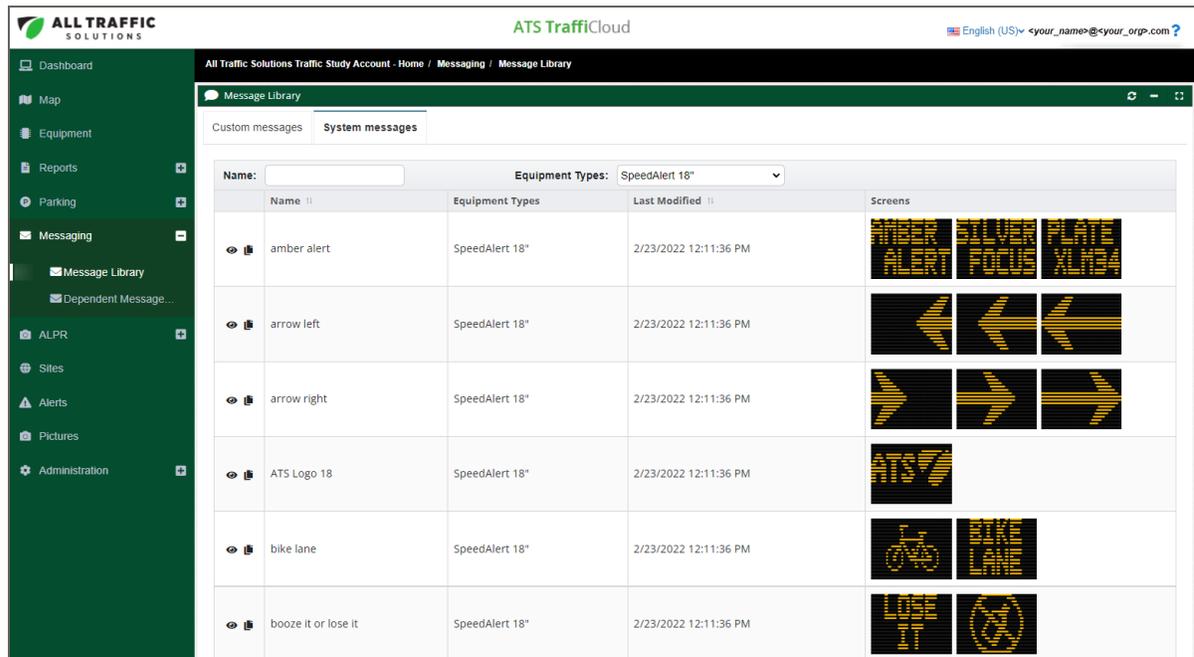
You create new Dependent Messages, by clicking the plus button  at the top of the page. See *Creating a Dependent Message* on page 51.

The Message Library

The **Message Library** includes the **Custom Messages** and **System Messages** tabs.

The Message Library > System messages tab

The TraffiCloud **Message Library > System messages** tab stores system messages, which are the default single messages available for use.



[Figure 40] The Message Library > System messages

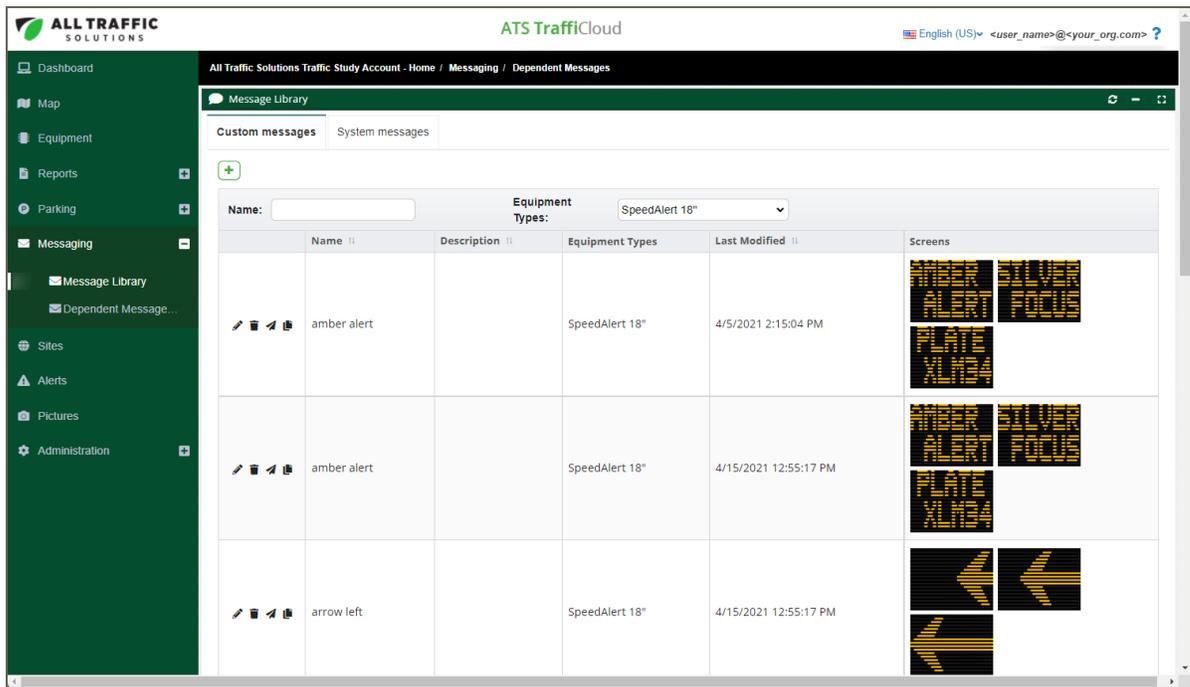
You can do the following in the **System messages** tab:

- » click the **Copy** icon  to copy a system message to the **Custom** tab, where you can send it to your sign,
- » view existing messages,
- » click the **Preview** icon  to view the detailed settings and screens of a message.

See *Creating a custom message* on page 54.

The Message Library > Custom messages tab

The TrafficCloud **Message Library > Custom messages** tab stores custom messages, which are new single messages that users have created for your account. See *Creating a custom message* on page 54.



[Figure 41] The Message Library > Custom messages

You can do the following on the **Custom messages** tab:

- » send messages to your signs,
- » create new custom messages by clicking the plus button  at the top of the page,
- » edit messages,
- » view existing messages (you can filter the list by **Name** or **Equipment Types**)
- » copy messages, and
- » delete messages.

Use the following table for details about each of the tasks you can perform:

Icon	Name	What you can do
	New Message icon	Opens the New Message window, where you can create your own brand new messages. See <i>Creating a custom message</i> on page 54.
	Edit	Opens the Edit Message page, where you can customize messages. See <i>Editing a message</i> on page 59.
	Delete	Opens the Confirm Message Deletion window, where you can delete the message.

Icon	Name	What you can do																					
	Bulk Message	<p>Opens the Bulk Message window, where you can send and activate the selected message on one or more signs. Select the signs where you want to activate the message, and click the Send button. For example:</p> <div data-bbox="431 352 1451 667" style="border: 1px solid gray; padding: 5px;"> <p>Bulk Message ×</p> <div style="text-align: center; margin-bottom: 10px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th><input checked="" type="checkbox"/></th> <th>Nickname</th> <th>Serial Number</th> <th>Last Communication</th> <th>Est. Next Communication</th> <th>Assigned Site</th> <th>Current Message</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>ats001</td> <td>18970713000130</td> <td>2022-06-17T21:01:46.544Z</td> <td>2022-06-17T21:16:46.544Z</td> <td>Church - Branch Road</td> <td>click it ticket</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>ats1F03</td> <td>189736140201F03</td> <td>2021-11-04T14:39:35.000Z</td> <td></td> <td>ATS State College facility</td> <td>Wrong Way</td> </tr> </tbody> </table> <div style="text-align: right; margin-top: 10px;"> CANCEL SEND </div> </div> <p>See <i>Sending a message to one or more signs</i> on page 58.</p>	<input checked="" type="checkbox"/>	Nickname	Serial Number	Last Communication	Est. Next Communication	Assigned Site	Current Message	<input checked="" type="checkbox"/>	ats001	18970713000130	2022-06-17T21:01:46.544Z	2022-06-17T21:16:46.544Z	Church - Branch Road	click it ticket	<input checked="" type="checkbox"/>	ats1F03	189736140201F03	2021-11-04T14:39:35.000Z		ATS State College facility	Wrong Way
<input checked="" type="checkbox"/>	Nickname	Serial Number	Last Communication	Est. Next Communication	Assigned Site	Current Message																	
<input checked="" type="checkbox"/>	ats001	18970713000130	2022-06-17T21:01:46.544Z	2022-06-17T21:16:46.544Z	Church - Branch Road	click it ticket																	
<input checked="" type="checkbox"/>	ats1F03	189736140201F03	2021-11-04T14:39:35.000Z		ATS State College facility	Wrong Way																	
	Copy Message	Instantly creates a copy of your message in the Custom tab.																					

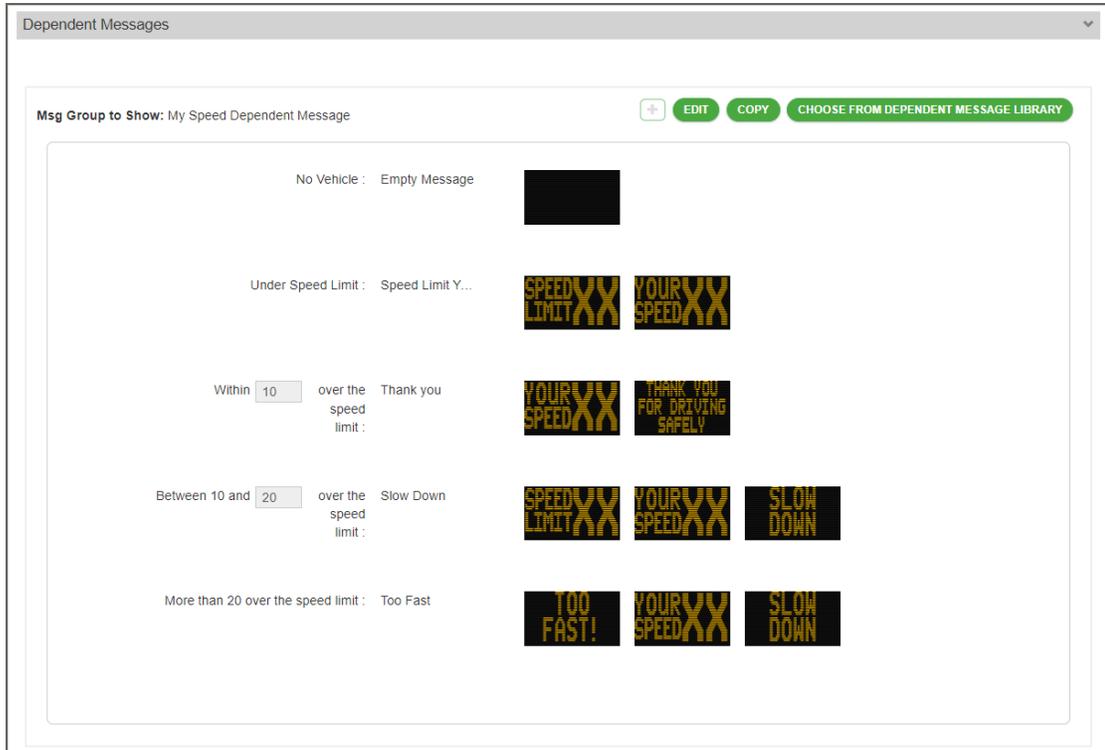
Creating a Dependent Message

Use this procedure to create a new **Dependent Message**. A default Dependent Message is included in the TrafficCloud **Equipment** page for your sign, but if you need to create a new one, the fastest way is to copy the default Dependent Message to the **Dependent Message Library** and then to modify it there, as described in this procedure.

A Dependent Message is a group of regular messages, where each message displayed on the sign is "dependent" on the radar input gathered as a vehicle approaches. Depending on the speed the radar is reading, a different message will be displayed. A message sign can only display one dependent message at a time.

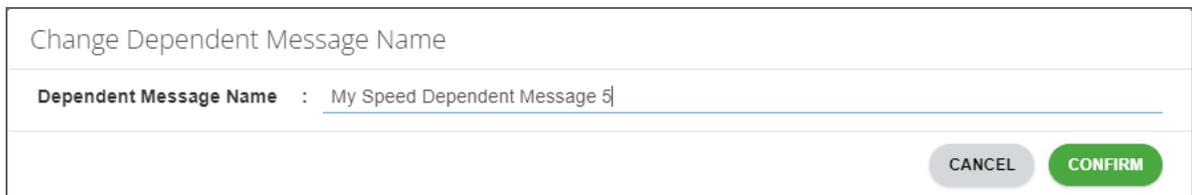
To copy a Dependent Message:

1. On the navigation menu, click **Equipment**. The **Equipment** page opens, listing all of the signs and devices in your organization.
2. Click the **Pencil** icon  next to the sign you want to set up messaging for. The **Equipment** page opens for the sign.
3. In the **General** section, click the **Sign Mode** drop-down list and select **Dependent Messages**.
4. Scroll down to **Dependent Messages** to display the default Dependent Message.



[Figure 42] The Default Dependent Message

5. Click **Copy**. The **Change Dependent Message Name** window opens.



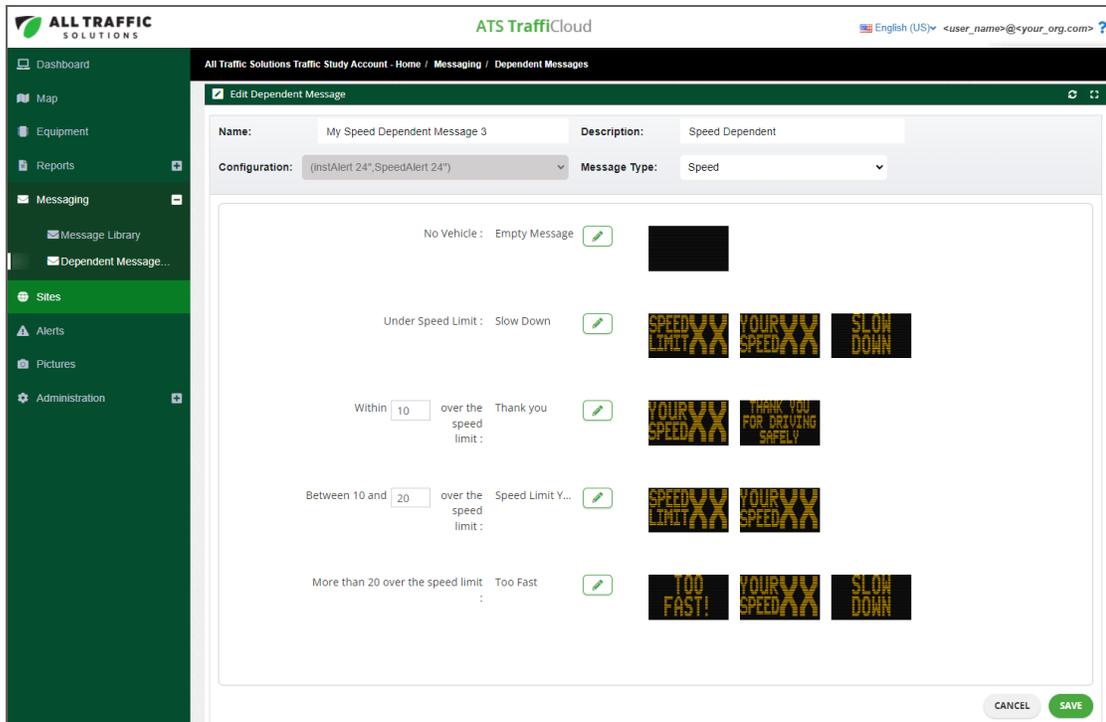
[Figure 43] The Change Dependent Message Name window

6. Change the message name, and click the **Confirm** button. A confirmation popup appears, and TraffiCloud copies the message to the **Dependent Message Library**.

To create your own Dependent Message from a copy:

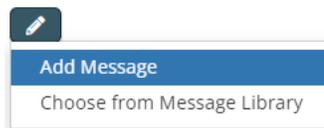
1. On the navigation menu, click **Messaging > Dependent Message Library**. The **Dependent Message Library** page opens.
2. Click the **Pencil** icon  next to the **Dependent Message** you copied in the previous steps of this procedure.

 **TIP:** Click the **Copy** icon  on the **Dependent Message Library** page if you want to make a copy of your copy before you begin.



[Figure 44] The Edit Dependent Message page

- On the **Edit Dependent Message** page, click the **Pencil** icon  next to any of the message screens that you want to update. The **Edit** menu displays.



[Figure 45] The Dependent Messages page > Edit menu

- Do either of the following:
 - Click **Add Message** if you want to create a new message. See *Creating a custom message* on the next page.

 **TIP:** The **Your Speed** and **Speed Limit** templates are particularly useful in creating radar-based messages, because they include the layout shown here and placeholders for speeds.



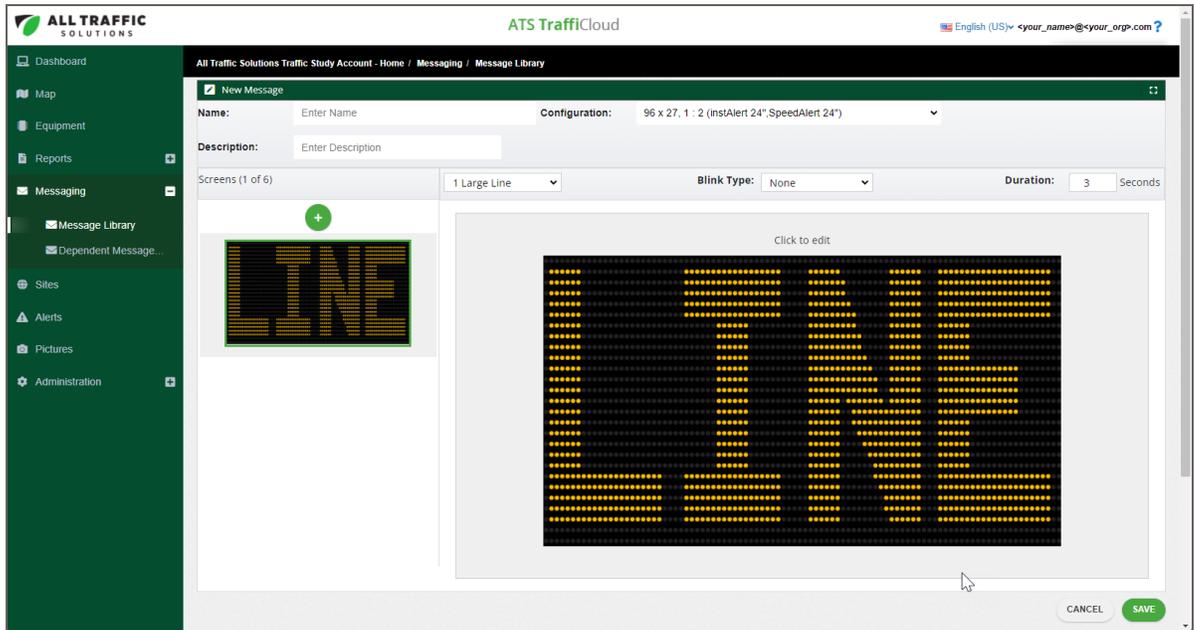
- Click **Choose from Message Library** to choose an existing message. A popup window opens, where you can select any message from the Message Library. Click a message to copy it immediately into your Dependent Message.
- Click the **Save** button to save your work for any of the five messages that you edit.
 - Click **Save** again on the **Edit Dependent Message** page.

Creating a custom message

Use this procedure to create a custom message, an new message for the **Messaging** tab. Each message can include up to six screens.

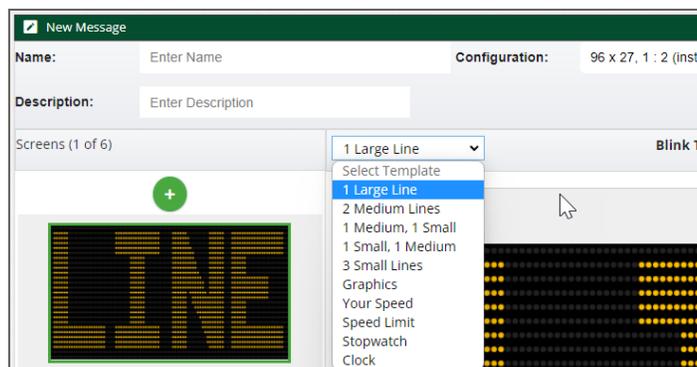
To create a custom message:

1. On the navigation menu, click **Messaging**. The **Message Library** page opens.
2. Click the **Plus** button  at the top of the page. The **New Message** page opens.



[Figure 46] The New Message page

3. Enter a **Name** and optionally a **Description** for the message and, if you have multiple signs in various sizes, choose your **Configuration**.
4. Do either of the following, as required:
 - Click inside the default message screen and start typing. The default messages are **1 Large Line** of up to four letters or digits.
 - Click the **Templates** drop-down list and select another message layout.



[Figure 47] New Message > Templates drop-down

 **TIP:** The **Your Speed** and **Speed Limit** templates are particularly useful in creating radar-based messages, because they include the layout shown here and placeholders for speeds.



5. Choose from the available template options:

Sign type	Line sizes and combinations	Characters per line
SpeedAlert 24	1 large line	Up to four characters.
	2 medium lines	Two lines of up to eight characters each.
	1 medium, 1 small line	One line of up to eight characters and a second line of up to 12 characters.
	1 small, 1 medium	A first line up to 12 characters and a second line of up to 8 characters.
	3 small lines	Three lines of up to 12 characters each.
SpeedAlert 18	1 large line	One line of up to four characters.
	2 medium lines	Two medium lines of up to six characters each.

6. Do any of the following:

- Click the **Plus** sign  to add message screens. TraffiCloud adds the new screen after the currently selected screen.
- Click **Templates > Graphics** to use the drawing tool (see *Using the drawing tool* on page 61).
- Choose a **Blink Type: None, Blinking, or Inverting**.
- If you choose, **Blinking** or **Inverting**, choose a **Blink Rate: Slow** (the default), **Medium**, or **Fast**.
- Set a blink **Duration**, from 1-5 seconds. Keep in mind the average traffic speed and the number of screens you plan to display.

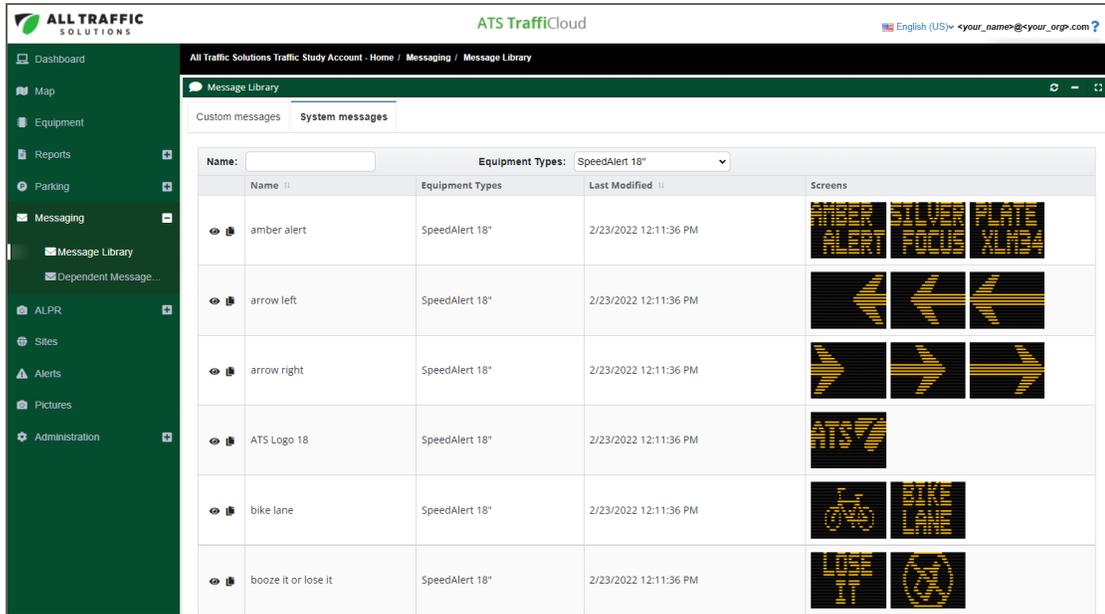
7. Click the **Save** button to save your work.

Copying messages

Use the procedures in this topic for help with copying messages in the **Message Library**. Once you have copied a message from the **System messages** tab to the **Custom messages** tab, you can use it for your sign as needed. See *Sending a message to one or more signs* on page 58.

To copy a message from the System messages tab:

1. On the navigation menu, click **Messaging**. The **Message Library** page opens.
2. Click the **System messages** tab.



[Figure 48] The Message Library > System messages

3. On the **System messages** tab, locate the message you want to copy. You can filter the list by typing in the **Name** box or selecting it from the **Equipment Type** drop-down list.
4. Click the **View** icon next to any message to view the message and its settings.
5. Click the **Copy Message** icon . The **Change Message Name** window opens.
6. Enter a new name for the message, for example:

Change Message Name

Current Name : amber alert

New Name : amber alert 2

CANCEL
CONFIRM

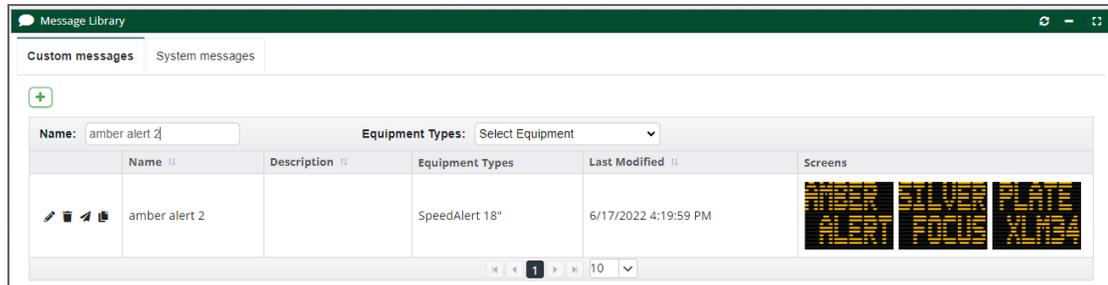
[Figure 49] The Change Message Name window

- Click the **Confirm** button. A confirmation popup displays.



TIP: To hold a confirmation on screen, click on it when it pops up.

- Click the **Custom messages** tab to view the copied message, which you'll now be able to use for your sign. You can filter the list by message name and equipment. See *Sending a message to one or more signs* on the next page.



[Figure 50] View your new custom message

To copy messages from the Custom messages tab or Dependent Messages Library page:

- In the **Custom messages** tab or **Dependent Messages Library** page, click the **Copy Message** icon  next to any message you want to copy. The **Change Message Name** window opens. See [Figure 49] on the previous page.
- Enter a new name for the message. You must enter a unique name, and apart from ampersand (&), special characters and punctuation marks are not permitted.
- Click the **Confirm** button.

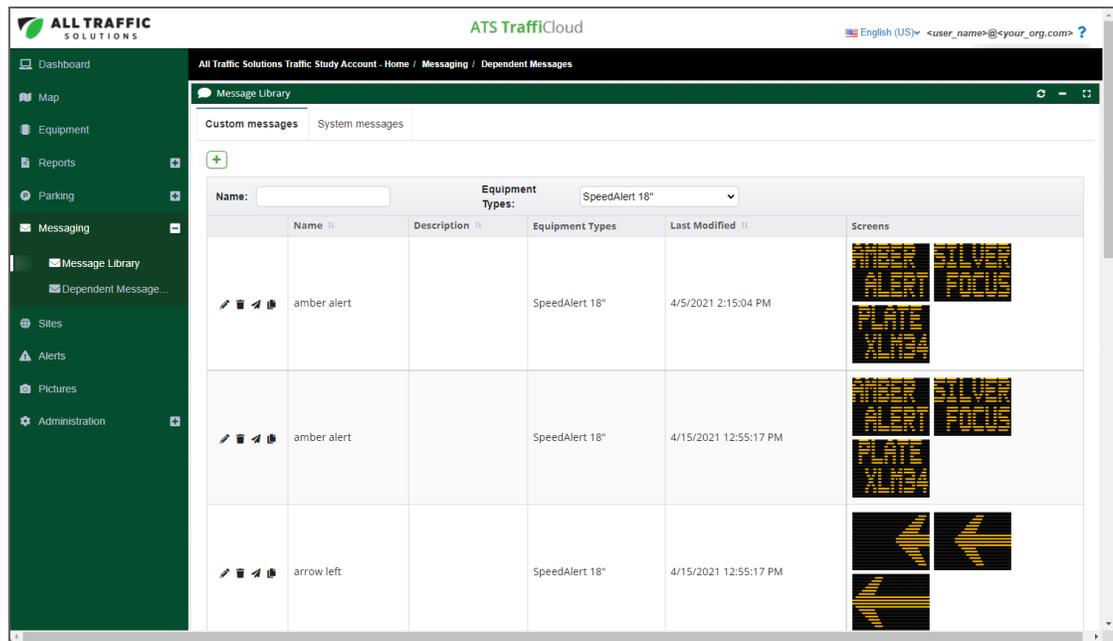
Sending a message to one or more signs

Use this procedure to send and activate a message to one or more signs associated with your account. The **Bulk Message** command replaces the InstaMessage on the sign, and displays it the next time the sign calls in, within 15 minutes.

 **NOTE:** You can't delete the InstaMessage directly. If you change your mind and want to replace it, repeat steps 2-5 below.

To send a message to one or more signs:

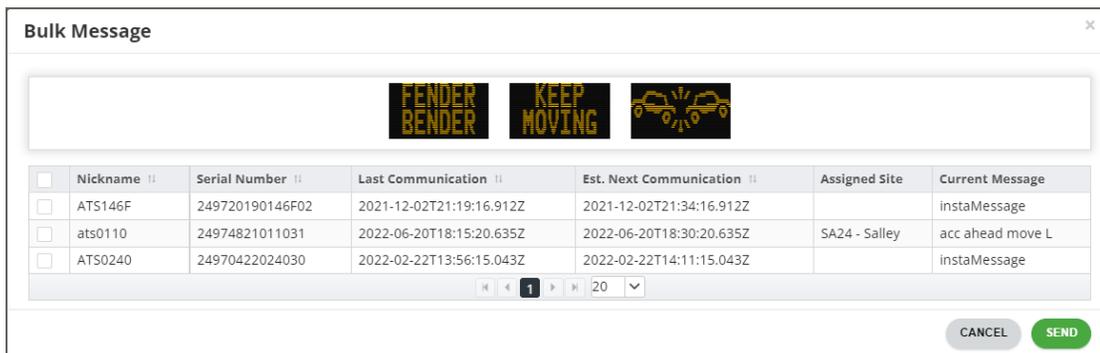
1. On the navigation menu, click **Messaging**. The **Message Library** page opens to the **Custom messages** tab.



[Figure 51] The Message Library > Custom messages

2. Locate the message you want to send and activate. You can filter the list by typing in the **Name** box or by selecting your sign type in the **Equipment Type** drop-down list.

- Click the **Bulk Message**  icon. The **Bulk Message** window opens. Only signs compatible with the message type display in the list. For example, when you bulk send a message designed for SpeedAlert 24 signs, SpeedAlert 18s will not display in the list. For example,



[Figure 52] The Bulk Message window

- Select the signs you want to send the message to. If you want to send the message to all of your signs, click the check box at the top of the first column.
- Click the **Send** button. A confirmation popup displays.



- Go to the **Equipment** tab to view the copied message. The copied message will replace the current InstaMessage and upload to the sign at the next communication interval, becoming the active message on the sign.

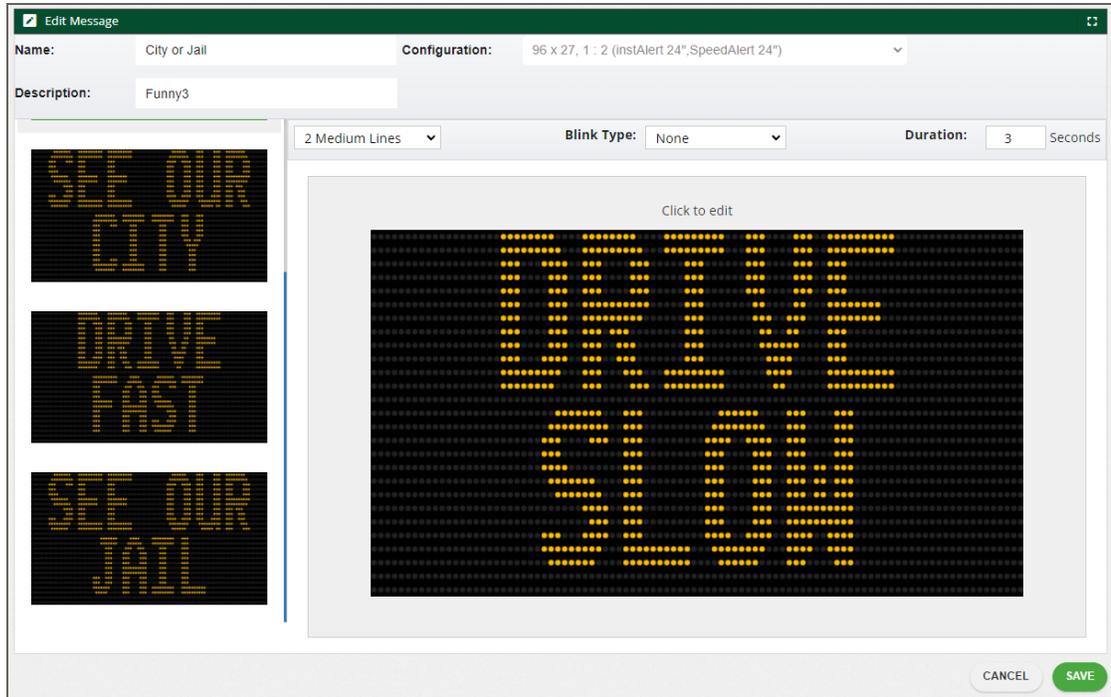
Editing a message

The TraffiCloud **Messaging** and **Equipment** pages provide the **Edit Message** screen, where you can:

- » Add, revise, or delete message screens in a message,
- » Select a template, blink type, and duration for the display of each screen,
- » Using the **Graphics** template, draw and erase pixels using the mouse,
- » Edit the name or description of the message.

To edit a message:

- On the navigation menu, click the **Messaging** tab.
- Click either **Message Library** or **Dependent Messages**.
- In the table, click the **Pencil** icon  at the left side of the row with the message you want to edit. The **Edit Message** screen opens:



[Figure 53] The Edit Message screen

4. Click inside any message to edit the text. You can delete existing characters and type new ones, change the template, or change the justification. Only template messages are not editable.

Use this table for help with the **Edit Message** screen options:

Setting	Description
Name	Displays the name of the message screen. You can change it as needed.
Configuration	Displays the sign dimensions, measured in pixels, such as "96 x 27" , and the sign type. The Configuration drop-down list is only active if you have more than one size of messaging sign.
Description	Optionally, enter a description for the message.
Screens	Displays the existing screens. Click the + button  to add screens. TraffiCloud adds the new screen after the currently selected screen. You can also click the Delete icon  to permanently delete a message screen.

Setting	Description																			
Select Template <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> 1 Large Line ▼ </div> <div style="border-top: 1px solid #ccc; padding-top: 2px;"> Select Template 1 Large Line 2 Medium Lines 1 Medium, 1 Small 1 Small, 1 Medium 3 Small Lines Graphics Your Speed Speed Limit Stopwatch Clock </div> </div>	Displays the template options for the current sign. <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sign type</th> <th>Line sizes and combinations</th> <th>Characters per line</th> </tr> </thead> <tbody> <tr> <td rowspan="5">SpeedAlert 24</td> <td>1 large line</td> <td>Up to four characters.</td> </tr> <tr> <td>2 medium lines</td> <td>Two lines of up to eight characters each.</td> </tr> <tr> <td>1 medium, 1 small line</td> <td>One line of up to eight characters and a second line of up to 12 characters.</td> </tr> <tr> <td>1 small, 1 medium</td> <td>A first line up to 12 characters and a second line of up to 8 characters.</td> </tr> <tr> <td>3 small lines</td> <td>Three lines of up to 12 characters each.</td> </tr> <tr> <td rowspan="2">SpeedAlert 18</td> <td>1 large line</td> <td>One line of up to four characters.</td> </tr> <tr> <td>2 medium lines</td> <td>Two medium lines of up to six characters each.</td> </tr> </tbody> </table>	Sign type	Line sizes and combinations	Characters per line	SpeedAlert 24	1 large line	Up to four characters.	2 medium lines	Two lines of up to eight characters each.	1 medium, 1 small line	One line of up to eight characters and a second line of up to 12 characters.	1 small, 1 medium	A first line up to 12 characters and a second line of up to 8 characters.	3 small lines	Three lines of up to 12 characters each.	SpeedAlert 18	1 large line	One line of up to four characters.	2 medium lines	Two medium lines of up to six characters each.
Sign type	Line sizes and combinations	Characters per line																		
SpeedAlert 24	1 large line	Up to four characters.																		
	2 medium lines	Two lines of up to eight characters each.																		
	1 medium, 1 small line	One line of up to eight characters and a second line of up to 12 characters.																		
	1 small, 1 medium	A first line up to 12 characters and a second line of up to 8 characters.																		
	3 small lines	Three lines of up to 12 characters each.																		
SpeedAlert 18	1 large line	One line of up to four characters.																		
	2 medium lines	Two medium lines of up to six characters each.																		
Blink Type	The options are: <ul style="list-style-type: none"> • None, • Blinking, and • Inverting, which swaps the pixels and blank space used for the lettering and background. 																			
Blink Rate	If you choose Blinking or Inverting , choose a Blink Rate : Slow (the default), Medium , or Fast .																			
Duration	Sets the duration in seconds, from 1 to 5, of the display of each message screen. Keep in mind the average traffic speed and the number of screens you plan to display.																			
Draw/Erase	When you select the Graphics template, the slider alternates between drawing and erasing pixels. See <i>Using the drawing tool</i> below.																			

5. After you've made your changes click the **Save All Equipment Settings** button.

Using the drawing tool

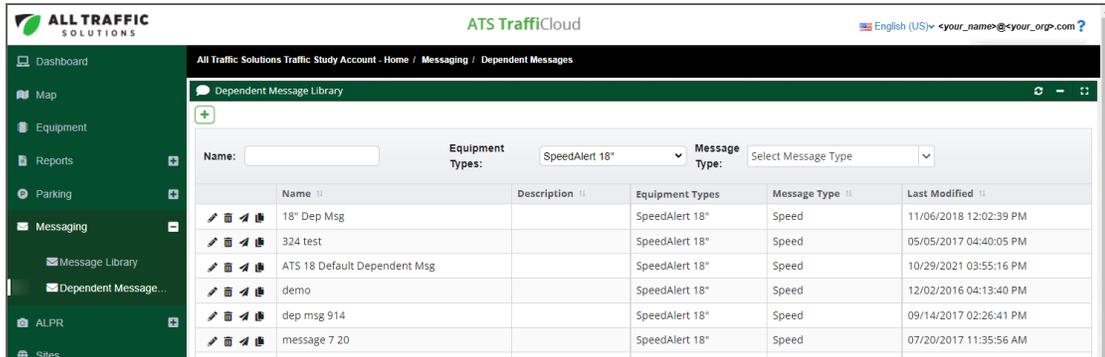
In addition to adding messages using text, TraffiCloud provides a drawing tool you can use to add pixel-based figures to your messages. You can add a new blank message screen to draw on or draw on an existing message.

See also

- » *Enabling messaging for your sign* on page 26
- » *Creating a custom message* on page 54

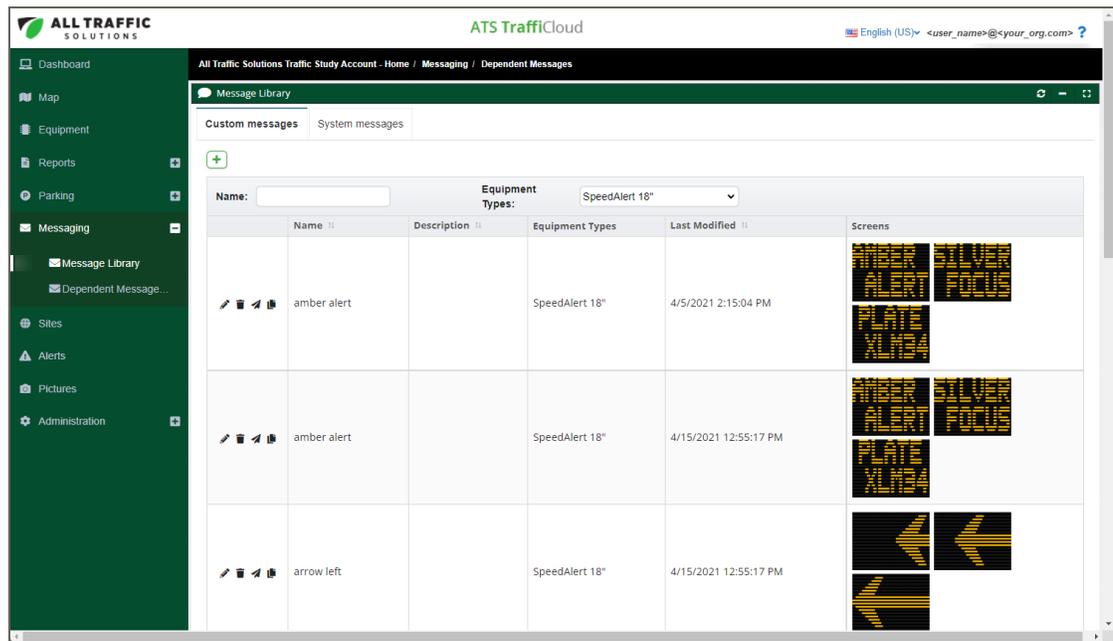
To use the drawing tool:

1. On the navigation menu, do one of the following:
 - Click **Messaging > Dependent Messages**. The **Dependent Message Library** page opens.



[Figure 54] The Dependent Message Library

- Click **Messaging**. The **Message Library** page opens to the **Custom messages** tab.

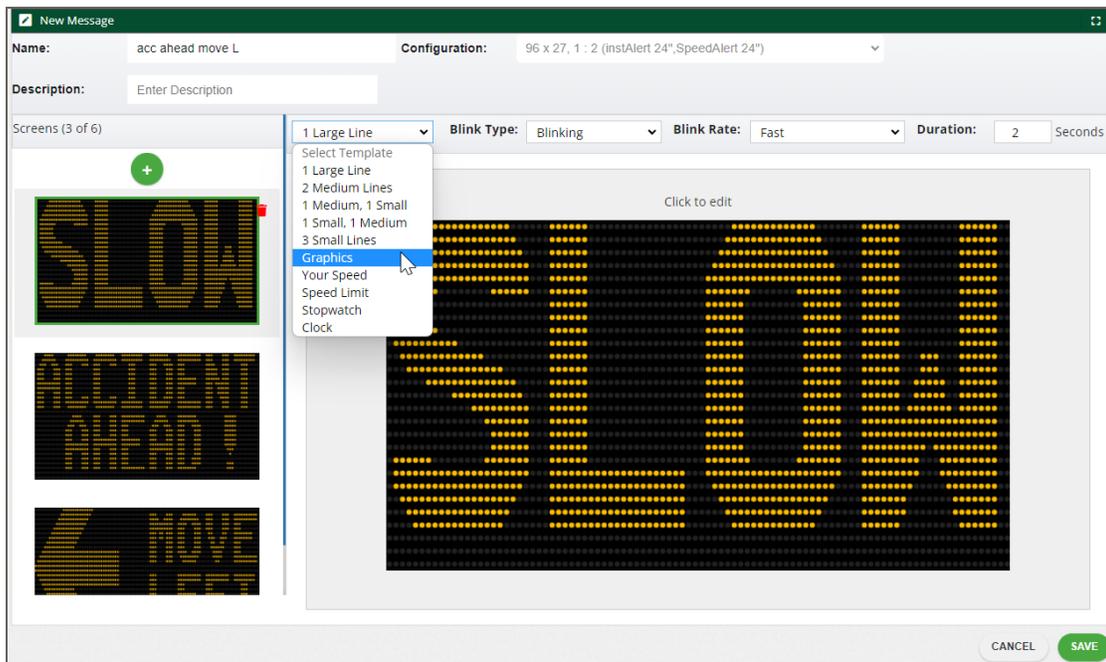


[Figure 55] The Message Library > Custom messages

 **TIP:** You can also use the drawing tool on the **Equipment** page. Go to the **Messages** section for your sign.

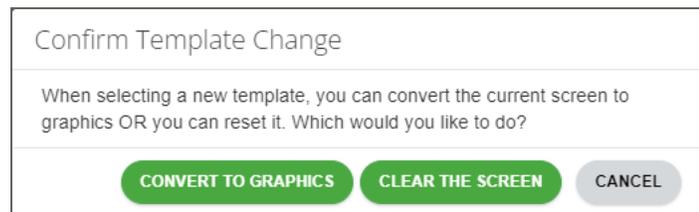
2. Click the **Plus** button  at the top of the page. The **New Message** page opens.

- Click the templates drop-down menu, and select **Graphics**, as shown:



[Figure 56] The New Message window > Select Graphics

- The **Confirm Template Change** window opens.

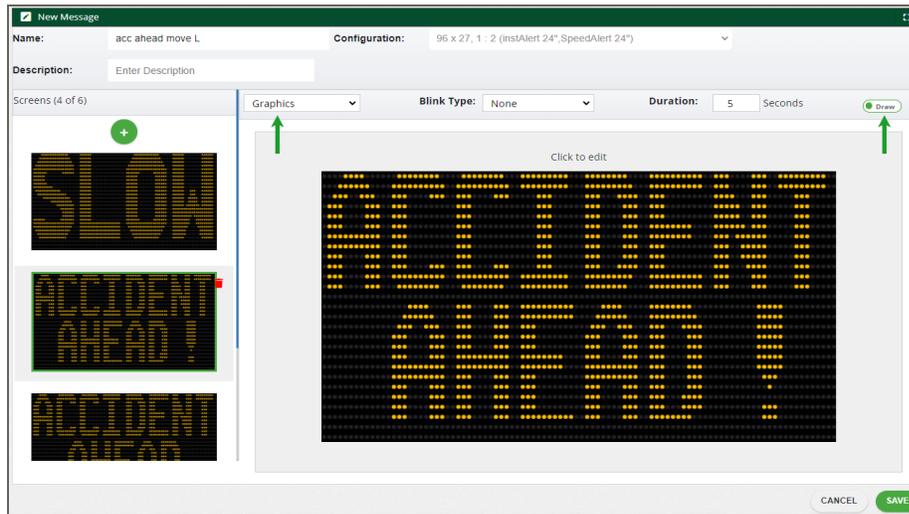


[Figure 57] Confirm Template Change window

- Choose either of these options for using the drawing tool. TrafficCloud displays the window on a per-message screen basis, but remembers your choice.

Setting	What it does
Convert to Graphics	Enables drawing with pixels on the selected screen. Click Draw to add pixels or Erase to remove anything from the screen. Graphics can't be converted back to text.
Clear the Screen	Resets the screen to a blank, so that you can draw anywhere on the screen.

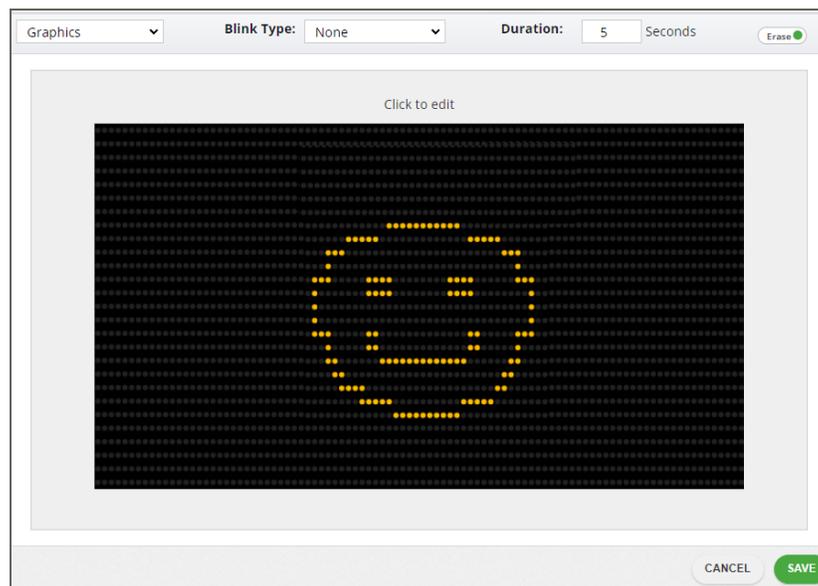
As long as you are using the **Graphics** template, the **Draw** slider is active at the top right of the page, as shown here:



[Figure 58] The New Message window > Drawing mode

6. Do one of the following:

- To update an existing screen, select the message, and start drawing by clicking the mouse. To erase any pixels, click the **Draw** slider to toggle it to **Erase** mode, and click each pixel you want to erase. In the example in [Figure 58] above, a custom exclamation mark was added to the existing message screen using the drawing tool.
- To add a new screen, click the **Add** button **+** to add a new message screen to draw on, and draw and erase pixels as needed. For example:



[Figure 59] Freehand drawing example

 **TIP:** You can draw or erase a pixel at a time, or drag with the mouse along the screen to design a string of lights.

7. After you've made your changes click the **Save** button.
8. If you are on the **Equipment** page, also click the **Save All Equipment Settings** button.

Chapter 6

Generating Reports

TraffiCloud **Reports** feature a variety of preset reports you can easily run based on data gathered by Web-enabled radar signs. With TraffiCloud reports at your fingertips, you can quickly understand the driving patterns and issues on a given street, intersection, or your community as a whole.

ATS data-enabled radar display signs collect report-ready data as vehicles pass by during a given time period and automatically upload it remotely and securely to TraffiCloud, so that you don't have to send someone to the sign location to perform a manual download. The **Reports** feature analyzes and presents the data in a variety of useful ways to help with traffic planning and enforcement.

Every TraffiCloud **Reports** page includes a place to select the Site you want reporting on, a calendar to select the date range, options for report selection and configuration, and for setting up and managing report subscriptions. See *Report configuration details* on page 70.

Topics in this chapter:

Report configuration details	70
Compliance & Risk reports	72
Enforcement Priorities reports	74
Subscribing to Reports	76
Managing report subscriptions	79
Printing reports	82

TraffiCloud subscribers have access to Premium Reports, and all ATS device owners have access to Standard Reports. Here's a quick summary of the seven reports you can generate:

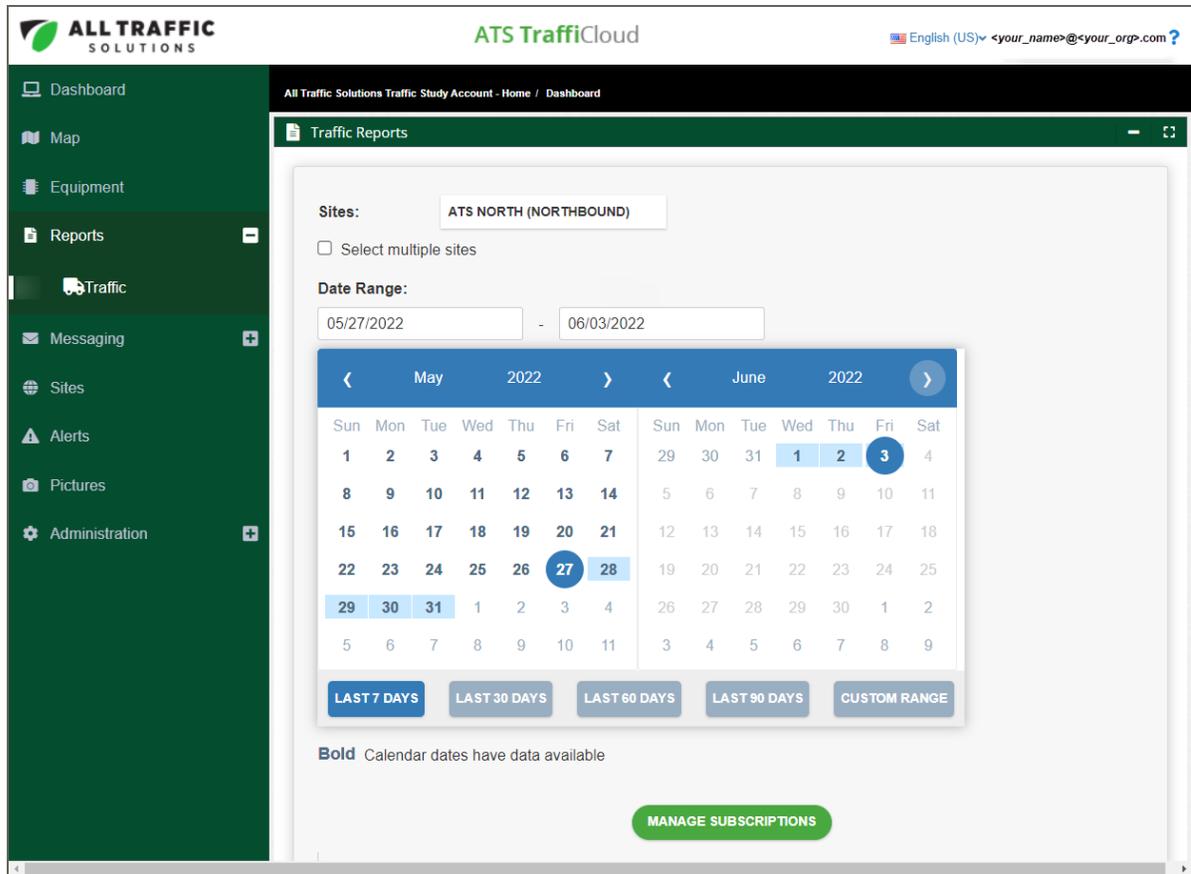
Premium Reports		Standard Reports	
Compliance & Risk	Identifies the volume of compliant drivers vs. low, medium, and high risk drivers.	Volume by Time	Provides traffic counts by hour and date.
Speed Effectiveness	Measures the effectiveness of signs in voluntary speed reduction, comparing speed at first detection by the sign to when the vehicle passes the sign.	Volume by Speed	Displays vehicles counted in 5-mph increments.
Extended Speed Summary	Provides a concise summary of speeds at a given Site.	Raw Data Export	Generates data for all traffic by date, including speed measurements (maximum, minimum, mean, 85%, median, and pace speed).
Enforcement Priorities	Analyzes and compares traffic data, listing time periods at Sites with the worst violation numbers.		

The most important reports as you get started analyzing your traffic data are the **Compliance & Risk** reports and the **Enforcement Priorities** reports.

You can also set up a **Traffic Volume** widget in the **Dashboard**. See *Setting up a Traffic Volume Dashboard widget* on page 103.

To generate reports:

1. On the navigation menu, click **Reports**. The **Traffic Reports** page opens.
2. Click in the **Sites** box and select your Site from the drop-down. You can filter the list by typing Site names and then selecting your Site.
3. Select the dates for your report. See *Report configuration details* on page 70.
4. Click the **Select Report** drop-down, and select a report type. See *The Reports page* on the facing page for an example of what you'll see with a **Compliance & Risk** report selected, which includes **Violation Threshold**, set to the default of 10 mph above the speed limit, and **High Threshold**, set to the default of 20 mph above the speed limit.



[Figure 60] The Reports page

5. Click the **Generate** button to create a report for the selected date range. Your report displays below the configuration section.

For details and examples, see

- » *Compliance & Risk reports* on page 72
- » *Enforcement Priorities reports* on page 74

Report configuration details

The following table provides details about the **Reports** page fields and how to use them:

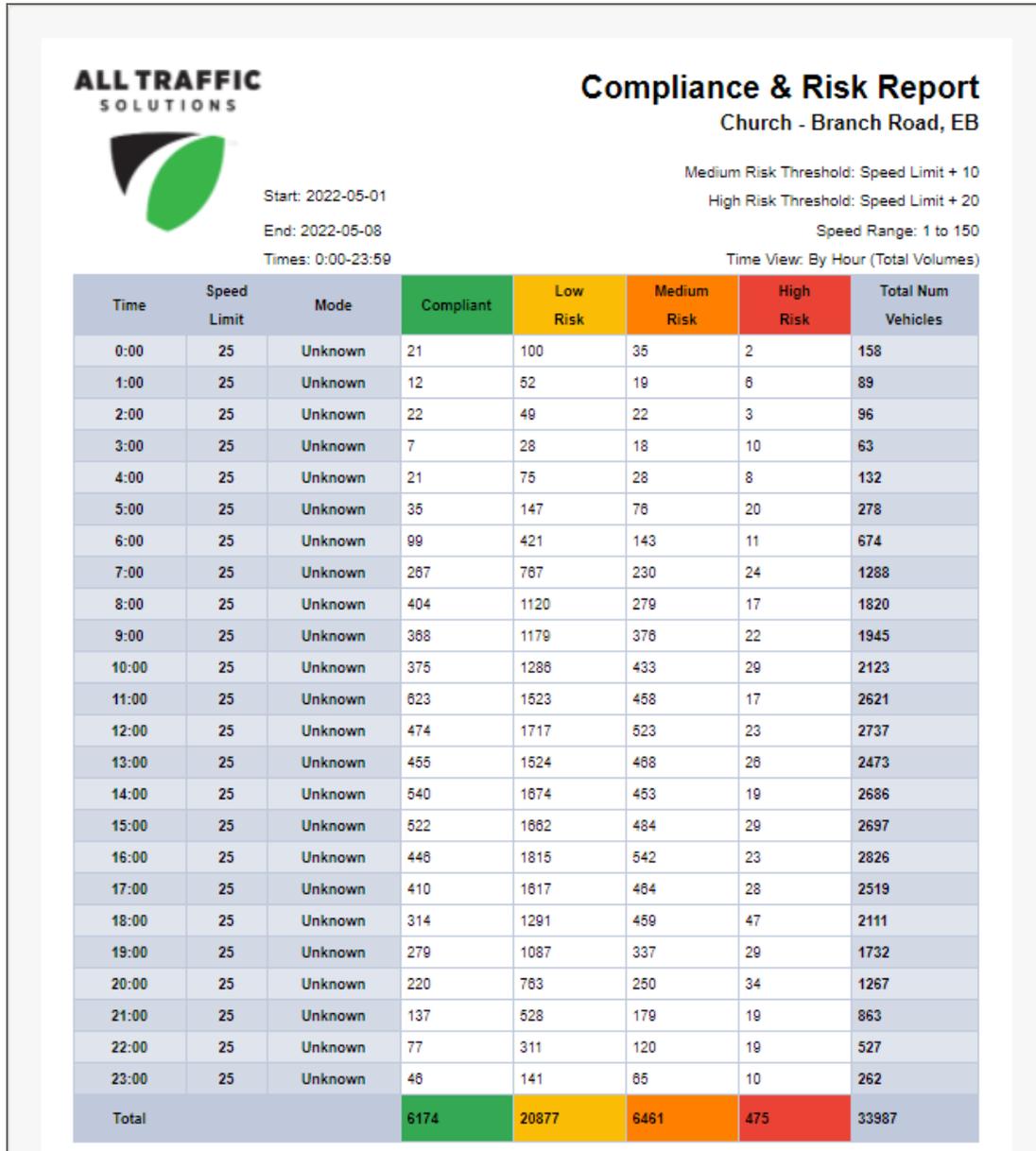
Setting	What you can do
Sites	Select a Site from your list. A report must have a Site assigned before you can generate it. See <i>Assigning a Site to your sign</i> on page 20.
Select multiple sites	Click the checkbox to enable reporting about multiple Sites. Only the Enforcement Priorities report is optimized for multiple Sites. Only the Enforcement Priorities report and the County and Classify report, for StatTrak and Speedlane devices, are optimized for multiple Sites.
Date Range	<p>Reports also require a date range. You can use the buttons for the last seven, 30, 60, or 90 days, or even enter dates manually, using the format MM/DD/YYYY.</p> <p>To select from the calendar:</p> <ol style="list-style-type: none"> 1. Click the Custom Range button. 2. Click the start date. 3. Move the mouse pointer to the end date. 4. Click the end date. <p>NOTE: To view premium reports, you must select dates when your TrafficCloud subscription has been active.</p>
Report Configuration	
Report Type	Use the default Standard report type. If you also have a StatTrak or Speedlane device, you can use the Count and Classify report.
Select Report	Select one of the available report types.
Ranking	<p>For Enforcement Priorities reports, you can choose between</p> <ul style="list-style-type: none"> • 85% Speed: Ranks the results based on the maximum speed that 85% of drivers will not exceed on a given road, even if there were no speed limits, stop signs, or traffic signals. This is the default selection. • Speed and Volume: Ranks the results based on speed or volume of vehicles, or an average of both. You can move the slider from 0 to 100%. The default setting is 50%.
Bin Size	For Volume by Speed reports, sets the bin size for each increment in speed, measured in mph. The options are either 5 mph or 10 mph.
Time Interval	<p>Select the time interval for the report. For Compliance and Risk reports, you can choose by hour, half-hour, 15-minute intervals, or by day of the week, date, or week. The available options vary by report.</p> <p>Total Volumes</p> <p>You can choose between Total Volume, which is the total number of vehicles passing the sign during a given interval, and Total Average, which shows the average number of vehicles during a given interval.</p>

Setting	What you can do
Violation Threshold	Sets the speed in mph that will be considered a violation. The default is 10 mph above the speed limit, but you can change it before you generate the report (Premium feature).
High Threshold	Sets the speed in mph that will be defined as high risk. The default is 20 mph above the speed limit, but you can change it before you generate the report (Premium feature).
Minimum Hourly Vehicles	For Enforcement Priorities reports, sets the minimum number of vehicles to be detected per hour before a report is generated (Premium feature).
Data Filters	
Time of Day	Sets the time span during a given day for the report, with the default being 0:00 to 23:59.
Days of Week	Sets the days of the week for the report to gather data.
Speed	Sets the speed range the report should include.
Subscriptions	
Manage Subscriptions	Opens the Manage Subscriptions window, where you can adjust existing subscription settings.
Subscribe	Opens the Subscribe window, where you can create recurring automatic report generation. Give the report a name, select subscribers from other users on the TrafficCloud account, file type, and time of day and frequency of the report, which can be any or all of the days of the week or month.
Generating reports	
Generate	Generates the report – scroll down on the Reports page to view it. For details and examples, see <ul style="list-style-type: none"> • <i>Compliance & Risk reports</i> on the next page • <i>Enforcement Priorities reports</i> on page 74

Compliance & Risk reports

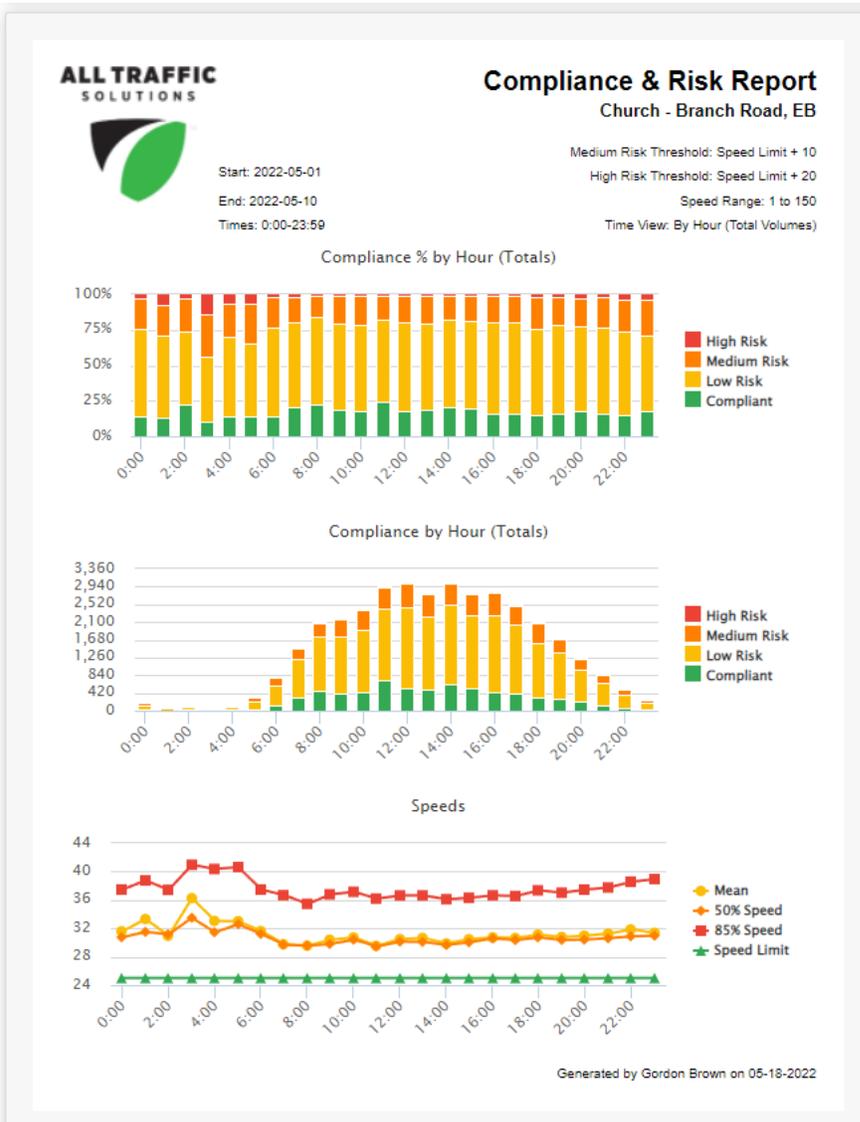
Compliance & Risk reports are one the two most useful reports to law enforcement authorities, along with Enforcement Priorities. Compliance & Risk reports identify the volume of compliant drivers vs. low, medium, and high risk drivers, displaying the results in two pages: in a table and in bar and line graphs.

Here's an example of the first page of the report, which provides a table averaging the results by the hour for a 24-hour period for the dates selected:



[Figure 61] Compliance & Risk report table

Here are the bar and line charts for the same report:

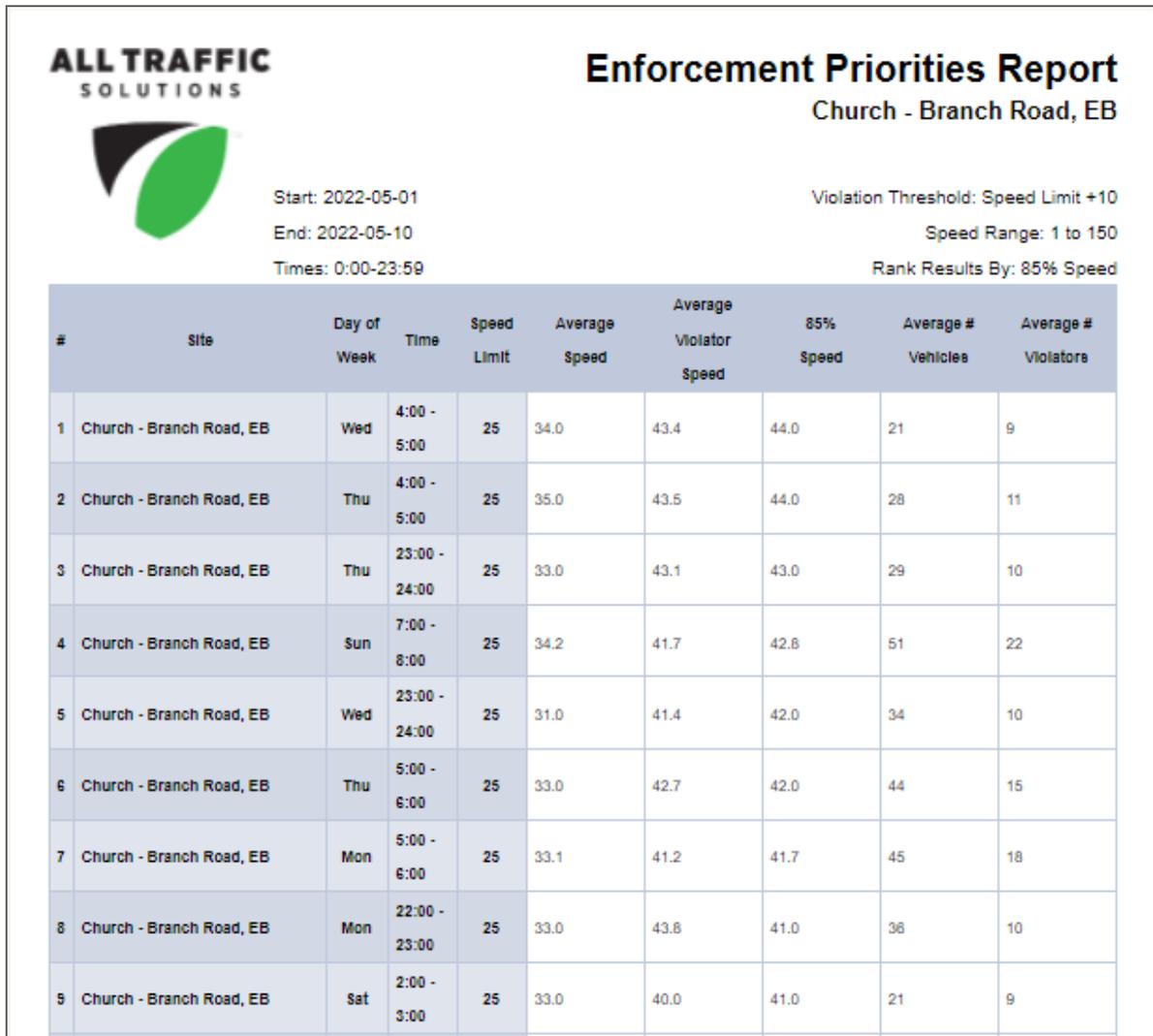


[Figure 62] Compliance & Risk reports charts

Enforcement Priorities reports

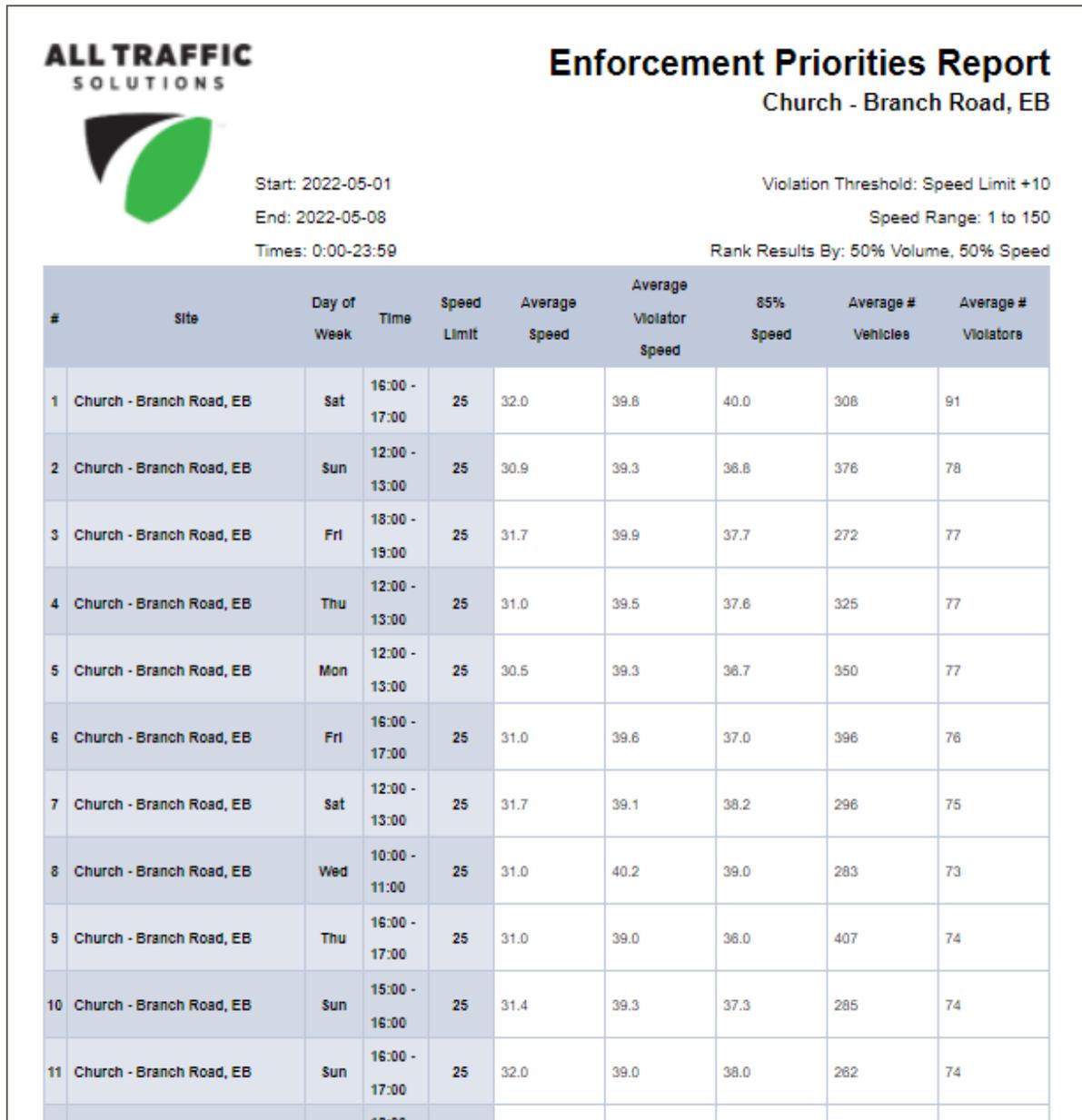
The **Enforcement Priorities** report is one the two most useful reports to law enforcement authorities, along with Compliance & Risk reports. The Enforcement Priorities report analyzes and compares traffic data, listing time periods at Sites with the worst violation numbers.

Here's an example of the **Enforcement Priorities > 85% Speed** report, which ranks the results based on the vehicles with the 85th percentile speed (the speed that 85% of vehicles will not exceed) for the dates selected:



[Figure 63] Enforcement Priorities > 85% Speed

And here is an example of the **Enforcement Priorities > Volume and Speed** report, set to 50%, which ranks the results based on a combination of the average number of vehicles (**Volume**) and the average number of violators (**Speed**).



[Figure 64] Enforcement Priorities > Volume and Speed

Subscribing to Reports

Once you have configured a report for a given Site, you can schedule TrafficCloud to send it to you or any other subscriber on the same TrafficCloud account via email.

You can also configure the report name, file format (pdf or csv), the time of day, days of the week, and even the dates when the report is sent out, or suspend a report subscription using the **Active** slider.

Subscribe

Sites: CHURCH - BRANCH ROAD (...)

Select multiple sites

Date Range:
05/23/2022 - 05/30/2022

< May 2022 > < June 2022 >

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7	29	30	31	1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31	1	2	3	4	26	27	28	29	30	1	2
5	6	7	8	9	10	11	3	4	5	6	7	8	9

LAST 7 DAYS
LAST 30 DAYS
LAST 60 DAYS
LAST 90 DAYS
CUSTOM RANGE

Bold Calendar dates have data available

REPORT CONFIGURATION

Report Type: Standard ▾

Select Report: Enforcement Priorities ▾

Ranking: 85% Speed ▾

Violation Threshold: 10 ▾

Minimum Hourly Vehicles: 20

DATA FILTERS

Time of Day: 0:00 ▾ to 23:59 ▾

Days of Week: 7 items selected ▾

Speed: 1 - 150

REPORT SUBSCRIPTION

Name: Church Branch Road - East

Subscribed Users: 1 users selected ▾

File Type: pdf ▾

Active: Yes

RECEIVE REPORT SUBSCRIPTION

Time of Day:

↑
12 : 00
↓
PM

Days of Week: 5 items selected ▾

Days of Month: 31 items selected ▾

CANCEL
SUBSCRIBE

[Figure 65] Reports > Subscribe window

To subscribe to reports:

1. On the navigation menu, click **Reports > Traffic**, and follow the steps in *Generating Reports* on page 67. Your report displays below the configuration section.
2. Once you have generated your report, click the **Subscribe** button.



[Figure 66] The Subscribe button

The **Subscribe** window opens, with the **Report Subscription** and **Receive Report Subscription** sections across the bottom.

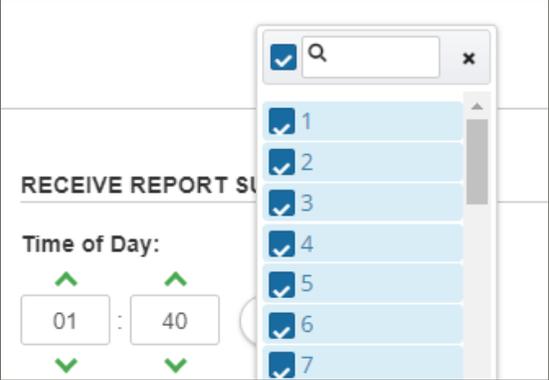
The screenshot shows the 'Subscribe' window with two main sections: 'REPORT SUBSCRIPTION' and 'RECEIVE REPORT SUBSCRIPTION'.
REPORT SUBSCRIPTION:
 - Name: Church Branch Road - East
 - Subscribed Users: 1 users selected
 - File Type: pdf
 - Active: Yes (radio button selected)
RECEIVE REPORT SUBSCRIPTION:
 - Time of Day: 12 : 00 PM
 - Days of Week: 5 items selected
 - Days of Month: 31 items selected
 At the bottom right, there are 'CANCEL' and 'SUBSCRIBE' buttons.

[Figure 67] Report Subscription settings

3. Use the following table for help with your selections:

Setting	What you can do
Report Subscription	
Name	Type a representative name for the report. Using the Site name and an abbreviation of the report type is useful, such as "Church Branch Road - Eastbound - C&R" (for Compliance and Risk). TrafficCloud displays the report subscription name in the subject line of the email it sends you.

Setting	What you can do
<p>Subscribed Users</p>	<p>Click in the drop-down list, and choose your email address or those of any TrafficCloud users you'd like to include in the report subscription.</p> <p>You can type the first few letters of any email address to filter the list. At least one user must be selected.</p> <div data-bbox="634 390 1187 638" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">REPORT SUBSCRIPTION</p> <p>Name: <input type="text" value="Church - Branch Road (Eas"/></p> <p>Subscribed Users: Choose ▾</p> <p>File Type: <input type="checkbox"/> <input type="text" value="mdemo"/> x</p> <p>Active: <input type="checkbox"/> mdemo@alltrafficsolutions.com</p> </div>
<p>File Type</p>	<p>Select the type of file to be sent: pdf or csv.</p>
<p>Active</p>	<p>Click the slider to select whether you want the report to be active: Yes or No.</p>
<p>Receive Report Subscription</p>	
<p>Time of Day</p>	<p>Set the time of day you'd like the reports to be sent. The time format is based on 12 hours, AM or PM.</p>
<p>Days of Week</p>	<p>Click in the drop-down list and choose the days of the week you'd like the reports to be sent on, for example Monday through Friday, as shown:</p> <div data-bbox="634 991 1187 1583" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">RECEIVE REPORT SUBSCRIPTION</p> <p>Time of Day: <input type="text" value="01"/> : <input type="text" value="40"/></p> <p>Days of Week: <input type="checkbox"/> Sunday <input checked="" type="checkbox"/> Monday <input checked="" type="checkbox"/> Tuesday <input checked="" type="checkbox"/> Wednesday <input checked="" type="checkbox"/> Thursday <input checked="" type="checkbox"/> Friday <input type="checkbox"/> Saturday</p> <p>Days of Month: Choose ▾</p> <p style="text-align: right; margin: 0;">5 items selected ▾</p> <p style="text-align: center; margin: 0;"> CANCEL SUBSCRIBE </p> </div>

Setting	What you can do
<p>Days of Month</p>	<p>Click in the drop-down list and choose the days of the month you'd like reports to be sent on. If you selected, Monday through Friday for the days of the week, and you select all of the days of the month (the top checkbox), TrafficCloud sends the reports on all of the days of the month, excluding Saturdays and Sundays.</p> 

4. After you have completed your selections, click the **Subscribe** button.

Managing report subscriptions

Use this procedure for help with managing report subscriptions.

REPORT SUBSCRIPTION

Name:

Subscribed Users: ▼

File Type: ▼

Active: Yes

RECEIVE REPORT SUBSCRIPTION

Time of Day: :

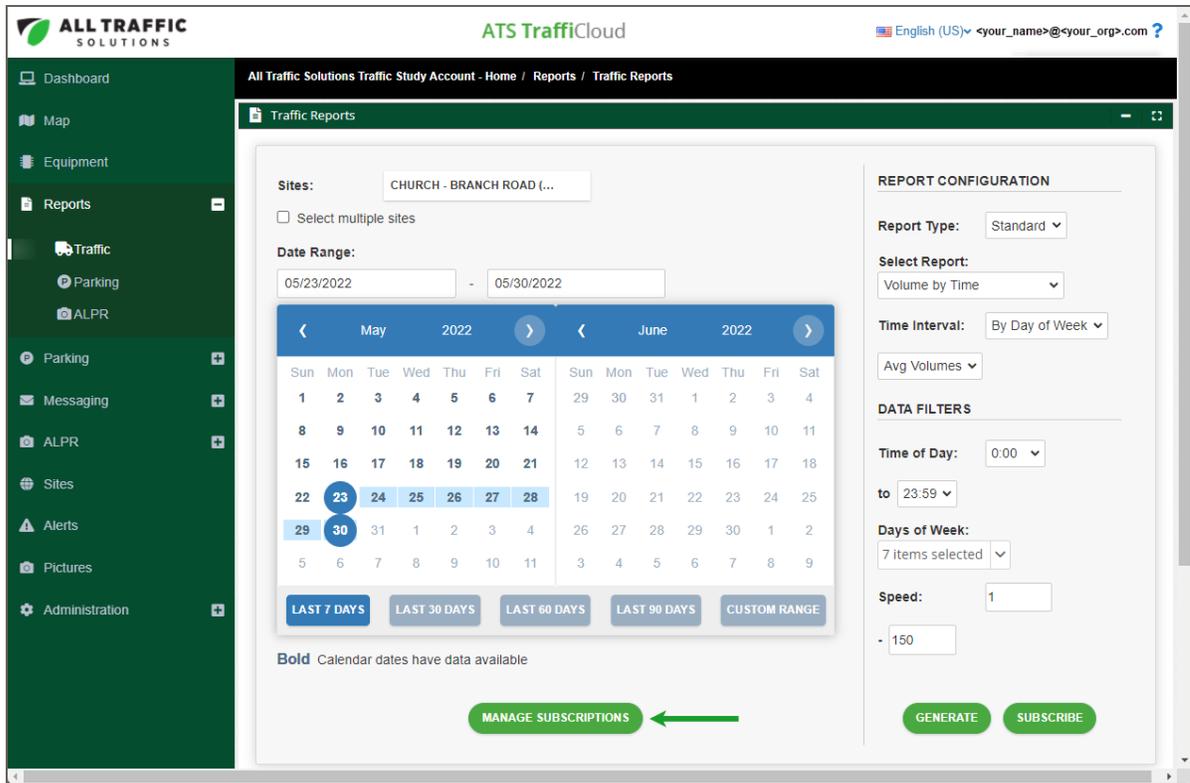
Days of Week: ▼

Days of Month: ▼

[Figure 68] Report Subscription settings

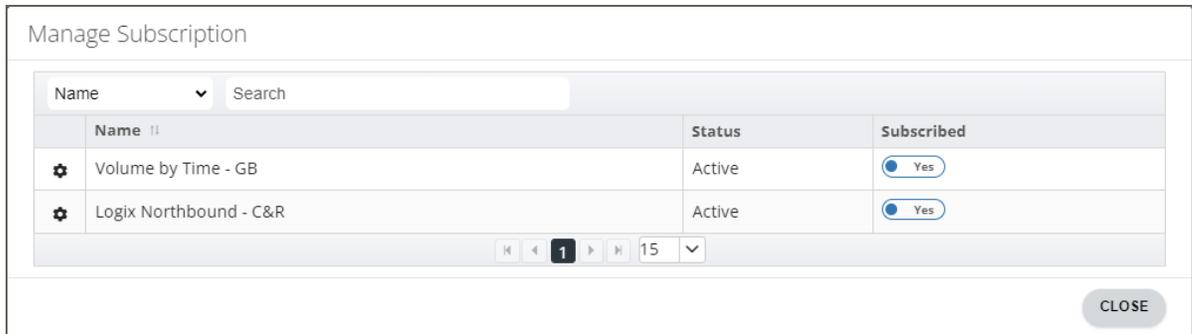
To manage report subscriptions:

1. On the navigation menu, click **Reports > Traffic**.
2. Click the **Sites** box, and select the Site you want to manage report subscriptions for.
3. Click the **Manage Subscriptions** button at the bottom of the page, as shown in *The Traffic Reports page > Manage Subscriptions button* on the next page.



[Figure 69] The Traffic Reports page > Manage Subscriptions button

The **Manage Subscription** window opens.



[Figure 70] The Manage Subscription window

4. Do any of the following:
 - A. If the list is long, you can filter by **Name**, **Status**, or **Subscribed**, or by typing characters from the report name in the **Search** box.
 - B. Click the **Subscribed** slider next to a subscription to change it from **Yes** (subscribed) to **No** (unsubscribed).
 - C. Click the **View** icon  next to a Site with the report subscription you want to update. The **Subscribe** window opens, showing the **Report Subscription** section at the bottom left of the page. See *Report Subscription settings* on the previous page.

5. Do either of the following:
 - A. In the drop-down list, click to select or deselect your email address or those of any TraffiCloud users you'd like to subscribe or unsubscribe from the report subscription.

You can type the first few letters of any email address to filter the list. At least one user must be selected to save a report subscription.

The screenshot shows a form titled "REPORT SUBSCRIPTION". It has four main sections:

- Name:** A text input field containing "Church - Branch Road (Eas".
- Subscribed Users:** A dropdown menu currently showing "Choose" with a downward arrow. A red box highlights this dropdown.
- File Type:** A dropdown menu showing "pdf" with a downward arrow.
- Active:** A toggle switch currently set to "No".

 An expanded search box is visible below the "Subscribed Users" dropdown, containing a search icon, the text "mdemo", and a close button "x". Below the search box, a list of users is shown, with one user "mdemo@alltrafficsolutions.com" and an unchecked checkbox next to it.

[Figure 71] The Subscribed Users list

- B. With at least one user selected in the **Subscribed User** list, click the **Active** slider. Set it to **Yes** to activate the report subscription or **No** to deactivate it. Note that deactivating the subscription will apply to all report subscribers.

The screenshot shows the same "REPORT SUBSCRIPTION" form as in Figure 71, but with different values:

- Name:** "Volume by Time - GB"
- Subscribed Users:** "9 users selected" with a downward arrow.
- File Type:** "pdf" with a downward arrow.
- Active:** A toggle switch currently set to "No". A mouse cursor is pointing at the "No" label.

[Figure 72] The Report Subscriptions Active/Inactive slider

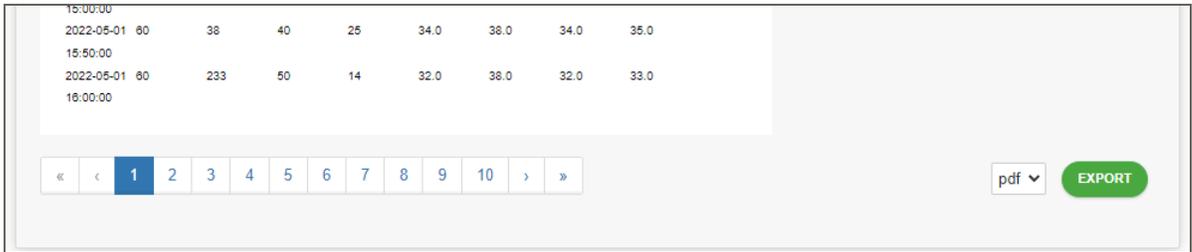
6. After you have completed your selections, click the **Update** button. The changes will be updated for the Site at the next communication window.

Printing reports

Use this procedure for help with printing reports from TraffiCloud.

To print reports:

1. Generate a report. See *Generating Reports* on page 67.
2. Scroll to the bottom of the page and use the default file format for your report (**pdf**) or change it to **csv** as required.
3. Click the **Export** button. A copy of the report is generated in the format you selected in the previous step and placed in your **Downloads** folder.



[Figure 73] The Reports Export button

4. Open the file on your computer. You can view it there or send it to your printer.

 **TIP:** If you subscribe to reports, you can also view or print them from your email client. See *Subscribing to Reports* on page 76.

Chapter 7

Using the Map page to view Sites

Use this chapter for help with the TraffiCloud **Map** page. TraffiCloud uses Google Maps to display status markers, which provide the location, status, and overview data of each of your SpeedAlert Radar Message Signs.

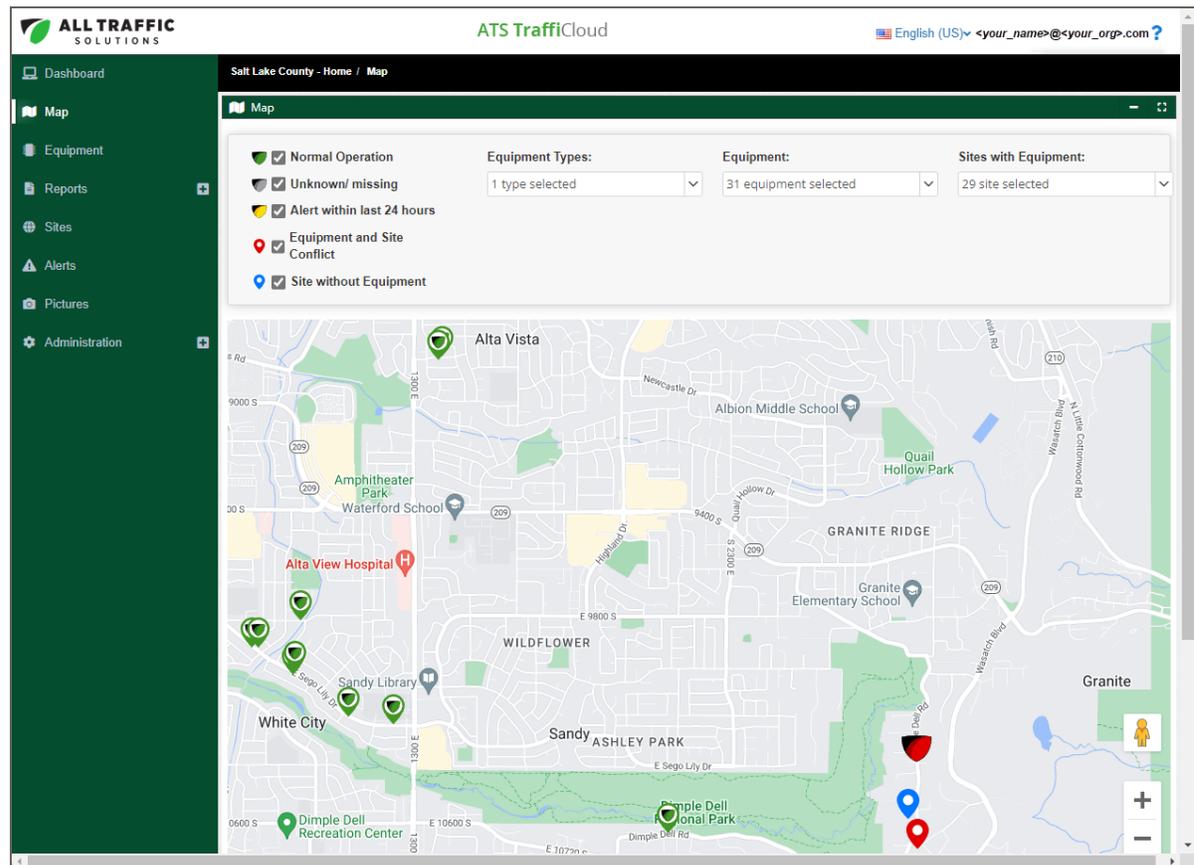
Topics in this chapter:

Understanding the Map page	84
Filtering the Map page	87
Resolving equipment and Site conflicts	88

Understanding the Map page

Here's an example of what you'll see on the **Map** page, showing

- » most Sites with **Normal Operation** and at the assigned Site: 📍,
- » one **Site without Equipment**: 📍, and
- » one Site with an **Equipment and Site Conflict**: 🚫 and 📍.



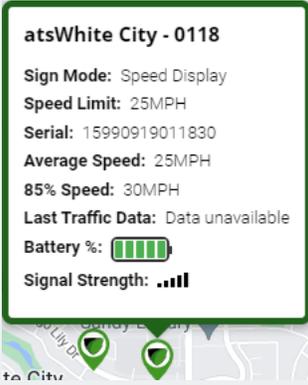
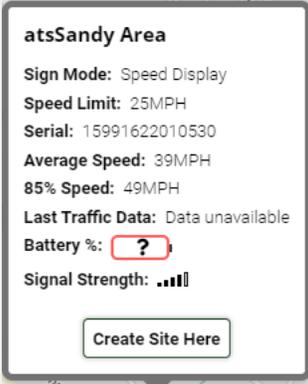
[Figure 74] The Map page

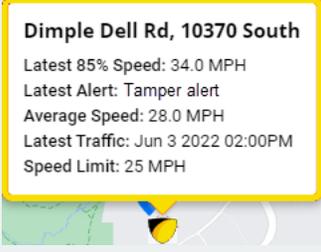
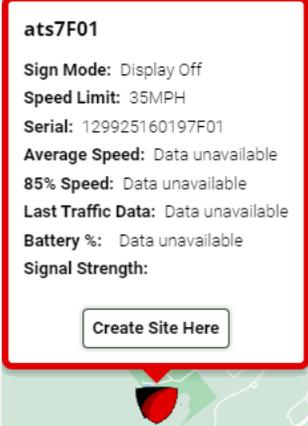
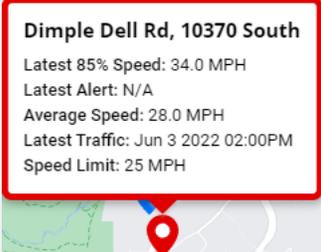
Map page status markers and popups

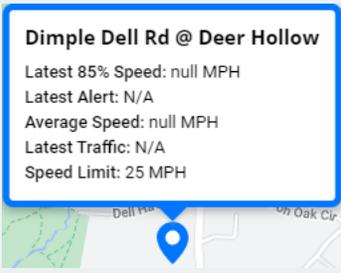
Use the table below for help with the **Map** page status markers and popups.

To display the status popup for a Site:

» Hover the mouse over the status marker.

Status marker and popup	Name	Description
	Normal operation	<p>The Site and equipment are operating normally. The green circle around the Normal Operation shield icon  means that the sign is at the assigned Site.</p> <p>The popup displays:</p> <ul style="list-style-type: none"> • Sign Mode • Speed Limit • Serial number • Average Speed • 85% Speed • Last Traffic Data • Battery % • Cellular modem signal strength
	Unknown/ Missing	<p>The status of the equipment is unknown, and it may be powered off or otherwise not communicating. The popup displays:</p> <ul style="list-style-type: none"> • Sign Mode • Speed Limit • Serial number • Average Speed • 85% Speed • Last Traffic Data • Battery % • Signal Strength • Create Site Here <p>You can use the Create Site Here button to create a Site at the location.</p>

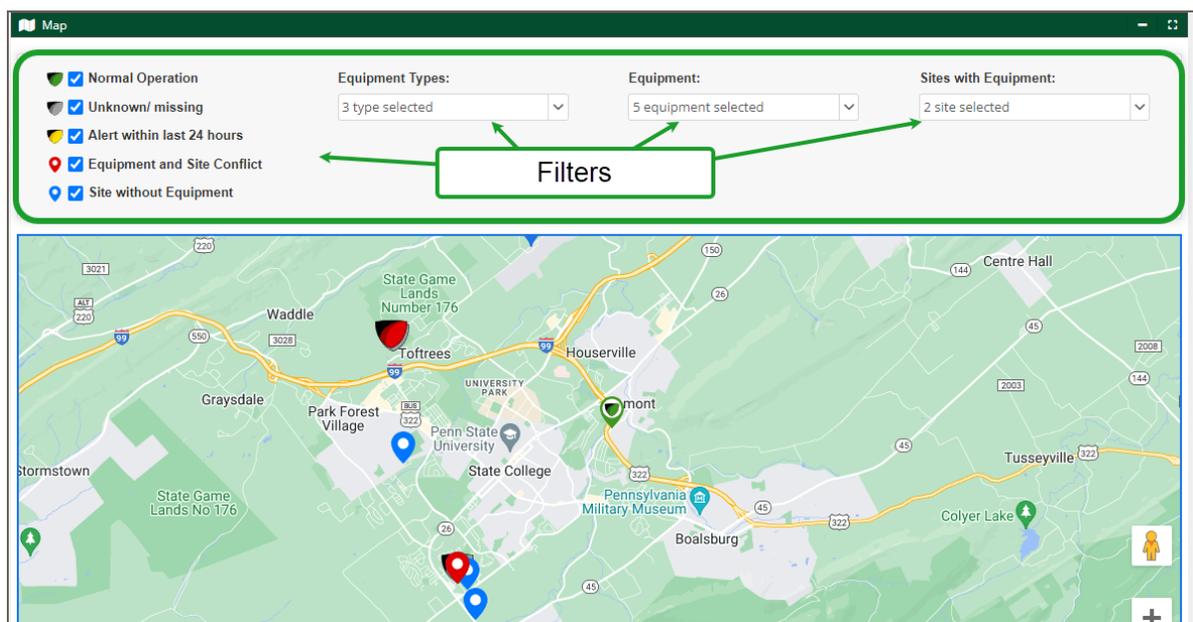
Status marker and popup	Name	Description
 <p>Dimple Dell Rd, 10370 South Latest 85% Speed: 34.0 MPH Latest Alert: Tamper alert Average Speed: 28.0 MPH Latest Traffic: Jun 3 2022 02:00PM Speed Limit: 25 MPH</p>	<p>Alert within last 24 hours</p>	<p>The Site has registered an alert within the past 24 hours. The popup displays:</p> <ul style="list-style-type: none"> • Latest 85% Speed • Latest Alert • Average Speed • Latest Traffic • Speed Limit
 <p>ats7F01 Sign Mode: Display Off Speed Limit: 35MPH Serial: 129925160197F01 Average Speed: Data unavailable 85% Speed: Data unavailable Last Traffic Data: Data unavailable Battery %: Data unavailable Signal Strength:</p> <p>Create Site Here</p>	<p>Equipment and Site Conflict</p>	<p>Flags a mismatch between the GPS coordinates coming from the equipment and the location set up in the Site. For example, this can occur when you move a sign to a new location without reassigning the sign to that Site.</p> <p>To resolve the conflict, hover the mouse pointer over the red shield status marker  to display the popup, and then click the Create Site Here button. For details, see <i>Resolving equipment and Site conflicts</i> on page 88.</p> <p>The popup displays:</p> <ul style="list-style-type: none"> • Sign Mode • Speed Limit • Serial number • Average Speed • 85% Speed • Last Traffic Data • Battery % • Signal Strength • Create Site Here
 <p>Dimple Dell Rd, 10370 South Latest 85% Speed: 34.0 MPH Latest Alert: N/A Average Speed: 28.0 MPH Latest Traffic: Jun 3 2022 02:00PM Speed Limit: 25 MPH</p>	<p>Equipment and Site Conflict</p>	<p>Represents a Site that is assigned to the sign, as shown above, but the sign is not in the correct location.</p> <p>To resolve the conflict, see the previous row in this table, or go to <i>Resolving equipment and Site conflicts</i> on page 88.</p> <p>The popup displays:</p> <ul style="list-style-type: none"> • Latest 85% Speed • Latest Alert • Average Speed • Latest Traffic • Speed Limit

Status marker and popup	Name	Description
 <p>Dimple Dell Rd @ Deer Hollow Latest 85% Speed: null MPH Latest Alert: N/A Average Speed: null MPH Latest Traffic: N/A Speed Limit: 25 MPH</p>	Site without Equipment	The Site has no equipment assigned to it, and the popup displays the following categories, with no data: <ul style="list-style-type: none"> • Latest 85% Speed • Latest Alert • Average Speed • Latest Traffic • Speed Limit

Filtering the Map page

You can use filters to dynamically show or hide equipment on the **Map** page. As you select or deselect each filter type, the map updates automatically.

Use this topic for details about filtering the Map page.



[Figure 75] The Map page > Filters

To filter the Map page:

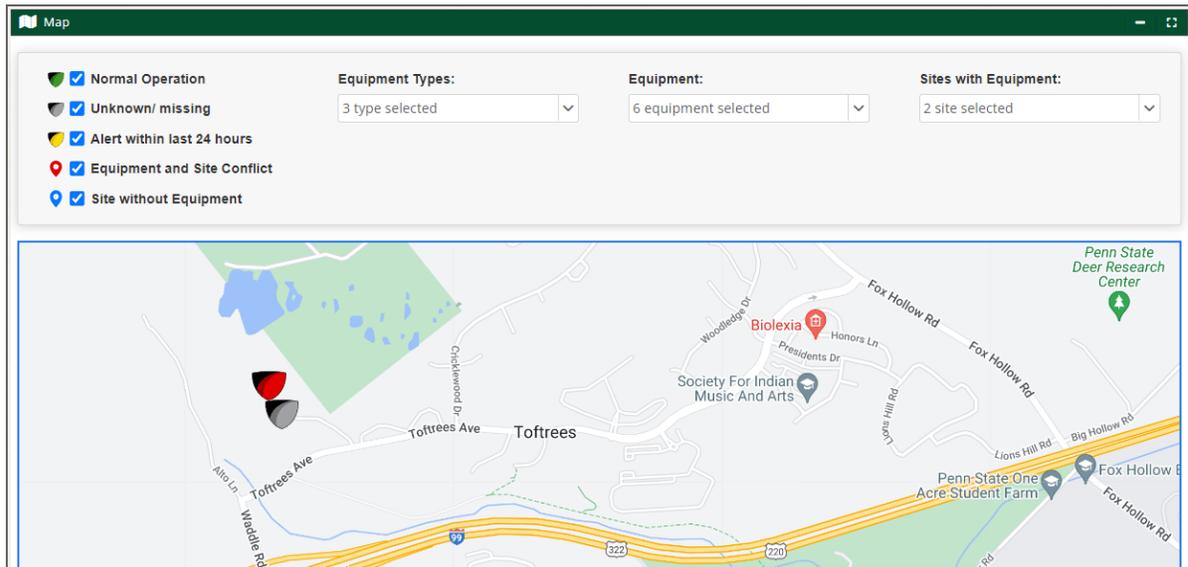
1. On the navigation menu, click the **Map** tab. The **Map** page opens.
2. Set the zoom level you prefer. Typically, you need to zoom until you can see street names. To zoom in,
 - » Do any of these: Roll the middle mouse button forward, use the **+ sign** on the bottom right corner of the map, or click the keyboard **+ key**. See the **Keyboard Shortcuts** at the bottom-right corner of the map as well.
 - » As you zoom, click and hold the mouse button on the map to drag and reposition your view of the blue dot or status marker.

- Use the following table for details about using filters. As you select and deselect filters, you'll see the status markers appear and disappear on the map. By default, all filter types are selected.

Filter type	What you can do
Status Marker check boxes	<ul style="list-style-type: none"> Select and deselect check boxes to show status markers by type. For details about status markers, see <i>Understanding the Map</i> page on page 84.
Equipment Types	<ol style="list-style-type: none"> Select and deselect check boxes to show specific types of equipment. Click the down arrow to select or search by equipment type.
Equipment	<ol style="list-style-type: none"> Select and deselect check boxes to show all (the default) or specific equipment available. Click the down arrow to select or search by specific equipment nickname.
Sites with Equipment	<ol style="list-style-type: none"> Select and deselect check boxes to show all Sites with equipment available. Click the down arrow to select or search by Sites with equipment.

Resolving equipment and Site conflicts

You can use the **Equipment and Site Conflict** status marker and popup to resolve Site conflicts, which are mismatches between the GPS coordinates coming from the equipment and the location you set up in TraffiCloud for the sign. For details about these markers, see *Equipment and Site Conflict* on page 86.



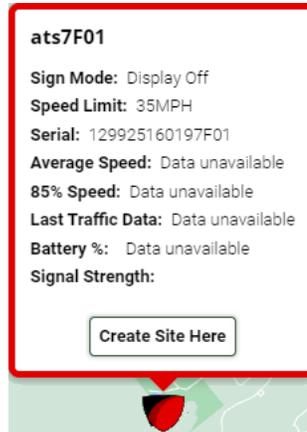
[Figure 76] The Map page > Equipment and Site Conflict

To resolve equipment and Site conflicts:

- On the navigation menu, click the **Map** tab. The **Map** page opens.
- Zoom the map view to the area of the conflict. To zoom in,
 - » Do any of these: Roll the middle mouse button forward, use the **+ sign** on the bottom right corner of the map, or click the keyboard **+ key**. See the **Keyboard**

Shortcuts at the bottom-right corner of the map as well.

- » As you zoom, click and hold the mouse button on the map to drag and reposition your view of the blue dot or status marker.
3. Locate the red shield icon and hover the mouse button over it. The popup displays:



[Figure 77] The Equipment and Site Conflict status marker and popup

4. Click the **Create Site Here** button. The **Add Site** window opens, showing the blue dot, representing the current location on the map. You can drag it as required. See also *Creating a Site* on page 15.
5. Add a Site name, speed limit, description, and direction of travel and click the **Save Site** button.

Chapter 8

Checking Alerts

The TraffiCloud **Alerts** tab opens an archive of alerts, which are event notifications sent to TraffiCloud users for issues such as low battery, tampering, and high speed or low speed (congestion) events.

The **Alerts** page includes the following:

- » Drop-down filter lists, you can use to can filter the display by **Device, Site, Alert Type**, and **Date Range**.
- » A table, including
 - A **View** icon  next to each Alert in the table. Click to open the **View Alert** window, where you can view and print Alert details (see *Checking Alerts* above).
 - Details for Alerts by **Timestamp, Device, Site, Alert Type, Threshold**, and **Recipients**. See *Viewing Alerts* on the next page.

Topics in this chapter:

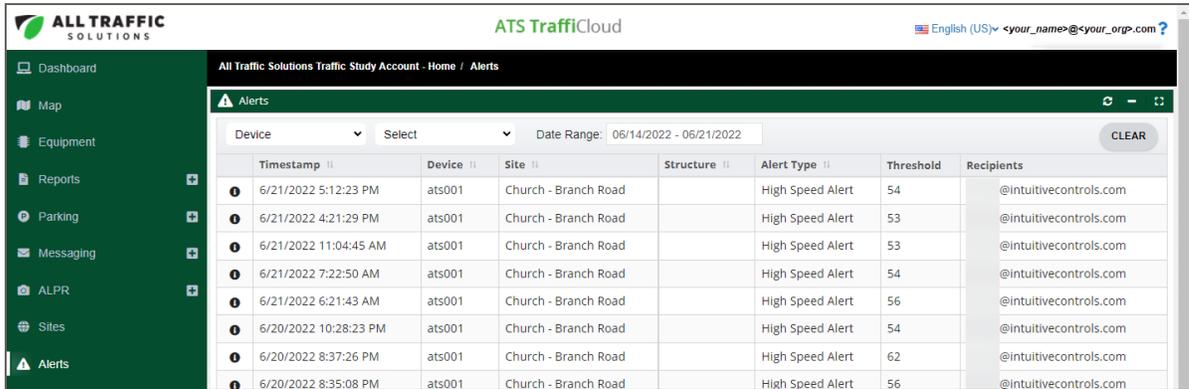
Viewing Alerts	92
The View Alert window	93
Filtering Alerts	94

See also

- » *Configuring Alerts and Images* on page 40
- » *Checking Pictures* on page 97
- » *Setting up an Alert History Dashboard widget* on page 104

Viewing Alerts

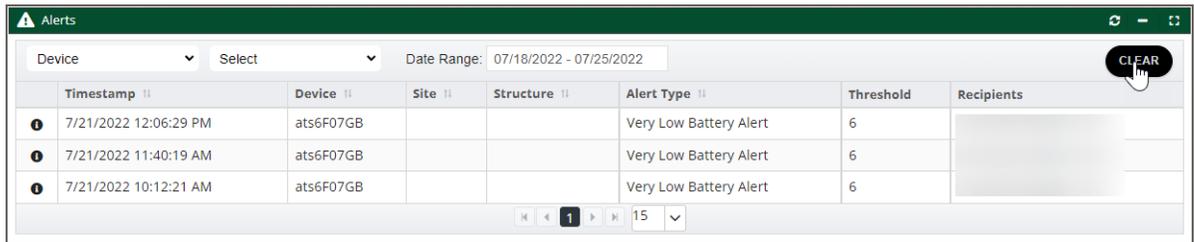
Use this topic for details about viewing **Alerts**, which are event notifications sent to TraffiCloud users for issues such as low battery, and tampering, and high speed or low speed (congestion) events.



[Figure 78] The Alerts page > Viewing Alerts

To view Alerts:

1. On the navigation menu, click the **Alerts** tab. The **Alerts** page opens.
2. The default date range displays alerts for the past week only. If no alerts are showing, try pressing the **Clear** button, as shown:



[Figure 79] The Alerts page > Clear button

3. Use the following table for help with the fields in the **Alerts** table:

Setting	Description
Filters	Use the filters to narrow the number of alerts that TraffiCloud displays. See <i>Filtering Alerts</i> on page 94.
View icon ⓘ	Opens the View Alert window.
Timestamp	The timestamp indicating when the Alert was sent.
Device	The device Nickname .
Site	The Site name representing the physical location of your sign.
Structure	The Structure column is only used in parking applications.
Alert Type	The alert type that was sent.

Setting	Description
Threshold	Shows the value for the low battery, tampering, or a speed event that triggered the alert. Thresholds are set in Equipment > Alerts and Images . See <i>Configuring Alerts and Images</i> on page 40.
Recipients	The email address or cell numbers of the users the alert was sent to.



TIP: You can also set up an **Alert History** widget in the **Dashboard**. See *Setting up an Alert History Dashboard widget* on page 104.

The View Alert window

Use this topic for details about the **View Alert** window.

To open the View Alert window:

1. On the navigation menu, click the **Alerts** tab. The **Alerts** page opens.
2. Click the **View** icon  next to an Alert in the table. The **View Alert** window opens. The example here includes a photo. Photos are enabled in **Equipment > Alerts and Images**. See *Configuring Alerts and Images* on page 40.

View Alert
✕

High Speed Alert on ats001

Timestamp	: 06/28/2022 11:17 AM
Device	: ats001
Site	: Church - Branch Road
Structure	: Structure
Alert Type	: High Speed Alert
Email Recipients	: ekline@intuitivecontrols.com
SMS Recipients	: SMS Recipients



SMS	: SMS
Email	: A vehicle traveling 54 passed Church - Branch Road at Tue, Jun 28, 2022, 11:17 AM. The speed limit at this location is 25 .

CANCEL
PRINT

[Figure 80] The View Alert window

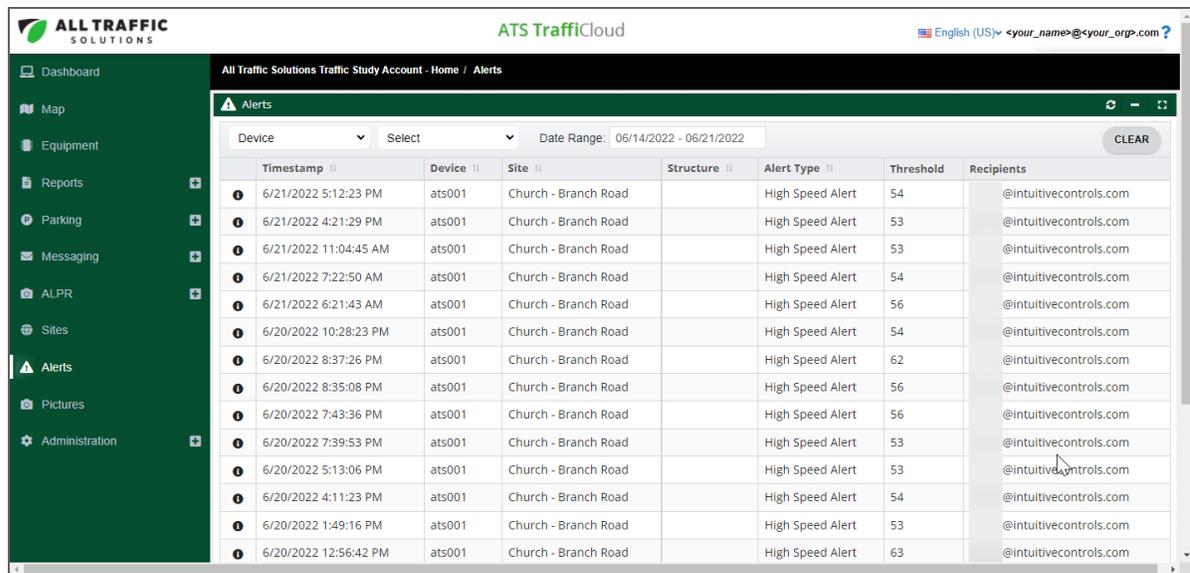
Setting	Description
Timestamp	The timestamp when the Alert was sent.
Device	The device Nickname .
Site	The Site name representing the physical location of your sign.

Setting	Description
Structure	The Structure column is only used in parking applications.
Alert Type	The alert type that was sent.
Email Recipients	The email addresses of the users the alert was sent to.
SMS Recipients	The cell phone numbers of the users the alert was sent to.
SMS	The content of the text message (SMS) that was sent.
Email	The content of the email message that was sent.
Print	The Print button - click to print Alert details.

Filtering Alerts

You can use filters to dynamically show or hide alerts on the **Alerts** page. As you select or deselect each filter type, the map updates automatically.

Use this topic for details about filtering the **Alerts** page.

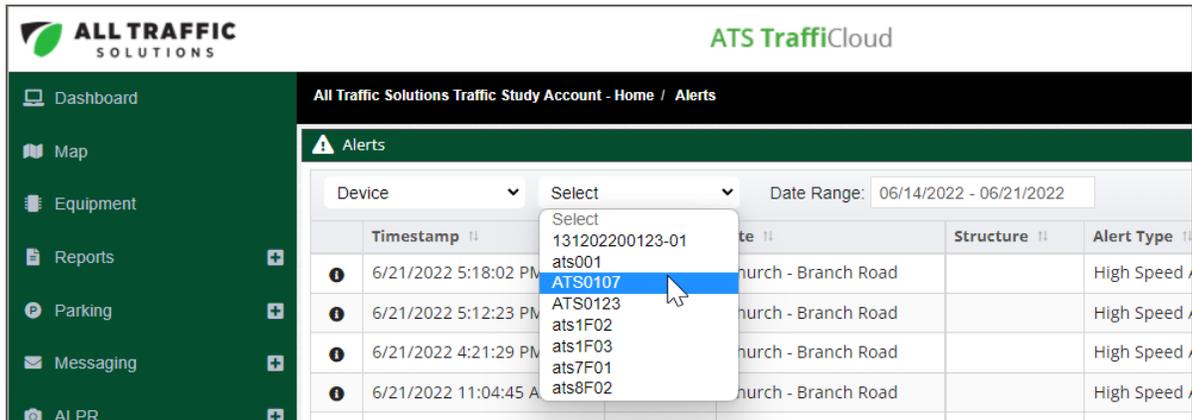


[Figure 81] The Alerts page > Filtering Alerts

To filter the Alerts page:

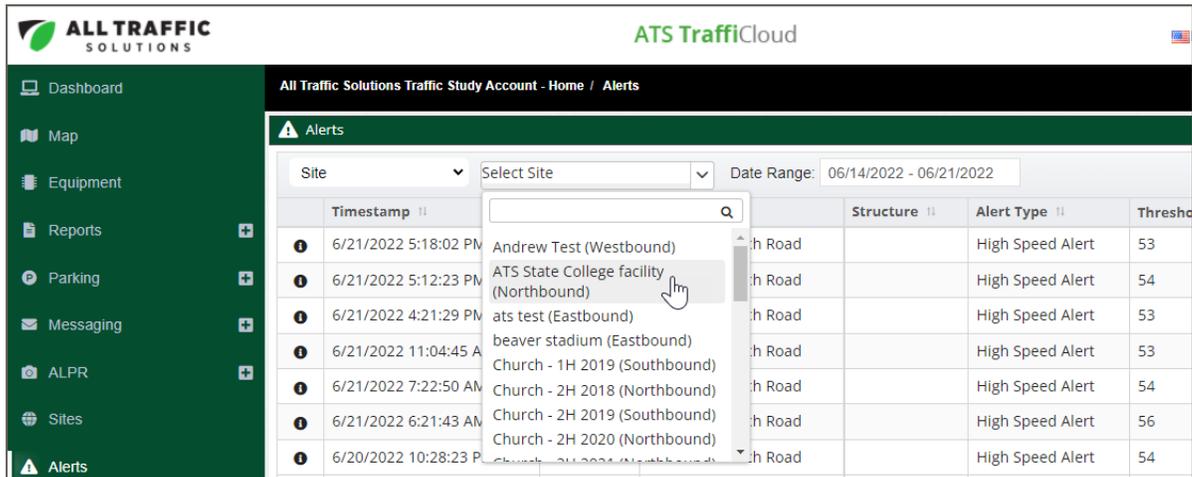
1. On the navigation menu, click the **Alerts** tab. The **Alerts** page opens.
2. You can select from the following options in the first filter drop-down list: **Device**, **Site** and **Alert Type**. As you select and deselect filter options, related filters become available in the second drop-down list.

For example, if you use the default **Device** filter, the second drop-down displays the available devices, as shown:



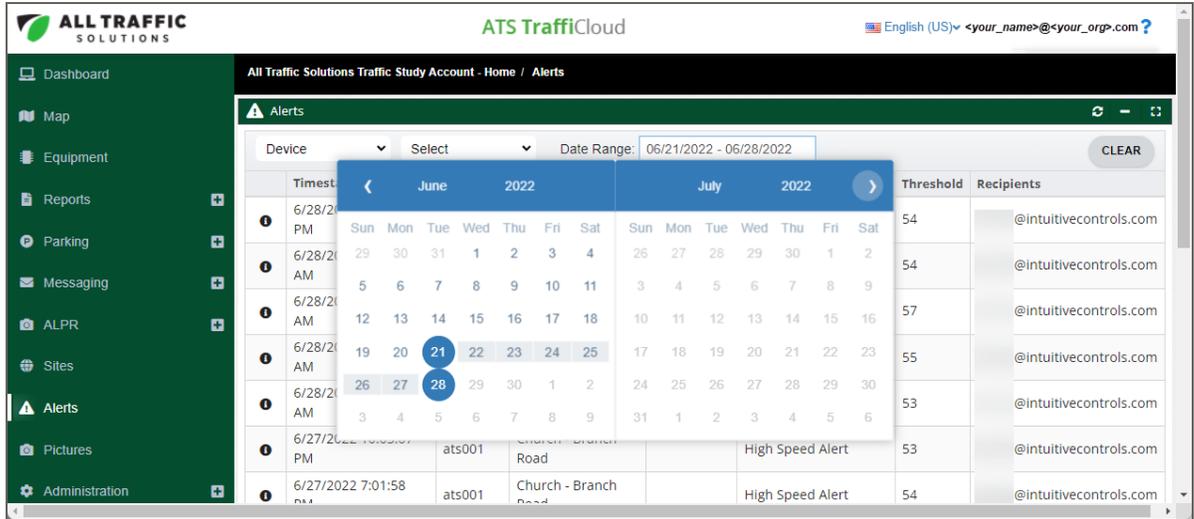
[Figure 82] Alerts > Filtering by Device

In [Figure 83] below, the first filter is set to **Site**, resulting in the following Site list to filter the display further:



[Figure 83] Alerts > Filtering by Site

[Figure 84] below shows an example of filtering by date. To select a **Date Range** in the calendar, first click the start date, move the mouse pointer to the end date, and then click the end date. Or, as mentioned earlier, you can click the **Clear** button to clear all dates so that all prior alerts are shown.



[Figure 84] Alerts > Filtering by Date Range

Chapter 9

Checking Pictures

Use this topic for help with checking photos available from the TraffiCloud **Pictures** tab. The **Pictures** page includes the following:

- » A table displaying existing photos by **Timestamp, Image Type, Size, Device, Quality, Retention status,** and **Image** thumbnails.
- » An **Edit** icon  next to each picture in the table that opens the **Preview** window, where you can manage pictures (see *Managing pictures* on page 99),
- » Drop-down lists, where you can filter the display by **Site, Date Range, Image Type,** and **Device,**

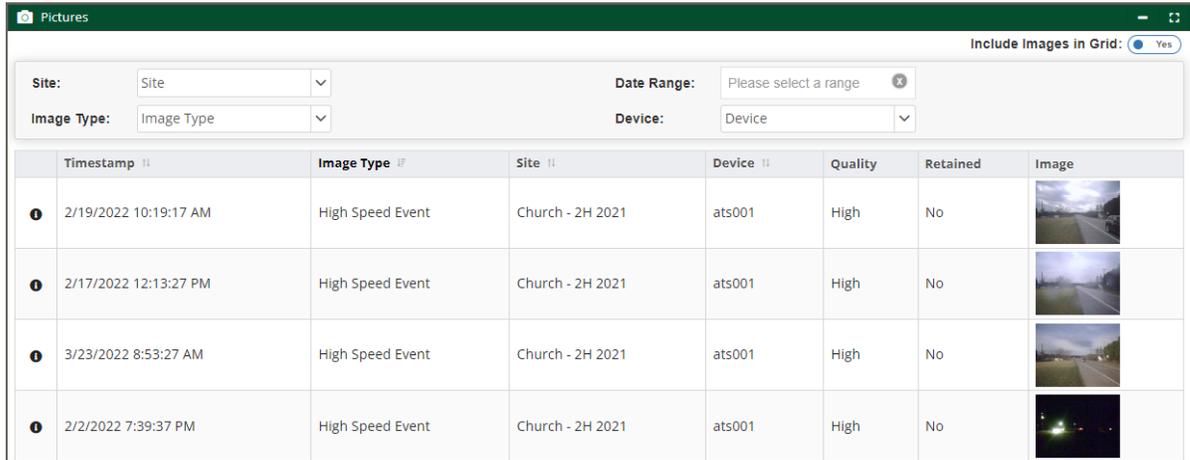
To configure your sign to take pictures, go to the **Equipment page** for your sign and scroll down to **Alerts and Images**. You can enable automatic picture-taking based on **Tampering, High Speed,** or **Low Speed** events, or take **Awareness Images**, photos triggered at set intervals, independent of a specific event. See *Configuring Alerts and Images* on page 40.

Topics in this chapter:

The Pictures page	98
Managing pictures	99

The Pictures page

Here's an example of what you'll see on the **Pictures** page:



[Figure 85] The Pictures page

Use the following table for descriptions of how to use the page:

Setting	Name	How to use it
Thumbnails	Images slider	To display thumbnails on the page, click the Images slider to change the setting from No to Yes .
Filters		Use the filters section to sort the photo display, which can be useful when you have a large number of pictures.
	Site	Filters the display to show pictures captured at specific Sites in the grid. By default, photos from all Sites display. Click the down arrow to select or search by Site name.
	Date Range	Filters the display to show photos captured on specific dates. By default, the past week is selected. You can click the X icon to clear the dates and view all photos, or click on the existing dates to display a calendar popup. To select a date range in the calendar, first click the start date, move the mouse pointer to the end date, and then click the end date.
	Image Type	Filters the display to show pictures based on the kind of image taken: <ul style="list-style-type: none"> • Awareness Image, • Congestion Event, • High Speed Event, • Tamper Event, and • User Triggered (photos captured using the SmartApps mobile app). <p>By default, photos from all Sites display. Click the down arrow to select or search by Image Type.</p>

Setting	Name	How to use it
	Device	Filters the display to show all (the default) or specific devices available. Click the down arrow to select or search by device type.
	Include Images in Grid	Enables you to display thumbnail images in the grid. By default, thumbnails are hidden. To display thumbnails, move the slider to Yes .
Pictures page table options and fields		This section provides details about the options and fields in the table on the Pictures page. Click the up/down arrows  where applicable, beside column headers to change the sort order.
	Edit button 	Opens the Preview window, where you can manage pictures (see <i>Managing pictures</i> below).
	Timestamp	Displays the date and time the picture was taken.
	Image Type	Displays the image type. See Image Type , above.
	Site	Displays the Site where the picture was taken. Pictures taken by signs with no Site assigned will have blank Site fields, on the Pictures page and in the Preview window.
	Device	Displays the device type used to take the picture.
	Quality	Displays the image quality: Low , Medium , or High .
	Retained	Displays the retention status of the picture, which can be Yes or No . The default status (No), purges the picture automatically after six months. To keep a picture indefinitely, click the Edit button and change the status to Yes .

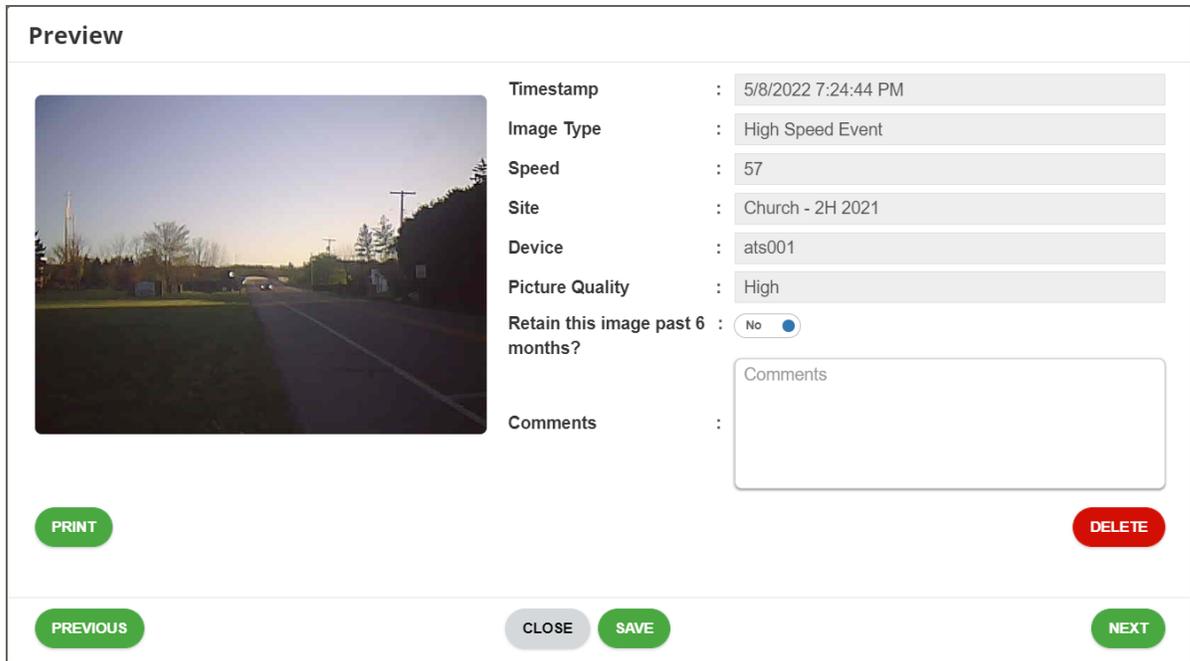
Managing pictures

You can use the **Preview** window to do the following:

- » view or print pictures taken by your signs,
- » change the retention period,
- » add comments,
- » delete pictures,
- » view picture details,
- » navigate between pictures.

To manage your pictures in the Preview window:

1. In the grid view, click the **Edit** icon  to open the **Preview** window.



[Figure 86] The Preview window

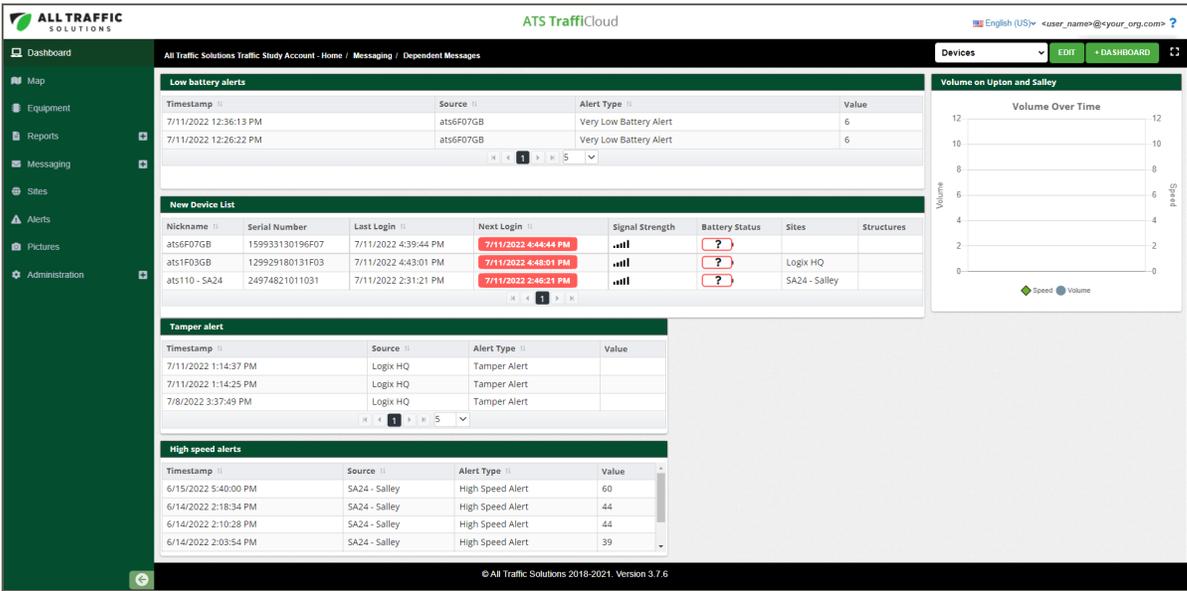
2. Use the following table for details about the interactive features of the **Preview** window:

Setting	What you can do
Retain this image past 6 months?	Move the slider to Yes to set the retention period for the picture to an indefinite period of time.
Comments	Enter any comments you want to record about the picture.
Print	Click to save a PDF with the photo and descriptive data. Your browser should display the PDF in a new tab or window, with options to print and download the picture.
Delete	Click to delete the picture. A prompt appears, asking you to confirm.
Save/Close	Click to save your changes or to close the window.
Next/Previous	Click to navigate between pictures on the Pictures page.

Chapter 10

Using the Dashboard

When your TrafficCloud account is first set up, you'll see a default Dashboard in the main viewing pane. Dashboards are meant to give you a quick overview of your All Traffic Solutions devices and activity, and are made up of components called "widgets", which add features to websites. The example below shows the subscribed devices and alert history in a widget named "Traffic". You can add widgets to Dashboards, add multiple Dashboards, and specify a default Dashboard. Here's an example of what you'll see on your Dashboard:



[Figure 87] The Dashboard page > Alerts History, Device List, and Traffic Volume widgets

Topics in this chapter:

- Adding widgets to your Dashboard102

Setting up a Traffic Volume Dashboard widget 103
 Setting up an Alert History Dashboard widget 104
 Setting up a Device List Dashboard widget105

Adding widgets to your Dashboard

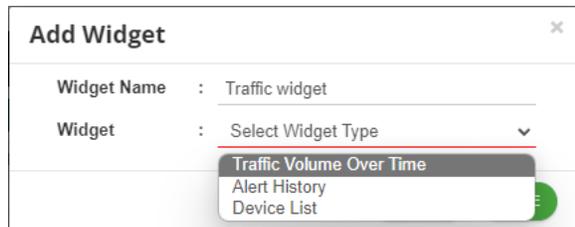
Use this procedure to add widgets to your Dashboard.

You can create three types of Dashboard widgets:

Widget type	Description
Traffic Volume Over Time	Provides a graphic display of the volume of traffic over a given time period.
Alert History	Displays alerts for high speed, device tampering, and low battery alerts. We recommend creating a separate widget for each.
Device List	Displays a list of devices. You can configure the display for your devices, electrical power status, cellular signal strength, assigned Site, how often the data should be updated, and number of rows in the display table.

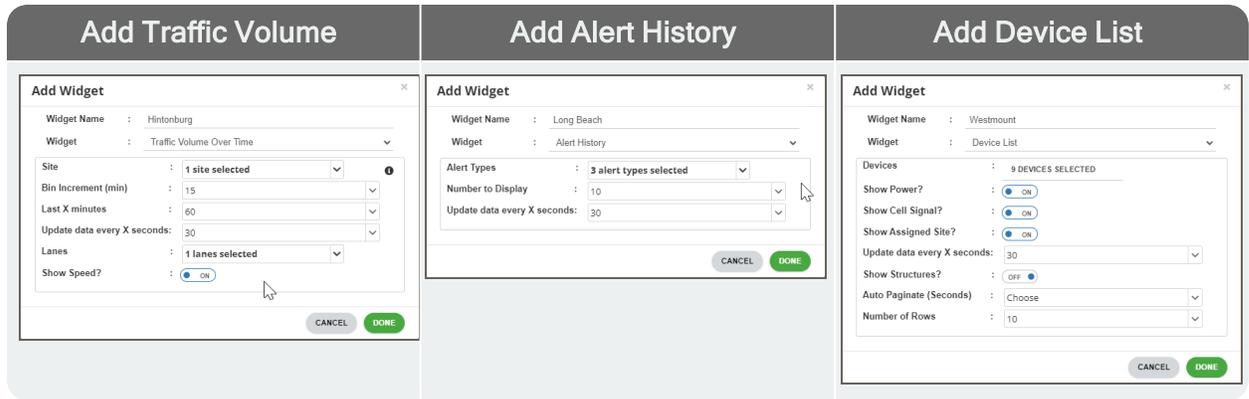
To add a widget to your Dashboard:

1. On the navigation menu, click the **Dashboard** tab. The Dashboard page opens, showing any Dashboards that have been created on your account.
2. Click the **Edit** button just below the TrafficCloud title bar. The Dashboard editing buttons display.
3. Click the **+Widget** button. The **Add Widget** window opens.
4. Enter a name for the new dashboard widget, and click **Select Widget Type** as shown.



[Figure 88] The Add Widget window

- Click the **Done** button. The **Add Widget** window for the widget type you selected opens.



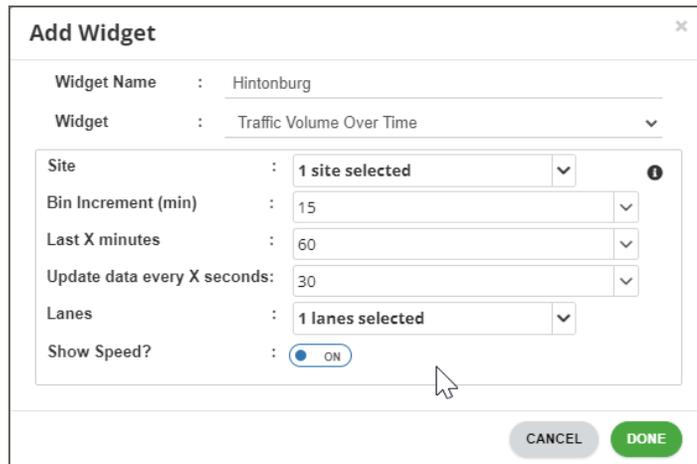
[Figure 89] TrafficCloud Widget types

Setting up a Traffic Volume Dashboard widget

Use this procedure to set up a **Traffic Volume** Dashboard widget.

To set up a Traffic Volume Dashboard widget:

- Add the **Traffic Volume** Dashboard widget (see *Adding widgets to your Dashboard* on the previous page). The **Add Widget** window opens. Here's an example with the data set up:



[Figure 90] The Add Widget window > Traffic Volume Over Time

- Use the following table for help with your selections:

Widget field	What you can do
Widget Name	Give the widget a representative name. For example, if you have signs in multiple districts, you could name the widgets by district.
Widget	Select the Traffic Volume widget type.
Site	Select the Site or Sites you want reporting on. Most organizations use a single Site here. When you select multiple sites, TrafficCloud sums them together.

Widget field	What you can do
Bin Increment (min)	Groups the data in time increments of 15, 30, or 60 minutes.
Last X minutes	Sets the reporting period in minutes, from 30 to 300, in 30-minute increments.
Update every X seconds	Sets the update frequency, in seconds from 30 to 180, in 30-second increments.
Lanes	Sets the number of lanes to monitor, from 1 to 16.
Show Speed?	Sets whether speed should be displayed.

Setting up an Alert History Dashboard widget

Use this procedure to set up an **Alert History** Dashboard widget. Alerts are event notifications sent to TrafficCloud users for issues such as low battery, tampering, and high speed or low speed (congestion) events.

To set up an Alert History Dashboard widget:

1. Add the **Alert History** Dashboard widget (see *Adding widgets to your Dashboard* on page 102). The **Add Widget** window opens. Here's an example with the data set up:

The screenshot shows a dialog box titled "Add Widget" with a close button (X) in the top right corner. The settings are as follows:

- Widget Name: Long Beach
- Widget: Alert History (dropdown menu)
- Alert Types: 3 alert types selected (dropdown menu)
- Number to Display: 10 (dropdown menu)
- Update data every X seconds: 30 (dropdown menu)

At the bottom right, there are two buttons: "CANCEL" and "DONE".

[Figure 91] The Add Widget window > Alert History

2. Use the following table for help with your selections:

Setting	What you can do
Widget name	Give the widget a representative name. For example, if you have signs in multiple districts, you could name the widgets by district.
Widget	Select the Alert History widget type.
Alert Types	Select which of your signs you want reporting on.

Setting	What you can do
Number to Display	Enable this option to have the widget display the electrical power status for the devices.
Update data every X seconds	Sets how often the data is refreshed, ranging from 30 to 180 seconds in 30-second increments.

Setting up a Device List Dashboard widget

Use this procedure to set up a **Device List** Dashboard widget, listing the latest details about all of your ATS signs.

To set up a Device List Dashboard widget:

1. Add the **Device List** Dashboard widget (see *Adding widgets to your Dashboard* on page 102). The **Add Widget** window opens. Here's an example with the data set up:

The screenshot shows a window titled "Add Widget" with a close button (X) in the top right corner. Inside the window, the following settings are visible:

- Widget Name**: Westmount
- Widget**: Device List (with a dropdown arrow)
- Devices**: 9 DEVICES SELECTED
- Show Power?**: ON (radio button selected)
- Show Cell Signal?**: ON (radio button selected)
- Show Assigned Site?**: ON (radio button selected)
- Update data every X seconds**: 30 (with a dropdown arrow)
- Show Structures?**: OFF (radio button selected)
- Auto Paginate (Seconds)**: Choose (with a dropdown arrow)
- Number of Rows**: 10 (with a dropdown arrow)

At the bottom right of the window, there are two buttons: "CANCEL" and "DONE".

[Figure 92] The Add Widget window > Device List

2. Use the following table for help with your selections:

Setting	What you can do
Widget name	Give the widget a representative name. For example, if you have signs in multiple districts, you could name the widgets by district.
Widget	Select the Devices widget type.
Devices	Select which of your signs you want reporting for.
Show Power?	Enable this option to have the widget display the electrical power status for the devices.
Show Cell Signal?	Enable this option to display the signal strength of the cellular modem in the device.

Setting	What you can do
Show Assigned Site?	Enable to show the name of the Site.
Update every X seconds	Enable this option to set how often the data is refreshed, ranging from 30 to 180 seconds in 30-second increments.
Show Structures?	Enables display of parking structure names.
Auto Paginate (Seconds)	Forces the display to show the next or previous page at the specified interval (every 5 seconds, from 5 to 30 seconds).
Number of Rows	Specifies the number of rows in the widget data table.

Chapter 11

Administration

This chapter covers basic administration tasks you may need to perform as you get started with TraffiCloud.

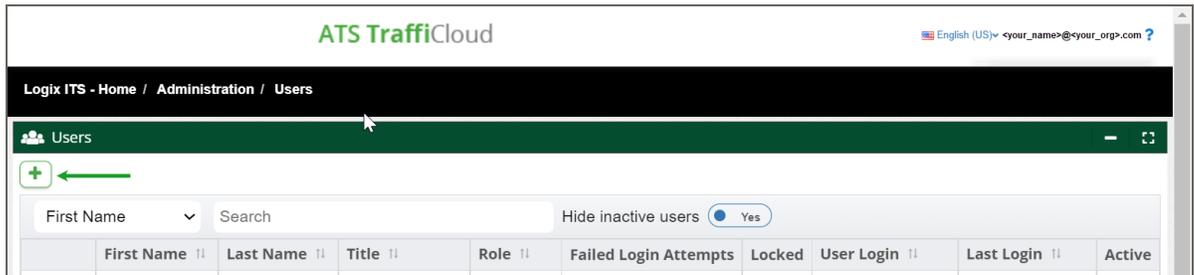
Adding a user	108
Editing a user	110
Deactivating a user	111

Adding a user

Use this topic to add a TrafficCloud user.

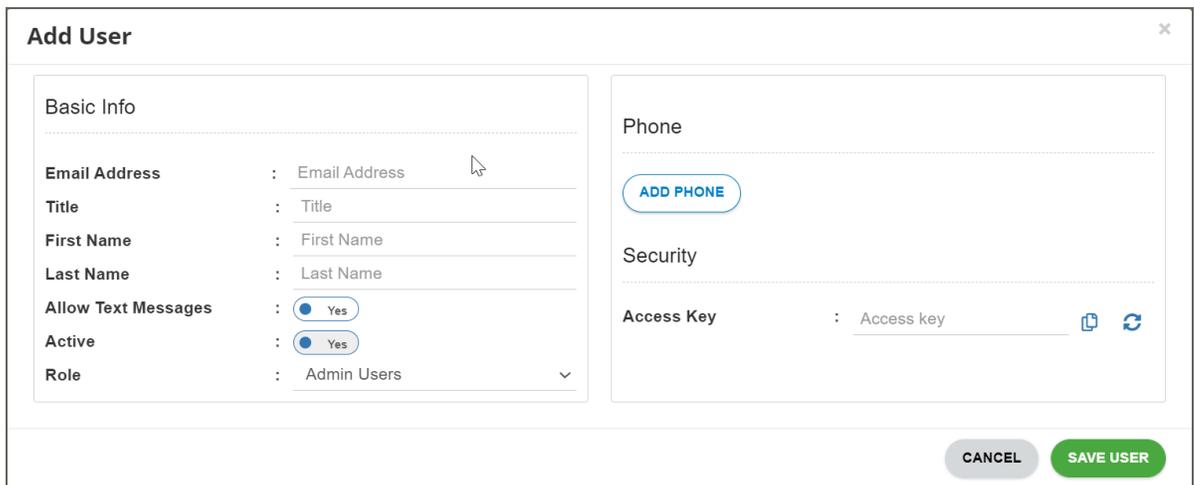
To add a user:

1. Click the **Administration** tab, and select **Users**.
2. Click the **Plus sign**  under the **Users** page title bar, as shown here:



[Figure 93] The Add User button

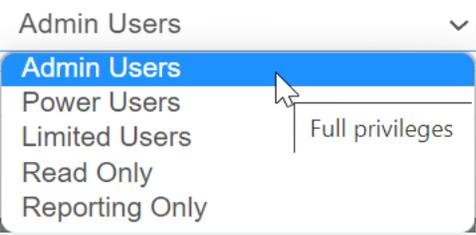
The **Add User** window opens.



[Figure 94] The Add User window

3. Use this table for help with filling in the **Add User** fields:

Setting		Description
Basic Info		In this section, add the user's email address, identifying information, whether they should receive text alerts, and to specify their role.
	Email address	Add the user's corporate email address.
	Title	Add the user's title.

Setting		Description
	First Name/Last Name	Add the user's name.
	Allow Text Messages	Leave the slider at the default (Yes) and add the user's phone number with the Add Phone button. This slider must be set to Yes to permit the user to receive text-based alerts from the sign or device. To deactivate text messaging for a user, move the slider to No.
	Active	Leave the default setting (Yes) to ensure the user has TraffiCloud access. To deactivate the TraffiCloud user account, move the slider to No .
	Role	Choose the role you want to give to the user: 
Here are the available roles and brief descriptions:		
	Admin Users	Full privileges.
	Power Users	Full privileges, except for user management.
	Limited Users	Can edit most options, but can't create and delete.
	Read Only	Can view most options, but is unable to edit.
	Reporting Only	Can edit dashboards and reports only.
Phone	Add Phone	Click the button to add the user's phone number. You can add up to three numbers: Home , Work , and Mobile .
Security	Access Key	An access key is only necessary for users who require access to the API without having to log in. Please contact customer support if you want to use the API.

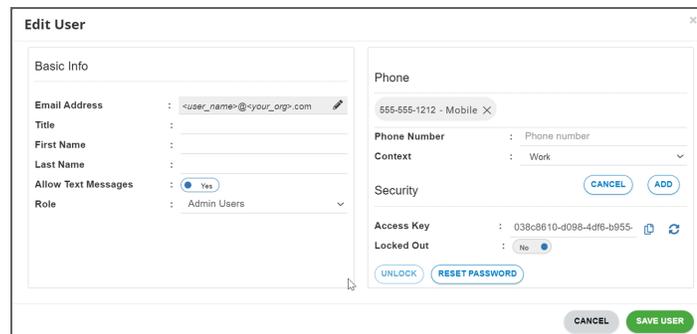
4. Click the **Save User** button.

Editing a user

Use this topic for help with editing a TraffiCloud user. You can edit the settings described in *Adding a user* on page 108, unlock locked out users, and reset passwords.

To edit a user:

1. Click the **Administration** tab, and select **Users**.
2. Click the **Pencil** icon  beside the name of the user you want to edit. The **Edit User** window opens.



The screenshot shows the 'Edit User' window with the following details:

- Basic Info:**
 - Email Address: <user_name>@<your_org>.com
 - Title: (empty)
 - First Name: (empty)
 - Last Name: (empty)
 - Allow Text Messages: Yes
 - Role: Admin Users
- Phone:**
 - Phone Number: 655-555-1212 - Mobile
 - Phone Number label: Phone number
 - Context: Work
- Security:**
 - Access Key: 038c8610-d098-4df6-b955- (copy icon)
 - Locked Out: Yes No
- Buttons:** UNLOCK, RESET PASSWORD, CANCEL, SAVE USER

[Figure 95] The Edit User window

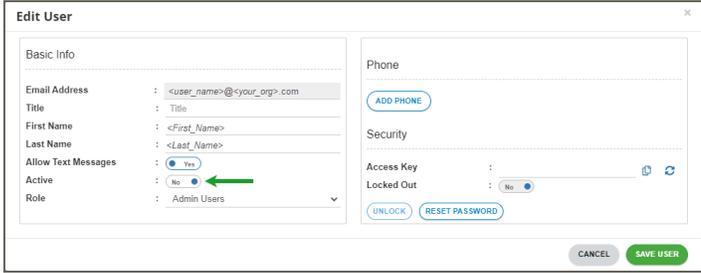
3. Do any of the following:
 - A. Edit any of the settings described in *Adding a user* on page 108.
 - B. If the user is locked out, move the **Locked Out** slider from **Yes** to **No**, and click the **Unlock** button.
 - C. If the user needs a password reset, click the **Reset Password** button. The user will receive a password reset email with a temporary password.
4. Click the **Save User** button.

Deactivating a user

Use this topic to deactivate a user in TrafficCloud.

To add a user:

1. Click the **Administration** tab, and select **Users**.
2. Click the **Pencil** icon  beside the name of the user you want to deactivate. The **Edit User** window opens.



The screenshot shows the 'Edit User' window with the following fields and values:

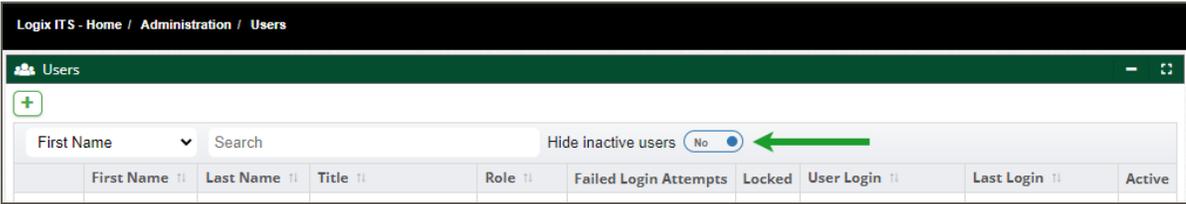
- Basic Info:**
 - Email Address: <user_name>@<your_org>.com
 - Title: Title
 - First Name: <First_Name>
 - Last Name: <Last_Name>
 - Allow Text Messages: Yes
 - Active: No (indicated by a green arrow)
 - Role: Admin Users
- Phone:**
 - ADD PHONE button
- Security:**
 - Access Key: [text field]
 - Locked Out: No
 - UNLOCK button
 - RESET PASSWORD button

Buttons at the bottom: CANCEL, SAVE USER.

[Figure 96] The Edit User window

3. Beside **Active**, move the slider to **No**.

By default, only active users display on the **Administration > Users** page. To show deactivated users, move the **Hide Inactive Users** slider to **No**.



The screenshot shows the 'Users' page with the following elements:

- Header: Logix ITS - Home / Administration / Users
- Section: Users
- Search: First Name [dropdown] Search [input]
- Hide inactive users: No (indicated by a green arrow)
- Table columns: First Name, Last Name, Title, Role, Failed Login Attempts, Locked, User Login, Last Login, Active

[Figure 97] The Hide Inactive users slider

4. Click the **Save User** button.

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