



Getting Started with TraffiCloud: Shield Radar Speed Signs



Shield 12



Shield 15

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About this document

This Getting Started Guide is meant for anyone who needs to set up Shield Radar Speed Signs using TrafficCloud. It provides an introduction to TrafficCloud 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
- » Monitoring the traffic data collected by your signs

This guide presumes that you have already unpacked and set up your signs, per the included *Sh12 and Sh15 Quick Start Guide*, *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 TrafficCloud 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

TrafficCloud 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 Shield Devices](#).

Chapter 1

Overview

All Traffic Solutions Shield Radar Speed 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 Shield Radar Speed 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.

With Shield signs, **Speed Display** is the most popular sign mode, providing immediate feedback about vehicle speed, with optional blinking and strobe warnings, for signs so equipped, at specified speeds.

With Shield Radar Speed Signs and TraffiCloud you can do the following:

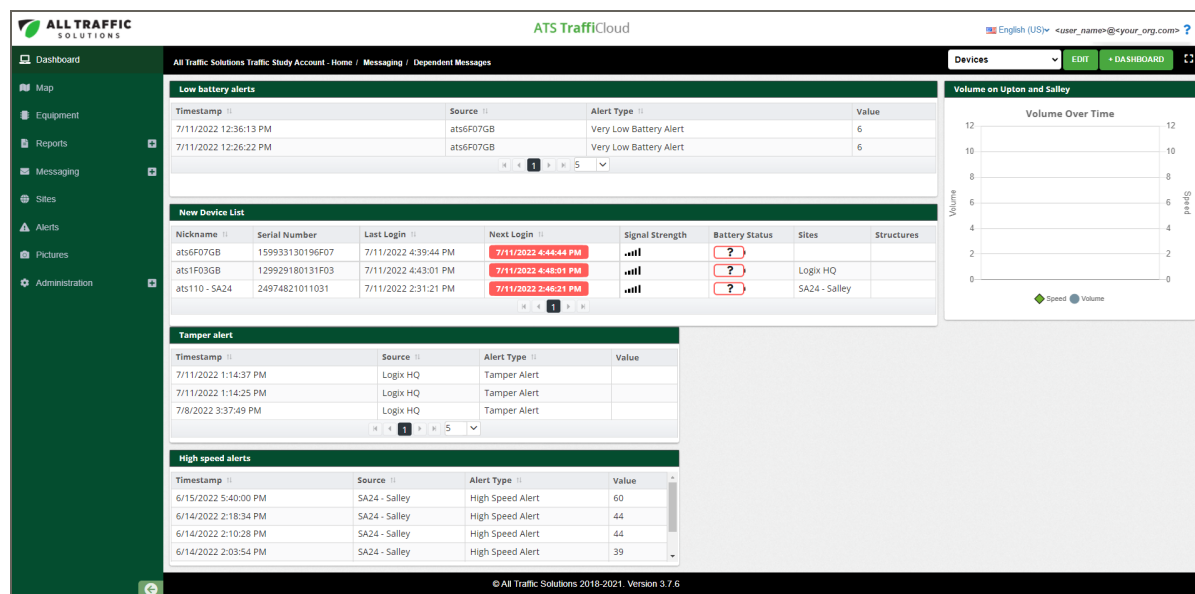
- » Monitor and manage your signs and their Sites,
- » Configure the display settings of your signs,
- » Set up and review alerts from the signs,
- » Generate and print statistical reports based on data gathered by the signs.

Before you begin

Before you begin using TraffiCloud with your Shield Radar Speed 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 TrafficCloud user interface






The TrafficCloud 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 TrafficCloud 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 75.
	Map	Opens the Map page, where you can check your Sites for conflicts on Google Maps. See <i>Understanding the Map page</i> on page 58.
	Equipment	Opens the Equipment page, where you can set your device mode, speed settings schedules, alerts, and more. With Shield signs, Speed Display is the most popular sign mode, providing immediate feedback about vehicle speed, with optional blinking and strobe warnings, for signs so equipped, at specified speeds. See <i>Configuring your sign</i> on page 19.
	Reports	Opens the Reports page, where you can generate  Traffic reports for your Sites. See <i>Generating Reports</i> on page 41.

Icon	Tab	Description
	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 65.
	Pictures	Opens the Pictures page, where you can view photos taken by your signs. See <i>Checking Pictures</i> on page 71.
	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 81.

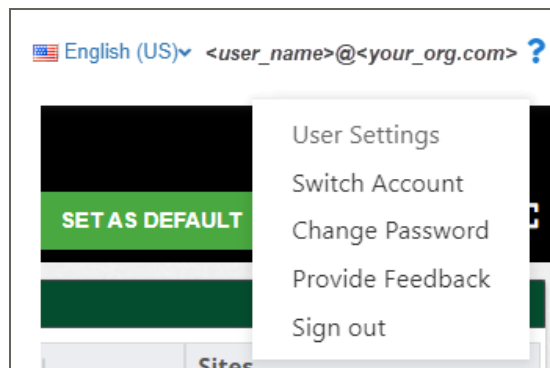
The Dashboard

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 75.

The User menu

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



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

Menu item	Description
User Settings	Opens the Edit User window, where you can change your information, allow TrafficCloud text messaging for the account, add phone numbers, and more. See <i>Editing a user</i> on page 84.
Switch Account	Switches between TrafficCloud accounts if you have more than one. You can also change the default account by clicking Switch Account > Make Primary .

Menu item	Description
Change Password	Opens the Change Password page.
Provide Feedback	Opens a page where you can send feedback about TrafficCloud to Technical Customer Support.
Sign out	Opens the Sign out menu, where you can confirm that you want to sign out.

Chapter 2

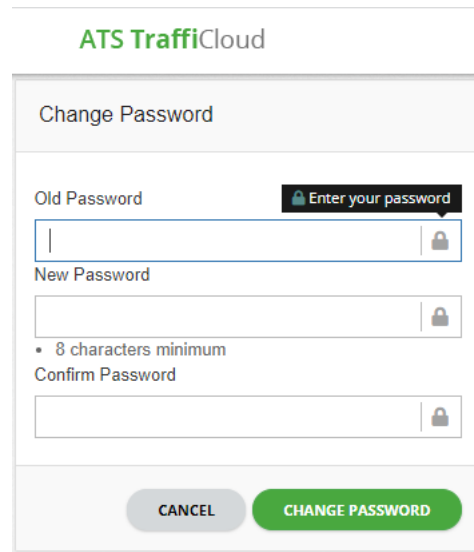
Signing in to TraffiCloud for the first time

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.

The image shows a web form titled "ATS TrafficCloud" with a subtitle "Change Password". It contains three input fields: "Old Password", "New Password", and "Confirm Password". Each field has a password icon (a lock) to its right. A tooltip "Enter your password" is visible over the Old Password field. Below the New Password field, there is a bullet point indicating "8 characters minimum". At the bottom of the form, there are two buttons: a grey "CANCEL" button and a green "CHANGE PASSWORD" button.

[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 TrafficCloud administrator. You can also let your Web browser suggest and save a secure password.
- C. Click the **Change Password** button.

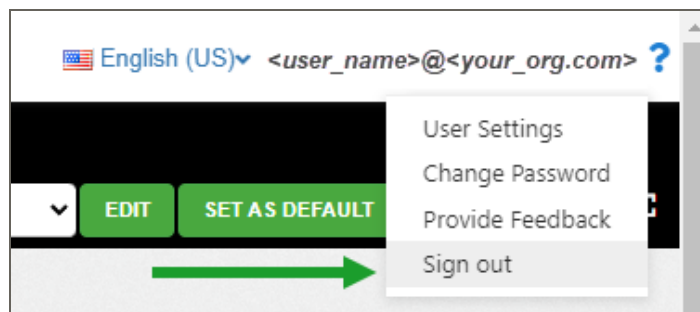
The TrafficCloud **Dashboard** page opens and confirms that you have successfully changed your password. You can reset your password as needed using **Change Password** on the TrafficCloud **User** menu.

Signing out of TrafficCloud

Use this procedure to sign out of TrafficCloud.

To sign out of TrafficCloud:

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




[Figure 3] The User menu > Sign out

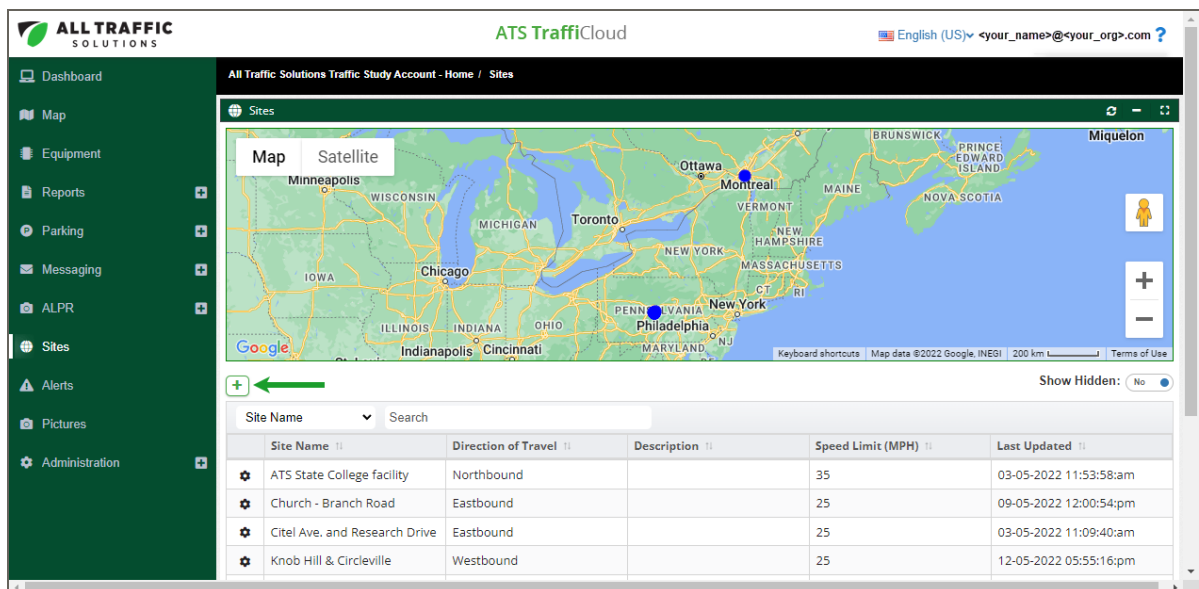
Chapter 3

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 *Sh12 and Sh15 Quick Start Guide*, *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.

Add Site

Name : Site Name

Description : Description

Speed Limit (MPH) : Speed Limit

Primary Direction of Travel :

Show advance options

Q 3100,Research Dr,State College,PA,16801,US

Drag pin to required location

MapSatellite

State College Orthodontics

Nittany Dental Associates

The Learning Station

Enterprise Dr

Cato Ave

Research Dr

W Whitehall Rd

Leisure Ln

Brinswood Dr

Ridgeview Rd

Autumnwood Park

Concord Dr

Gwenedd Ln

Adams Ln

Brittel Ave

Lehigh Dr

Shawfield Dr

Williamson Dr

Stoneside Dr

Westover Dr

Sheffield Dr

State College Alliance Church

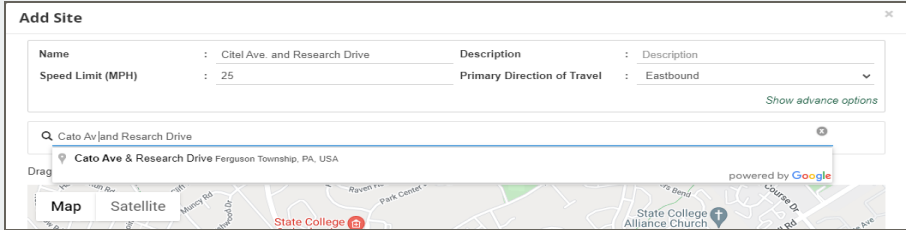
CANCEL



SAVE SITE

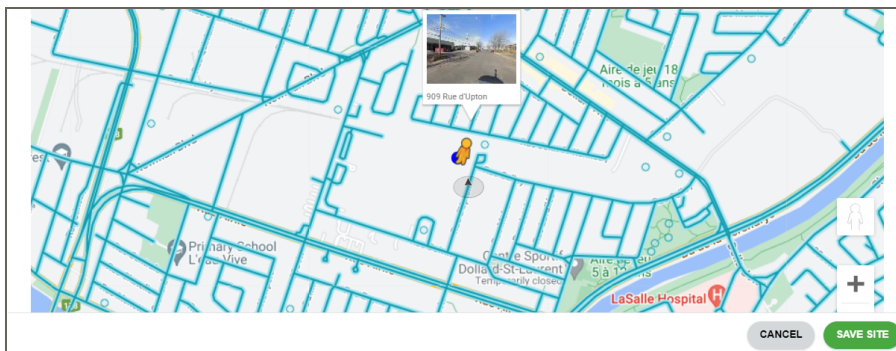
[Figure 5] The Add Site window

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. Shield signs do not detect bidirectional traffic. <div><div></div><div>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.</div></div>

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.



- 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.

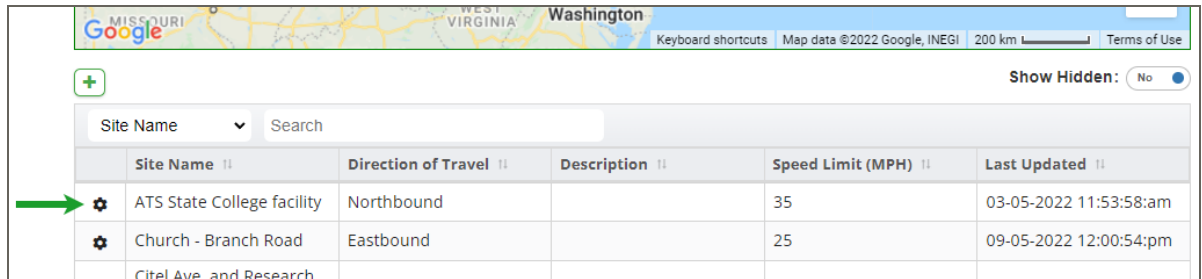
If you'll be using a sign at multiple Sites, you can repeat the above steps for those Sites or add them later.

Editing a Site

Use this procedure to edit an existing Site.

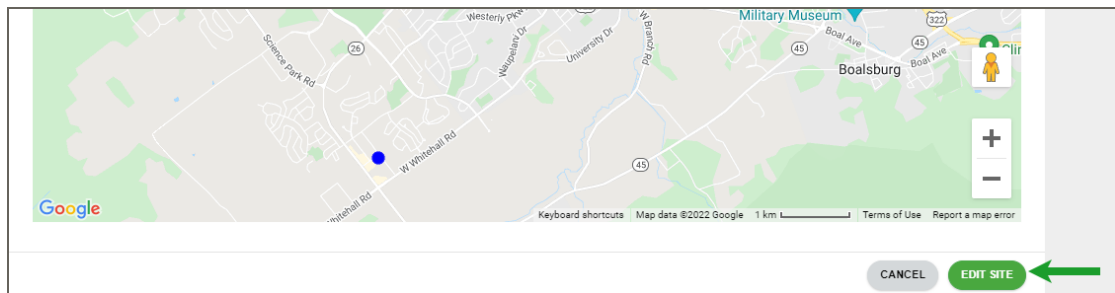
To edit a Site:

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, and daily and weekly schedules.
- » **Assigned Site**, the location TrafficCloud 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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Assigning a Site to your sign

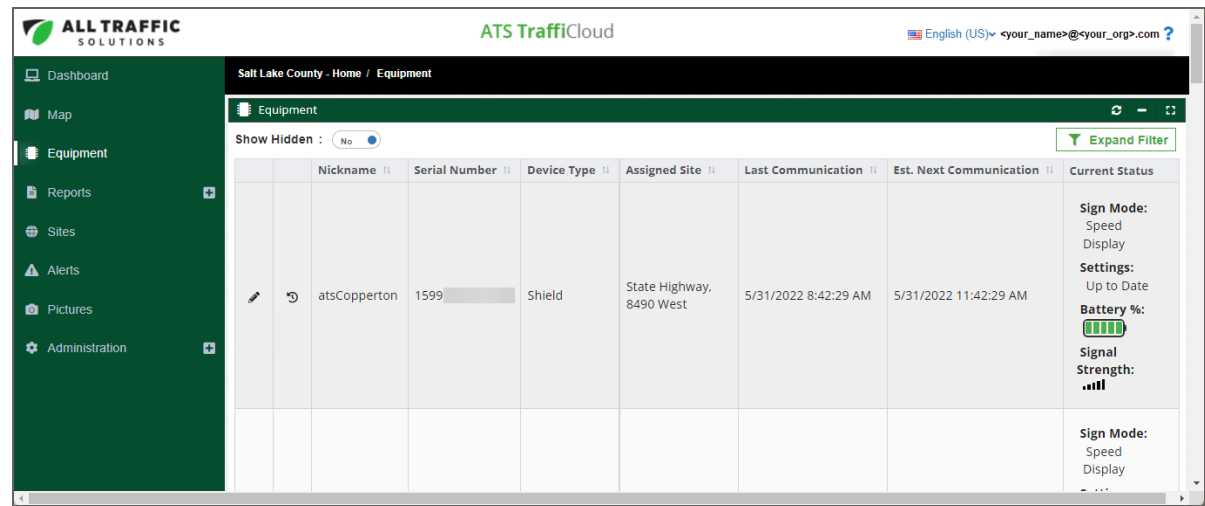
Once you have created a Site, the next thing you'll need to do is assign a sign to the Site using TrafficCloud.

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 Shield Radar Speed Signs, the default is set to **Speed Display**. 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.

The screenshot shows the 'Equipment' configuration window. At the top, there are fields for Nickname (ats1F03GB), Serial Number (129929180131F03), Last Communication (5/12/2022 3:54:29 pm), Device Type (Shield), Time Zone (America/Toronto), and Est. Next Communication (5/12/2022 6:54:29 pm). Below these is a 'General' section with 'Sign Mode' set to 'Daily Schedule'. The 'Assigned Site' dropdown is currently set to 'No Site Assigned' and is open, showing a list of available sites: 'No Site Assigned', 'Logix (Northbound)', 'Newman Eastbound near Shevchenko (Eastbound)', and 'Shevchenko (Northbound)'. A mouse cursor is pointing at 'No Site Assigned'. Below the dropdown is a 'Speed' section with 'Set Speed Limit' and 'Collect Traffic Data between' (5 mph and 135 mph). There are also checkboxes for 'Display Speeds', 'Blink Above', and 'Activate Strobe Above', all of which are checked. At the bottom right, there are 'CANCEL' and 'SAVE ALL EQUIPMENT SETTINGS' buttons.

[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 Shield signs:

The screenshot shows the 'Equipment' page in the TrafficCloud interface. At the top, there's a 'Back' button. Below it, a table displays equipment details: Nickname (atsCopperton), Serial Number (1599), Last Communication (5/31/2022 8:42:29 am), Device Type (Shield), Time Zone (America/Denver), and Est. Next Communication (5/31/2022 11:42:29 am). A 'General' tab is selected, showing 'Sign Mode' set to 'Speed Display' and 'Assigned Site' set to '10 West (Westbo)'. A dropdown menu is open for 'Sign Mode', listing options: Display Off, Speed Limit Sign, Speed Display (highlighted), Daily Schedule, and Weekly Schedule.

[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 the facing page.
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. With Shield signs, Speed Display is the most popular sign mode, providing immediate feedback about vehicle speed, with optional blinking and strobe warnings, for signs so equipped, at specified speeds. See <i>Configuring speed settings</i> on page 25.
Scheduling Using TrafficCloud daily and weekly schedules, you can adjust the speed limit 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.	
Daily Schedule	Adjusts the speed limit used for your sign during scheduled periods of the day. See <i>Setting up a daily schedule</i> on page 27.

Sign Mode	Description
Weekly Schedule	Adjusts the speed limit 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 would usually be necessary only on workdays and during working hours. See <i>Setting up a weekly schedule</i> on page 30.

When do Shields call in?

Here's a quick overview of how Shield Radar Speed 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 : ☐ No ☒

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	<div>Settings: Up to Date</div> <div>Battery %: </div> <div>Signal Strength: </div> <div>Current Message: Speed Display Mode (variable)</div>
		ATS0107	15991622010730	Shield		7/11/2022 8:57:33 AM	7/11/2022 11:57:33 AM	<div>Sign Mode: Daily Schedule</div> <div>Settings: Up to Date</div> <div>Battery %: </div> <div>Signal Strength: </div>

1

15

[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 79.

About call-in scheduling

Shield signs:

- » Send Alerts back to TrafficCloud immediately,
- » Send traffic data and download settings changes every three hours.


Shield call in frequency		
Alerts	Traffic Data	Settings
Immediately	Every 3 hours	Every 3 hours

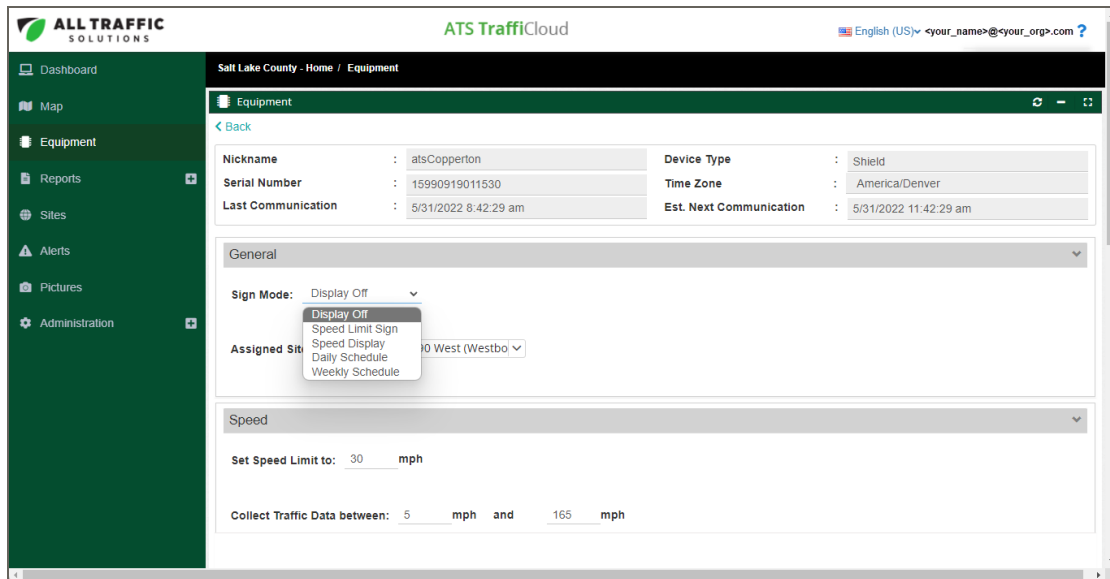
Performing a traffic study

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

3. 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 41.

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.

Speed

Set Speed Limit to: 25 mph

Collect Traffic Data between: 5 mph and 165 mph

Display Speeds ☒ between: 35 mph and 85 mph

Blink Above ☒ 35 mph


Activate Strobe Above: ☒ 35 mph

Radar Sensitivity: 1 8 10

[Figure 13] Speed settings

Use the following table for details about speed settings:

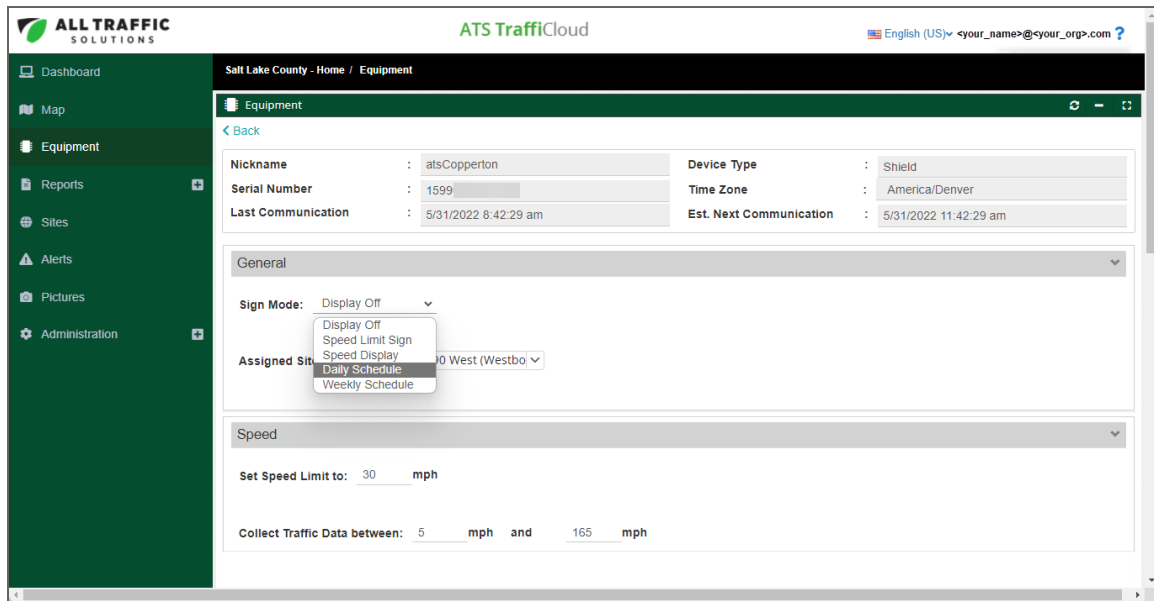
Setting	Description
Set Speed Limit to	Sets the speed limit for the sign. The speed limit is also set in the TrafficCloud Site tab and initially using the Speed Limit button on the sign itself. TrafficCloud settings take precedence over the settings on the physical sign.
Collect Traffic Data between	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.
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.

Setting	Description
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>

Setting up speed schedules

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 14] Selecting a scheduling mode

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


For detailed steps, see:

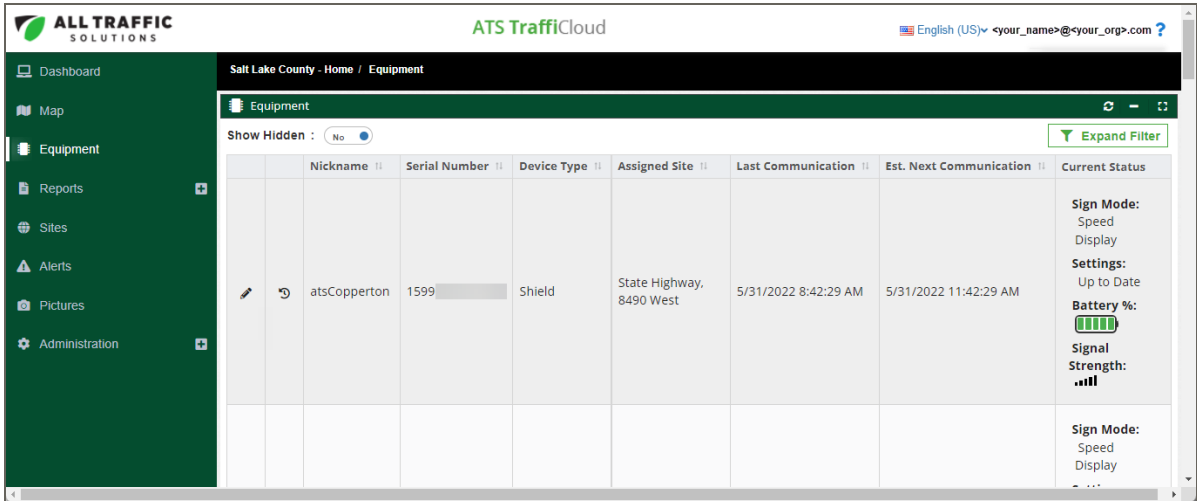
- *Setting up a daily schedule* below
- *Setting up a weekly schedule* on page 30

Setting up a daily schedule

Set your **Sign Mode** to **Daily Schedule** if you want to use the same speed reduction 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.



[Figure 15] 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 14] on the previous page).

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



[Figure 16] 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 **Speed Display**,
 - the camera is enabled, and
 - the options for **Reduce Speed Limit By**, **Reduce Blink Trigger By** and **Reduce Strobe Trigger by** are all reduced by 10 mph.

[Figure 17] 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 and speed reduction.
Sign mode	Set the Sign Mode you want to use (typically Speed Display or Display Off) 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 35.
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.

- 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:

- no speed reduction for the first and last of the three periods of the day,
- the **Sign Mode** set to **Speed Display**, and
- a 10-mph speed reduction from 07:00 to 19:00.

The screenshot shows the 'Daily Schedule' configuration interface. At the top, there's a dropdown menu labeled 'Daily Schedule' and two buttons: '+ NEW WINDOW' and 'SORT'. Below these are three scheduling windows, each with a time range, sign mode, camera status, and speed reduction settings.

Time Range	Sign Mode	Enable Camera	Reduce Speed Limit By (MPH)	Reduce Blink Trigger by (MPH)	Reduce Strobe Trigger by (MPH)
00:00 to 07:00	Speed Display	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>
07:00 to 19:00	Speed Display	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19:00 to 00:00	Speed Display	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>

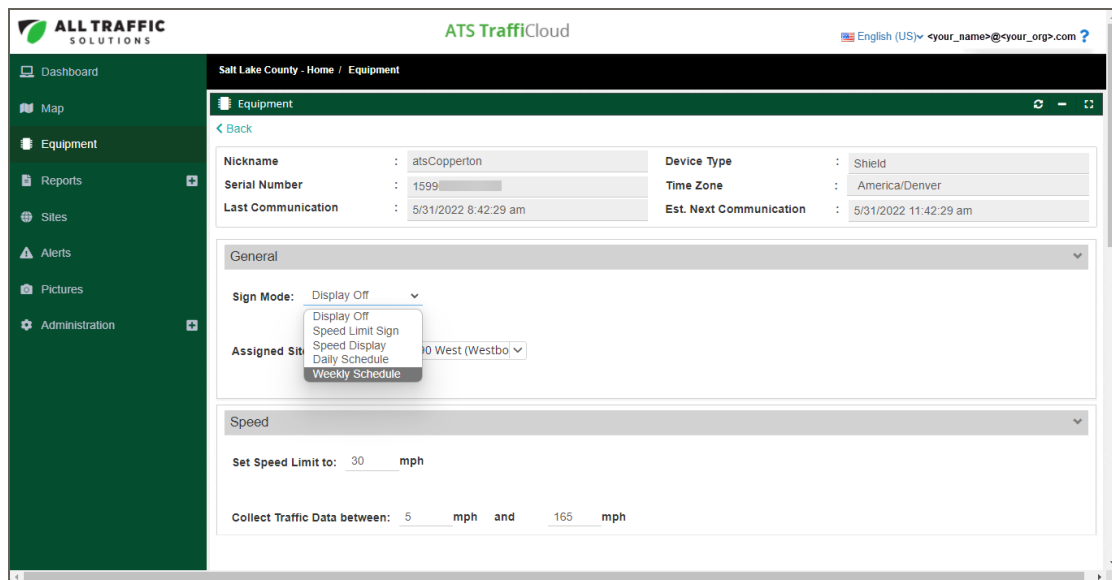
[Figure 18] Daily Schedule - 24 hours

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

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

Setting up a weekly schedule

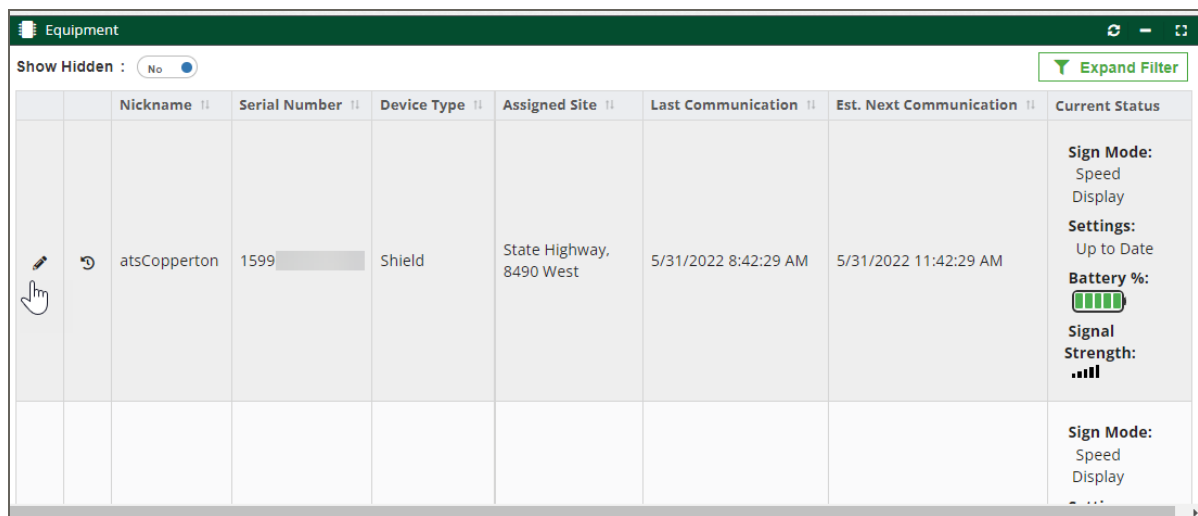
Setting a weekly schedule is more appropriate than a daily schedule for school or construction zones, where the speed reduction would usually be necessary only on workdays and during working hours.



[Figure 19] Sign Mode > Weekly Schedule

To set up a weekly schedule:

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



[Figure 20] 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 19] above).

TraffiCloud adds a **Weekly Schedule** section to your **Equipment** page, like this:

Weekly Schedule

Sunday **Monday** Tuesday Wednesday Thursday Friday Saturday

+ NEW WINDOW SORT COPY TO

07:00 to 19:00 Sign Mode: Speed Display

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 on Mondays to:
 - from 00:00 to 07:00 no speed reduction,
 - from 07:00 to 19:00, a speed reduction of 15 MPH,
 - from 19:00 to 00:00, no speed reduction.
 - **Sign Mode** is set to **Speed Display**,
 - the camera is enabled, and
 - the options for **Reduce Speed Limit By**, **Reduce Blink Trigger By** and **Reduce Strobe Trigger by** are all reduced by 15 mph.

Weekly Schedule

Sunday **Monday** Tuesday Wednesday Thursday Friday Saturday

+ NEW WINDOW SORT COPY TO

00:00 to 07:00 Sign Mode: Speed Display ☒ Enable Camera
Reduce Speed Limit By 0 MPH
☐ Reduce Blink Trigger by 0 MPH ☐ Reduce Strobe Trigger by 0 MPH

07:00 to 19:00 Sign Mode: Speed Display ☒ Enable Camera
Reduce Speed Limit By 15 MPH
☒ Reduce Blink Trigger by 15 MPH ☒ Reduce Strobe Trigger by 15 MPH

19:00 to 00:00 Sign Mode: Speed Display ☒ Enable Camera
Reduce Speed Limit By 0 MPH
☐ Reduce Blink Trigger by 0 MPH ☐ Reduce Strobe Trigger by 0 MPH

CANCEL SAVE ALL EQUIPMENT SETTINGS

[Figure 21] 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 and speed reduction.
Sign mode	Set the Sign Mode you want to use (typically Speed Display or Display Off) 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 35.
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.

6. 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.
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**:

The screenshot shows the 'Weekly Schedule' interface. At the top, there's a tab bar with 'Monday' selected. Below it, there are three time slots: 00:00 to 07:00, 07:00 to 19:00, and 19:00 to 00:00. Each slot has a 'Sign Mode' dropdown set to 'Speed Display'. The 07:00 to 19:00 slot also has 'Enable Camera' checked, 'Reduce Speed Limit By 15 MPH', 'Reduce Blink Trigger by 15 MPH', and 'Reduce Strobe Trigger by 15 MPH'. On the right, a 'Pick Days' dialog is open, showing a list of days from Sunday to Saturday. Tuesday, Wednesday, Thursday, and Friday are checked. At the bottom of the dialog are 'CANCEL' and 'COPY TO SELECTED DAYS' buttons.

[Figure 22] Weekly Schedule > Copy to other days

8. 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' interface with 'Sunday' selected. The time slot is set to 00:00 to 00:00. The 'Sign Mode' is 'Speed Display'. 'Enable Camera' is unchecked. 'Reduce Speed Limit By' is set to 0 MPH. 'Reduce Blink Trigger by 0 MPH' and 'Reduce Strobe Trigger by 0 MPH' are also unchecked. There is a red trash icon and a dropdown arrow on the right side of the settings area.


[Figure 23] Weekly Schedule > No speed reduction

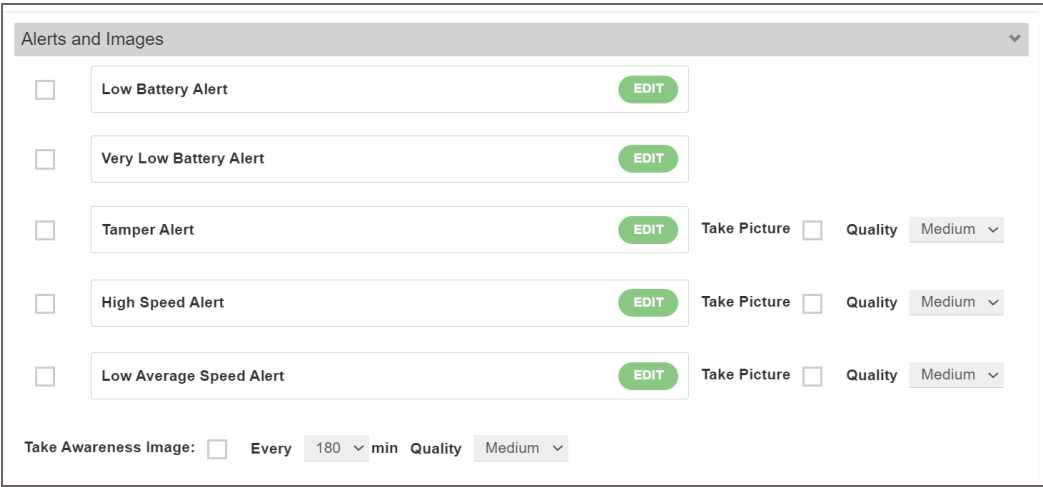
9. Click the **Save All Equipment Settings** button to apply your changes.

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 24] 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", 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 82.• 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 facing page.</p> <p>3. Click the Save Alert button to save your changes.</p>
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 82.</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 facing 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.
High Speed Alert	
Low Average Speed Alert	
	<p> NOTE: The cameras miss vehicles occasionally and image quality is not yet advanced enough to capture license plates.</p>
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 TrafficCloud, 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.

Edit

Alert Type : Low Battery Alert

User	Send sms	Send email
<user_name>@<your_org>.com	No	No
<user_name>@<your_org>.com	No	No
<user_name>@<your_org>.com	No	Yes
	No	No
	No	No

Guest User	Send sms	Send email
<user_name>@<guest_org>.com	No	No
<user_name>@<guest_org>.com	No	No
	No	No
	No	No

Threshold (%) : 30

Auto silence for (min) : 15

CANCEL SAVE ALERT


[Figure 25] The Edit alerts window


3. Use this table for help with editing alerts:

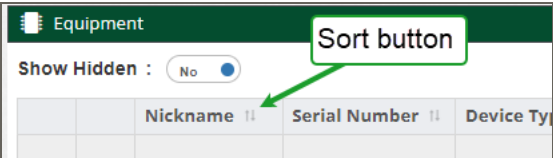
Setting	What you can do
Alert Type	Select the Alert Type you want to edit.
User and Guest User	Enable SMS (text messages) or email (or both) to be sent to selected users.
	Send sms Move the slider to Yes to enable, and No to disable sending text message alerts.
	Send email Move the slider to Yes to enable, and No to disable sending email alerts.
	Users are members of the organization granted access to the TrafficCloud account. Guest users are users granted read only access to the TrafficCloud account.
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.

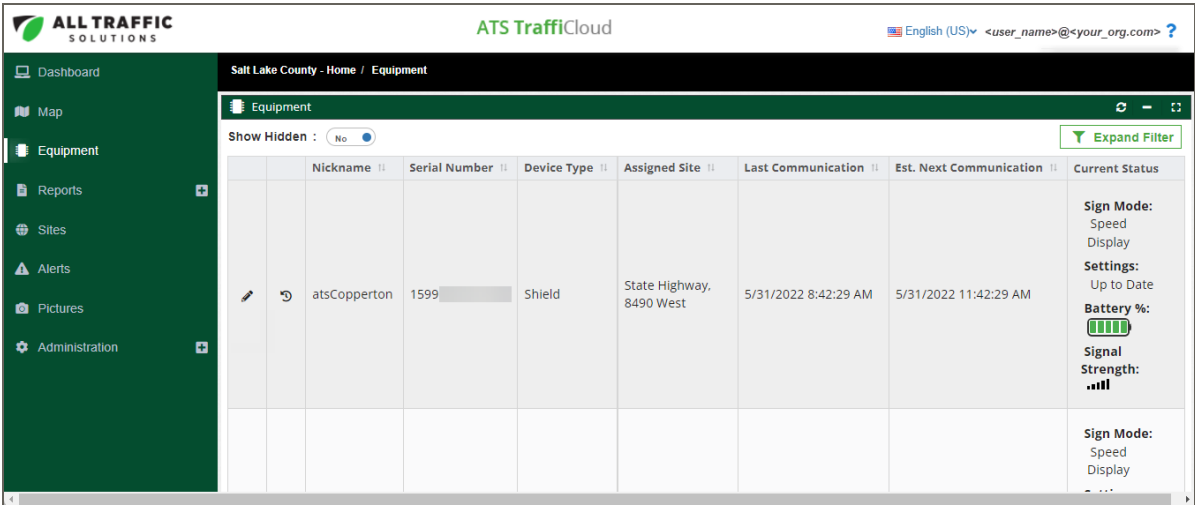
You can also sort the list from first to last by clicking the **Sort** buttons  beside **Nickname** and other column headings.



[Figure 26] The Equipment page > Sort buttons


To set up a Nickname:

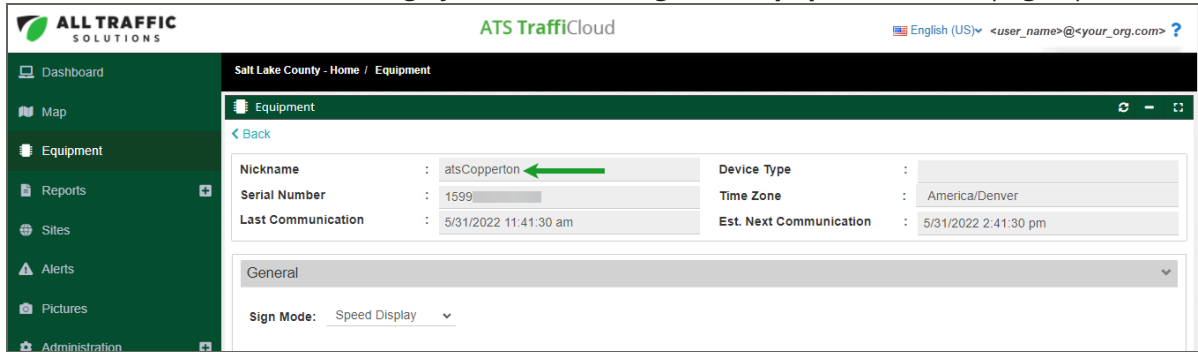
1. Click the **Equipment** tab. Your subscribed signs display in the list.

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. The first row shows a sign with the nickname 'atsCopperton', serial number '1599', device type 'Shield', and assigned site 'State Highway, 8490 West'. The 'Current Status' column shows 'Sign Mode: Speed Display', 'Settings: Up to Date', 'Battery %: 100%', and 'Signal Strength: 4 bars'.

		Nickname	Serial Number	Device Type	Assigned Site	Last Communication	Est. Next Communication	Current Status
		atsCopperton	1599	Shield	State Highway, 8490 West	5/31/2022 8:42:29 AM	5/31/2022 11:42:29 AM	Sign Mode: Speed Display Settings: Up to Date Battery %: 100% Signal Strength: 4 bars
								Sign Mode: Speed Display

[Figure 27] The Equipment table

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



ALL TRAFFIC SOLUTIONS ATS TrafficCloud English (US) <user_name>@<your_org.com> ?

Salt Lake County - Home / Equipment

Equipment

Back

Nickname : atsCopperton Device Type :
 Serial Number : 1599 Time Zone : America/Denver
 Last Communication : 5/31/2022 11:41:30 am Est. Next Communication : 5/31/2022 2:41:30 pm

General

Sign Mode: Speed Display


[Figure 28] The Nickname field

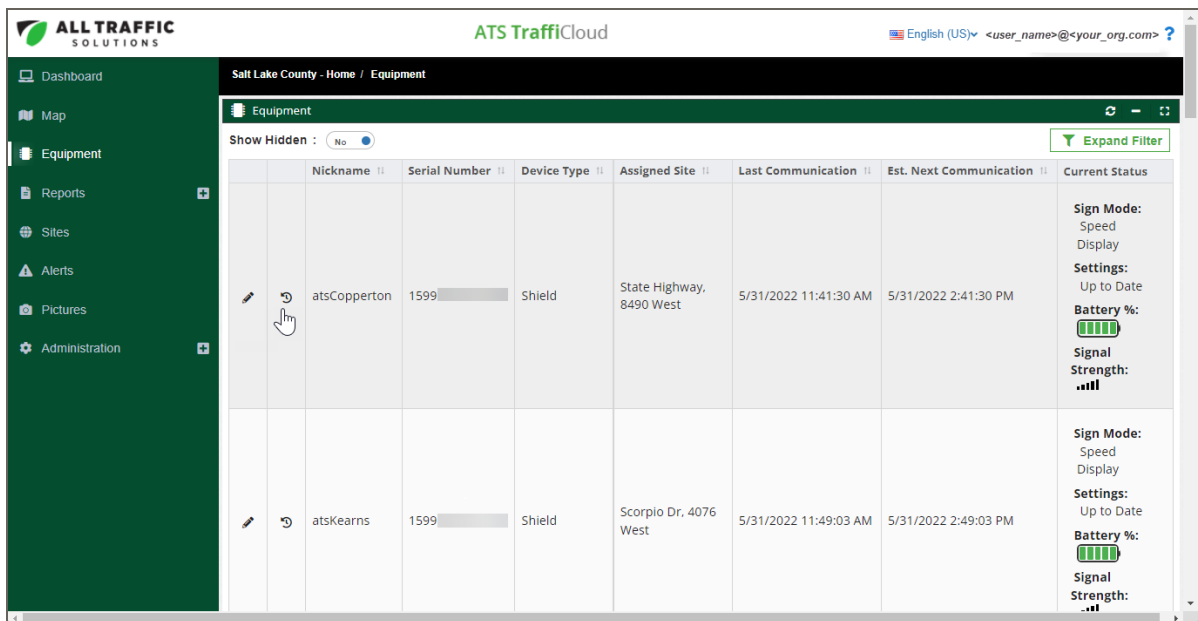
- In the **Nickname** field, enter a new name or revise the existing name. The name must begin with "ats" (upper or lower case) and is limited to 14 characters or less.
- Click the **Save All Equipment Settings** button.

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:

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











ALL TRAFFIC SOLUTIONS ATS TrafficCloud English (US) <user_name>@<your_org.com> ?

Salt Lake County - Home / Equipment

Equipment


Show Hidden: No Expand Filter

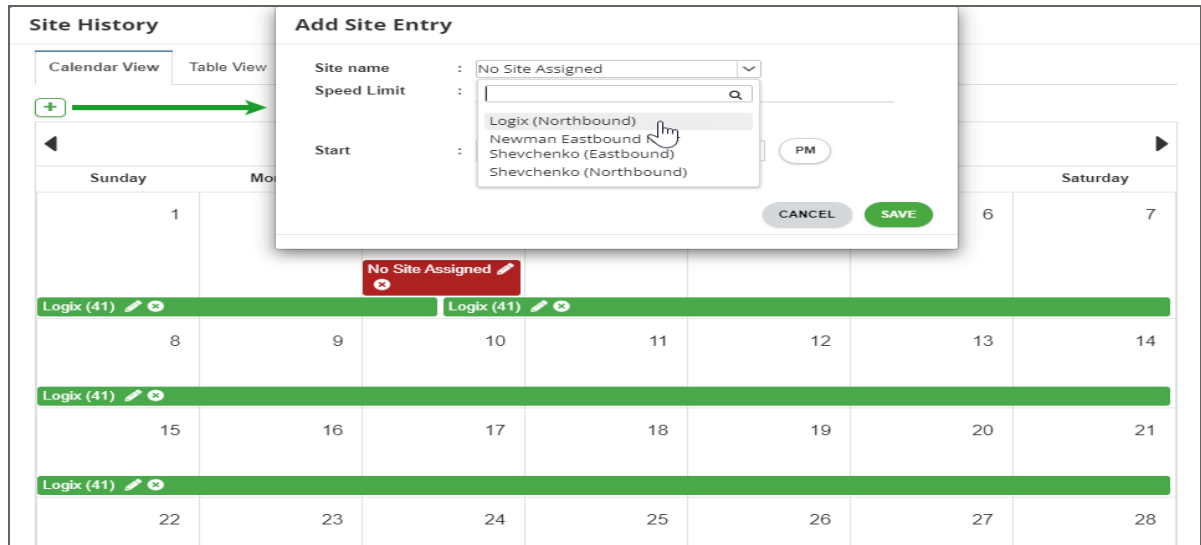
	Nickname	Serial Number	Device Type	Assigned Site	Last Communication	Est. Next Communication	Current Status
 	atsCopperton	1599	Shield	State Highway, 8490 West	5/31/2022 11:41:30 AM	5/31/2022 2:41:30 PM	Sign Mode: Speed Display Settings: Up to Date Battery %:  Signal Strength: 
 	atsKearns	1599	Shield	Scorpio Dr, 4076 West	5/31/2022 11:49:03 AM	5/31/2022 2:49:03 PM	Sign Mode: Speed Display Settings: Up to Date Battery %:  Signal Strength: 

[Figure 29] 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 30]* below.

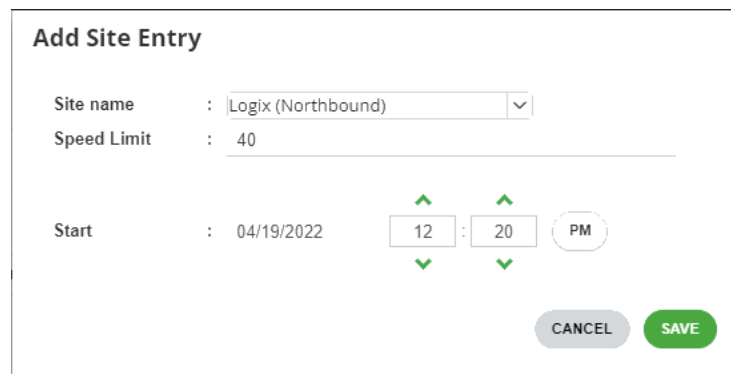
Dates where the sign was deployed are shown with a header bar in the calendar. You can scroll the calendar back to the desired date and click the **Pencil** icon  to select that date.



The image shows the 'Add Site Entry' window in 'Calendar View'. The background is a calendar for August 2022. A green horizontal bar spans from Sunday, August 1st to Saturday, August 7th, labeled 'Logix (41)'. A red banner with a plus icon and the text 'No Site Assigned' is positioned over the calendar. The 'Add Site Entry' modal is open, showing a dropdown menu for 'Site name' with 'Logix (Northbound)' selected. Below it is a 'Speed Limit' field. The 'Start' date is set to 04/19/2022, and the time is 12:20 PM. There are 'CANCEL' and 'SAVE' buttons at the bottom right of the modal.

[Figure 30] 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.



The image shows the 'Add Site Entry' window with the following fields filled out: 'Site name' is 'Logix (Northbound)', 'Speed Limit' is '40', and 'Start' is '04/19/2022' at '12:20 PM'. The time is displayed in two boxes, one for the hour (12) and one for the minute (20), with up and down arrows for selection. There are 'CANCEL' and 'SAVE' buttons at the bottom right.

[Figure 31] 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

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 44.

Topics in this chapter:

Report configuration details	44
Compliance & Risk reports	46
Enforcement Priorities reports	48
Subscribing to Reports	50
Managing report subscriptions	53
Printing reports	56

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:

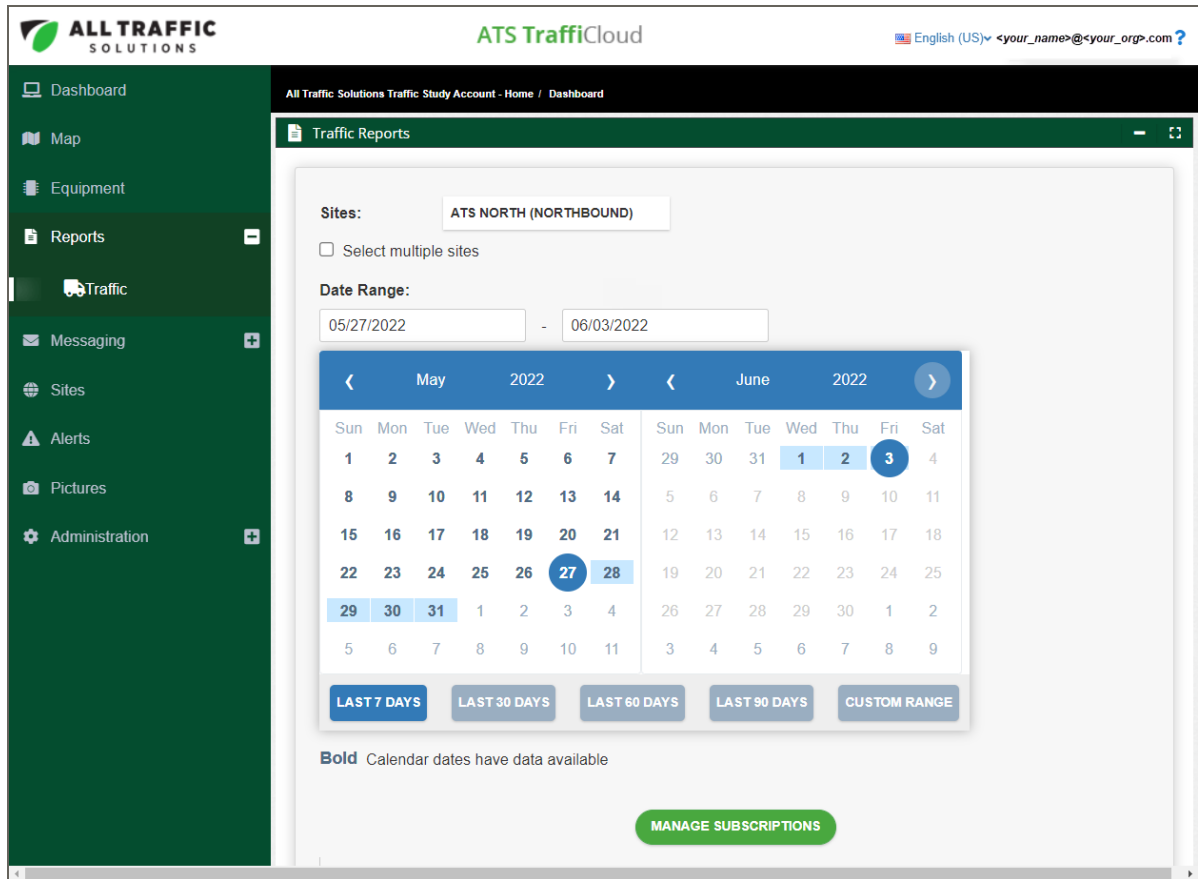
Premium Reports		Standard Reports	
Compliance & Risk	Identifies the volume of compliant drivers vs. low, medium, and high risk drivers.	Volume by Time	Provides traffic counts by hour and date.
Speed Effectiveness	Measures the effectiveness of signs in voluntary speed reduction, comparing speed at first 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 77.

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 44.
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 32] 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 46
- » *Enforcement Priorities reports* on page 48

Report configuration details

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

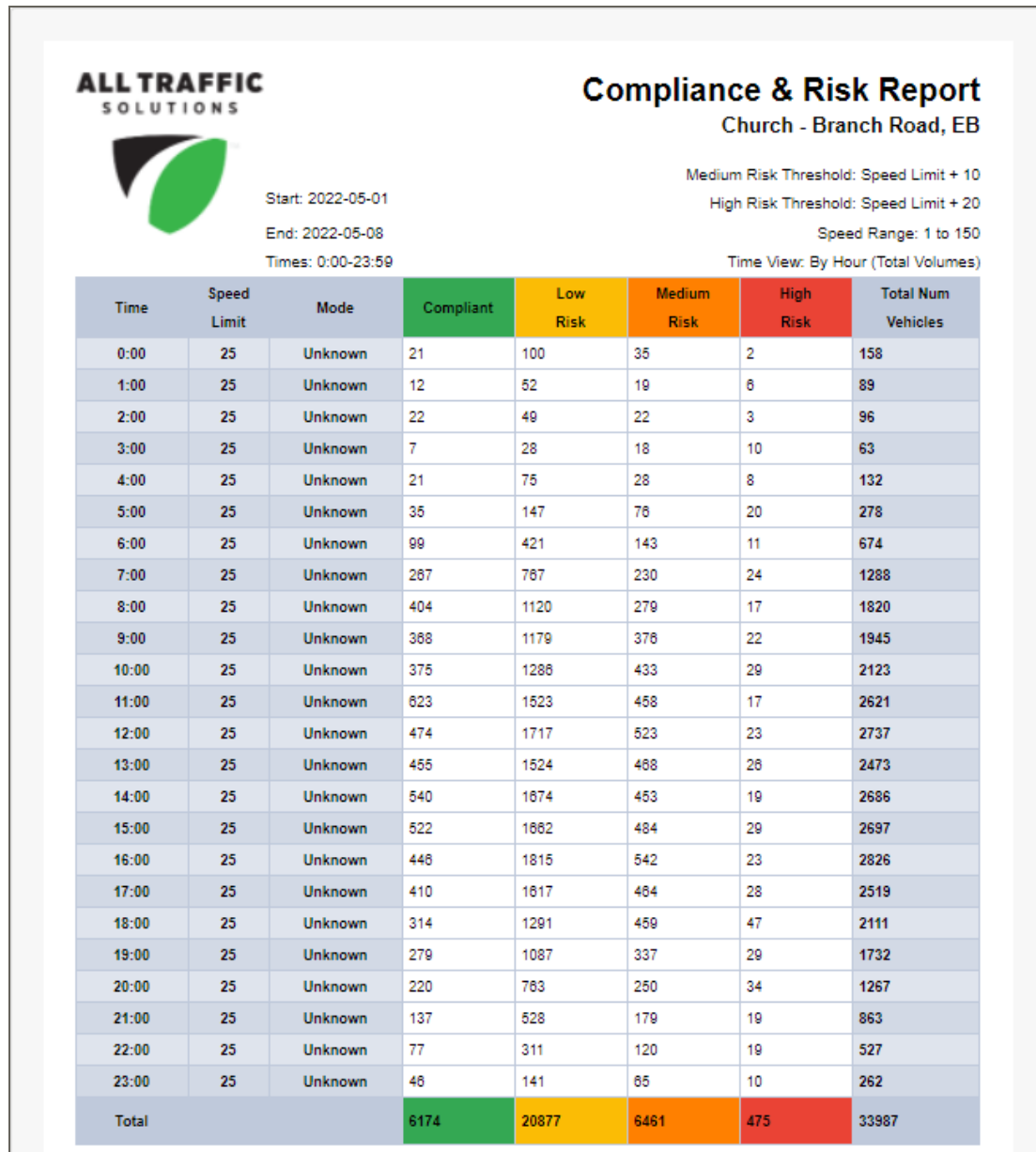
Setting	What you can do
Sites	Select a Site from your list. A report must have a Site assigned before you can generate it. See <i>Assigning a Site to your sign</i> on page 20.
Select multiple sites	Click the checkbox to enable reporting about multiple Sites. Only the Enforcement Priorities report is optimized for multiple Sites.
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 TraffiCloud 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 48

Compliance & Risk reports

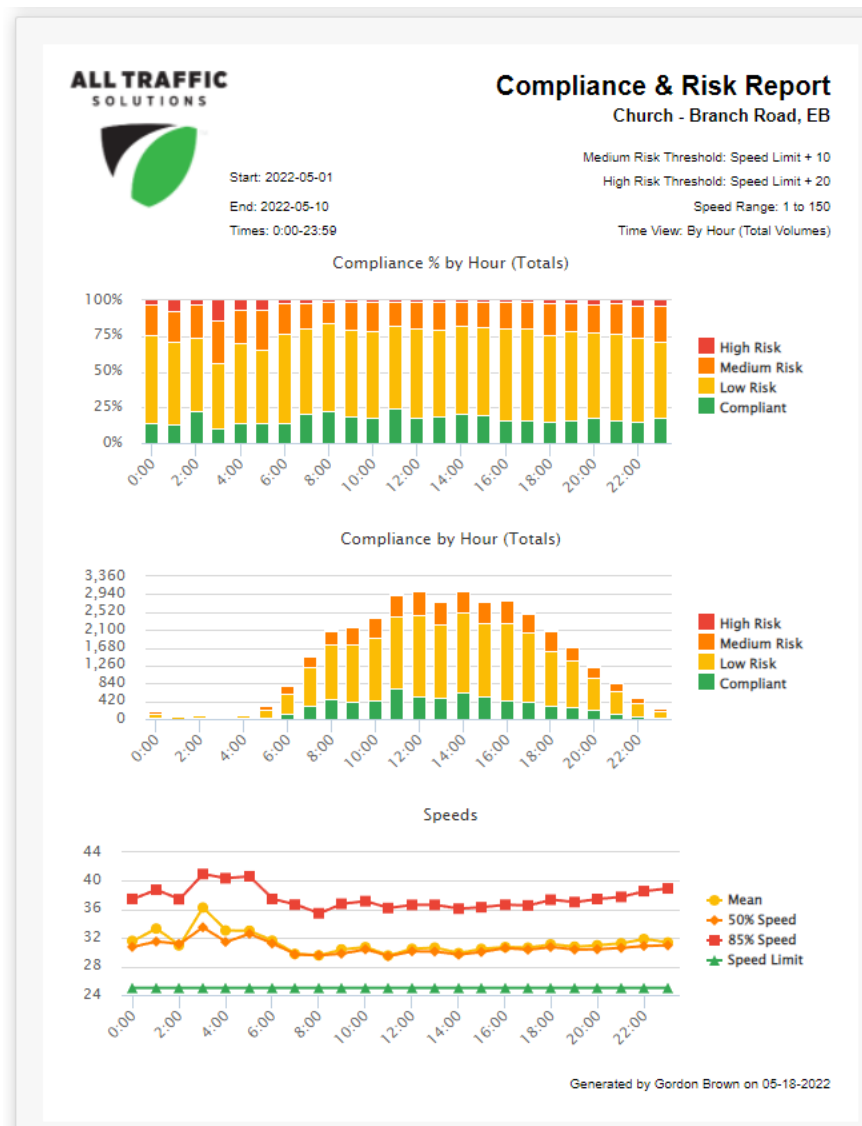
Compliance & Risk reports are one the two most useful reports to law enforcement authorities, along with Enforcement Priorities. Compliance & Risk reports identify the volume of compliant drivers vs. low, medium, and high risk drivers, displaying the results in two pages: in a table and in bar and line 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 33] Compliance & Risk report table

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

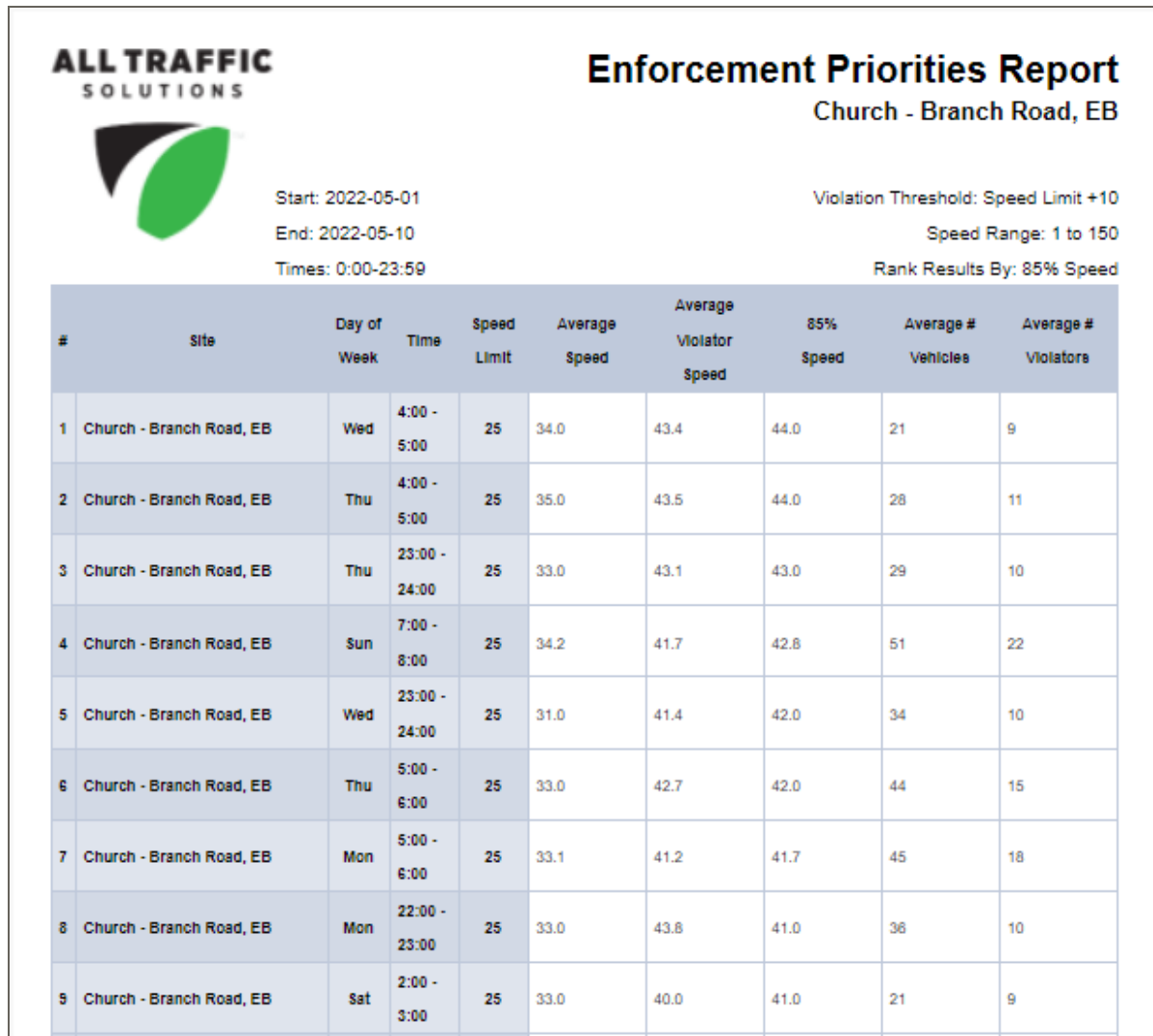


[Figure 34] Compliance & Risk reports charts

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 35] 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**).

ALL TRAFFIC SOLUTIONS		Enforcement Priorities Report							
		Church - Branch Road, EB							
		Start: 2022-05-01				Violation Threshold: Speed Limit +10			
		End: 2022-05-08				Speed Range: 1 to 150			
		Times: 0:00-23:59				Rank Results By: 50% Volume, 50% Speed			
#	Site	Day of Week	Time	Speed Limit	Average Speed	Average Violator Speed	85% Speed	Average # Vehicles	Average # Violators
1	Church - Branch Road, EB	Sat	16:00 - 17:00	25	32.0	39.8	40.0	308	91
2	Church - Branch Road, EB	Sun	12:00 - 13:00	25	30.9	39.3	36.8	376	78
3	Church - Branch Road, EB	Fri	18:00 - 19:00	25	31.7	39.9	37.7	272	77
4	Church - Branch Road, EB	Thu	12:00 - 13:00	25	31.0	39.5	37.6	325	77
5	Church - Branch Road, EB	Mon	12:00 - 13:00	25	30.5	39.3	36.7	350	77
6	Church - Branch Road, EB	Fri	16:00 - 17:00	25	31.0	39.6	37.0	396	76
7	Church - Branch Road, EB	Sat	12:00 - 13:00	25	31.7	39.1	38.2	296	75
8	Church - Branch Road, EB	Wed	10:00 - 11:00	25	31.0	40.2	39.0	283	73
9	Church - Branch Road, EB	Thu	16:00 - 17:00	25	31.0	39.0	36.0	407	74
10	Church - Branch Road, EB	Sun	15:00 - 16:00	25	31.4	39.3	37.3	285	74
11	Church - Branch Road, EB	Sun	16:00 - 17:00	25	32.0	39.0	38.0	262	74

[Figure 36] 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 >

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

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

< June 2022 >

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

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

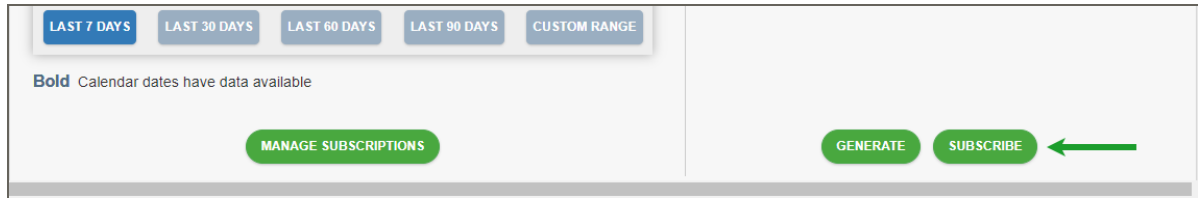
Days of Month: 31 items selected

CANCEL SUBSCRIBE

[Figure 37] Reports > Subscribe window

To subscribe to reports:

1. On the navigation menu, click **Reports > Traffic**, and follow the steps in *Generating Reports* on page 41. Your report displays below the configuration section.
2. Once you have generated your report, click the **Subscribe** button.



[Figure 38] The Subscribe button

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

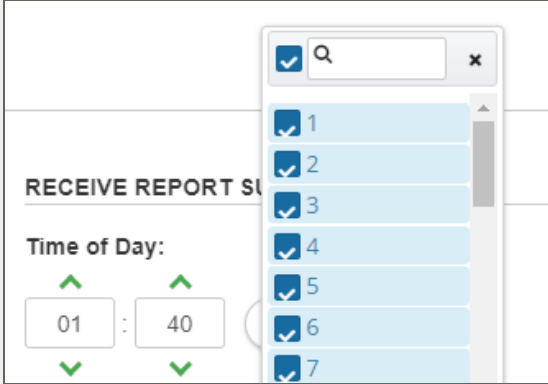
 A screenshot of a 'Report Subscription' window. It is divided into two main sections: 'REPORT SUBSCRIPTION' on the left and 'RECEIVE REPORT SUBSCRIPTION' on the right.
 In the 'REPORT SUBSCRIPTION' section:
 - 'Name:' is a text input field containing 'Church Branch Road - East'.
 - 'Subscribed Users:' is a dropdown menu showing '1 users selected'.
 - 'File Type:' is a dropdown menu showing 'pdf'.
 - 'Active:' is a radio button labeled 'Yes' which is selected.
 In the 'RECEIVE REPORT SUBSCRIPTION' section:
 - 'Time of Day:' has a digital clock set to '12 : 00' and a 'PM' button.
 - 'Days of Week:' is a dropdown menu showing '5 items selected'.
 - 'Days of Month:' is a dropdown menu showing '31 items selected'.
 At the bottom right of the window are two buttons: 'CANCEL' and 'SUBSCRIBE'.

[Figure 39] 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
Subscribed Users	<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><div>REPORT SUBSCRIPTION</div><div><div>Name:</div><div>Church - Branch Road (Eas</div></div><div><div>Subscribed Users:</div><div>Choose</div></div><div><div>File Type:</div><div><input type="checkbox"/> mdemo</div></div><div><div>Active:</div><div><input type="checkbox"/> mdemo@alltrafficsolutions.com</div></div></div>
File Type	Select the type of file to be sent: pdf or csv .
Active	Click the slider to select whether you want the report to be active: Yes or No .
Receive Report Subscription	
Time of Day	Set the time of day you'd like the reports to be sent. The time format is based on 12 hours, AM or PM.
Days of Week	<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><div>RECEIVE REPORT S</div><div><div>Time of Day:</div><div><div>01</div><div>:</div><div>40</div></div></div><div><div>Days of Week:</div><div>5 items selected</div></div><div><div>Days of Month:</div><div>Choose</div></div><div><div>CANCEL</div><div>SUBSCRIBE</div></div></div>

Setting	What you can do
Days of Month	<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> 

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

Managing report subscriptions

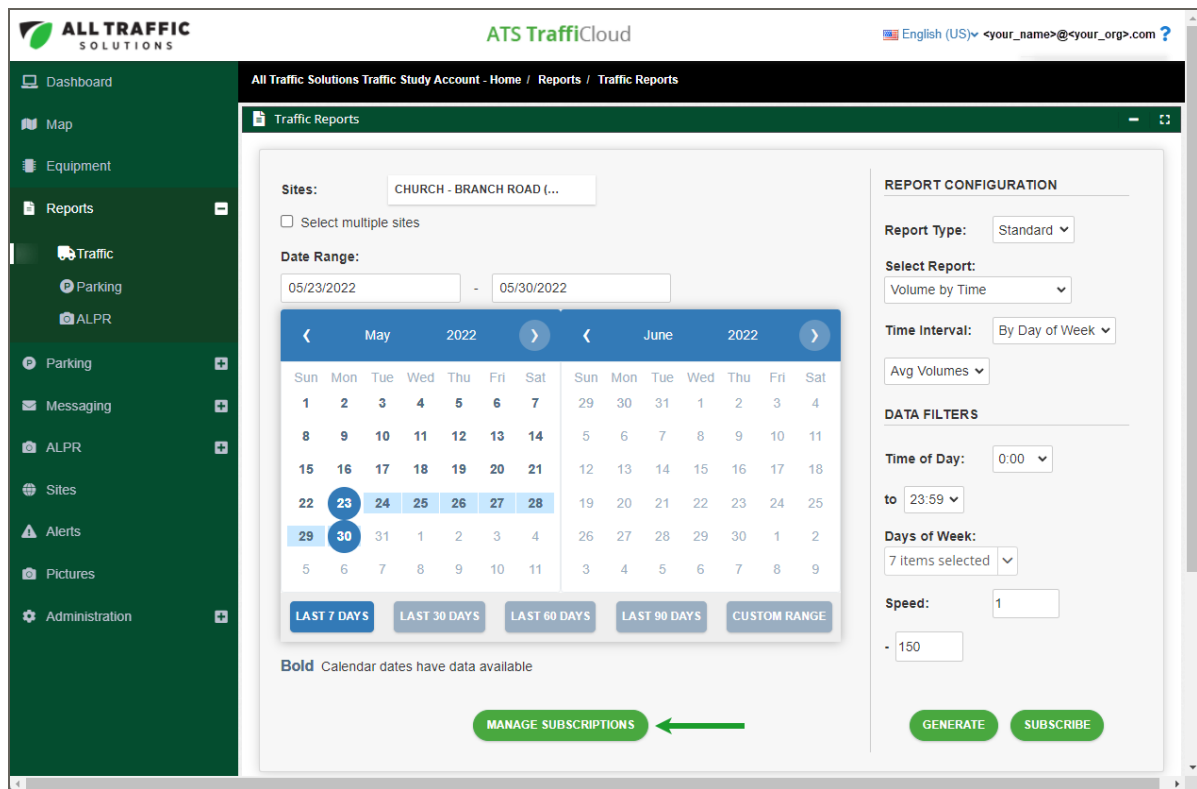
Use this procedure for help with managing report subscriptions.

REPORT SUBSCRIPTION	RECEIVE REPORT SUBSCRIPTION
Name: Church Branch Road - East	Time of Day: <div> <div>12</div> <div>:</div> <div>00</div> <div>PM</div> </div>
Subscribed Users: 1 users selected	Days of Week: 5 items selected
File Type: pdf	Days of Month: 31 items selected
Active: Yes	<div> <div>CANCEL</div> <div>UPDATE</div> </div>

[Figure 40] Report Subscription settings

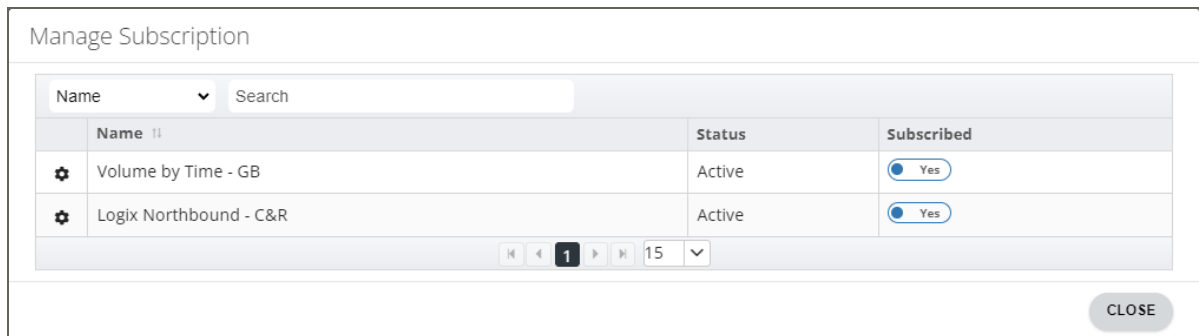
To manage report subscriptions:

- On the navigation menu, click **Reports > Traffic**.
- Click the **Sites** box, and select the Site you want to manage report subscriptions for.
- 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 41] The Traffic Reports page > Manage Subscriptions button

The **Manage Subscription** window opens.



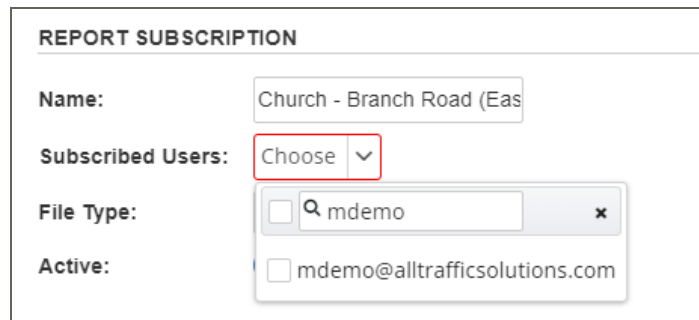
[Figure 42] The Manage Subscription window

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 TrafficCloud users you'd like to subscribe or unsubscribe from the report subscription.

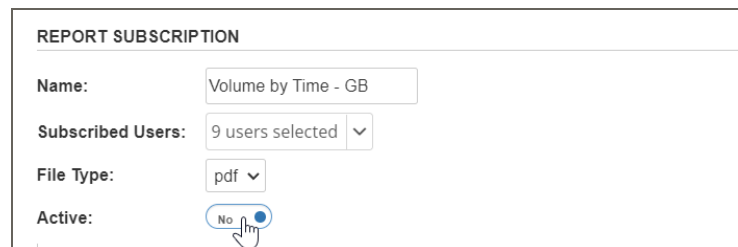
You can type the first few letters of any email address to filter the list. At least one user must be selected to save a report subscription.



The screenshot shows a form titled "REPORT SUBSCRIPTION". It has four fields: "Name:" with the value "Church - Branch Road (Eas", "Subscribed Users:" with a dropdown menu showing "Choose" and a downward arrow, "File Type:" with a search bar containing "mdemo" and a list of users, and "Active:" with a checkbox. The "Subscribed Users" dropdown is open, showing a search bar with "mdemo" and a list of users, including "mdemo@alltrafficsolutions.com".

[Figure 43] 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. The "Name:" field now contains "Volume by Time - GB". The "Subscribed Users:" dropdown shows "9 users selected". The "File Type:" dropdown shows "pdf". The "Active:" field has a slider control with "No" and "Yes" options. The slider is currently set to "No", and a mouse cursor is pointing at it.

[Figure 44] The Report Subscriptions Active/Inactive slider

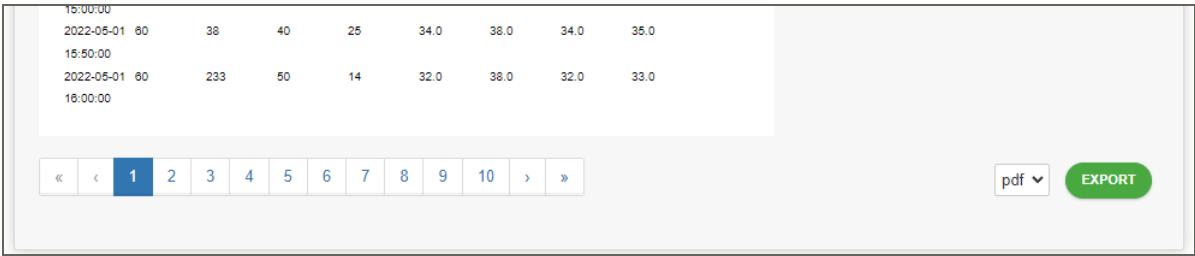
6. After you have completed your selections, click the **Update** button. The changes will be updated for the Site at the next communication window.

Printing reports

Use this procedure for help with printing reports from TrafficCloud.

To print reports:

- 1. Generate a report. See *Generating Reports* on page 41.
- 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 45] 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 50.

Chapter 6

Using the Map page to view Sites

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

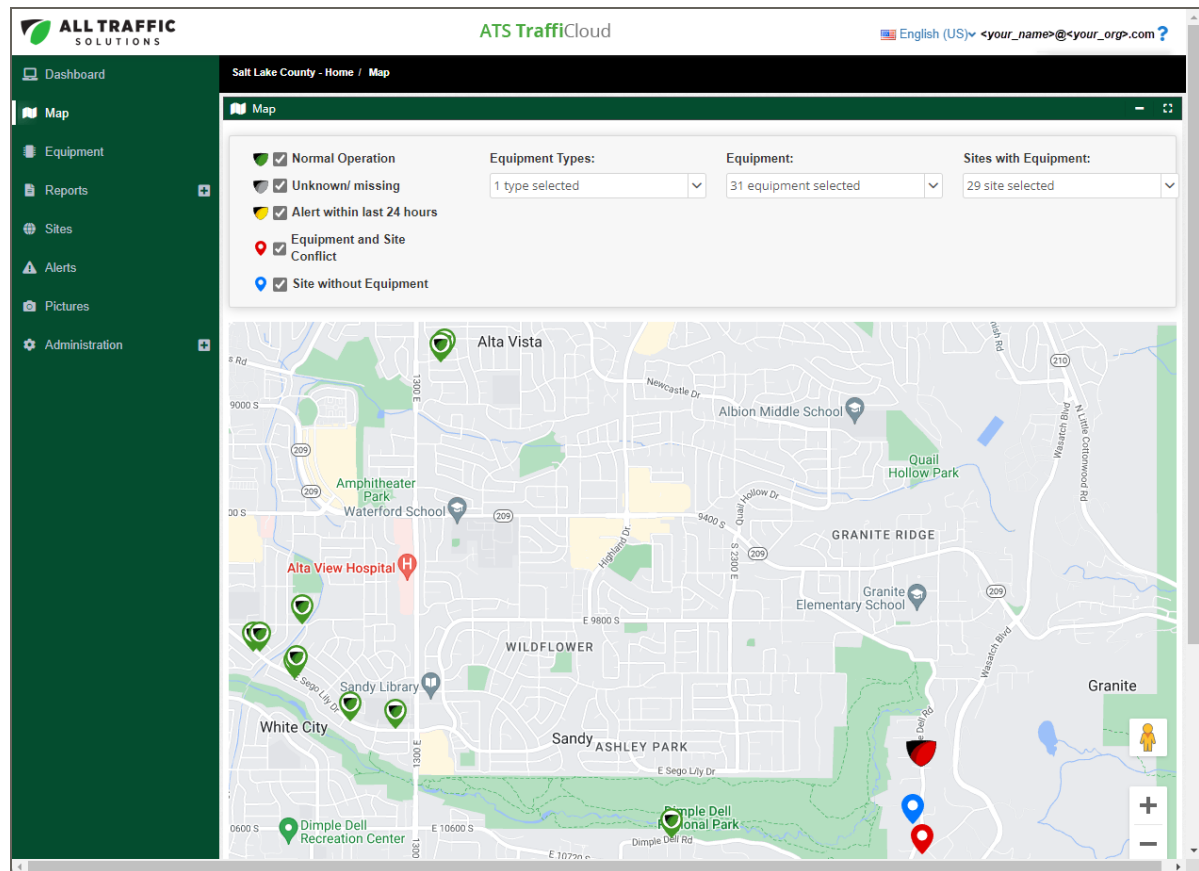
Topics in this chapter:

Understanding the Map page	58
Filtering the Map page	61
Resolving equipment and Site conflicts	62

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 📍.



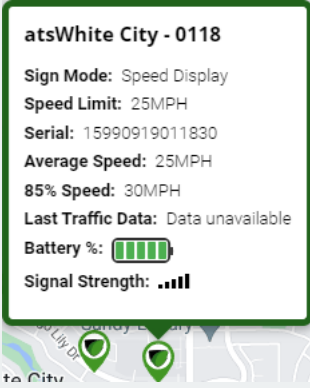

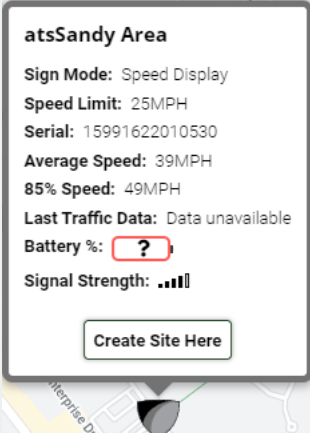
[Figure 46] The Map page

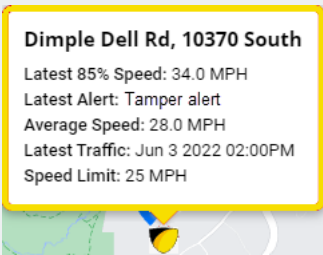
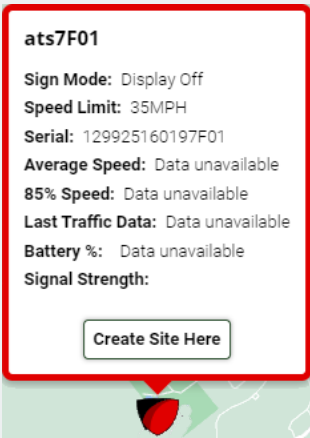

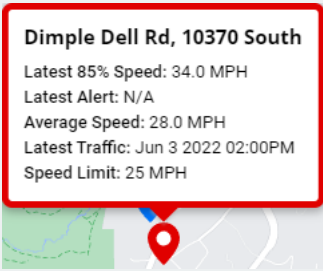
Map page status markers and popups


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>

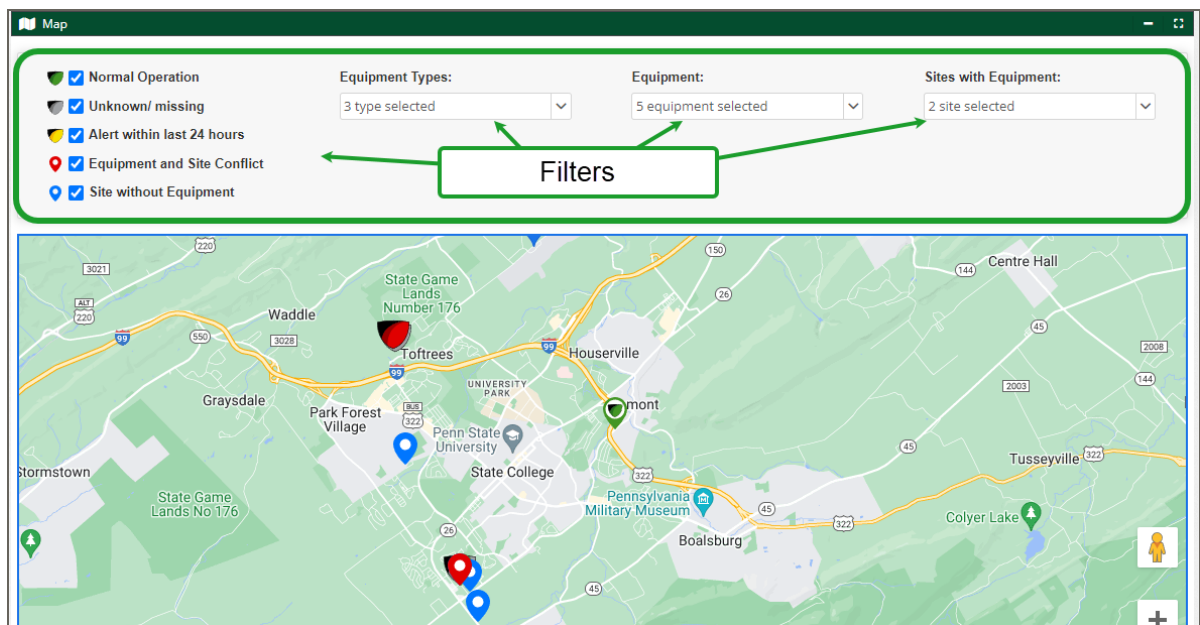
Status marker and popup	Name	Description
	Alert within last 24 hours	<p>The Site has registered an alert within the past 24 hours. The popup displays:</p> <ul style="list-style-type: none"> • Latest 85% Speed • Latest Alert • Average Speed • Latest Traffic • Speed Limit
	Equipment and Site Conflict	<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 62.</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
	Equipment and Site Conflict	<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 62.</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</p> <p>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	<p>The Site has no equipment assigned to it, and the popup displays the following categories, with no data:</p> <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 47] The Map page > Filters

To filter the Map page:

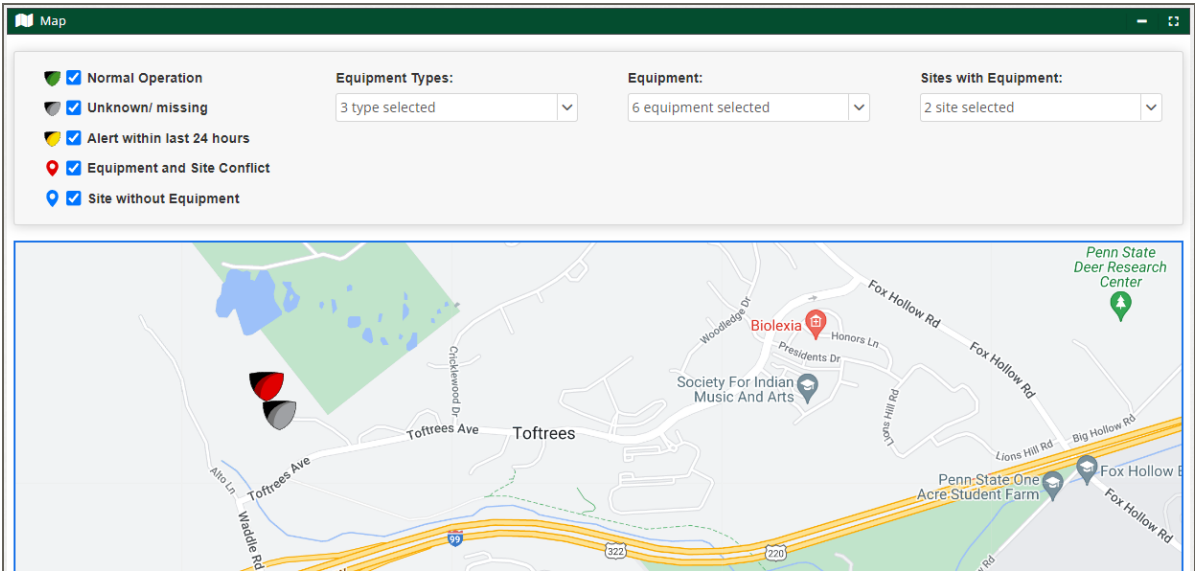
1. On the navigation menu, click the **Map** tab. The **Map** page opens.
2. Set the zoom level you prefer. Typically, you need to zoom until you can see street names. To zoom in,
 - » Do any of these: Roll the middle mouse button forward, use the **+ sign** on the bottom right corner of the map, or 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.

3. 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 58.
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 60.



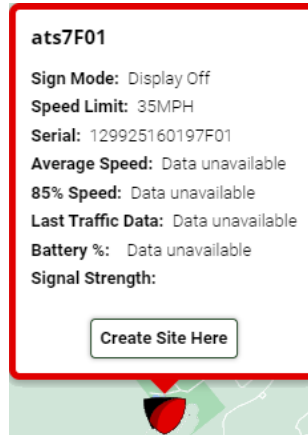
[Figure 48] The Map page > Equipment and Site Conflict

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 49] 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 7

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:

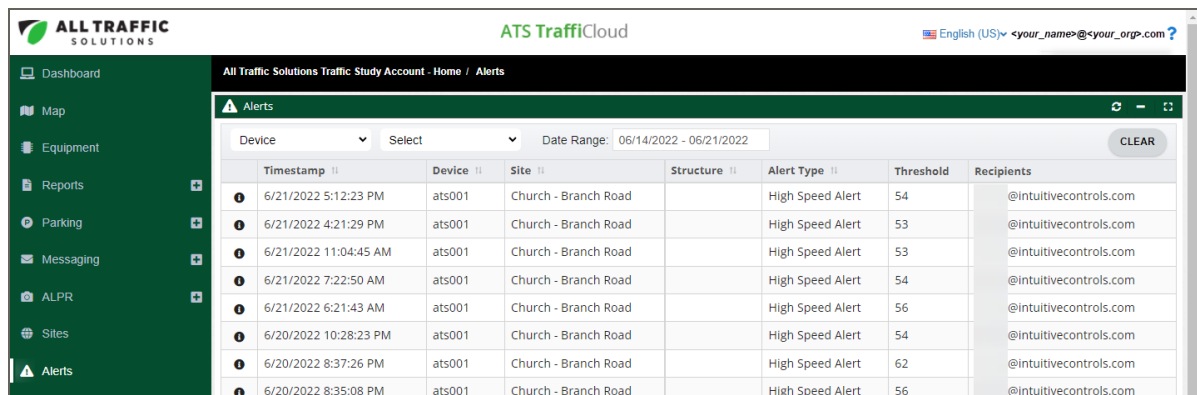
Viewing Alerts	66
The View Alert window	67
Filtering Alerts	68

See also

- » *Configuring Alerts and Images* on page 35
- » *Checking Pictures* on page 71
- » *Setting up an Alert History Dashboard widget* on page 78

Viewing Alerts

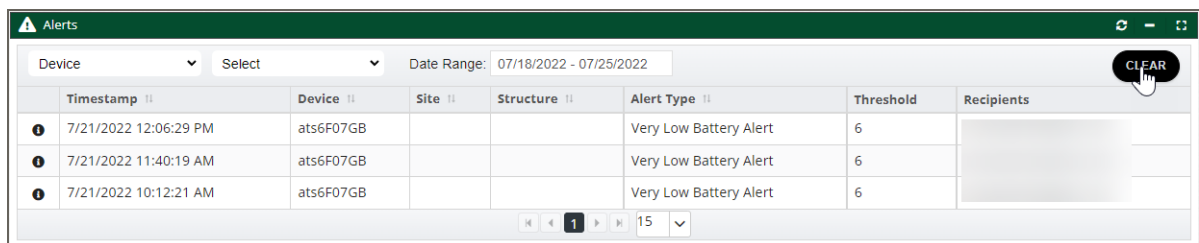
Use this topic for details about viewing **Alerts**, which are event notifications sent to TrafficCloud users for issues such as low battery, and tampering, and high speed or low speed (congestion) events.



[Figure 50] 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 51] 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 TrafficCloud displays. See <i>Filtering Alerts</i> on page 68.
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 35.
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 78.

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 35.

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 52] The View Alert window

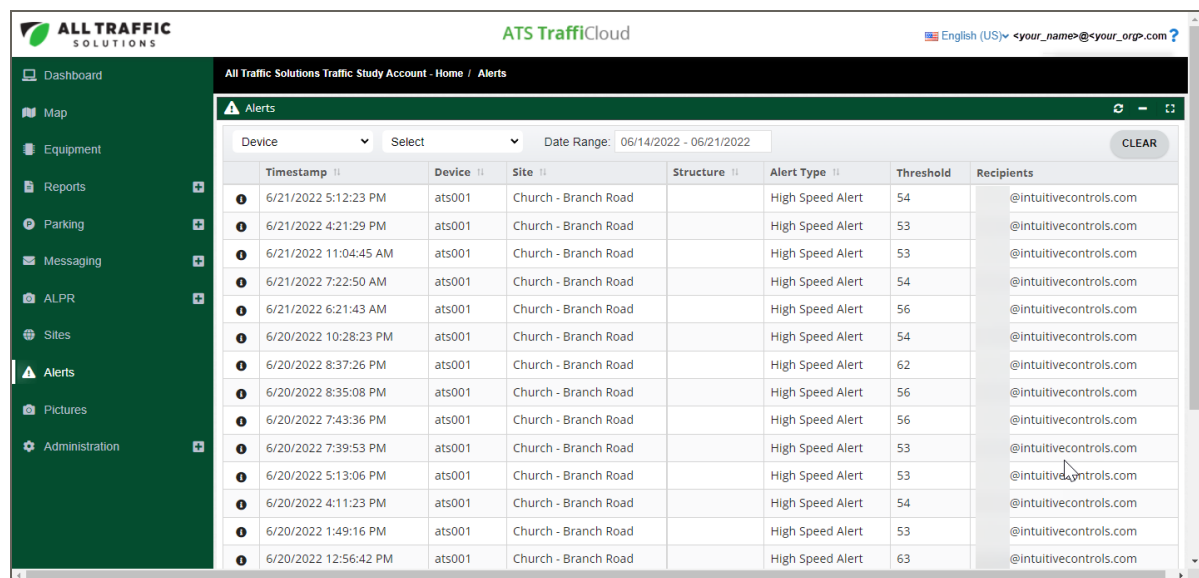
Setting	Description
Timestamp	The timestamp when the Alert was sent.
Device	The device Nickname .
Site	The Site name representing the physical location of your sign.

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 53] 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:

The screenshot shows the ATS TrafficCloud interface. On the left is a green sidebar with navigation links: Dashboard, Map, Equipment, Reports, Parking, Messaging, and ALPR. The main header area displays 'All Traffic Solutions Traffic Study Account - Home / Alerts'. Below this is an 'Alerts' section with a green header and a warning icon. A 'Device' dropdown menu is open, showing a list of devices: 131202200123-01, ats001, **ATS0107** (highlighted), ATS0123, ats1F02, ats1F03, ats7F01, and ats8F02. The background table shows alert data with columns: Timestamp, Structure, Alert Type, and Threshold.

Timestamp	Structure	Alert Type	Threshold
6/21/2022 5:18:02 PM	Church - Branch Road	High Speed Alert	53
6/21/2022 5:12:23 PM	Church - Branch Road	High Speed Alert	54
6/21/2022 4:21:29 PM	Church - Branch Road	High Speed Alert	53
6/21/2022 11:04:45 AM	Church - Branch Road	High Speed Alert	54

[Figure 54] Alerts > Filtering by Device

In [Figure 55] below, the first filter is set to **Site**, resulting in the following Site list to filter the display further:

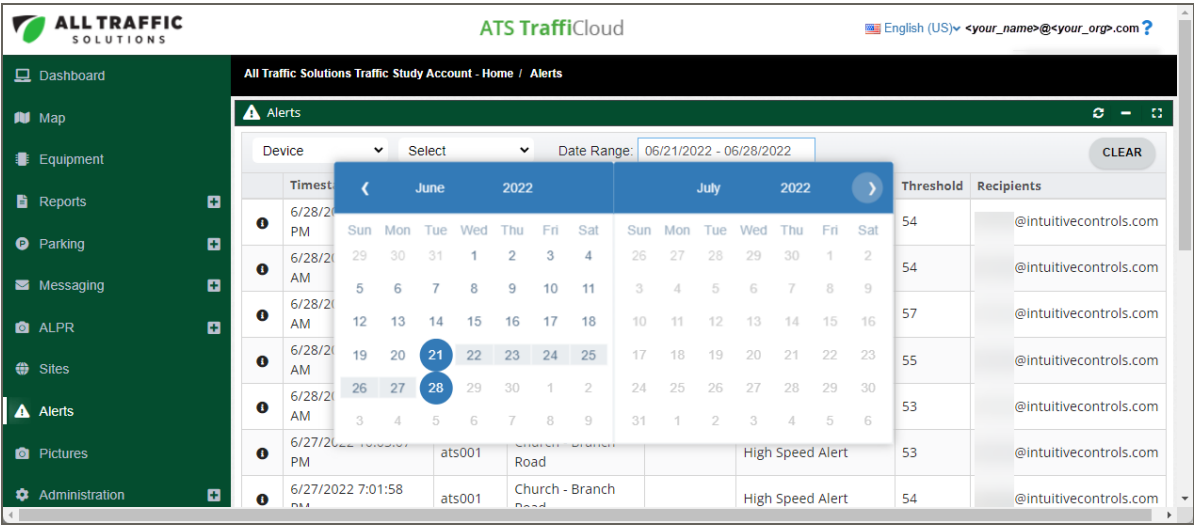
The screenshot shows the ATS TrafficCloud interface with the 'Site' filter selected. The 'Select Site' dropdown menu is open, displaying a list of sites: Andrew Test (Westbound), ATS State College facility (Northbound) (highlighted), ats test (Eastbound), beaver stadium (Eastbound), Church - 1H 2019 (Southbound), Church - 2H 2018 (Northbound), Church - 2H 2019 (Southbound), Church - 2H 2020 (Northbound), and Church - 2H 2021 (Northbound). The background table shows alert data with columns: Timestamp, Structure, Alert Type, and Threshold.

Timestamp	Structure	Alert Type	Threshold
6/21/2022 5:18:02 PM	Church - Branch Road	High Speed Alert	53
6/21/2022 5:12:23 PM	Church - Branch Road	High Speed Alert	54
6/21/2022 4:21:29 PM	Church - Branch Road	High Speed Alert	53
6/21/2022 11:04:45 AM	Church - Branch Road	High Speed Alert	54
6/21/2022 7:22:50 AM	Church - Branch Road	High Speed Alert	56
6/21/2022 6:21:43 AM	Church - Branch Road	High Speed Alert	54
6/20/2022 10:28:23 PM	Church - Branch Road	High Speed Alert	54

[Figure 55] Alerts > Filtering by Site

[Figure 56] 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 56] Alerts > Filtering by Date Range

Chapter 8

Checking Pictures

Use this topic for help with checking photos available from the TrafficCloud **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 73),
- » Drop-down lists, where you can filter the display by **Site**, **Date Range**, **Image Type**, and **Device**,

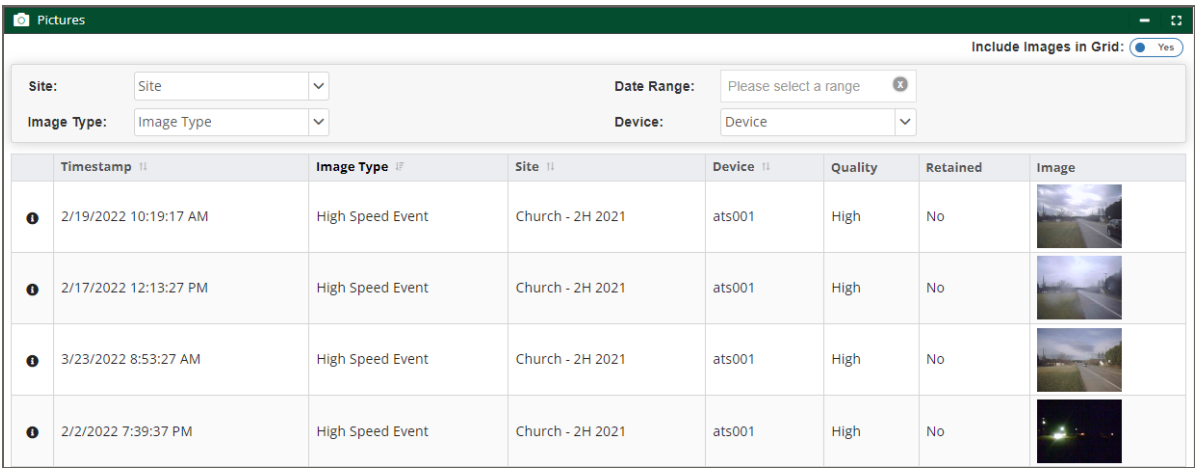
To configure your sign to take pictures, go to the **Equipment page** for your sign and scroll down to **Alerts and Images**. You can enable automatic picture-taking based on **Tampering**, **High Speed**, or **Low Speed** events, or take **Awareness Images**, photos triggered at set intervals, independent of a specific event. See *Configuring Alerts and Images* on page 35.

Topics in this chapter:

The Pictures page	72
Managing pictures	73

The Pictures page



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



[Figure 57] 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). By default, photos from all Sites display. Click the down arrow to select or search by Image Type .

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.

Preview



Timestamp : 5/8/2022 7:24:44 PM

Image Type : High Speed Event

Speed : 57

Site : Church - 2H 2021

Device : ats001

Picture Quality : High

Retain this image past 6 months? : ☐ No ☒ Yes

Comments :

PRINT

DELETE

PREVIOUS

CLOSE

SAVE

NEXT

[Figure 58] The Preview window

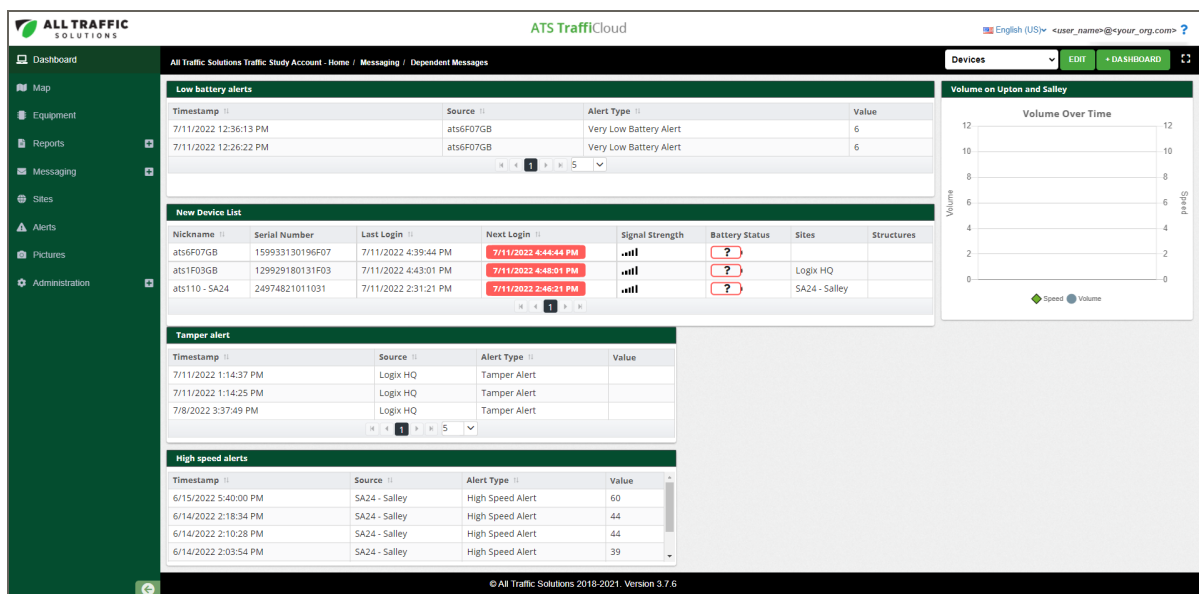
2. Use the following table for details about the interactive features of the **Preview** window:

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 9

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 59] The Dashboard page > Alerts History, Device List, and Traffic Volume widgets

Topics in this chapter:

Adding widgets to your Dashboard 76

Setting up a Traffic Volume Dashboard widget 77

Setting up an Alert History Dashboard widget 78

Setting up a Device List Dashboard widget 79

Adding widgets to your Dashboard

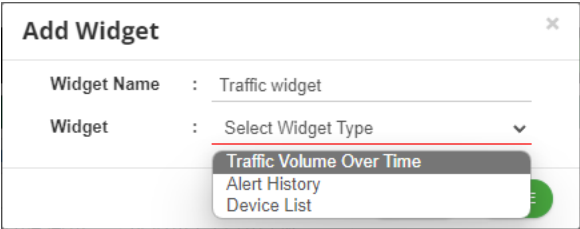
Use this procedure to add widgets to your Dashboard.

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.

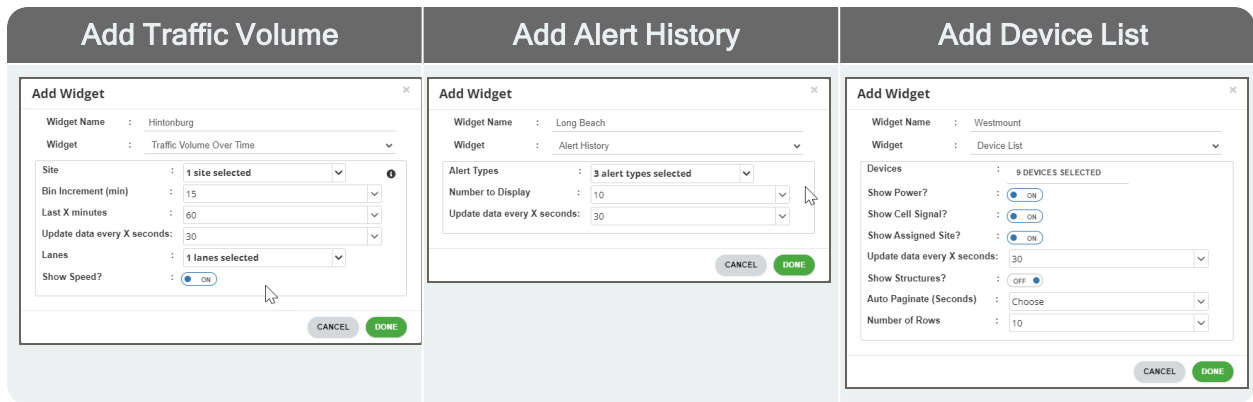
To add a widget to your Dashboard:

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 60] The Add Widget window

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



[Figure 61] 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:

1. 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:

 A screenshot of the 'Add Widget' window for the 'Traffic Volume Over Time' widget type. The settings are: Widget Name: Hintonburg, Widget: Traffic Volume Over Time, Site: 1 site selected, Bin Increment (min): 15, Last X minutes: 60, Update data every X seconds: 30, Lanes: 1 lanes selected, and Show Speed? ON. There are CANCEL and DONE buttons at the bottom right.

[Figure 62] The Add Widget window > Traffic Volume Over Time

2. 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. For Shield signs, set the number to 1.
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 76). The **Add Widget** window opens. Here's an example with the data set up:

The screenshot shows a modal window titled "Add Widget" with a close button (X) in the top right corner. Inside the window, there are several configuration fields:

- Widget Name**: A text input field containing "Long Beach".
- Widget**: A dropdown menu showing "Alert History".
- Alert Types**: A dropdown menu showing "3 alert types selected".
- Number to Display**: A dropdown menu showing "10".
- Update data every X seconds**: A dropdown menu showing "30".

At the bottom right of the window, there are two buttons: "CANCEL" and "DONE". A mouse cursor is pointing at the "DONE" button.

[Figure 63] 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 76). The **Add Widget** window opens. Here's an example with the data set up:

The screenshot shows the 'Add Widget' dialog box. At the top, 'Widget Name' is 'Westmount' and 'Widget' is 'Device List'. Below this, 'Devices' shows '9 DEVICES SELECTED'. The settings are as follows:

- Show Power?: ☒ ON
- Show Cell Signal?: ☒ ON
- Show Assigned Site?: ☒ ON
- Update data every X seconds: 30
- Show Structures?: ☒ OFF
- Auto Paginate (Seconds): Choose
- Number of Rows: 10

At the bottom right are 'CANCEL' and 'DONE' buttons.

[Figure 64] 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 10

Administration


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

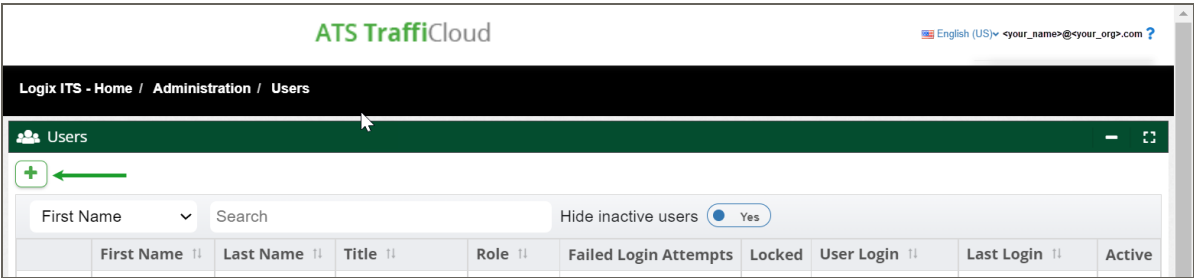
Adding a user	82
Editing a user	84
Deactivating a user	85

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 65] The Add User button

The **Add User** window opens.

Add User

Basic Info

Email Address : Email Address

Title : Title

First Name : First Name

Last Name : Last Name

Allow Text Messages : ☒ Yes

Active : ☒ Yes

Role : Admin Users

Phone

ADD PHONE

Security

Access Key : Access key

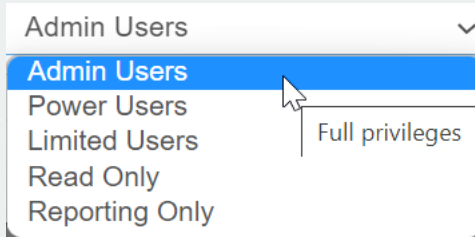
CANCEL

SAVE USER

[Figure 66] 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	<p>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.</p> <p>To deactivate text messaging for a user, move the slider to No.</p>
	Active	<p>Leave the default setting (Yes) to ensure the user has TrafficCloud access.</p> <p>To deactivate the TrafficCloud user account, move the slider to No.</p>
	Role	<p>Choose the role you want to give to the user:</p> 
	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.

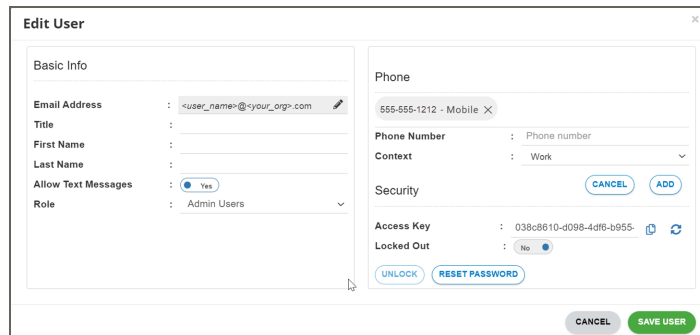
- Click the **Save User** button.

Editing a user

Use this topic for help with editing a TrafficCloud user. You can edit the settings described in *Adding a user* on page 82, 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 two main sections: 'Basic Info' and 'Phone'. The 'Basic Info' section includes fields for Email Address (with a placeholder <user_name>@<your_org>.com), Title, First Name, Last Name, Allow Text Messages (set to Yes), and Role (set to Admin Users). The 'Phone' section includes a Phone Number field (555-555-1212 - Mobile), a Context dropdown (set to Work), and a Security section with an Access Key (038c8610-d098-4df6-b955-), a Locked Out slider (set to No), and buttons for UNLOCK and RESET PASSWORD. At the bottom right are CANCEL and SAVE USER buttons.


[Figure 67] The Edit User window

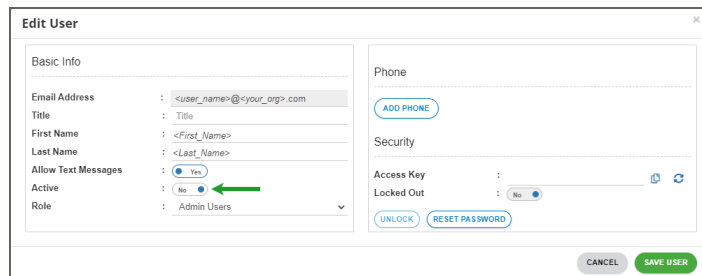
3. Do any of the following:
 - A. Edit any of the settings described in *Adding a user* on page 82.
 - B. If the user is locked out, move the **Locked Out** slider from **Yes** to **No**, and click the **Unlock** button.
 - C. If the user needs a password reset, click the **Reset Password** button. The 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.



Edit User

Basic Info

Email Address : <user_name>@<your_org>.com

Title : Title

First Name : <First_Name>

Last Name : <Last_Name>

Allow Text Messages : ☒ Yes ☐ No

Active : ☒ Yes ☐ No ←

Role : Admin Users

Phone

[ADD PHONE](#)

Security

Access Key : [COPY](#) [RESET](#)

Locked Out : ☐ No ☒ Yes

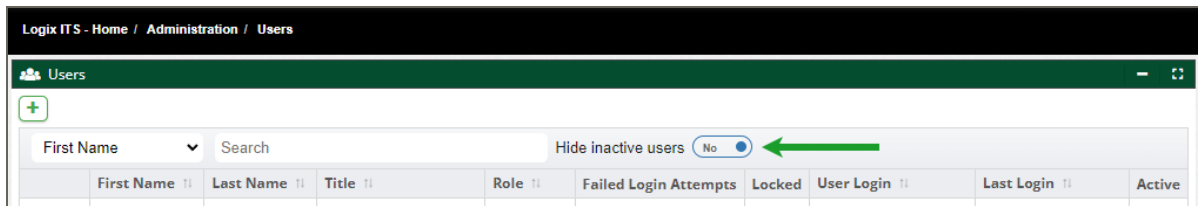
[UNLOCK](#) [RESET PASSWORD](#)

[CANCEL](#) [SAVE USER](#)

[Figure 68] 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**.



Logix ITS - Home / Administration / Users

Users

[+](#)

First Name Search

Hide inactive users ☐ No ☒ Yes ←

	First Name	Last Name	Title	Role	Failed Login Attempts	Locked	User Login	Last Login	Active

[Figure 69] The Hide Inactive users slider

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

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