



# Getting Started with TraffiCloud Sign Manager



Copyright © 2024 All Traffic Solutions, Inc.®. All rights reserved.

This manual may not be copied in whole or in part, nor transferred to any other media or language, without the express written consent of All Traffic Solutions.

This document is supplied as a guide for the All Traffic Solutions ATS devices. Reasonable care has been taken in preparing the information it contains. However, it is possible that this document contains omissions, technical inaccuracies, or typographical errors. Product specifications are subject to change without notice and should not be considered commitments by All Traffic Solutions. All Traffic Solutions does not accept responsibility of any kind for customers' losses due to the use of this document.

### Trademarks

All Traffic Solutions, Inc.®, ATS®, All Traffic Solutions devices, and TraffiCloud® are registered trademarks of All Traffic Solutions. TraffiCloud Sign Manager™ is a trademark of All Traffic Solutions. All other product and company names are trademarks or registered trademarks of their respective owners.

This document may contain confidential and proprietary information of third parties which is protected by copyright, trade secrets and trademark law and may not be provided or otherwise made available without prior written authorization.

Document created: 12:39 PM on Monday, July 1, 2024

ver. 1.0, Part number: 4800186

All Traffic Solutions, Inc.®  
14201 Sullyfield Circle, Suite 300  
Chantilly, VA  
United States 20151

Tel: 1-866-366-6602

Fax: 1-814-237-9006

Web: [www.alltrafficsolutions.com](http://www.alltrafficsolutions.com)

Sales email: [sales@alltrafficsolutions.com](mailto:sales@alltrafficsolutions.com)

Technical Support email: [support@alltrafficsolutions.com](mailto:support@alltrafficsolutions.com)

### Viewing this document



**NOTE:** If you are reading this document online and have a medium- to large-screen monitor, it's best viewed with the window maximized, in Adobe® Reader, Adobe Acrobat Pro, or equivalent using the preset two-page view , rather than directly in a Web browser.

# Table of Contents

---

<b>About this document</b> .....	<b>v</b>
System requirements .....	v
Documentation conventions .....	v
<b>Overview</b> .....	<b>7</b>
Exploring the TraffiCloud Sign Manager user interface .....	8
The Top menus .....	8
The Navigation tabs .....	9
<b>Installing TraffiCloud Sign Manager</b> .....	<b>11</b>
Signing in to TraffiCloud Sign Manager for the first time .....	11
<b>Connecting to your equipment</b> .....	<b>13</b>
USB Connections .....	13
Bluetooth .....	14
Using the Home tab .....	15
Viewing Live Speeds .....	15
Details: Live Monitor view .....	16
Using the Sign Settings tab .....	16
<b>Using the Messaging libraries</b> .....	<b>21</b>
Working with messages .....	22
About the Dependent Message Library .....	24
Working with Dependent Message Groups .....	25
<b>Managing pictures</b> .....	<b>27</b>
<b>Working with logs and traffic data</b> .....	<b>29</b>
<b>Contacting Customer Support</b> .....	<b>31</b>



# About this document

---

This Getting Started Guide is meant for anyone who needs to set up one or more All Traffic Solutions devices using TrafficCloud Sign Manager. The guide provides an introduction to TrafficCloud Sign Manager and describes the basic use and configuration of the system.

For details about physical setup, refer to the Quick Start Guide provided with your device and available for download from the [ATS Technical Customer Support page](#).

## System requirements

TrafficCloud Sign Manager is compatible with Windows versions 7 to Windows 11, excluding Windows RT and Windows XT.

The TrafficCloud portal has been tested with all the leading Web browsers, and works best with Google Chrome. You can sign on at [portal.trafficcloud.com](https://portal.trafficcloud.com).

## Documentation conventions

This document uses the following formatting conventions:

Format	Description
<b>Bold</b>	Used in procedures to indicate menu commands, interface controls and dialog box options.
<i>Italicized monospace text</i>	Used to indicate text that you should replace with your own. For example: In the Save As text box, enter <code>c:\filename.ext</code> where <code>filename.ext</code> is the name of the file you want to save.
Right chevron >	Used to indicate a sequence of commands (and sub commands) to be carried out in the displayed order. For example, " <b>Equipment tab</b> > <b>Nickname</b> " 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 advise users of specific actions that could result in a loss of data.



# Chapter 1

## Overview

---

TraffiCloud Sign Manager is an included PC application for configuring your devices. You connect to your sign locally, either using a USB cable or over optional Bluetooth.

While TraffiCloud Sign Manager is a standalone program, it does link to the TraffiCloud portal when an Internet connection is available. The TraffiCloud link ([portal.trafficcloud.com](https://portal.trafficcloud.com)) enables you to upload, store, and assign your traffic data to a collection site for reporting purposes. The TraffiCloud portal also provides a library for variable message signs, where anyone in your organization can store and share device messages for use on other PCs and equipment.



*[Figure 1] ATS 5 Trailer and SpeedAlert radar-enabled messaging sign*

When you're connected in TrafficCloud Sign Manager to your sign via USB or Bluetooth, you can do the following:

- » Monitor and manage your sign
- » Authenticate users
- » Configure and manage settings on your sign
- » Create and activate messages for your sign
- » Set up alerts from devices
- » Download logs and traffic data for upload and analysis on the TrafficCloud portal

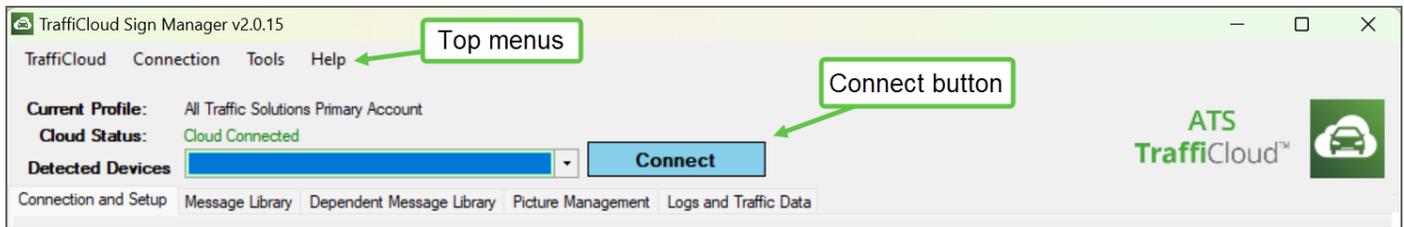
With Shield radar signs, **Speed Display** is the most popular sign mode, providing immediate feedback about vehicle speed, with optional blinking and strobe warnings, for signs so equipped, at specified speeds.

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

InstAlerts display custom messages in **Single Message** mode wherever they're needed, to direct traffic for events or emergencies, or for public service messaging.

## Exploring the TrafficCloud Sign Manager user interface

The uppermost section of the TrafficCloud Sign Manager home page includes four **Top menus**, and displays your **Current Profile**, **Cloud Status**, and the **Detected Devices** box and **Connect** button, which you use to select and connect to your device.



### The Top menus

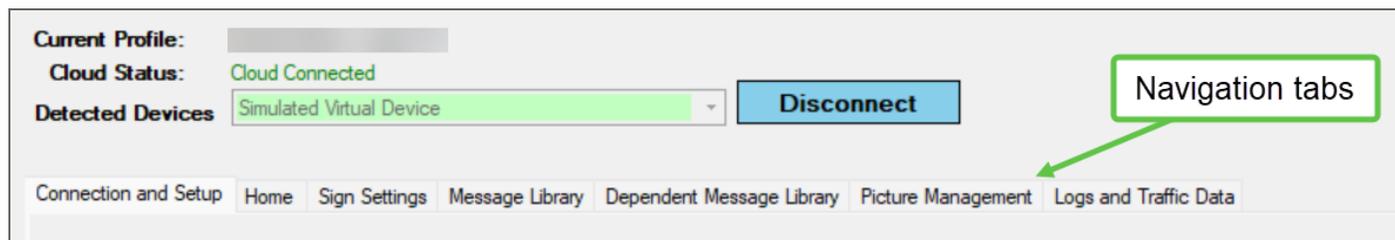
The TrafficCloud Sign Manager **Top menus** include a wide range of access points and commands to help you manage your device. Here's a summary of the functionality you'll find there:

Menu	Commands	What you can do
<b>TrafficCloud</b>		
	<b>Cloud Login</b>	Enter your login credentials to sign on. TrafficCloud Sign Manager will remember them and automatically log you on during future sessions.
	<b>Add Profile</b>	Login with your account. If you have guest access to other accounts, you can add those profiles here. Profiles are additional accounts.
	<b>Manage Profiles</b>	Displays all devices on a given account profile, including serial number, nickname, and device hash, which provides information about the device and user for security purposes.
	<b>Change Storage Folder</b>	Change the local or network folder where All Traffic Solutions devices stores your data. Depending on your product, Sign Manager stores traffic data, message files, images, and so forth.

Menu	Commands	What you can do
	<b>Exit</b>	Exits the program.
<b>Connection</b>		
	<b>USB</b>	Select your connection methods from any of these three options: <b>USB</b> , <b>Bluetooth</b> , or <b>Serial cable</b> .
	<b>Bluetooth</b>	
	<b>Serial</b>	
	<b>Refresh</b>	Click to see devices that have been connected or paired since the last refresh.
<b>Tools</b>		
	<b>Check for Sign Update</b>	Check to see if there are any firmware updates available for the sign.
	<b>Sync Time (PC to Sign)</b>	Synchronize the time on the sign with the time on the PC. It's a good idea to check the time and do this before deploying the sign each time.
	<b>Locate Sign</b>	When you connect over Bluetooth, if there are multiple signs nearby, this command displays the connected sign's boot-up sequence to identify it.
	<b>Initiate Move Sign</b>	Connect to the server to download any new settings.
	<b>Reboot Sign</b>	Reinitialize the sign.
	<b>Start Sign Cloud Connect</b>	Connect the sign to TraffiCloud immediately, rather than waiting until the next scheduled checkin.
<b>Help</b>		View the product version, open the <i>Getting Started with TraffiCloud Sign Manager</i> guide, download USB drivers, access other product manuals and videos, visit the TraffiCloud or ATS web sites, view the software license agreement, check for updates, simulate a device connection, or access advanced support tools.

## The Navigation tabs

The TraffiCloud Sign Manager **Navigation tabs** appear across the top of the page. The tabs displayed vary depending on the equipment you have and your connection state. The following sections provide an overview of the tabs and what you can do with them.





# Chapter 2

## Installing TraffiCloud Sign Manager

---

Download the latest version of the software here and run the installation program:

<http://c.alltrafficsolutions.com/signmanager>

If you plan to use USB to connect to your equipment, you may need the USB drivers, which are posted here:

<http://c.alltrafficsolutions.com/usb>

If you plan to use Bluetooth to connect to your equipment, you must pair your PC and sign using your PC's Bluetooth settings tools first. The PIN code for pairing is "ATS" (upper case).

TraffiCloud Sign Manager is compatible with Windows versions 7 to Windows 11, excluding Windows RT and Windows XT.

## Signing in to TraffiCloud Sign Manager for the first time

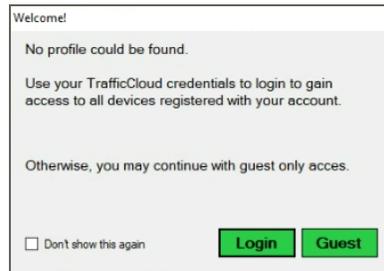
If this is your first time using TraffiCloud Sign Manager, you'll be prompted to login. Use your TraffiCloud login credentials. Check with your administrator or supervisor for your user name (usually your work email address) and password.



**NOTE:** TraffiCloud administrators can also add and manage users in TraffiCloud.

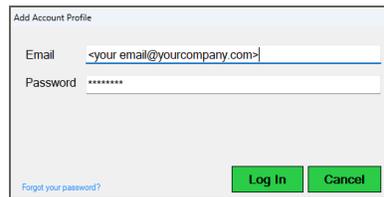
### To sign in to TraffiCloud Sign Manager for the first time:

1. The first time you open TraffiCloud Sign Manager you'll see the following prompt:



[Figure 2] The Welcome window

2. Click the **Login** button. The **Add Account Profile** window opens. If you click **Guest**, you'll have read-only access to all signs.
3. Enter your assigned email address and password:



[Figure 3] Add Account Profile window

You can reset your password as needed using **Change Password** on the **TrafficCloud** website.

# Chapter 2

## Connecting to your equipment

TraffiCloud Sign Manager enables you to make connections to equipment over USB or optional Bluetooth.

### USB Connections

All Traffic Solutions devices typically use a USB mini-connector for direct connection to TraffiCloud Sign Manager. On Shield signs and SpeedAlert 18 and InstAlert 18 signs, the port is located above the power switch under a small rectangular rubber plug.

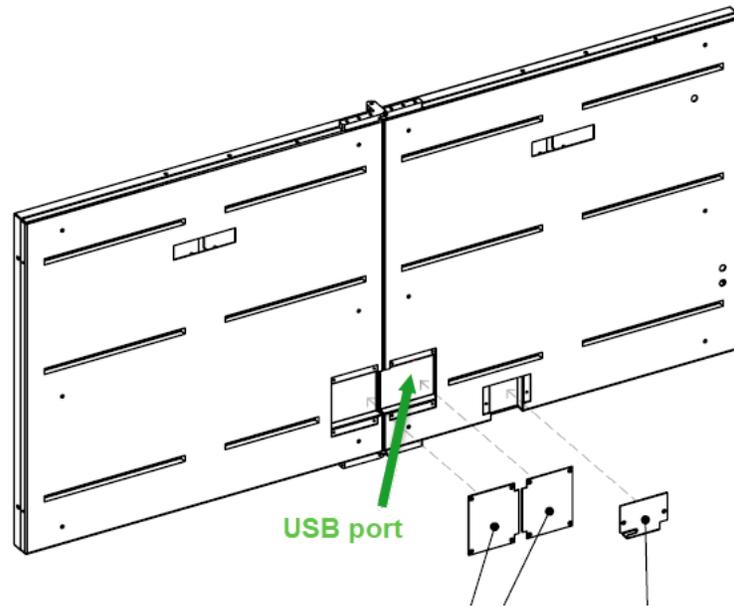


[Figure 4] USB port on Shields, SA 18s, and IA 18s



**CAUTION: RISK OF DAMAGE TO EQUIPMENT:** To avoid risk of damage to signs from precipitation, be sure to reinstall the rubber plug into the USB port after you finish each connection.

On SpeedAlert and InstAlert 24s, the port is inside an access panel on the back of the sign, as shown:



[Figure 5] USB port location on SA 24s and IA 24s

Customers with any of our larger trailers can connect a PC to the sign using the USB cable included in the battery box.

### To connect over mini-USB:

1. Connect the USB-to-mini-USB cable between to your sign and your laptop.
2. Run the TrafficCloud Sign Manager software. The **Detected Devices** selection box should display **All Traffic Solutions Device**. If not, click the **Refresh** button to detect your sign (it won't display if you launched TrafficCloud Sign Manager before you connected the USB cable). If refreshing doesn't work, you may need to install the Sign Manager USB drivers on your PC. See [Installing TrafficCloud Sign Manager](#) on page 11.
3. Click the **Connect** button to read and display the settings from your equipment.

## Bluetooth

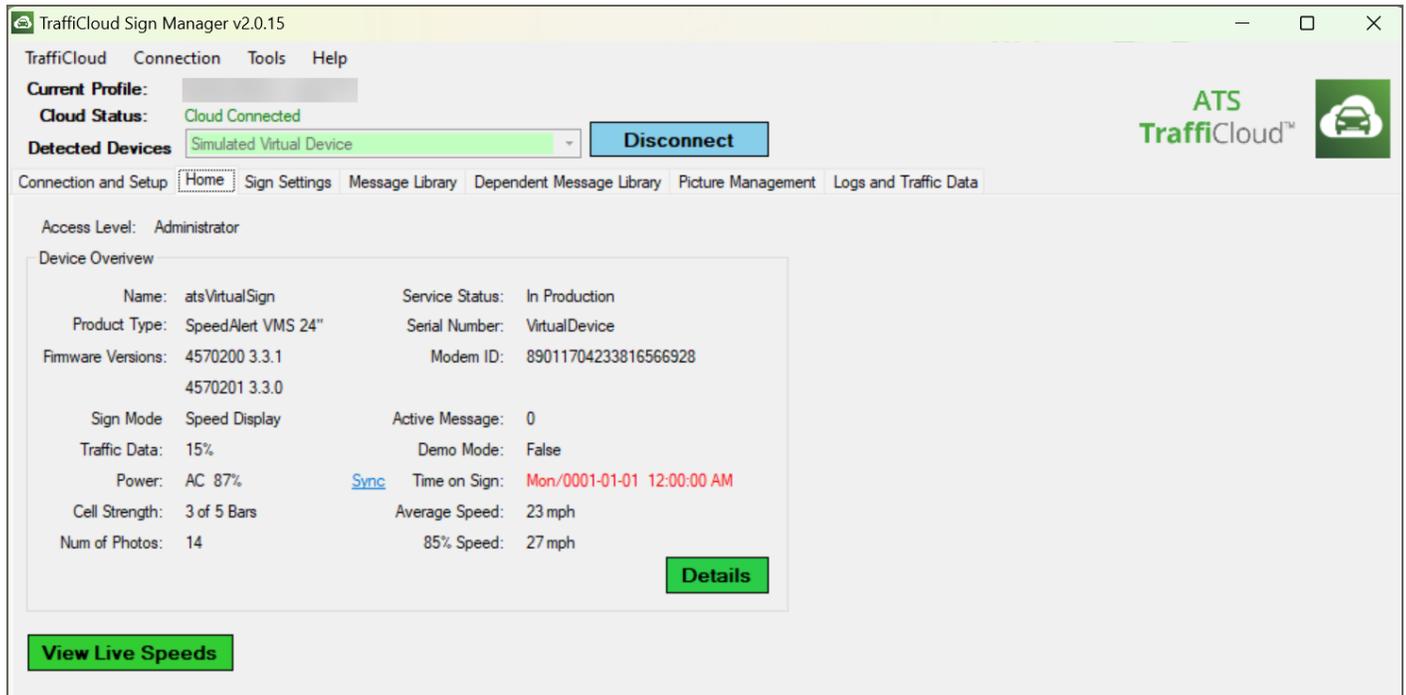
Before you attempt a Bluetooth connection, you'll need to pair your equipment with your PC. Make sure that the option was purchased for your equipment and that your PC supports Bluetooth. Only one device can be connected over Bluetooth at a time.

### To make a Bluetooth connection:

1. Use your PC's Bluetooth software in Windows Control Panel to find the device and pair it. The pairing code is **ATS** (use uppercase).
2. Once your device is paired, run TrafficCloud Sign Manager and on the **Connection and Setup** tab, under *Connection* enable **Bluetooth**. This populates the **Detected Devices** list with the names of your paired equipment.
3. Select the name of the desired device and click the **Connect** button. Upon successful connection all of your device's settings display in TrafficCloud Sign Manager.

## Using the Home tab

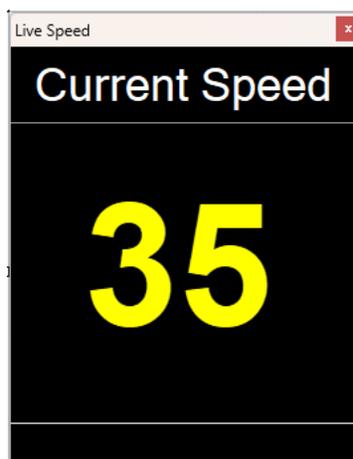
Once you connect to your device, the focus shifts to the **Home** page, where you can view your **Access Level**, and basic equipment details, such as **Sign Name**, **Product Type**, **Firmware Version**, **Sign Mode**, **Power** remaining, **Cell Strength**, **Serial Number** and **Modem ID**, the **Active Message**, **Average Speed**, and **85% Speed**. You can also use the **Live Speeds** button to show a popup of current speeds as vehicles pass the device, click the **Details** button to view a wide range of information about the device if needed for troubleshooting purposes, and **Disconnect** from your device.



[Figure 6] The Home page

## Viewing Live Speeds

Click the **View Live Speeds** button to display speed of oncoming vehicles. Here's an example of what you'll see:



## Details: Live Monitor view

The *Details* button brings up a live monitor view of many internal values for your equipment, which are helpful in troubleshooting any problems.

The screenshot shows a 'Monitor Sign' window with the following sections:

- General:** Serial Number: VirtualDevice, Nickname: atsVirtualSign, Firmware Versions: 4570200 3.3.1, 4570201 3.3.0, Date: Monday, January 01, 0001, Time: 12:00:00 AM, Sign Type: SpeedAlert VMS 24"
- Power:** Supply Type: AC, Supply Voltage: 12.73V (87%), Current Draw: 0.78A, Solar Panel: Not Installed
- Sensors:** Light Level: Five, Temperature: 74°F, Accelerometer: X: 0 Y: 0 Z: 0, Radar: DR1500 ON passed config, Radar Speed: 24 mph Avg: 23 mph, Num of GPS Satellites: 0, New GPS Fx: No, GPS Location: [Map \(.\)](#), Dist from prev GPS: 0
- Cellular:** Modem Type: GSM\_H5 Registered, Modem ID: 89011704233816566928, APN: alltrafficsolutions01.com.att, Signal Strength: 3 bars BER: 0, Connect Flag: True, Modem State: Off, Server Process: IDLE, Daily Call-in Time: 12:00 AM, Server: Production
- Alerts and Errors:** Alert Tamper  0, Alert Image  53, Alert Congestion  14, Alert High Speed  53, Alert Low Battery  15, Alert Very Low Battery  5, Error Radar , Error Bluetooth , Error Modem , Error Camera
- Variables and Outputs:** Analog Value: 0, Digital Inputs: 00, Timer Value: 00:00:00, String X: , String U: , String Z: , Strobe: OFF, Relay1 Closure: OFF (Beacons), Relay2 Closure: OFF (Hom)
- Pictures:** Camera State: Idle, Camera Status: Success, Num of Images: 14, Halt Photos? No
- Options and Apps:** Traffic Data Logging , Bluetooth MT , Relay Output , Hom , Remote Sign Management , Remote Traffic Data Collection , Remote Picture Collection , Alerts , Premier Care , Travel Times , Remote Live Text , Fast Update
- Travel Times:** Update Period: -- sec, Refresh Flag: false, Best Routes: Time: Route x, Delay: Route x, Speed: Route x, Route 1: Inactive, ID: --, Time: --, Speed: --, Delay: --, Route 2: Inactive, ID: --, Time: --, Speed: --, Delay: --, Route 3: Inactive, ID: --, Time: --, Speed: --, Delay: --, Route 4: Inactive, ID: --, Time: --, Speed: --, Delay: --, Route 5: Inactive, ID: --, Time: --, Speed: --, Delay: --, Status: Packet

[Figure 7] Live Monitor page

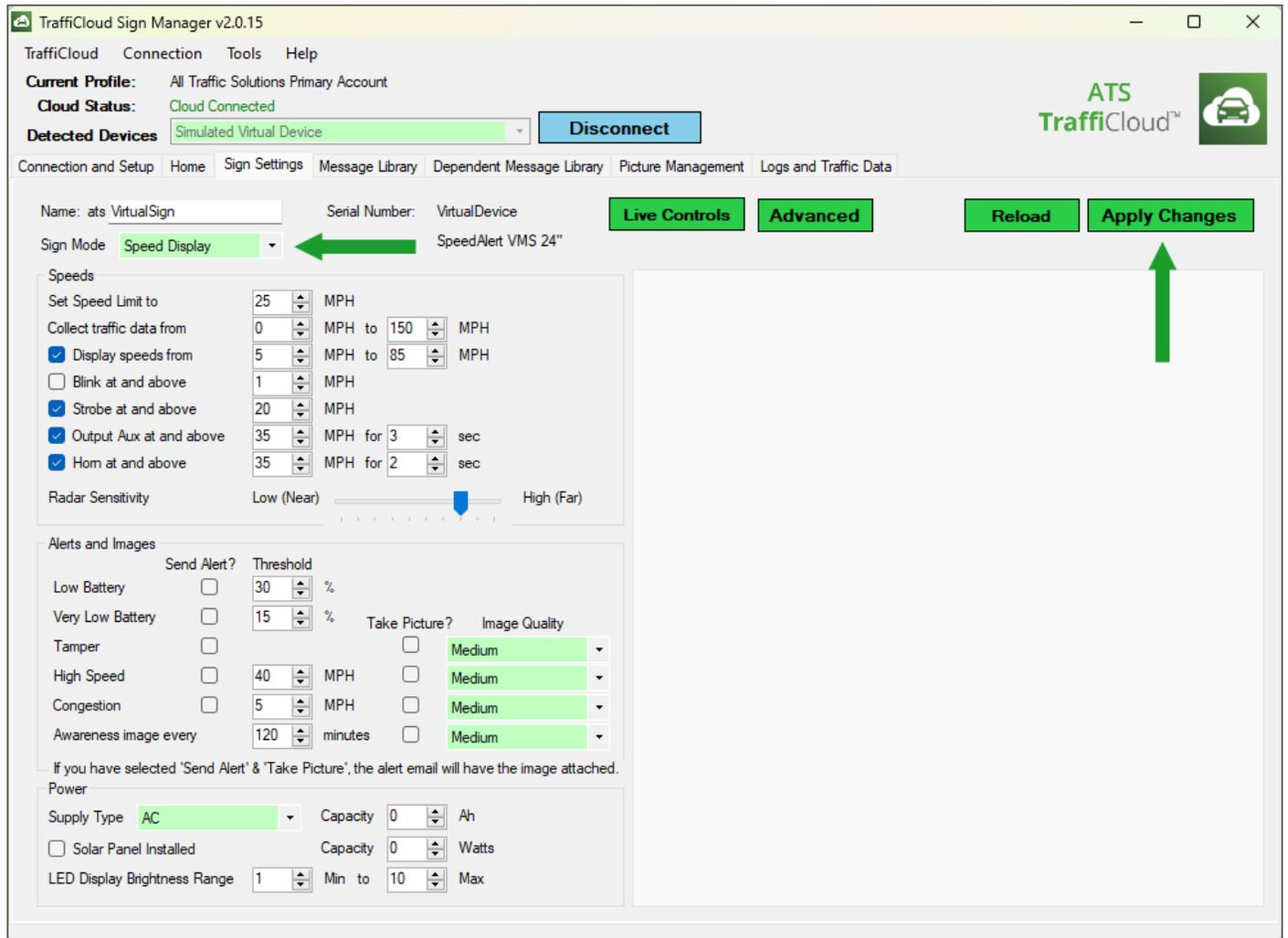
## Using the Sign Settings tab

You use the Sign Settings tab to configure device settings, most importantly, **Sign Mode**. The available sign modes are determined by the type of product connected. Here's a summary of the sign modes:

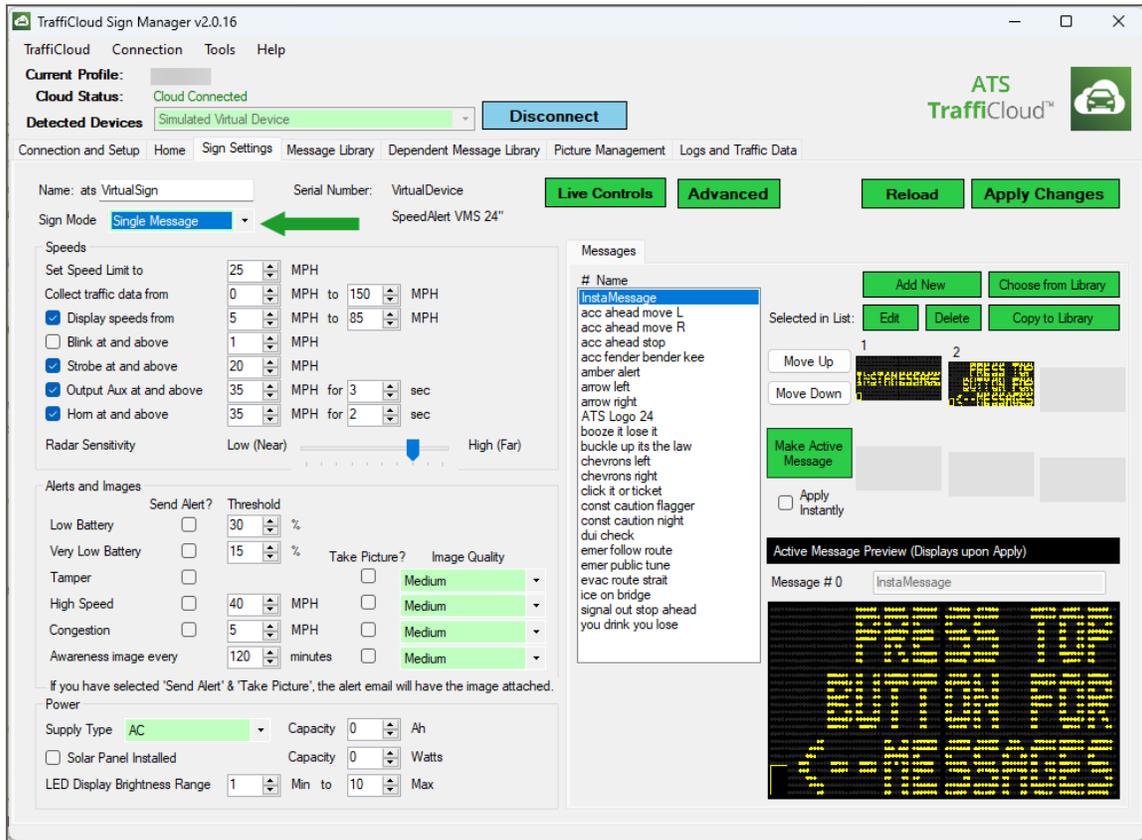
Sign Mode	What it does	Available on
<b>Display Off</b>	Keeps the display blank. Continues to collect traffic data if the device is equipped with radar.	All models
<b>Changeable Speed Limit</b>	Displays the speed limit value.	All models
<b>Speed Display</b>	Displays the speed of approaching vehicles.	Models with radar
<b>Single Message</b>	Continually loops a single variable message.	Models with full matrix displays
<b>All Messages</b>	Continually loops through all loaded messages.	Models with full matrix displays

Sign Mode	What it does	Available on
<b>Dependent Message</b>	Displays the appropriate message in the Dependent Message group.	Models with full matrix displays
<b>Daily Schedule</b>	Displays messages or speeds on a schedule that repeats daily.	All models
<b>Weekly Schedule</b>	Displays messages or speeds on a schedule based on days of the week.	All models

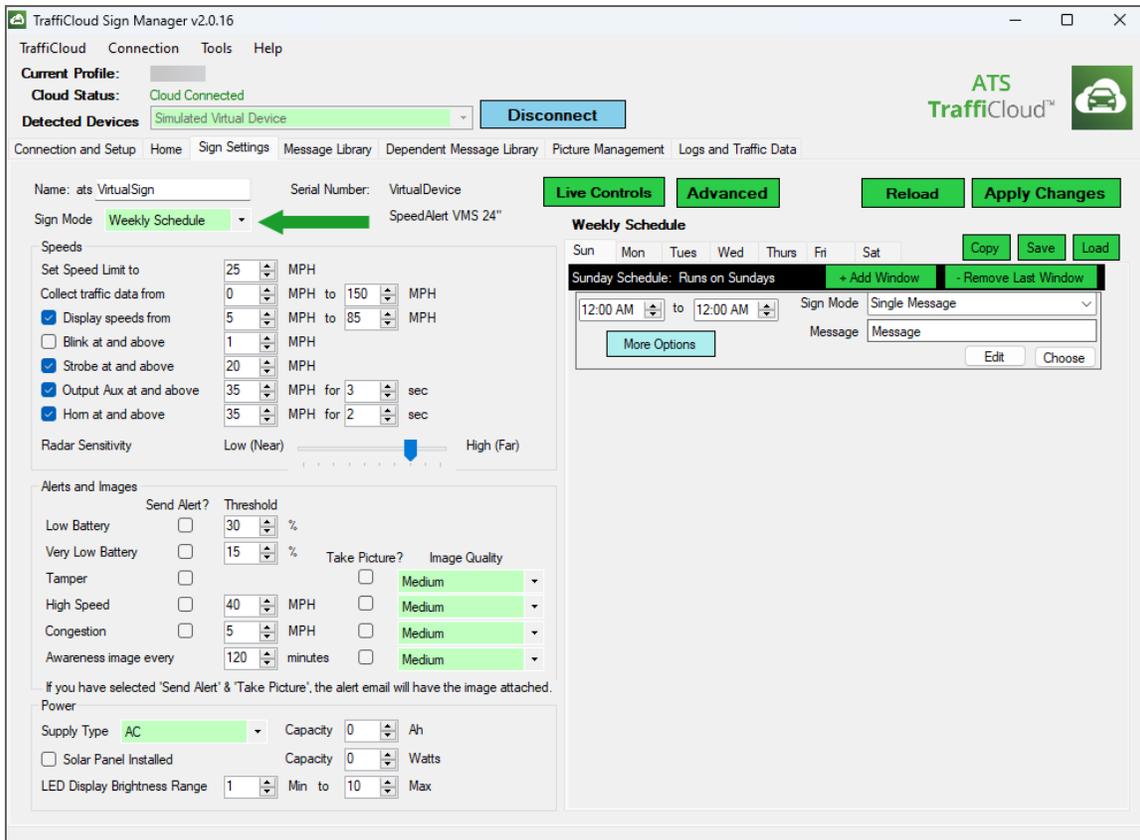
After you've made changes, click the **Apply Changes** button to send them to the sign. Below are some examples of how the settings area may look differently depending on the mode selected. Also note that some features may be hidden if the attached product does not include them.



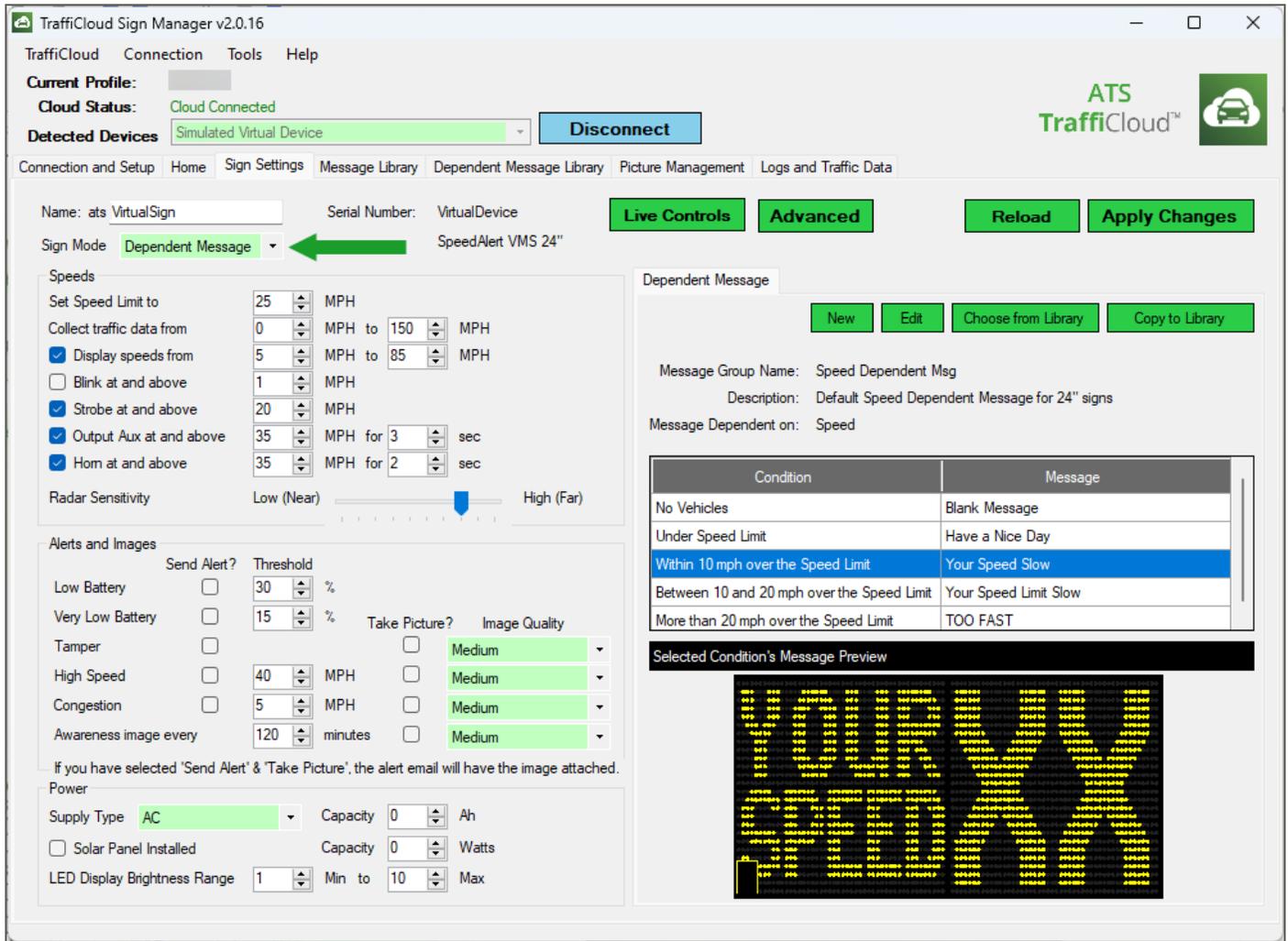
[Figure 8] Speed Display mode



[Figure 9] Single Message mode



[Figure 10] Schedule mode



[Figure 11] Dependent Message mode

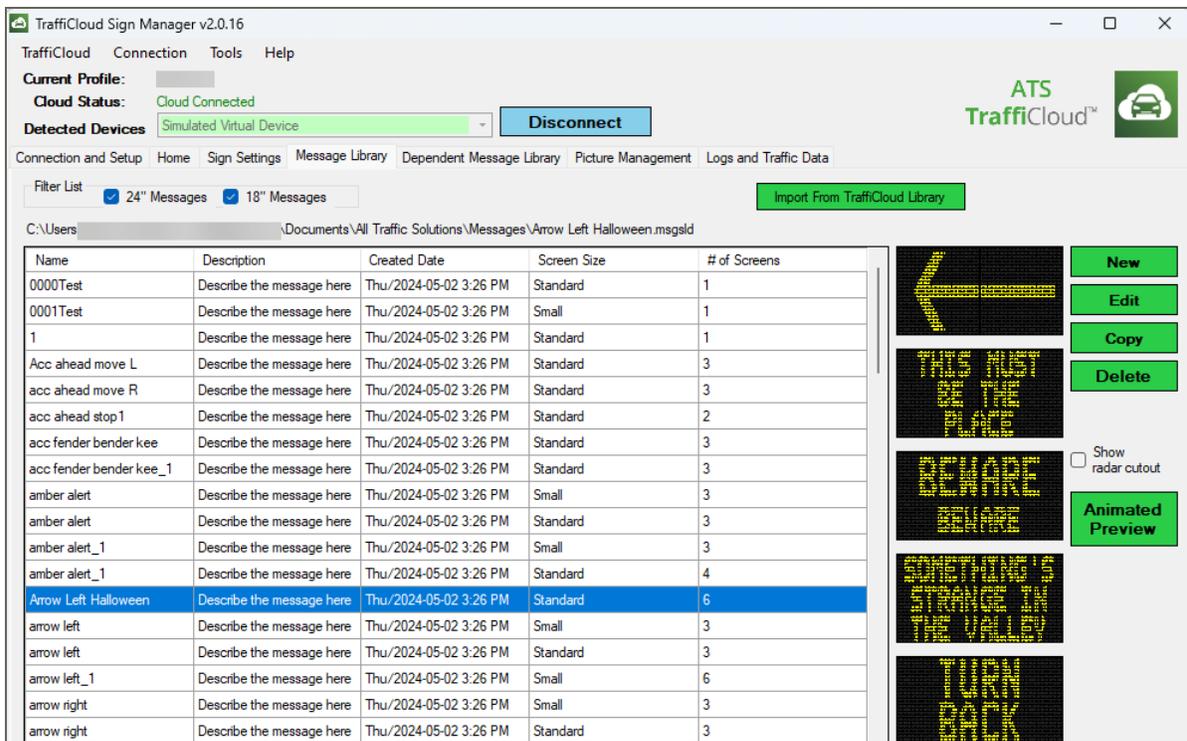


# Chapter 3

## Using the Messaging Libraries

Use the topics in this chapter to create additional messaging for your signs using the Messaging libraries. When you connect with TrafficCloud Sign Manager to full matrix, message-capable signs, Sign Manager displays the **Message Library** and **Dependent Message Library** tabs, where you can access all the messaging tools.

The **Message Library** tab is where you set up and store sign messages.



[Figure 12] The Message Library

A Message is a sequence of text and/or graphic screens that you display on your sign, looping them continuously.

You can create, edit, copy, or delete messages from the library. You can also import messages from your account's TrafficCloud Message Library.

TrafficCloud Sign Manager displays a preview of the selected message on the right-hand side of the window.

Use the filter at the top of the table to limit the view of messages to a particular compatible equipment size if both sizes are available.

You can also select messages from or add them to this library directly in the **Sign Settings** tab.

For information about creating and editing messages, see [Working with messages below](#).

## Working with messages

With TrafficCloud Sign Manager, you can create new or edit existing messages in the **Message Library** and **Dependent Message Library** tabs (available with message-enabled signs only). See also [About the Dependent Message Library on page 24](#).

Use **Copy Screen** to copy individual screens to other screens or messages. Especially useful for graphical screens.

The **Screen Type** determines how many characters and lines will fit on the screen.

If a compatible sign is connected to the software, you can click **Display Now as InstaMessage** to display the current message immediately with one click!

### To access the message editing tools:

1. Connect to your sign and click the **Message Library** and **Dependent Message Library** tab, as needed.
2. From there, you can create new messages, edit existing ones, and copy and delete messages (see [\[Figure 12\] on the previous page](#)).
3. Use the following table for details about what you can do with messages:

Feature	What you can do
<b>Messages</b>	<p>A Message is a sequence of text and/or graphic Screens that are displayed on a sign and looped through continuously. More details:</p> <ul style="list-style-type: none"> <li>• Messages are referenced by a <b>Name</b> but a more detailed description can be included.</li> <li>• Choose the number of screens included immediately or add and remove them as needed.</li> <li>• The Message size must match the type of equipment on which it will be displayed.</li> </ul>
<b>Screens</b>	To edit a Screen, select a tab with the screen number on it.

Feature	What you can do
<b>Screen Types</b>	<p>Screens have a selectable Type which dictates part of the format and information displayed. Here's a list of the screen types:</p> <ul style="list-style-type: none"> <li>• <b>Large, medium, and small</b> lines are text only</li> <li>• <b>Graphics</b> (the drawing tool) gives you individual control of each LED pixel on the screen.</li> <li>• <b>Speed Limit</b> displays the value of the speed limit setting stored in the sign</li> <li>• <b>Your Speed</b> displays the speed of an approaching vehicle (radar required) <ul style="list-style-type: none"> <li>• Recommended for use as part of a <b>Dependent Message</b> only, otherwise the sign will display a speed of 0 when no vehicles are present.</li> </ul> </li> <li>• <b>Clock</b> screens show the current time in the preview.</li> </ul> <p> <b>NOTE:</b> The <b>Your Speed</b> message uses the speed detected at the beginning of the message only and is not updated again until the message loops. It's best to place it as the first screen in the message and keep the message short.</p>
<b>Screen Properties</b>	<ul style="list-style-type: none"> <li>• <b>Duration</b> is the number of seconds a screen will be displayed until going to the next</li> <li>• <b>Blink Types</b> are no blinking, blinking, or inverting <ul style="list-style-type: none"> <li>• <b>Inverting blink</b> is where illuminated parts of the screen go dark and non-illuminated parts light up for a time, then revert back to normal repeatedly.</li> </ul> </li> <li>• <b>Blink Rate</b> is only relevant when the screen is set to blink or invert. <ul style="list-style-type: none"> <li>• <b>Slow</b> is timed as 1 sec on / 1 sec off</li> <li>• <b>Medium</b> is timed as 0.75 sec on / 0.75 sec off</li> <li>• <b>Fast</b> is timed as 0.5 sec on / 0.5 sec off</li> </ul> </li> <li>• <b>Screen Power Usage</b> indicates how much of the display is illuminated. It is a tool to help with battery conservation. Low power usage will translate to longer battery life.</li> </ul>
	<p> <b>NOTE:</b> Blinking a screen effectively halves its power usage.</p>
<b>Variable Text {x}</b>	<p>At certain times it may be desirable for a text screen to include a value that changes, such as the current day of the week. This is possible by using the {x} button to insert a placeholder for the variable text. When displayed, the sign will translate the placeholder into the actual value.</p> <p>For more information about this feature or custom applications please contact ATS at <a href="mailto:support@alltrafficsolutions.com">support@alltrafficsolutions.com</a>.</p>

## About the Dependent Message Library

The **Dependent Message Library** tab stores Dependent Messages for your messaging signs. Dependent Messages are grouped messages used by variable message signs to show a variety of messages, depending on incoming traffic data, such as vehicle speed (radar speed sensor required). Dependent Message groups batch related messages, along with the conditions under which they should be displayed.

The screenshot shows the TrafficCloud Sign Manager v2.0.16 interface. The main window displays the 'Dependent Message Library' tab. At the top, there is a menu bar with 'TraffiCloud', 'Connection', 'Tools', and 'Help'. Below the menu, the 'Current Profile' section shows 'Cloud Status: Cloud Connected' and 'Detected Devices: Simulated Virtual Device' with a 'Disconnect' button. The 'Connection and Setup' menu is open, showing 'Home', 'Sign Settings', 'Message Library', 'Dependent Message Library', 'Picture Management', and 'Logs and Traffic Data'. A 'Filter List' section has '24" Messages' selected. The main table lists dependent messages with columns for Name, Description, Created Date, Screen Size, and Depends On. The selected message is 'Conditional Message\_1'. To the right, a preview pane shows the 'Selected Dependent Message' details, including the name and dependent type. Below this is a table of conditions and messages, and an 'Animated Preview' button.

Name	Description	Created Date	Screen Size	Depends On
Conditional Message	Describe the messag...	Thu/2024-05-02 2:4...	Standard	Speed
Conditional Message...	Describe the messag...	Thu/2024-05-02 2:4...	Standard	Speed
Conditional Message_1	Describe the messag...	Wed/2024-06-12 10:...	Standard	Speed

Condition	Message
No Vehicles	blank
Under Speed Limit	Get your head
Within 10 mph over the Speed Limit	Careful now
Between 10 and 20 mph over the ...	TOO FAST
More than 20 mph over the Speed ...	Drive Fast City or Jail

[Figure 13] The Dependent Message Library

You can create, edit, copy, or delete Dependent Messages from this library.

TraffiCloud Sign Manager displays a preview of the selected dependent message at right, where each message and its dependency can be viewed.

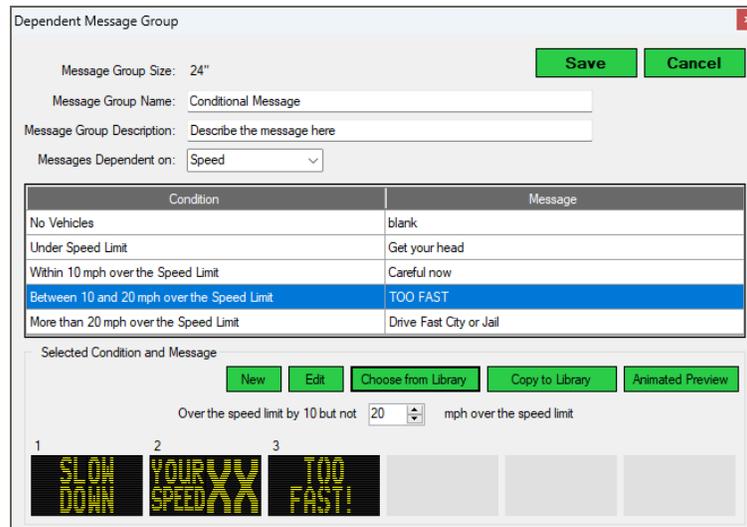
Use the filter at the top of the table to limit the view of dependent message groups to a particular compatible equipment size.

You can create new Dependent Messages or select from this library directly on the **Dependent Message Library** tab as well.

For more information about Dependent Messages, see [Working with Dependent Message Groups](#) on the facing page.

## Working with Dependent Message Groups

Use this topic for help working with setting up **Dependent Message Groups**.



[Figure 14] The Dependent Message Group window

### Dependent Message Group types

Your initial TraffCloud Sign Manager installation includes the following dependent message group types, which you can revise or use to suit your needs.

Use the following table as a reference about each of the Dependent Message Groups:

Dependent Message group	What you can do
<b>Detected Speed</b>	Display an appropriate message based on the detected speed of an approaching vehicle. Often used for traffic calming. Radar speed sensor required.
<b>Timer Value</b>	Display different messages based on the value of the internal timer. Often used for New Year's countdowns or to display race information. Manual timer start and stop control is usually required. (The timer should not be used as an official timekeeping device).
<b>Digital Inputs</b>	Display different messages based on digital input values. Custom firmware and wiring is required. Contact <a href="mailto:support@alltrafficsolutions.com">support@alltrafficsolutions.com</a> or your regional sales rep if you're interested in using this feature.
<b>String Value</b>	Send a string of text characters to the sign compared with a pre-determined value. If the strings match, the corresponding message displays. You can send text strings to the sign manually using the <b>Live Values</b> area of the PC software. Use the <b>string 1</b> value. For more information <a href="mailto:support@alltrafficsolutions.com">support@alltrafficsolutions.com</a> or your regional sales rep.
<b>Analog Input</b>	Display different messages based on the value of an analog input. Custom firmware and wiring is required to use this type of Dependent Message group. Contact <a href="mailto:support@alltrafficsolutions.com">support@alltrafficsolutions.com</a> or your regional sales rep if you're interested in using this feature.

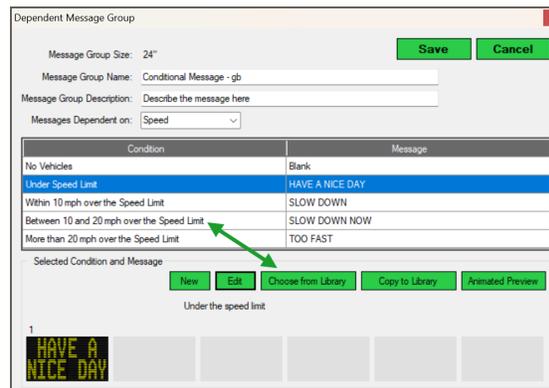
## To create or edit Dependent Messages:

1. Connect to your sign and click the **Dependent Message Library** tab. The Dependent Message Group window opens.
2. From there, you can create new Dependent Message Groups, edit existing ones, and copy and delete them (see [\[Figure 14\] on the previous page](#)). In the Dependent Message Group shown in the example, here are the key details:

Condition	Message
No Vehicles	Blank
Under Speed Limit	HAVE A NICE DAY
Within 10 mph over the Speed Limit	SLOW DOWN
Between 10 and 20 mph over the Speed Limit	SLOW DOWN NOW
More than 20 mph over the Speed Limit	TOO FAST

The table shows the five screens in the dependent message, each with a different condition: **No Vehicles**, **Under Speed Limit**, **When 10 mph over the Speed Limit**, **Between 10 and 20 mph over the Speed Limit**, and **More than 20 mph over the Speed Limit**. Each of those conditions is associated with a specific message.

3. Now you can do any of the following:
  - To change any of the associated messages, select that screen in the table and click the **Choose from Library** button, as shown:



*[Figure 15] Choosing from the library*

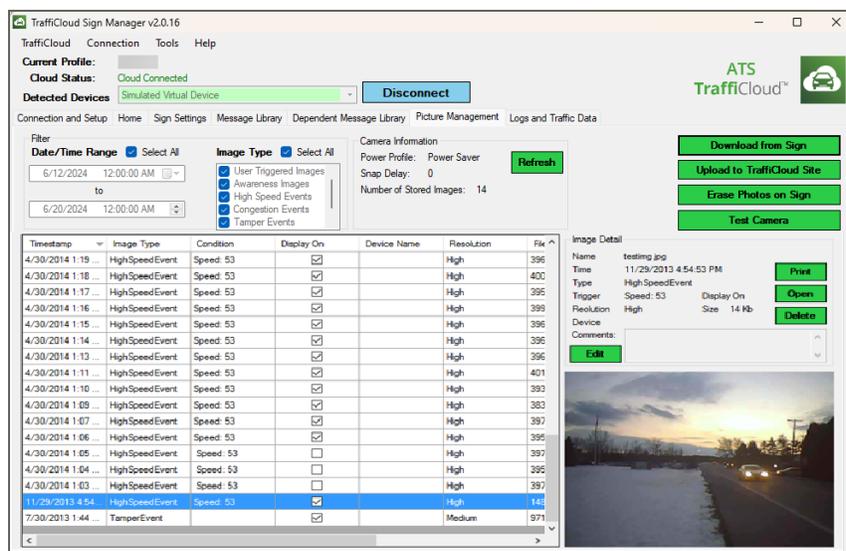
- To edit a message, select a condition screen and click the **Edit** button.
- Similarly, you can create a new message, copy the message to the library for future reference, or play an animated preview of the selected message.

# Chapter 4

## Managing pictures

On the **Picture Management** tab, you can do the following for your connected device:

- Download and view images taken by your signs,
- Take and review test images,
- Add comments to individual images,
- Print images, along with their corresponding metadata,
- Use filters to sort images by date and time taken or by trigger type, and
- View picture settings and the number of pictures stored in memory in the **Camera Information** section.



[Figure 16] Picture Management tab



# Chapter 5

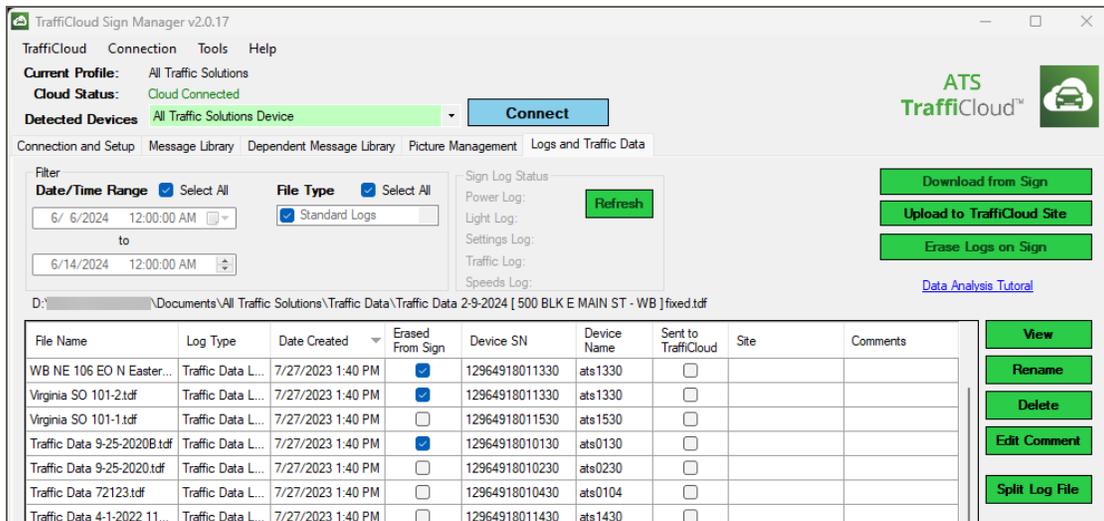
## Working with logs and traffic data

To download traffic data and other logs from attached equipment, use the **Logs and Traffic Data** tab. The downloaded data is stored in individual files and shows up in the list. Once you download the data, you'll then upload it to TraffiCloud, where you can run reports. For additional details, please refer to the video, "Retrieving Data Through Sign Manager": Use the QR code at right to open the video from your mobile phone or click the following link: <https://www.youtube.com/watch?v=QHRyrChs-n8>



### To upload traffic data to TraffiCloud:

1. Connect to your sign in Sign Manager, and click the **Logs and Traffic Data** tab.



File Name	Log Type	Date Created	Erased From Sign	Device SN	Device Name	Sent to TraffiCloud	Site	Comments
WB NE 106 EO N Easter...	Traffic Data L...	7/27/2023 1:40 PM	<input checked="" type="checkbox"/>	12964918011330	ats1330	<input type="checkbox"/>		
Virginia SO 101-2.tdf	Traffic Data L...	7/27/2023 1:40 PM	<input checked="" type="checkbox"/>	12964918011330	ats1330	<input type="checkbox"/>		
Virginia SO 101-1.tdf	Traffic Data L...	7/27/2023 1:40 PM	<input type="checkbox"/>	12964918011530	ats1530	<input type="checkbox"/>		
Traffic Data 9-25-2020B.tdf	Traffic Data L...	7/27/2023 1:40 PM	<input checked="" type="checkbox"/>	12964918010130	ats0130	<input type="checkbox"/>		
Traffic Data 9-25-2020.tdf	Traffic Data L...	7/27/2023 1:40 PM	<input type="checkbox"/>	12964918010230	ats0230	<input type="checkbox"/>		
Traffic Data 72123.tdf	Traffic Data L...	7/27/2023 1:40 PM	<input type="checkbox"/>	12964918010430	ats0104	<input type="checkbox"/>		
Traffic Data 4-1-2022 11...	Traffic Data L...	7/27/2023 1:40 PM	<input type="checkbox"/>	12964918011430	ats1430	<input type="checkbox"/>		

[Figure 17] Logs and Traffic Data tab

2. Click the **Download from Sign** button to transfer the file to your PC.



**NOTE:** You can change the file name, but don't change the default file location. For the file upload to work, the file must first download to the default local folder that your PC and TrafficCloud Sign Manager use for your files. The current file storage folder is shown at the bottom of the **Connection and Setup** tab.

3. In Sign Manager, select the downloaded file and click the **Upload to TrafficCloud Site** button.
4. Do one of the following:
  - A. If your preferred Site is in the list, select it and click the **Upload** button to assign the data to an existing **Site**.
  - B. If you need to create a new Site, click the **New** button and create the new **Site** in TrafficCloud (you may be prompted to login at [portal.trafficcloud.com](https://portal.trafficcloud.com)). For help with creating Sites, please see the [Creating and Assigning Sites in TrafficCloud](#).

After you add the Site, click the **Refresh** button in TrafficCloud Sign Manager to display it. Select the Site and click the **Upload** button to assign the data to the new **Site**.



**NOTE:** It may take a few moments before the data is available to run your reports.



**NOTE:** Once a file is uploaded, it should not be uploaded again, otherwise duplicate data will be written and result in doubling of traffic counts.

5. Once the data is uploaded, you can run the following reports from the TrafficCloud **Reports** tab:

Standard Reports	
<b>Volume by Time</b>	Provides traffic counts by hour and date.
<b>Volume by Speed</b>	Provides traffic counts by 5-mph (8-kph) and 10-mph (16-kph) increments.
<b>Basic Speed Summary</b>	Provides vehicle speed statistics, including numbers of violators, vehicles inside the threshold speed limit, and number of compliant motorists by time of day.
<b>Raw Data Export</b>	Generates data for all traffic by date, including speed measurements (maximum, minimum, mean, 85%, median, and pace speed).

For more details about this procedure, please see the video linked at the beginning of this topic. For live technical support, please see [Contacting Customer Support on the facing page](#).

# Chapter 5

## Contacting Customer Support

---

For support for your All Traffic Solutions products,

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

### Technical documentation and training

Please visit the Customer Support page for links to our technical documentation.

Please contact Customer Support to discuss your TrafficCloud training options. For online training resources, please visit our **TrafficCloud Training Videos Hub** at <https://flow.alltrafficsolutions.com/hub-training-video-trafficcloud-0-0-0-0>.

Scan the QR code





**All Traffic Solutions**

All Traffic Solutions, 14201 Sullyfield Circle, Suite 300, Chantilly, VA 20151

P. 866-366-6602 E. [sales@alltrafficsolutions.com](mailto:sales@alltrafficsolutions.com)

©All Traffic Solutions