



User Manual

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Welcome to TraffiCloud!

TraffiCloud is All Traffic Solutions' secure, web-based ecosystem for managing ALL your traffic safety equipment. While our best-in-class hardware helps improve your traffic flows, complimenting this equipment with our TraffiCloud helps improve your workflows. Leveraging a consistent interface across all your traffic management equipment, TraffiCloud provides a new level of awareness while reducing the amount of time needed to manage your equipment and information.

Collect data automatically from all your equipment on the TraffiCloud, then access it when and where you need it. Use the data to dynamically manage your equipment and enhance its ongoing value.

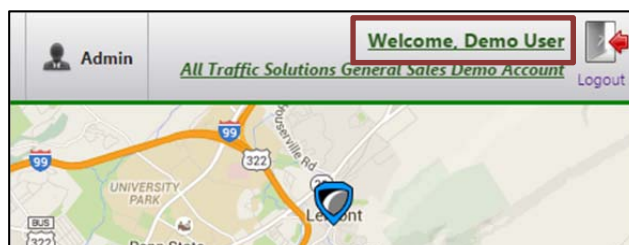
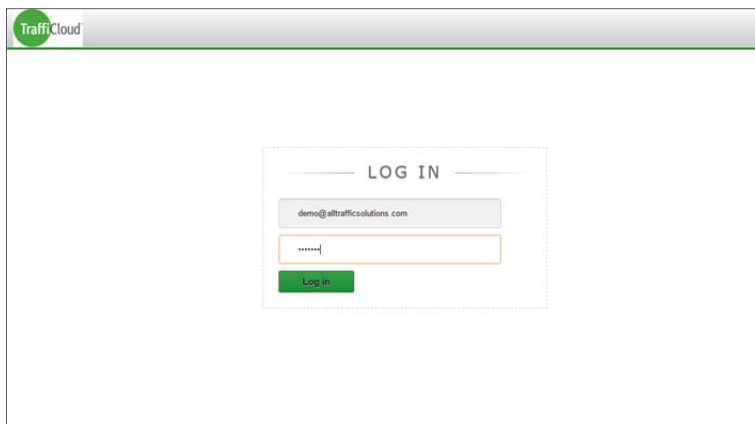
Achieve a new level of awareness and Total Traffic Safety Management.

Logging in

Navigate to <https://traffcloud.alltrafficsolutions.com> to find the TraffiCloud log in page.

Registered users should have received their username and password via an automated email. Otherwise please contact your account administrator(s) or request assistance from All Traffic Solutions at <http://alltrafficsolutions.com/support>.

Once logged in for the first time, please change your password by clicking your name in the upper-right corner of the site.





Home page – your Dashboard

The home page shows a summary of equipment status an locations as well as relevant news account information.

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Welcome, Demo User

All Traffic Solutions General Sales Demo Account

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News:

Welcome to TraffiCloud!

Users	Devices	Subscriptions
Total: 7	Total: 8	Expiring within 30 Days: 5
Active in Last 30 Days: 1	Active in Last 30 Days: 8	

Name	Site	Signal Strength	Last Login	Estimated Next Login	Mode	Power	Last Alert	Speed Limit	85% Speed	Current Message	Pending Settings
AT50002	Boalsburg Road, 126 Boalsburg Road		3 hours ago	1/6/2016 6:41 PM (past due)	Speed Display			25	41		<input checked="" type="checkbox"/>
AT50003	Waupelani Drive, 400 block		1 hours ago	1/6/2016 8:35 PM	Speed Display		High Speed	25	38		<input type="checkbox"/>
AT50000	Easterly Parkway, 200 block		29 minutes ago	1/6/2016 8:02 PM (past due)	Single Message			25	32	SM parking	<input type="checkbox"/>
AT50001	Bayberry Drive, 900 block		41 minutes ago	1/6/2016 7:50 PM (past due)	Single Message			25	37	ped xing	<input type="checkbox"/>
AT50004	University Drive, 1200 Block		38 minutes ago	1/6/2016 7:53 PM (past due)	Single Message			35	46	SM click it ticket	<input type="checkbox"/>
AT50005	South Allen Street, 500 block		27 minutes ago	1/6/2016 8:04 PM (past due)	Single Message			25	29	dui check	<input type="checkbox"/>
DET12876	No Site Assigned		27 minutes ago	1/6/2016 8:04 PM (past due)						dui check	<input type="checkbox"/>
DET13280	No Site Assigned		27 minutes ago	1/6/2016 8:04 PM (past due)						dui check	<input type="checkbox"/>



Equipment Management

Equipment subscribed to the Remote Equipment Management app will appear on this screen.

Select the type of equipment from the available options along the top row and then the specific device to manage in the table.

- Summary information for the selected device is shown below the table.
- Click "Edit Settings" or double-click the equipment in the list to make changes.

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Equipment
Messages
Dependent Messages
Sites
Alerts
Routes
Parking

Traffic Equipment
Lidar Equipment

Name	Product	Power	Assigned Site	Signal Strength	Settings	Pending SmartMove
ATS0002	Shield 12 Speed Display		Boalsburg Road, 126 Boalsburg Road, NB		Waiting for sync	
ATS0003	Shield 15 Speed Display		Waupelani Drive, 400 block, WB		Up to date	
ATS0000	SpeedAlert 18 Radar Message Sign (f		Easterly Parkway, 200 block, EB		Up to date	
ATS0001	SpeedAlert 24 Radar Message Sign (f		Bayberry Drive, 900 block, EB		Up to date	
ATS0004	InstALERT 18 Message Display		University Drive, 1200 Block, NB		Up to date	
ATS0005	InstALERT 24 Message Display		South Allen Street, 500 block, SB		Up to date	

Selected Equipment Details
ATS0003
Edit Settings

Last Location and Date: 40.7778 : -77.8544 1/06/2016 7:05:00 PM

Map
Satellite

Sign Mode: Speed Display
Speed Limit: 25
Average Speed: 0
85th Percentile: 38

Last Login: 1/6/2016 7:05 PM 0 UTC
Estimated Next Login: 1/6/2016 8:35 PM

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Equipment Settings

This page allows you to change how your sign operates.

- The "Sign Mode" will change the available options based on the mode selected.
- Select the "Site" where the sign is being used so data collected will be assigned there.
- Before clicking "Submit" review the "Apply changes..." options:
 - "Now" - will take effect as soon as the sign contacts the TraffiCloud and retrieves them.
 - "When Confirmed" - requires an operator at the sign to trigger a "Move" event
 - "In the Past" - will take effect like "Now" but also assigns data collected since the selected date/time to the selected site.

Edit Sign Settings Advanced Cancel Submit ?

Name: Tags: Pick Tags (0)

Serial #: Last Login: 46 minutes ago

Estimated Next Login: 1/6/2016 7:50 PM (past due)

Sign Mode: Assigned Site: Map data ©2016 Google Terms of Use Report a map error

Speed

Set Speed Limit to: MPH Radar Sensitivity:

Collect traffic data between: MPH & MPH

☒ Display speeds between: MPH & MPH

☐ Activate Strobe Above: MPH

Alerts and Images Alert Recipients

Send Alert? ☒ Threshold: %

Very Low Battery ☐ Take Picture? ☒ Image Quality:

Tamper ☒

High Speed ☐ MPH ☐

Congestion ☒ MPH ☐

Awareness Image every: Minutes ☐

If you have selected 'Send Alert' & 'Take Picture', the alert email will have the image attached.

Power

Supply Type: Capacity: AH ☐ Solar Panel Installed

Brightness: to Capacity: Watts

Messages on sign Add New Message Choose one from the Library

#	Name	Selected Message	Copy to the Library	Edit	Delete
0	ped xing				
1	acc ahead move R	<input checked="" type="checkbox"/>			
2	buckle up its the law				
3	click it or ticket				
4	ice on bridge				
5	booze it lose it				

Apply Changes . . . ☐ Override Local

☒ Now

☐ When new Site is confirmed by Sign

☐ In the past

Active Message (Displays upon Submit)

Message # 0 ped xing

PEDESTRIAN CROSSING



Message Library

This is an area where messages are stored and are available to any equipment of relevant type.

A **Message** is a sequence of text and/or graphic **Screens** that are displayed on a sign and looped through continuously.

Messages may be created, edited, copied, or deleted from this library.

A quick preview of the selected message is shown in the right-hand side column.

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.

Messages may be selected from or added to this library directly in the Equipment -> Edit Equipment Settings area as well.

For more information about Messages, see the **Editing Messages** section below.

TraffiCloud™

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Messages

Dependent Messages

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Alerts

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Message Library

Filters

New

Edit

Copy

Delete

?

Name	Description	Size	Screen Count	Last Modified
0-Click It or Ticket	Click it with Graphics	24"	3	4/03/2015 11:38:26 AM
Accident Left	Accident Ahead on Left	24"	3	4/02/2015 10:44:03 AM
Accident Right	Accident Ahead on Right	24"	3	4/03/2015 11:38:26 AM
Active Workzone Speed Limit		18"	2	11/04/2015 12:34:19 PM
Amber Alert	Amber Alert -co- erb327	24"	3	4/03/2015 11:38:26 AM
Boston Parking right at summer		24"	3	12/08/2015 8:13:15 AM
Boston Parking Seaport Bridge 1		24"	1	11/29/2014 1:24:29 PM
Chevrons right	>>>	24"	3	4/03/2015 11:38:26 AM
CM 1 - Your Speed	System - Your Speed for use in conditional messages	24"	2	8/19/2015 10:43:15 AM
CM 2 - Your Speed 2	System - Speed Limit for use in conditional messages	24"	3	4/03/2015 11:38:26 AM
CM 3 - Speed Limit	System - Speed Limit	24"	3	4/03/2015 11:38:26 AM
CM 4 - Too Fast	System - Speed Limit 2 for use in conditional messages	24"	3	4/03/2015 11:38:26 AM
Evacuation Route	Evacuation Route Ahead	24"	2	4/03/2015 11:38:26 AM
Have Nice Day	Describe the message here	18"	1	4/03/2015 11:38:26 AM
Men Working	Men Working with Graphics	24"	2	4/03/2015 11:38:26 AM
Parking Wayfinder Right		18"	1	11/29/2014 2:21:20 PM
Parking Wayfinder Right - Arrow		18"	1	12/10/2014 9:45:31 AM
Route 80 Workzone		24"	2	3/26/2015 11:39:07 AM



Editing Messages

Messages

A **Message** is a sequence of text and/or graphic **Screens** that are displayed on a sign and looped through continuously.

- Messages are referenced by a "Name" but a more detailed **Description** can be included
- Choose the number of screens included immediately or add/remove them as needed
- The **Size** of the Message must match the type of equipment on which it will be displayed.

Screens

To edit a Screen, select a tab with the screen number on it.

Screen Types

Screens have a selectable Type which dictates part of the format and information displayed

- Large / Medium / Small Lines are text only. The length of text will be limited by the screen size.
- Graphics allows individual control of each LED pixel on the screen
- Speed Limit displays the value of the speed limit setting stored in the sign
- Your Speed displays the speed of an approaching vehicle (radar required)
 - Recommended for use as part of a Dependent Message only, otherwise the speed of 0 will be displayed when no vehicles are present.
 - Note: this uses the speed detected at the beginning of the message only and is not updated again until the message loops. Therefore it is best to place it as the first screen in the message and keep the message short.
- Clock screens show the current time as shown in the preview

Screen Properties

- Duration is the number of seconds the screen will be displayed until going to the next screen.
- Blink Types are blinking, inverting, or none.
 - Inverting blink is where illuminated parts of the screen go dark and non-illuminated parts light up for a time then revert back to normal repeatedly.
- Blink Rate is only relevant when the screen is set to blink or invert.
 - Slow is timed as 1 sec on / 1 sec off
 - Medium is timed as 0.75 sec on / 0.75 sec off
 - Fast is timed as 0.5 sec on / 0.5 sec off
- Screen Power Usage 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.
 - Note blinking a screen effectively halves its power usage
 - Inverting a screen uses 50% power.

Variable Text {x} Feature

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.

For more information on this feature or custom applications please contact ATS at support@alltrafficsolutions.com



Edit Message

CancelSave?

Nameacc ahead move R

How many Screens?3

Size24"

Descriptionslow accident ahead move right with arrow

SLOW

ACCIDENT AHEAD

MOVE RIGHT

Screen 1

Screen 2

Screen 3

Screen TypeMedium Lines

Duration2

Blink TypeNone


Blink RateSlow

☐ Include Travel Times?

JustificationCenter

Line1ACCIDENT{x}

Line2AHEAD{x}



Screen Power Usage: 36%



Dependent Message Library

This is an area where Dependent Message Groups are stored and are available to any equipment of a relevant type.

Dependent Message Groups allow a variable message sign to show different messages depending on the value of a variable input. The Dependent Message Group provides a convenient way of grouping together related messages along with the conditions under which they should be displayed all in one place. Dependent Message Groups can be dependent on various input conditions and variables, the most common of which is detected vehicle speed (radar speed sensor required).

Dependent Message Groups may be created, edited, copied, or deleted from this library.

A quick preview of the selected dependent message is shown in the right-hand side column 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 if both sizes are available.

Dependent Message Groups may be selected from or added to this library directly in the Equipment -> Edit Equipment Settings area as well.

For more information about Dependent Message Groups, see the **Editing Dependent Messages** section below



Editing Dependent Messages

The different types of Dependent Message Groups are shown below.

Detected Speed

A group that displays an appropriate message based on the detected speed of an approaching vehicle. Often used for traffic calming. Radar speed sensor required.

Timer Value

Displays different messages based on the value of the internal timer. Often used for New Year's countdowns or casual race information. Manual timer start / stop control is usually required. (Timer should not be used as an official timekeeping device)

Digital Inputs

Different messages can be displayed based on digital input values. Custom firmware and wiring is required. Contact support@alltrafficsolutions.com or your regional sales rep if you are interested in using this feature.

String Value

A string of text characters can be sent to the sign and compared with a predetermined value. If the strings match, the corresponding message will display. Text strings can be sent to the sign manually using the "Live Values" area of the PC software. Use the 'string 1' value. For more information contact support@alltrafficsolutions.com or your regional sales rep.

Analog Input

Displays 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 support@alltrafficsolutions.com or your regional sales rep if you are interested in using this feature.

Best Route

Travel Times feature required. If there are multiple routes to a given destination, each route may be assigned to a message. The message assigned to the route with the fastest overall travel time will be displayed.

Route Info Dependent

Travel Times feature required. A travel route may be assigned to this group. Different messages can be displayed depending on the travel time, average speed, or overall delay for the route.



Edit Dependent Message Group Cancel Save ?


Message Size: 24" ▾ **Messages are Dependent on:** Detected Speed ▾

Group Name: Default Dependent Message

Description: Describe your message group here

Condition	Message To Display
No Vehicles	Blank Message
Under Speed Limit	Thank You
Within 10 MPH over the Speed Limit	Speed Limit
Between 10 and 20 MPH over the Speed Limit	SLOW DOWN
More than 20 MPH over the Speed Limit	TOO FAST

Change Selected Condition and Message New Edit Choose from Library Copy to Library





Sites

Sites provide an organized way to store traffic data collected at a specific location. When equipment is assigned to a Site, the traffic data collected will be assigned to this Site. If the equipment is moved, a new Site should be assigned and new traffic data collected will be assigned to the new Site from that point forward.

Sites are used in Reports to generate meaningful reports of traffic at a specific location. Sites are also used as the starting point for Routes in the Travel Times feature.

This area is where Sites are created and managed.

Click on **'New'** to create a new Site.

Sites that have been created are shown in a list on the left-hand side. Click a site in the list and its

'Details' will display in the panel to the right. The details can be edited and saved as desired.

Click the **'History'** tab to show what equipment has been deployed to this location as well as a graphical representation of the continuity of traffic data collected at the sign for the past month.

Sites can be tagged to help in organization. For instance, there may be multiple Sites along a certain road. These Sites can all be tagged with the road name, say "Road / Main St". Now these Sites can be found quickly by using the "Filters" drop-down at the top of the page. The same filters are available in Reports for convenience.

The screenshot shows the TraffiCloud web interface. The top navigation bar includes links for Home, Management, Reports, Map, Tools, and Admin. The left sidebar contains a list of site names, with "Easterly Parkway, 200 block, EB" selected. The main content area displays the details for this site, including a map view and a list of filter tags. The map shows the location of the site on Easterly Parkway, with a blue pin indicating the specific location. The filter tags section allows users to select tags for the site, and the map view provides a visual representation of the site's location relative to surrounding streets and landmarks.



Creating New Sites

Enter a name for the site that is specific to this location, ie "Main St, 400 block".

Tags can be added to a Site and used to categorize a Site with others, such as all the sites on a given street, campus, or geographic region.

A Site's location can be set using a postal address, GPS coordinates, or by double-clicking a point on the map. Try to get as close to the actual deployment location as possible.

The 'Site Description' can be used for notes about this Site such as "telephone pole, beware of resident's dog!"

'Set Speed Limit' option allows equipment assigned to this Site to be automatically assigned the proper speed limit for this location.

Hiding a Site is a way to remove unused sites from lists in the TraffiCloud website without losing any traffic data stored there.

The 'Ignore GPS' option prevents equipment assigned to this site from raising a 'Site Conflict' if its detected GPS coordinates do not match the Site's coordinates on the Map.

A screenshot of the TraffiCloud web interface for creating a new site. The form is titled "Unknown - Save Changes to see Site Name:" and includes "Cancel" and "Save" buttons. It features a "Choose Filter Tags" section with a "Pick Tags (4)" button and a note "Don't forget to tag your sites to keep them organized". Below this is a "Complaints:Speeding,Department..." dropdown. The "Site Name" field contains "North Main St". The "Site Description" field contains "Beside the bank". There are two checkboxes: "This Site is hidden across TraffiCloud" (unchecked) and "Ignore GPS data from equipment" (unchecked). An "Address Search" field shows "123 N Main St, Hanover, PA 17331" with a "Center Map" button. A "Direction of Traffic Flow" dropdown is set to "Northbound". A "Set Speed Limit" checkbox is checked, with a value of "25 MPH". The bottom half of the form is a map showing the location of the site, with a blue pin on North Main St. The map includes street names like Plum Creek, O'Brien Ln, Church St, Fairview Ave, Ridge Ave, N 5th St, N 4th St, S 5th St, S 4th St, S 3rd St, S 2nd St, N 3rd St, N 2nd St, N 1st St, S 1st St, S 2nd St, S 3rd St, S 4th St, S 5th St, S 6th St, S 7th St, S 8th St, S 9th St, S 10th St, S 11th St, S 12th St, S 13th St, S 14th St, S 15th St, S 16th St, S 17th St, S 18th St, S 19th St, S 20th St, S 21st St, S 22nd St, S 23rd St, S 24th St, S 25th St, S 26th St, S 27th St, S 28th St, S 29th St, S 30th St, S 31st St, S 32nd St, S 33rd St, S 34th St, S 35th St, S 36th St, S 37th St, S 38th St, S 39th St, S 40th St, S 41st St, S 42nd St, S 43rd St, S 44th St, S 45th St, S 46th St, S 47th St, S 48th St, S 49th St, S 50th St, S 51st St, S 52nd St, S 53rd St, S 54th St, S 55th St, S 56th St, S 57th St, S 58th St, S 59th St, S 60th St, S 61st St, S 62nd St, S 63rd St, S 64th St, S 65th St, S 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Tagging Sites

Tags are labels that can be assigned to Sites, Equipment, and Users to assist in organization.

Tags and Terms

Tags can be thought of as a category, use the tag Roads for example.

Terms are like a sub-category. Under the tag Roads there may be the terms Main St, High St, Maple Ave, etc...

The example tag and term set [Roads | Main St] could be applied to multiple Sites that have addresses along Main St.

Once many Sites have been created it can be helpful to use the applied tags for filtering sites when reporting on data collected.

Tags must be created under Tools -> Tags for use elsewhere in TraffiCloud.

Terms may be created under Tools as well or on-the-fly when applying tags to an item.

The Tag Picker interface is a window with a dark header bar containing the title "Tag Picker", a "Done" button, and a help icon. On the left, there is a "Select Tags:" dropdown menu currently showing "Equipment". Below it is a "New Term:" text input field followed by an "Add Term" button. A list of tags is shown below: "Radar Message Sign" (highlighted in green), "Speed Displays", and "VMS". In the center, there are "Add" and "Remove" buttons. On the right, there is a table with two columns: "Tag" and "Term".

Tag	Term
Department	Parking
Department	Traffic
Equipment	Radar Message Sign
Zones	School



Images

Here images taken by equipment are stored by the Site.
Only Sites that have images will appear.

Active Sites are sites with equipment assigned to them that have pictures.
Inactive Sites are sites without equipment currently assigned to them.

The thumbnail shows the most recent image taken at the Site. The event that triggered the image, the date / time it was taken, the Site name, and equipment name are also shown.
Click the thumbnail to bring up a list of images at the Site.

To show all images, regardless of site, click the 'View All Images' button at the top of the page.

TraffiCloud
Powered by All Traffic Solutions

Home Management Reports Map Tools Admin

Welcome, Township of College Logout

Equipment Sites **Images** Alerts Parking

View All Images

Active Sites

	High Speed Event First Avenue, 238 First Avenue, WB 12/19/2015 16:01:06 -5 UTC ATS1521
	High Speed Event First Avenue, 257 First Avenue, EB 12/19/2015 10:05:05 -5 UTC ats0131

Inactive Sites

9/30/2015 14:18:33 -5 UTC	Boalsburg Road, 1111 , NB	View Images
9/26/2015 22:12:36 -5 UTC	Boalsburg Road, 1111, SB	View Images
7/28/2015 10:01:25 -5 UTC	Boalsburg Road, 126 Boalsburg Road, NB	View Images
7/27/2015 20:12:44 -5 UTC	Boalsburg Road, 126 Boalsburg Road, SB	View Images
11/21/2014 13:51:45 -4 UTC	Dreibelbis Street, 1300 block Dreibelbis	View Images
11/13/2014 15:34:10 -5 UTC	Elmwood Street, 700 Elmwood Street, SB	View Images
6/1/2015 17:57:21 -5 UTC	Houserville Road, 900 Houserville Road,	View Images
5/19/2015 11:33:10 -5 UTC	Houserville Road, 1429 Houserville Road,	View Images
8/14/2015 19:11:45 -5 UTC	Hunter Avenue, 222 Hunter Avenue, SB	View Images
9/11/2015 9:42:40 -5 UTC	Hunter Avenue, 231 Hunter Avenue, NB	View Images
1/5/2015 14:06:49 -5 UTC	Oak Ridge Avenue, 1101, WB	View Images
11/12/2015 10:09:57 -5 UTC	Puddintown Road, 517 Puddintown Road,	View Images
10/13/2015 9:31:47 -5 UTC	Puddintown Road, Spring Creek Park, EB	View Images
10/9/2015 14:32:29 -5 UTC	Puddintown Road, Spring Creek Park, WB	View Images
2/16/2015 10:23:55 -5 UTC	West Whitehall Road, 516 West Whitehall	View Images



Image Review

Here all images taken at a Site can be reviewed.

The list of images can be filtered down by date / time range and image trigger type.

In 'View All Images' filters for the Site and Tags are also available.

Click a thumbnail image on the list to the left to see a full-size version along with the details associated with the image. Comments can be added to an image by typing in the Comment box and clicking 'Update'.

Images may be purged from the system after 6 months. However, if an image is of particular interest and should be retained, click the 'Retain this image past the 6 month expiration date' box.

The date filter defaults to a preset range. Adjust the filter to see images outside of this range.

The screenshot shows the 'Image Review - All Images' interface. It includes a 'Tags' table, a 'Sites' list, 'Date Range' and 'Time of Day' filters, an 'Image Type' list, a main image viewer, and an 'Image Detail' panel.

Tag	Term
Complaints	Accident
Complaints	Inspection
Complaints	Moving Violation
Complaints	Parked Vehicle

Sites

- 569 Knightsbridge, EB
- All Traffic Solutions, NB
- Bayberry Drive, 900 block, EB
- Boalsburg Road, 126 Boalsburg Road

Date Range: 2015-07-07 to 2016-01-06

Time of Day: 0:00 to 23:59

Image Type

- Awareness Image
- Congestion Event
- High Speed Event
- Tamper Event

Image Detail

Time: 8/28/2015 15:50:39 0 UTC

Image Type: High Speed Event

Site: Waupelani Drive, 400 block, WB

Device: ATS0003

Picture Quality: High

Retain this image past the 6 month expiration date. ☐

Speed: 54

Speed Limit: 25

Comment: Chronic speeder

Buttons: Delete, Update



Alerts

This is a log of a Alerts received from equipment that have the Alerts feature enabled.

Alerts that have images associated with them may be viewed by clicking the 'View Image' button.

<div>TraffiCloud <small>Powered by All Traffic Solutions</small></div> <div>Home Management Reports Map Tools Admin Welcome, Demo User All Traffic Solutions General Sales Demo Account Logout</div>								
Equipment	Alerts	Filters						
Messages	Saved	Device	Site	Alert Type	Date	Alert Details	Threshold	Recipients
Dependent Messages	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 15:05:27 0		54	View Image
Sites	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 14:10:02 0		64	View Image
Alerts	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 9:30:07 0		75	
Routes	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 9:14:53 0		55	
Parking	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 6:12:58 0		78	
	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 4:50:53 0		54	
	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/2/2015 4:42:20 0		63	
	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/1/2015 1:39:44 0		57	
	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/1/2015 13:59:23 0		53	View Image
	<input type="checkbox"/>	ATS0003	Waupelani Drive, 400 block	High Speed	4/1/2015 4:33:51 0		56	



Routes – Premium Travel Times Feature

Routes are used with the premium Travel Times feature.

A route starts at a Site. To create a route, select a Site and click the 'New' button.

The Destination Address is the end point for the Route. Enter an address or GPS coordinates and click the 'Set' button to place a red pin on the map. In cases where more than one location is found, the entry must be refined to be more specific.

Click on the 'Generate Route' button to automatically create a route between the Site and the destination. Details for the generated route will be displayed.

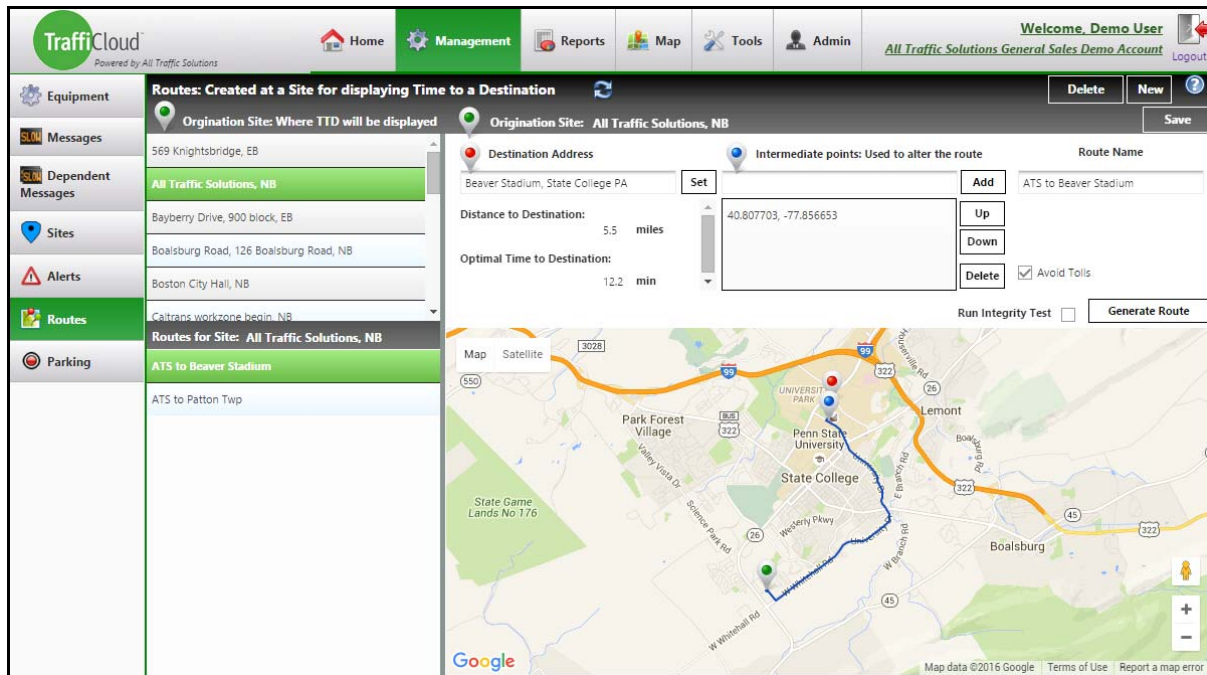
If the route is desired to go in a specific or different path, enter one or more intermediate points and click 'Generate Route' again. Continue this process until the route goes in the desired path.

Enter a 'Route Name' and click 'Save'.

Multiple Routes may be created for a Site.

Apply a Route to a Message by clicking the box 'Include Travel Times' and chose the Route name. Show travel times in a Message by clicking the {x} beside the line of text and inserting the 'Time to Destination', 'Delay to Destination', or 'Average Speed to Destination'.

For more information concerning this premium feature contact support@alltrafficsolutions.com.



Reporting

Reports can be generated based on traffic data stored in a Site.

Select the type of report to run in the 'Report Name' drop-down list. A description of each type of report is included at the end of this section.

Next select the Site that contains the traffic data for the report.

*** Note: The 'Enforcement Priorities' report allows multiple sites to be selected. To select more than one Site or to deselect a Site, use ctrl-Click.

Use the 'Data History' chart at the bottom right along with adjusting the 'Date Range', 'Time of Day' and 'Days of the Week' filters to assure a quality set of data is available.

Next choose the way the report should process the data by selecting the 'Time View'.

- 'By Hour' shows average volumes for each hour of the day across all days in the range.
- 'By Day of Week' shows average volumes for each day of the week across the date range..
- 'By Date' shows total vehicles per day for each date in the range.
- 'By Week' shows total vehicles per week for each week (Sun-Sat) in the date range.

Minimum and Maximum speed filters can be used to eliminate outlying speed ranges from the reports.



Report Types

Reporting is provided in two levels, Premium and Standard.

Standard reports are Speed Summary, Volume by Speed, and Volume by Time.

Premium reports are Compliance and Risk, Enforcement Priorities, Speed Effectiveness, and Enhanced Speed Summary.

Compliance and Risk - Premium

This report breaks down the number of vehicles into risk categories based on their speed in reference to the speed limit.

Risk Categories are 'High', 'Medium', 'Low', and 'Compliant' using a red, orange, yellow, and green color legend for quick comprehension.

Can be generated 'by Hour', 'by Day of Week', 'by Date', or 'by Week'.

Numeric tables are provided as well as graphical charts showing percent and total vehicles in each risk category.

A graph showing the speed limit, mean speed, 50% speed, and 85% speed is also displayed.

Enforcement Priorities - Premium

This report analyses and compares traffic data to list the locations and times with the worst violation numbers.

Violations can be compared by 85% speed or a sliding scale between speed and volume.

Filters are provided to limit analysis to only serious violators and reasonable volumes.

Multiple Sites can be compared in this report. Select more than one in the list by using 'ctrl-Click'.

Speed Effectiveness - Premium

This report can help determine if traffic calming signs are effective. Radar signs that are compatible with this report log the change between a vehicle's initial speed and its final speed. The average reduction in speed of vehicles in separate risk categories are displayed. A graph is provided along with a chart of vehicle volumes for reference.

It is recommended to compare an initial week of data where the speed feedback is turned off (for a baseline) to a second week of data with speed feedback being displayed for best results

Enhanced Speed Summary - Premium

This report provides a summary of volumes and speeds at the selected Site.

Overall summary numbers are given for 'Average Speed', '50th Percentile Speed', '85th Percentile Speed', 'Pace Speed Range', 'Minimum Speed', 'Maximum Speed', 'Average Volume per Day', and 'Total Volume'.

A colorized chart of Volumes by Compliance for each hour of the day is shown, along with a pie chart of Sign Effectiveness and a line graph of the key speed numbers per hour.

The second page is a table displaying all summary values per hour.



Speed Summary - Standard

This report provides a summary of volumes and speeds at the selected Site.

Overall summary numbers are given for 'Average Speed', '50th Percentile Speed', '85th Percentile Speed', 'Pace Speed Range', 'Minimum Speed', 'Maximum Speed', 'Average Volume per Day', and 'Total Volume'.

Volume by Speed Analysis - Standard

This report is a table of speed bins (ranges) showing the number of vehicles in each bin over the selected time view.

Time views are 'By Hour (Average Volumes)', 'By Hour (Total Volumes)', 'By Day of Week (Average Volumes)', 'By Date (Total Volumes)', and 'by Week (Total Volumes)'.

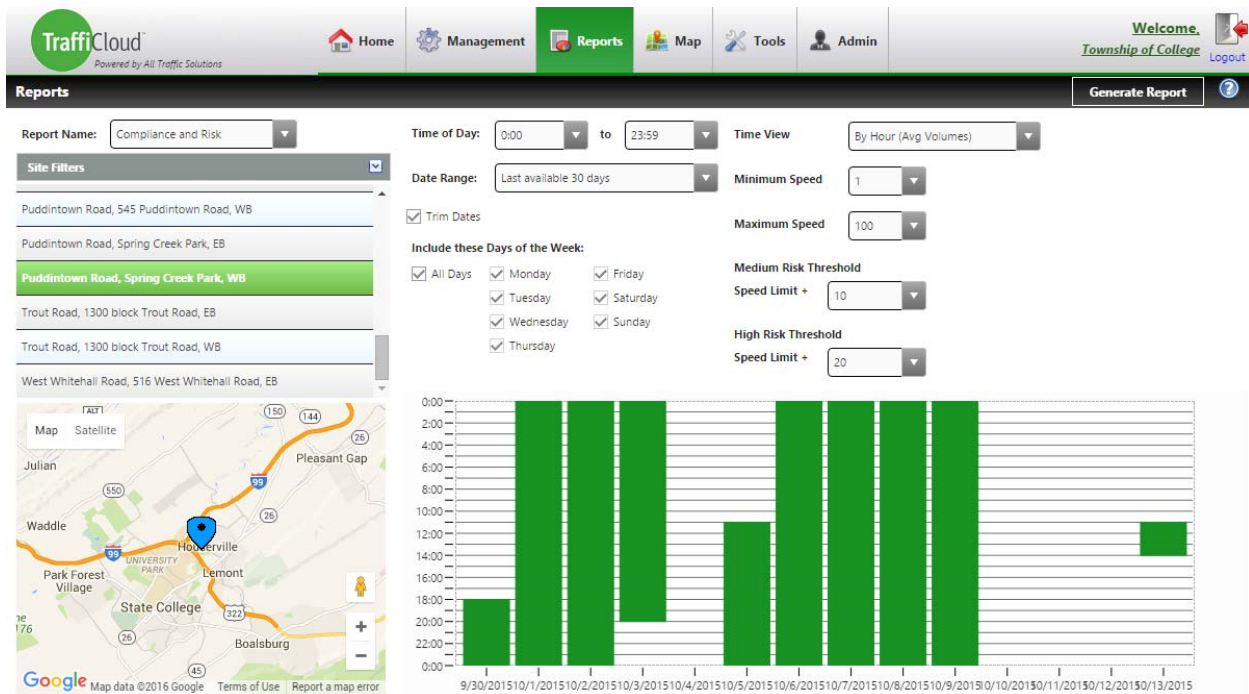
Graphical charts are also displayed on the last page.

Volume by Time Analysis - Standard

This report is a table of hours showing the number of vehicles counted each hour over the selected time view.

Available time views are 'By Day of Week (Average Volumes)', 'By Date (Total Volumes)', and 'By Week (Total Volumes)'.

A chart visually displaying the information is on the last page.





Mapping

Here Equipment and Sites are shown on a map. By default, only Sites that have Equipment currently assigned to them are shown. All sites can be shown by checking the box in the map key at the bottom right of the map.

Clicking on the Equipment icon or Site will show details in the left sidebar. Convenient links are provided to other areas of the site within the details.

Equipment Icon Color Key explanation:

Green - Equipment at this site is operating properly and no alerts have been received in the past 24 hours.

Gray - Equipment here has not contacted TraffiCloud within the expected time. Some possible causes are loss of power, dead battery, poor cellular reception, or vandalism.

Yellow - Equipment here has notified TraffiCloud of an Alert condition within the past 24 hours.

Red - The Equipment has reported GPS coordinates that do not closely match the Site to which it is assigned. Some possible causes include the Site's location needs adjusted in TraffiCloud, the sign is at another location, the sign's GPS coordinates are being read incorrectly due to interference in its environment, or inconsistencies in the map GPS alignment.

The screenshot displays the TraffiCloud web application interface. The top navigation bar includes links for Home, Management, Reports, Map (highlighted), Tools, Admin, and a user profile section for 'Welcome, Demo User'. The main content area is divided into a sidebar on the left and a map on the right.

Left Sidebar:

- Data Collection Site:** South Allen Street, 500 block, SB
- Tags:** GPS 40.7913 : -77.8564
- Reports:** View
- Devices at Site:** Settings
- Table:**

Status	Nickname	Last Login	Next Login
	ATS0005	1/06/2016 20:56:02	1/06/2016 21:11:02

- Device Alerts:**
- Device Details:**

Mode	Single Message	Speed Limit	25
Power		85% Speed	29

Message # 0 dui check

DUI CHECK **PREPARE TO STOP**

Right Map:

- Traffic Equipment:** Map, Satellite
- Map:** Shows a map of Penn State University with various locations marked by colored icons (green, gray, yellow, red).
- Legend:**

- Normal Operation
- Unknown; missed log in
- Alert within last 24 hours
- Equipment and Site Conflict
- Data Collection Site
- ☐ Show Sites without Equipment
- ☐ Show Google Traffic

Map data ©2016 Google



Tools

Equipment Applications and Options

Here all equipment belonging to this account is shown. The options purchased for each device and any additional services (apps) to which the device is subscribed are shown in the table.

Legend:

Green icon -> option has been purchased or application is actively subscribed

Red icon -> option or application is set to expire soon

White icon -> option available to purchase or application has expired

Faded White icon -> option or application is not available.

TraffiCloud

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Apps & Options

Premier Care

Tags

Account Details

Equipment Options

Equipment Name	Bluetooth Mgmt	Traffic Data Logging	Strobe	Aux Out	Pictures	
ATS0002	Subscribed	Subscribed	Subscribed	NotSubscribed	Subscribed	
ATS0003	Subscribed	Subscribed	Subscribed	NotSubscribed	Subscribed	
ATS0000	Subscribed	Subscribed	NotSubscribed	NotSubscribed	Subscribed	
ATS0001	Subscribed	Subscribed	NotSubscribed	NotSubscribed	Subscribed	
ATS0004	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	Subscribed	
ATS0005	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	Subscribed	
DET12876	NotSubscribed	NotSubscribed	NotSubscribed	NotSubscribed	NotAvailable	
DET13280	NotSubscribed	NotSubscribed	NotSubscribed	NotSubscribed	NotAvailable	

Equipment Apps












Equipment Name	Premier Care	Remote Equipment Mgmt	Alerts	Data Mgmt	Remote Pictures	
ATS0002	NotSubscribed	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	
ATS0003	NotSubscribed	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	
ATS0000	NotSubscribed	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	
ATS0001	NotSubscribed	Subscribed	Subscribed	NotSubscribed	NotSubscribed	
ATS0004	NotSubscribed	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	
ATS0005	NotSubscribed	Subscribed	NotSubscribed	NotSubscribed	NotSubscribed	
DET12876	NotSubscribed	NotAvailable	NotAvailable	NotAvailable	NotAvailable	
DET13280	NotSubscribed	NotAvailable	NotAvailable	NotAvailable	NotAvailable	



Premier Care

Premier Care is a perpetual warranty for the equipment. If anything goes wrong with the equipment while covered by Premier Care, ATS will repair the product free of charge. Other discounts may also apply.

This page shows equipment currently covered by Premier Care.

<div>  Powered by All Traffic Solutions </div> <div> Home Management Reports Map Tools Admin </div> <div> Welcome, Eric Kline  </div>							
<div> Apps & Options </div>	Equipment						
	Device Name	Purchase Date	Warranty Expiration	Last Log On	Signal Bars	Control Firmware Version	Comm Firmware Version
	Premier Care	ats335	12/31/1969 7:00:00 PM	12/31/1969 7:00:00 PM	2015-12-12 19:39:56		3.2.1
	Tags	ATS66BV	10/29/2015 3:26:45 PM	8/25/2016 8:00:00 PM	2015-11-20 13:07:00		3.2.1
	Account Details	ATS4530	10/29/2015 3:26:46 PM	8/25/2016 8:00:00 PM	2015-11-20 15:51:00		3.2.1
		ATS1130	10/29/2015 3:26:43 PM	8/25/2016 8:00:00 PM	2015-11-16 15:44:00		3.2.1
		ATS1030	10/29/2015 3:26:43 PM	8/25/2016 8:00:00 PM	2015-11-20 15:31:00		3.2.1
		ATS8130	10/29/2015 3:26:43 PM	8/25/2016 8:00:00 PM	2015-12-08 08:14:57		3.2.1
		ATS0021	5/21/2015 7:33:26 PM	6/05/2079 8:00:00 PM	2016-01-05 03:54:08		3.0.24
		atsE-TEST	12/31/1969 7:00:00 PM	11/19/2019 7:00:00 PM	2015-12-22 13:15:25		3.3.2
		ATS0221	10/29/2015 3:26:43 PM	8/25/2016 8:00:00 PM	2015-11-20 15:59:00		3.2.1



Tag Management

Tags are labels that can be assigned to Sites, Equipment, and Users to assist in organization.

Tags and Terms

Tags can be thought of as a category, use the tag Roads for example.

Terms are like a sub-category. Under the tag Roads there may be the terms Main St, High St, Maple Ave, etc...

The example tag and term set [Roads | Main St] could be applied to multiple Sites that have addresses along Main St.

Once many Sites have been created it can be helpful to use the applied tags for filtering sites when reporting on data collected.

Tags must be created under Tools -> Tags for use elsewhere in TraffiCloud.

Terms may be created under Tools as well or on-the-fly when applying tags to an item.

The screenshot shows the TraffiCloud web application interface. At the top is a navigation bar with links for Home, Management, Reports, Map, Tools (highlighted in green), and Admin. A user profile for Eric Kline is visible on the right. The main content area is titled "Tags Collections of terms used to organize your data (Sites, Users and Equipment.)". It is divided into three columns: "Tags", "Terms", and "Where is it used?". The "Tags" column has a list of tags: County, Department, Road Classification, Roads, Township, Users, and Zones (highlighted in green). The "Terms" column has a list of terms: Construction, Park, and School (highlighted in green). The "Where is it used?" column shows where the tags and terms are applied, with sections for Equipment (ats335), Data Collection Sites (Easterly Elementary School, WB), and Users. The interface includes "Add Tag", "Delete Tag", "Add Term", and "Delete Term" buttons.



Account Details

This page displays the account information.

If the information is out of date, please contact ATS to update it.

866-366-6602

A screenshot of the TraffiCloud web application interface. The top navigation bar includes links for Home, Management, Reports, Map, Tools, and Admin. A user greeting "Welcome, Demo User" and a "Logout" link are on the right. The left sidebar contains "Apps & Options", "Premier Care", "Tags", and "Account Details" (which is highlighted). The main content area is divided into two tabs: "Account Information" and "Guest Accounts". The "Account Information" tab is active, showing details for the "All Traffic Solutions General Sales Demo Account". The details include: Account Name, Street Address 1 (3100 Research Drive), Street Address 2, Street Address 3, City (State College), State (PA), Postal Code (16801), and Country. A map of State College, PA, is displayed below the address information. The "Guest Accounts" tab is also visible, showing a list of guest accounts and a "Switch to" button. The bottom of the page shows a Google map with a green pin and a "Map" button.



Administration

User Management

This area allows Administrators to create, edit, and remove users in TraffiCloud. All Users are assigned a permission Role and can be tagged with a group label if desired. The User list can be filtered by Role and / or tag for convenience.

User Role Levels

Reporting Only Users

These users can run reports on traffic data collected. This includes access to the 'Reports' and 'Map' tabs and 'Images' and 'Alerts' under the 'Management' tab.

Read Only Users

This role allows users to view everything in Management, run Reports, view the 'Map' and 'Tools' tabs. These users cannot, however, create, delete, or change anything.

Limited Users

Limited users can do everything Read Only users can but additionally can create, edit, and delete 'Messages', 'Message Groups', 'Sties', 'Routes', and 'Tags'.

Standard Users

This role includes all the abilities of the Limited role, but can also make changes to 'Equipment' under 'Management'. These users can also view 'Users' and 'Guest Users' under the 'Admin' but cannot make changes.

Administrators

The Administrator role has access to all features of TraffiCloud. Most importantly, Administrators are the only role that can create, edit, or delete Users from the system. This role is also able to grant 'Guest Users' access to your account.



TraffiCloud[™]

Powered by All Traffic Solutions

Home

Management

Reports

Map

Tools

Admin

Welcome, Demo User

All Traffic Solutions General Sales Demo Account

Logout

Users

Guest Users

Users

Filters

Title	First Name	Last Name	Email Address	Tags
	Brandon	Jones	bjones@alltrafficsolutions.com	
	Demo	User	demo@alltrafficsolutions.com	
	Frank	Williams	fwilliams@alltrafficsolutions.com	
Mr.	John	Davidson	jdavidson@alltrafficsolutions.com	
Mrs.	Kimberly	Hernandez	khernandez@alltrafficsolutions.com	
Ms.	Stephanie	Smith	ssmith@alltrafficsolutions.com	

User Details

Delete

New

Change Password

Save Changes

Email Address: demo@alltrafficsolutions.com

Title:

None

First Name:

Demo

Last Name:

User

Role:

Administrator

Access Type for this Role: Administrator

Filter Tags:

Pick Tags (0)



Guest Users

Guest Users are users of TraffiCloud on another account that have access to your account.

Administrators may grant access to their account by entering the username of the desired guest and clicking 'Add Guest User'.

Guest Users may be removed by selecting their name in the table of current guest users and clicking 'Remove Guest User'.

Guest Users can access your account by going to 'Tools' -> 'Account Details', selecting your account from the list of Guest Accounts, and clicking 'Switch to'.

**** Important Note ****

Guest Users will retain the same permission role on your account that they have on their own account. Only give guest access to those you trust!

The screenshot displays the TraffiCloud Admin interface. The top navigation bar includes links for Home, Management, Reports, Map, Tools, and Admin. The right side of the header shows a welcome message for 'Demo User' and a Logout button. The left sidebar has a 'Users' menu with a 'Guest Users' sub-option. The main content area is titled 'Users' and features a search bar with the text 'eek109z@hotmail.com' and a 'Find User' button. Below the search bar is a table with columns for Title, FirstName, LastName, and EmailAddress. The table contains one row for a user named 'Sergeant Eric Kline' with email 'eek109z@hotmail.com'. To the right of this table is a larger table with columns for Title, First Name, Last Name, and Email Address, listing several other users including Detective Briton, Director John Painter, Mr. Christian Shaffer, Mr. Mark Coupland, Territory Heidi Traverso, Mr. David Shepherd, and President Ted Graef.

Title	First Name	Last Name	Email Address
Detective	Briton	Westerhaus	bwesterhaus
Director	John	Painter	jpainter@alltrafficsolutions.co
Mr.	Christian	Shaffer	cshaffer@alltrafficsolutions.co
Mr.	Mark	Coupland	mcoupland@alltrafficsolutions.co
Territory	Heidi	Traverso	htraverso@alltrafficsolutions.co
Mr.	David	Shepherd	dshepherd@alltrafficsolutions.co
President	Ted	Graef	tgraef@alltrafficsolutions.com