fleetvu

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USER GUIDE

VIDEO TELEMATICS PLATFORM

INTRODUCTION

The platform will allow the Telematics Service Provider to remotely manage and integrate all the assigned devices with the related driving data and footages. The main approach is to connect 3rd party systems together that involves translating data between different formats, and often aggregating separate sets of data together to satisfy the data exchange. The platform will securely enable the assigned vehicles to exchange data and live streaming with remote servers via a cellular bearer. These remote servers will store all the data that's accumulated from the active devices and process remote service requests, which provide the users with summary about their vehicle's status and all the driving data. The Platform delivers this expanding web of connectivity by creating Middleware which connects proprietary, and open interfaces together.

1. Introduction
   - *1.1 Navbar buttons & icons*
   - *1.2 Login to Portal*
2. Portal Features
   - *2.1 Dashboard*
   - *2.2 Events*
   - *2.3 Media Manager*
3. Maps
4. Reports
   - *4.1 Event History*
   - *4.2 Detailed Events*
   - *4.3 Summary*
   - *4.4 Detailed*
   - *4.5 Location History*
   - *4.6 Inactivity Report*
   - *4.7 Overdue Maintenance*
   - *4.8 Geo Fence*
   - *4.9 Graphs*
   - *4.10 Time Card*
   - *4.11 Trip Report*
   - *4.12 Score card*
   - *4.13 Driver Report*
   - *4.14 User Activity*
   - *4.15 No Driver Assigned*
   - *4.16 Stops*
   - *4.17 State Mileage*
   - *4.18 Posted Speed*
   - *4.19 OBD History*
5. Settings
   - *5.1 Devices*
   - *5.2 Fleets*
   - *5.3 GEO Fencing*
   - *5.4 Drivers*
   - *5.5 Alerts*
   - *5.6 Scheduled Reports*
6. Admin Privileges
   - *6.1 Users*
   - *6.2 Fleet Users*
   - *6.3 Support Tickets*
   - *6.4 Global settings*
7. User settings

1.1 Navbar buttons & icons

Dashboard icons

Devices icons

	PARKED
	IDLE
	MOVING
	OUT OF AREA

Status icons

	SPEEDING
	BREAKE
	SHOCK
	ACCELERATE
	TURN
	PANIC

Events icons

	ACTIVE TODAY
	CHECK CONNECTION
	CHECK SETTINGS
	CHECK MEDIA
	IDLE
	EMERGENCY

DASHBOARD PREVIEW

Routes & Media icons

MARKERS

Brake	Stop up to 5 minutes
Panic	Stop up to 15 minutes
Accelerate	Stationery over 15 minutes
Turn	No GPS signal
Shock	
Speeding	
AlarmIn	
IgnitionOn	
IgnitionOff	
Current route	

EDIT DEVICE

SD card	
Hard drive	
Reboot	
Clear	

MEDIA

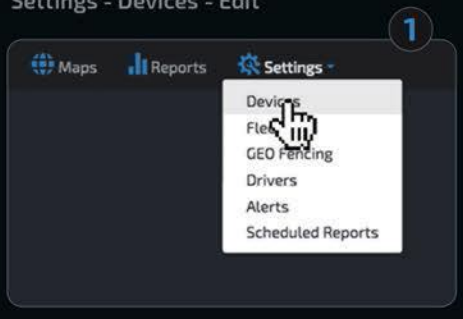
Video	Route
Picture	Review
Severe shock	
Street view	
Video events	
Heading	
Address	
Speed	
Alarm in	

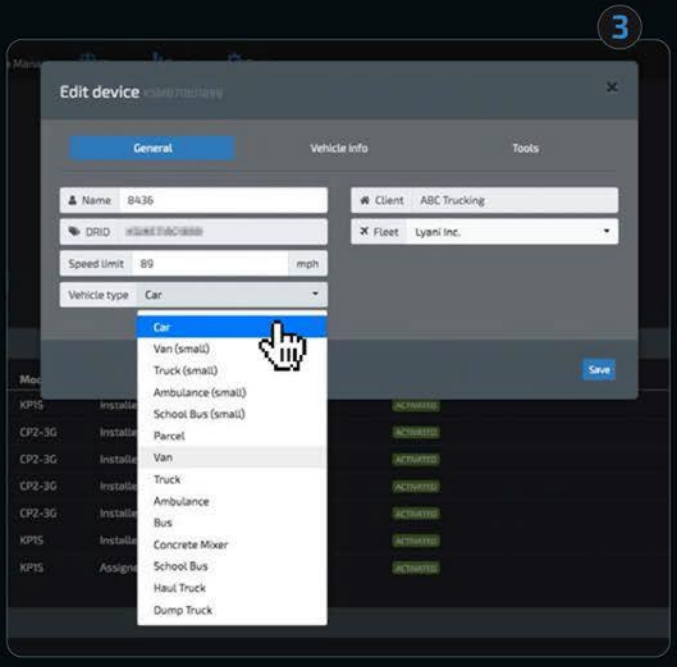
MAPS TOOLS

Animate	
Events	
Arrows	
Lines	
Time stamps	
Reset View	

Select vehicle icon

Settings - Devices - Edit

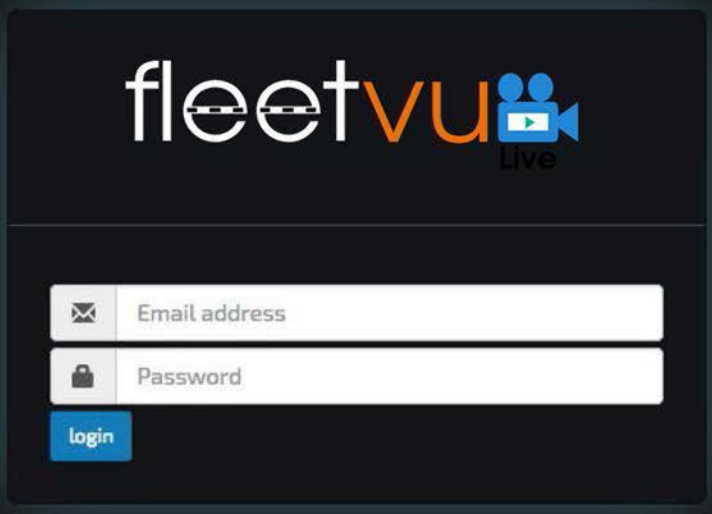




1.2 Login to Portal

To launch the TSP portal:

- Use the provided credintails to access the portal.



2. Portal Features
2.1 Dashboard

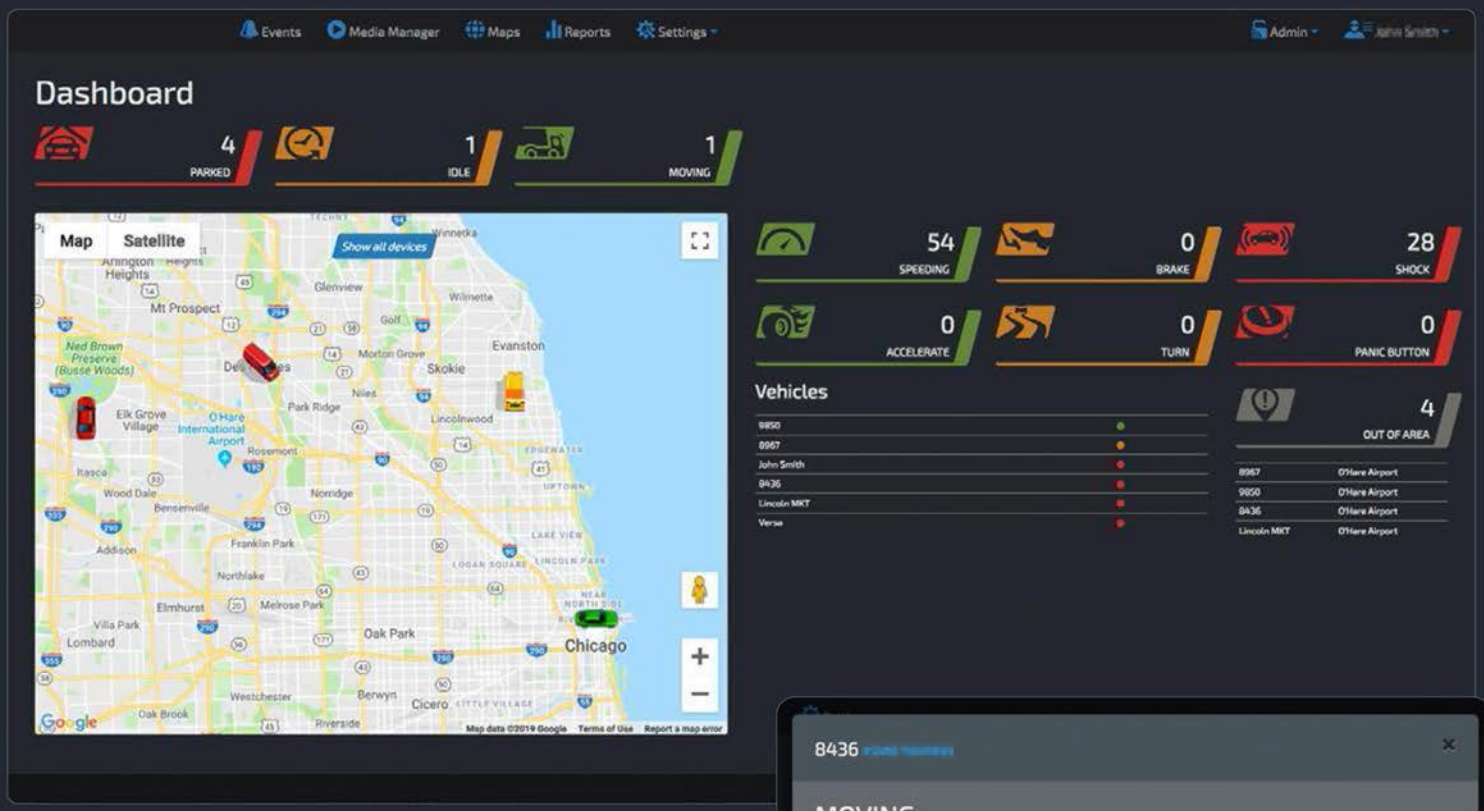
Main portal dashboard will list at the glance statistical graphics that will help in identifying the occurred events up to the current date. The user can navigate through the dashboard as follows:

Vehicles table will list all the registered vehicles identifying their current status as follows:

- **Red:** vehicle is currently **PARKED**.
- **Amber:** vehicle is currently **IDLE**.
- **Green:** vehicle is currently **MOVING**.

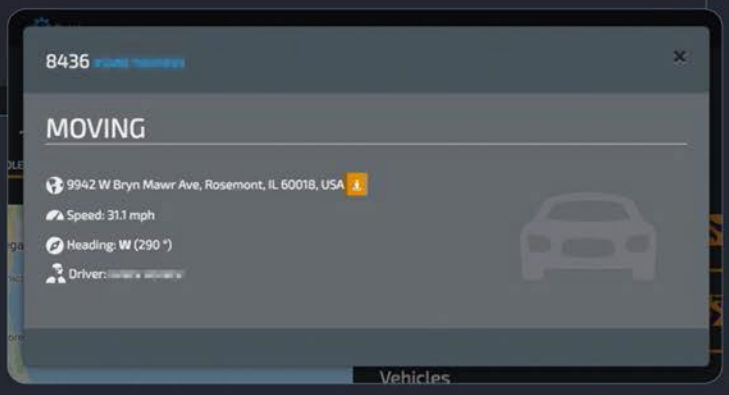
The dashboard will illustrate all the triggered events using graphical statistics. The only executable tabs will be (Out of area, Excessive speeding, Brake, Shock, Acceleration, Turn and Panic).

- Upon clicking on any of those buttons, a summary list will pop out including the device name, position, speed and date-time stamp.
- The summary can be exported in Excel or PDF format.
- Excessive speed can be set per device and adjusted from **Settings menu -> Devices -> Edit**.
- Out of area icon will list all the vehicles that were triggered out the predefined GEO fence.



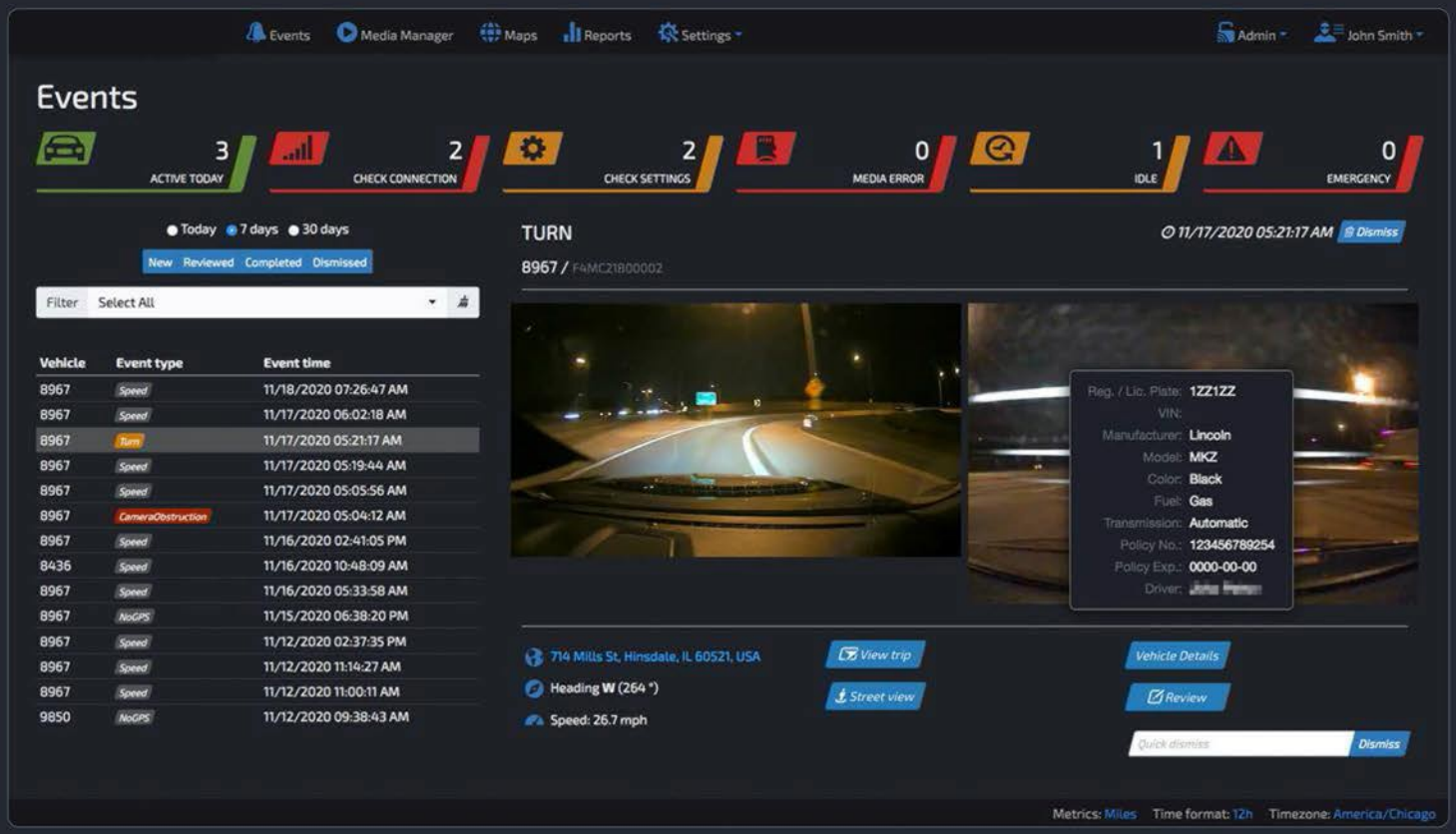
Click on the desired vehicle to allocate it on the map.

- The vehicle will be color coded according to its current status.
- By clicking on the vehicle, a summary window will pop out, includes vehicle name, device DRID, current status, location and multiple executable buttons.



2.2 EVENTS

Events menu will generate a summary list of all the triggered events. The listed events can be filtered as of the current date, 7-days and 30 days.



Events menu will include executable graphical icons that generate summary reports of the following:

- **Active Today:** lists the currently active devices.
- **Check Connection:** indicates devices that stopped sending data to the platform without proper "Ignition Off" for more than 1 hour.
- **Check Settings:** lists the devices that requires settings checkup.
- **Check Media:** shows devices that reported SD card errors and initiated a format.
- **Idle:** lists that devices that are active but not moving for certain period of time.
- **Emergency:** lists devices that triggered both Panic and Severe Shock events.
- **Completed:** Added option to track "Completed" events.

A Color code shows the following events:

Red: lists Shock, Severe Shock and Panic events.
Amber: lists Brake, Acceleration and Turn events.
Gray: list Speed events.

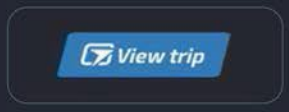
The user can review any of the listed events by selecting one. A 20 seconds low resolution footage will be presented, that includes the device name and DRID, vehicle's information, registered speed, time stamp and event's location.

Incase of an accedient occurrence the user can have a street view of the event by clicking on **Street View** button.

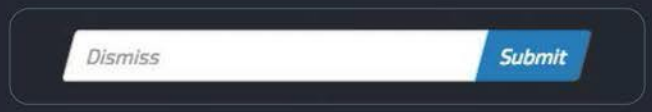
The user can retrieve MP4 footage of the event by clicking on Video button. This button will be colored green to indicate that the video was requested previously, and will playback within the same window. Otherwise, a message stating Request has been submitted will show up.

Event route will be listed under View Route tab for the selected vehicle.

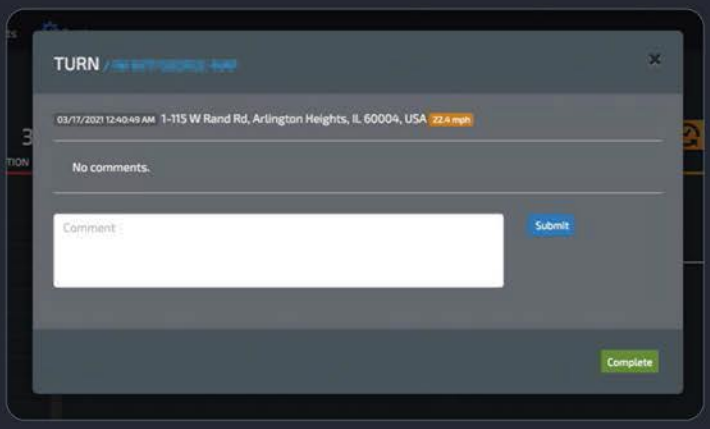
- Click on View Trip button.
- A new window will pop out listing all the routes corresponding to the triggered event.

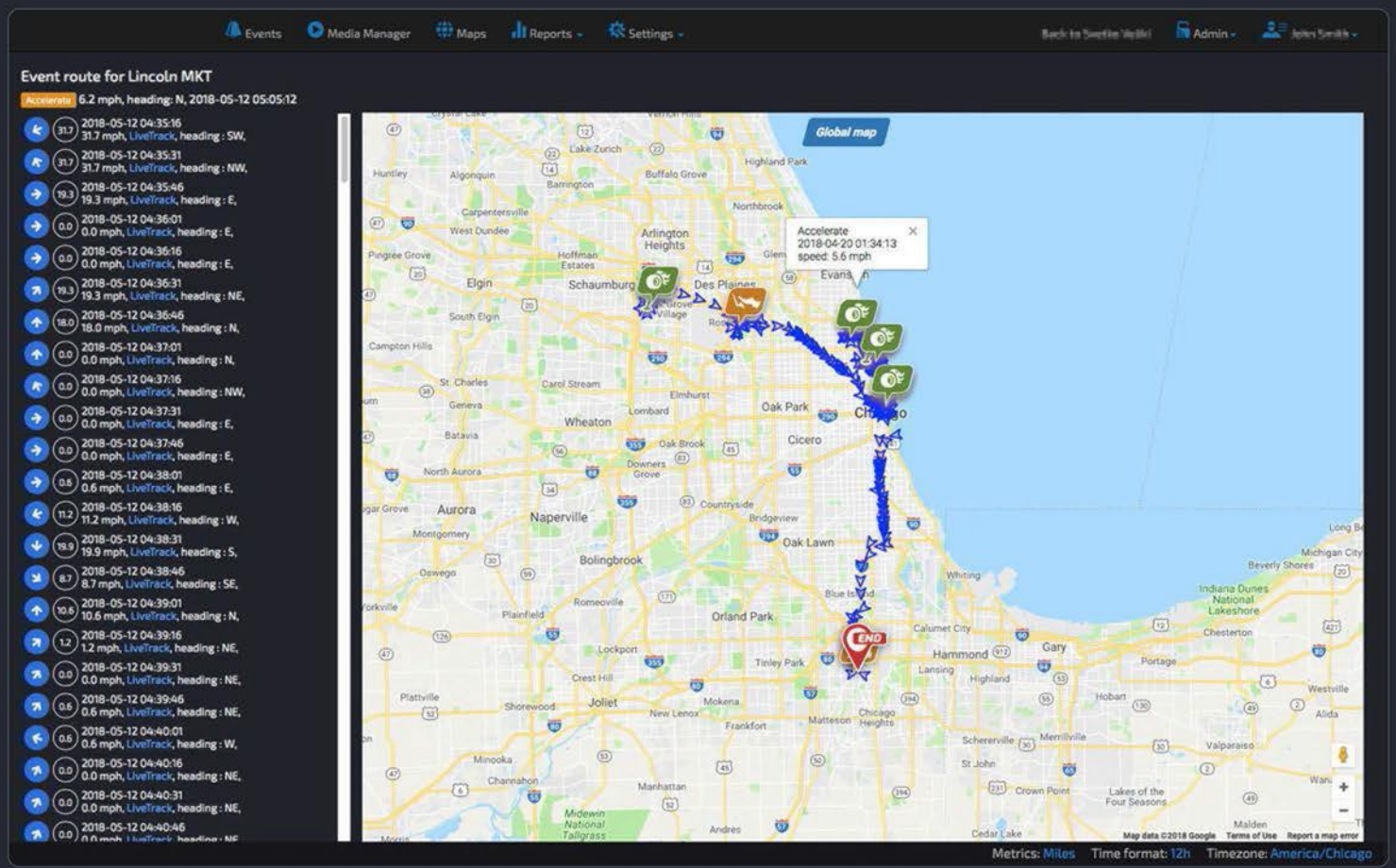


The user can dismiss the unnecessary events by typing dismiss reason and clicking on Submit button. However, the events will be listed in a sperate tab called Dismissed.



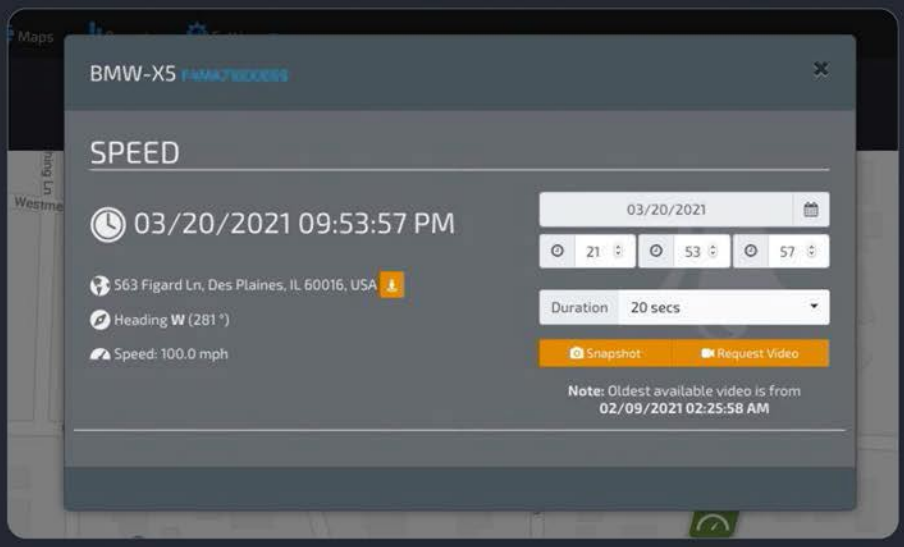
The user can review and arrange the triggered events by clicking on Review button. This button will provide the user with the ability to write comments one each event in order to manage them.





These routes are being registered as a live track every 15 seconds increments, including the event itself, which is being colored differently so the user can allocate the exact event.

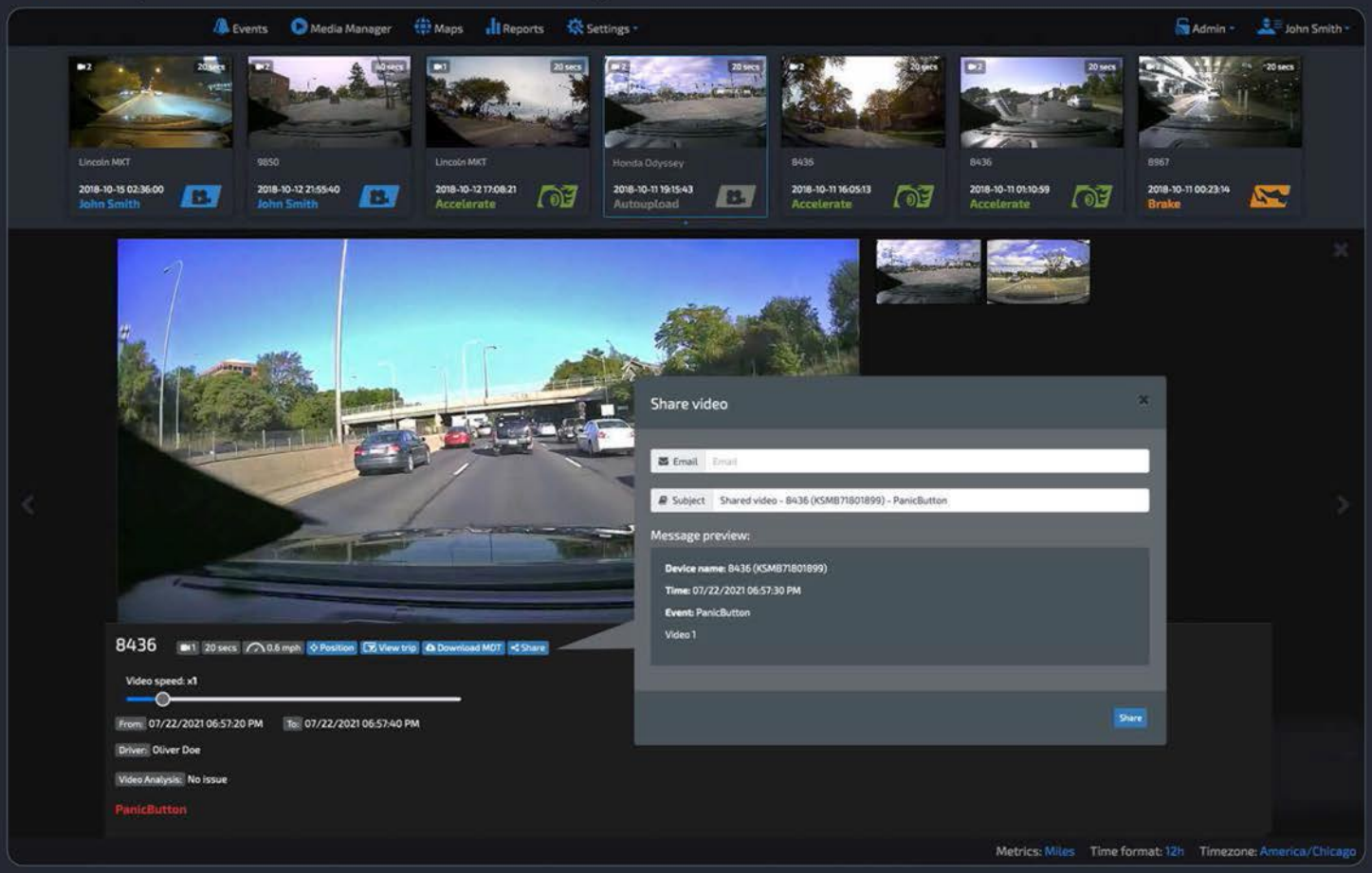
The user can click on any of the routes to request a snapshot or video as follows:



2.3 MEDIA MANAGER

Media Manager will include all the manual and auto-uploaded footage requests. The user can setup a search filter for certain device/entire fleet, and specify the time range.

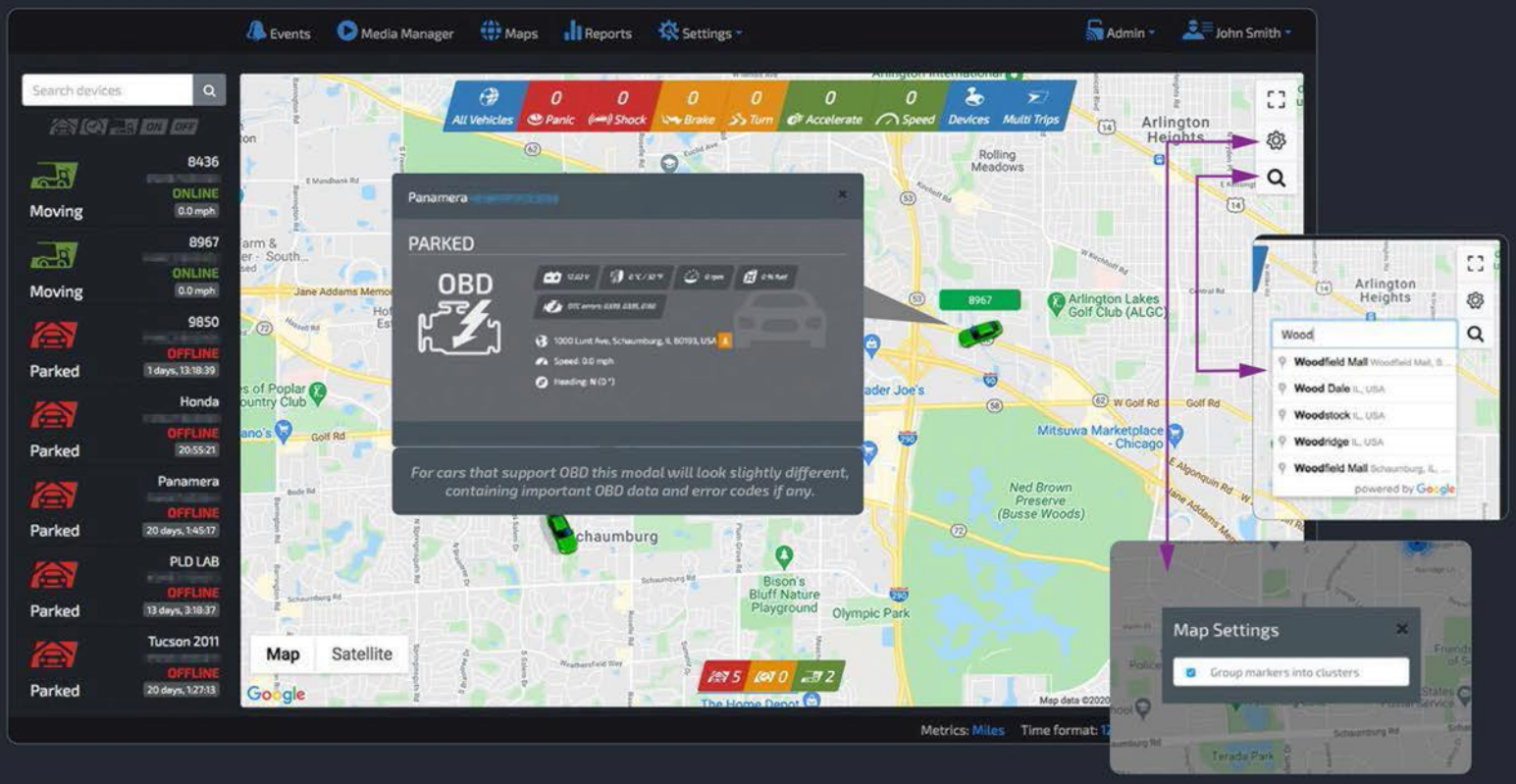
- A 20 seconds footage for each triggered event with date & time stamp including the requester name.
- Videos will be labeled according to the recorded camera.
- User can download the footage as of MP4/ MDT file extension.
- Speed slider allows the user to play the video at different speeds.
- Added option to share link to a video to external email(s).



3. MAPS

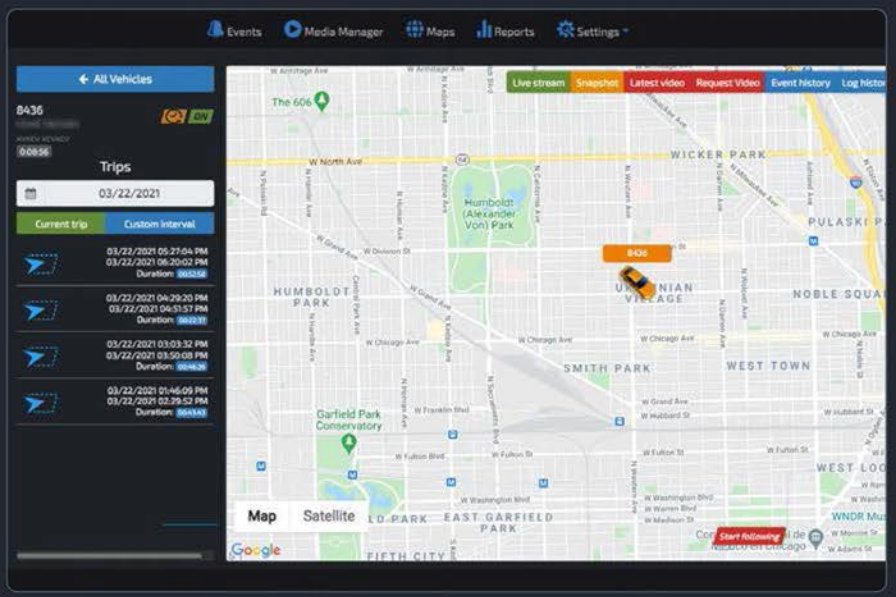
Maps feature allows the user to allocate and view all the assigned vehicles.

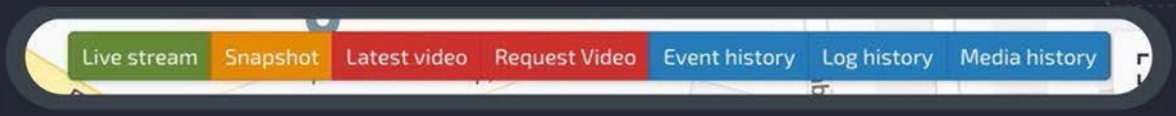
- Graphical executable tabs indicating each event can be used as a searching mechanism (Search by: Panic, Shock, Acceleration, Brake, Speed, Turn or Idle).
- The map will cluster the nearly located vehicles, or indicate them via colored arrow according to its current status (Idle, Parked, Moving or Lost Connection).
- User can search by vehicle or device s/n using Search device bar.
- There is a search by address option in the upper right corner. When the address is found the map will zoom right at it. If the user is searching for more than one address all will be indicated with markers.



When user selects vehicle from the list the map will auto pan and zoom to the selected vehicle when it changes its position.

- All completed trips for the day are displayed.
- Option to view current (in progress) trips.
- Date picker allows displaying historical trips.
- Custom interval option to capture specific time window.
- Camera controls (request buttons) available on the top of the map- no additional pop-up windows.





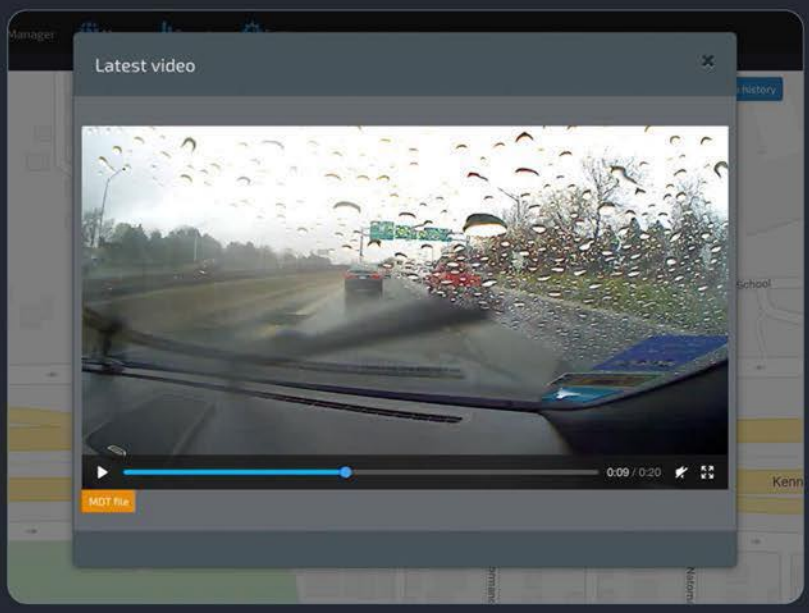
Executable functional buttons:

- Live Stream: a live stream from the vehicle's current location.

- Snapshot: a live image from the vehicle's current location.

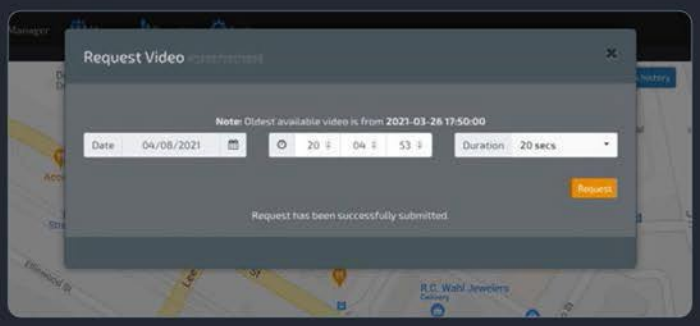
- Latest Video: a 20 seconds footage of the vehicle's current location.

Note:
- The device should be online in order to respond to Snapshot & Latest Video.
- The user can download MP4 file footage by clicking on Download button.
- For data analysis, and driver behavior report, click on MDT File button. This file extension will require the Software Analysis tool provided from SmartWitness (http://support.smartwitness.com).

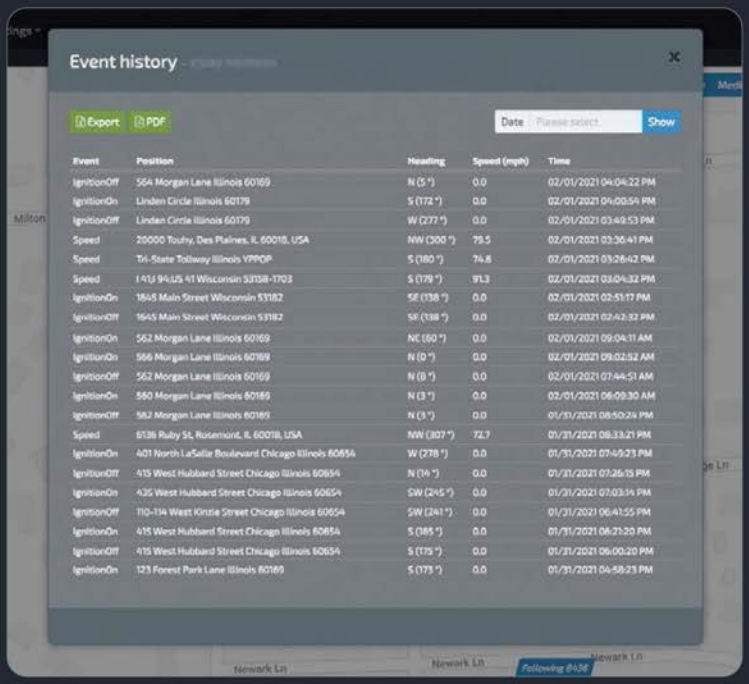


- Request Video: adjust the desired date & time in order to initiate a 20 seconds footage request.

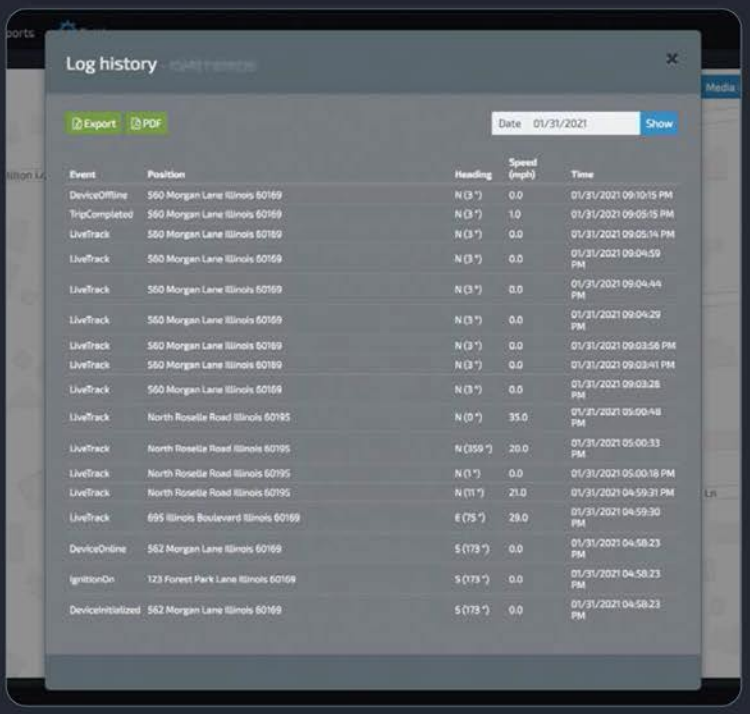
- All the requested videos will be listed under Media Manager menu, labeled as Requester Name.
- If the device is offline, all the user requests will be queued and processed once the device is online.



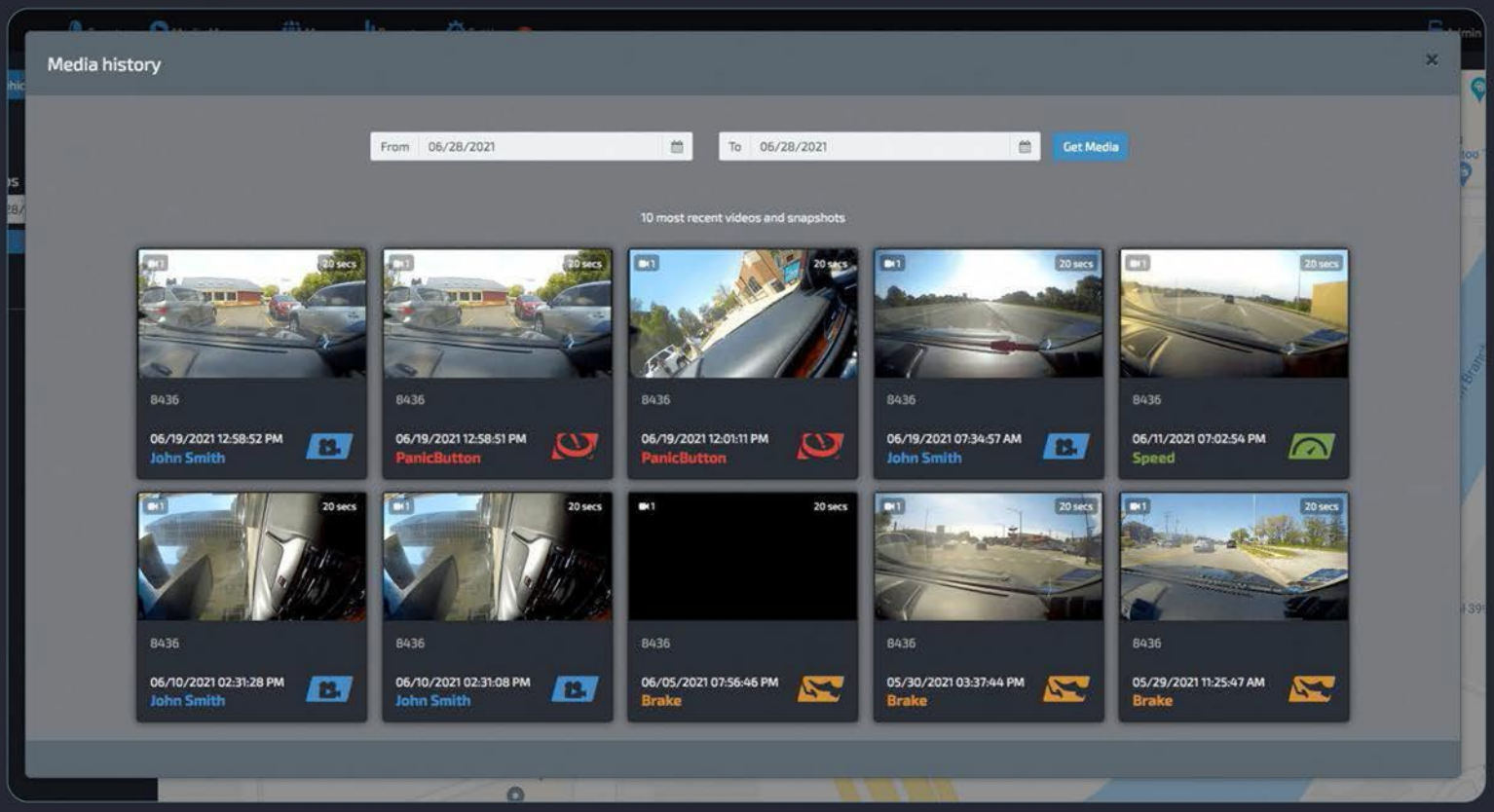
• **Event History:** a list of all the triggered events upon the current date. Date picker allows displaying historical events. The user is capable to export the event's summary in Excel or PDF.



• **Log History:** a list of all the camera events upon the current date. Date picker allows displaying historical events. The user is capable to export the event's summary in Excel or PDF format.

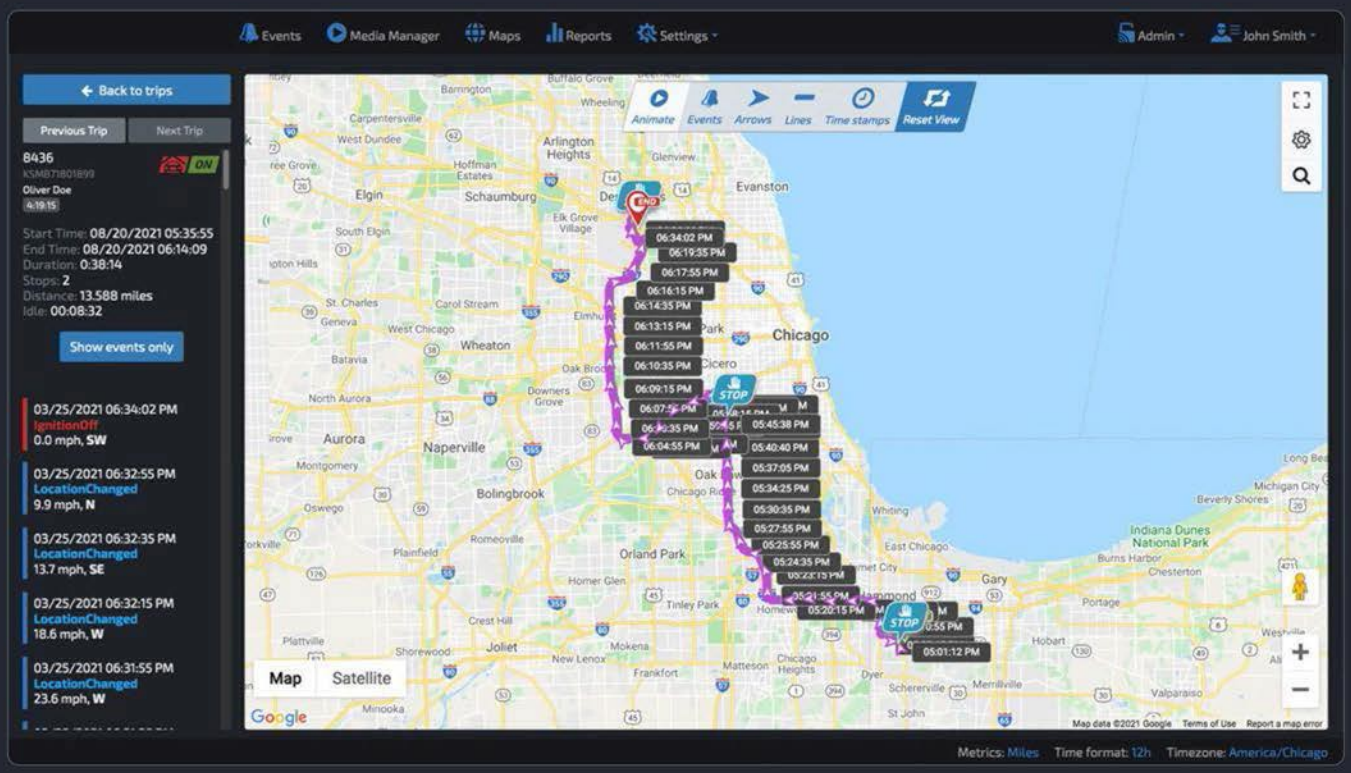


• **Media History:** a list of 10 most recent videos and snapshots for the selected device. There is an option to select custom period of time.



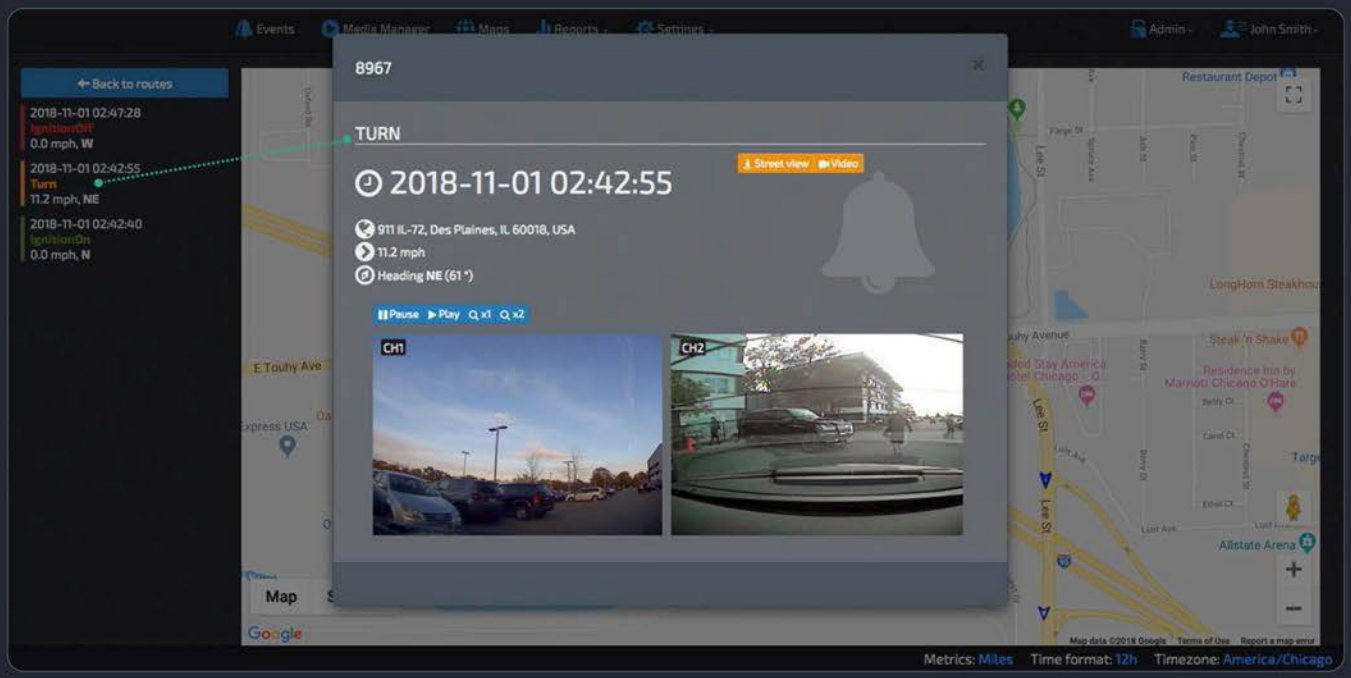
When user clicks on choosen route it will be drawn on the map and important events will be displayed in the side menu.

- Depending on the user preferences they may see the events, the arrows pointing the path or both. By clicking on **Animate**, an animated representation of the route shows up.
- User can click **Back to routes** to return to previous menu and select another route or click on Global map to reset the map and show all devices.



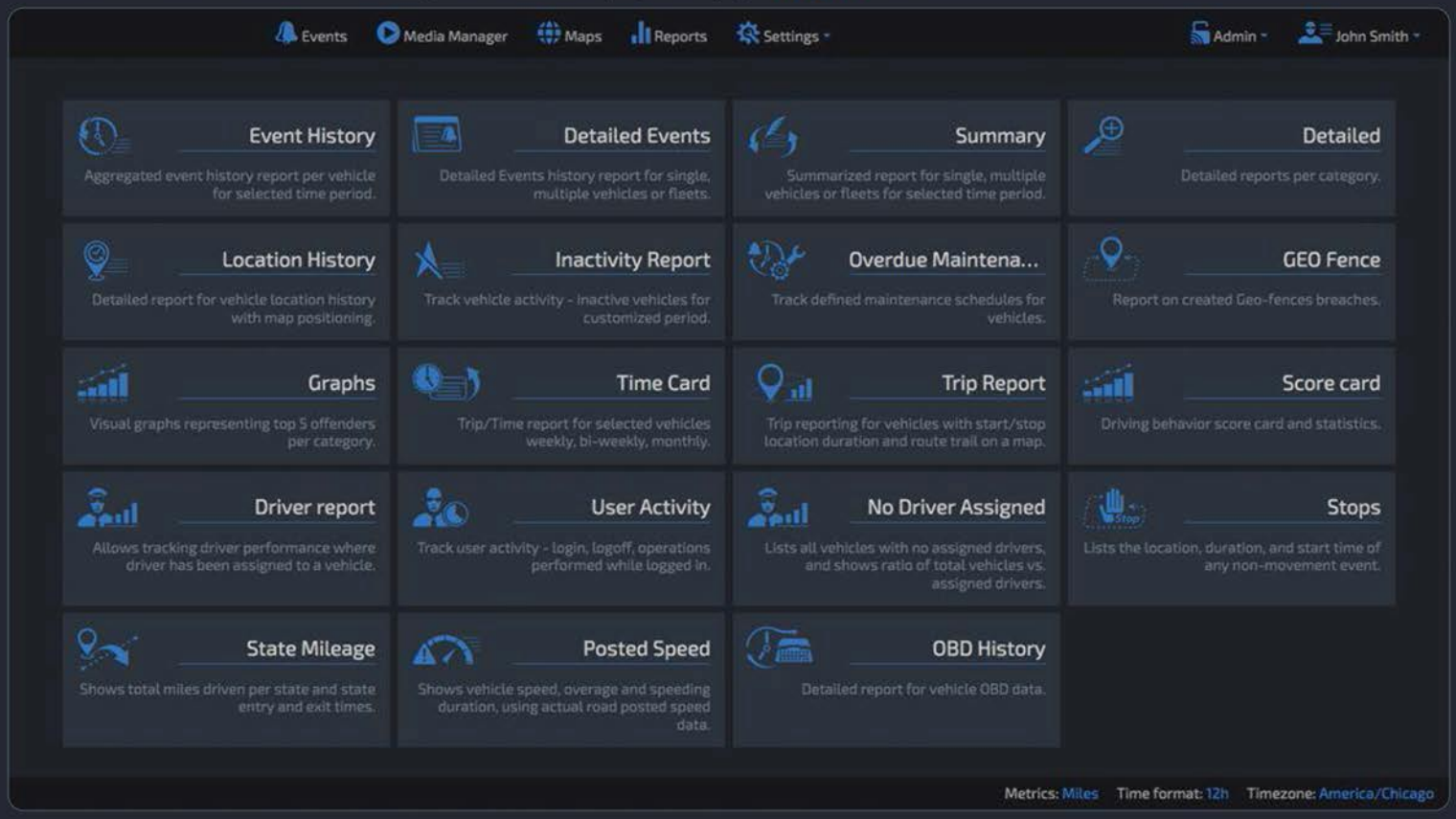
Upon selecting the desired certain event tab, all the recorded footages will be listed on the left side of the screen.

- User can request the event footage by clicking on Video button.



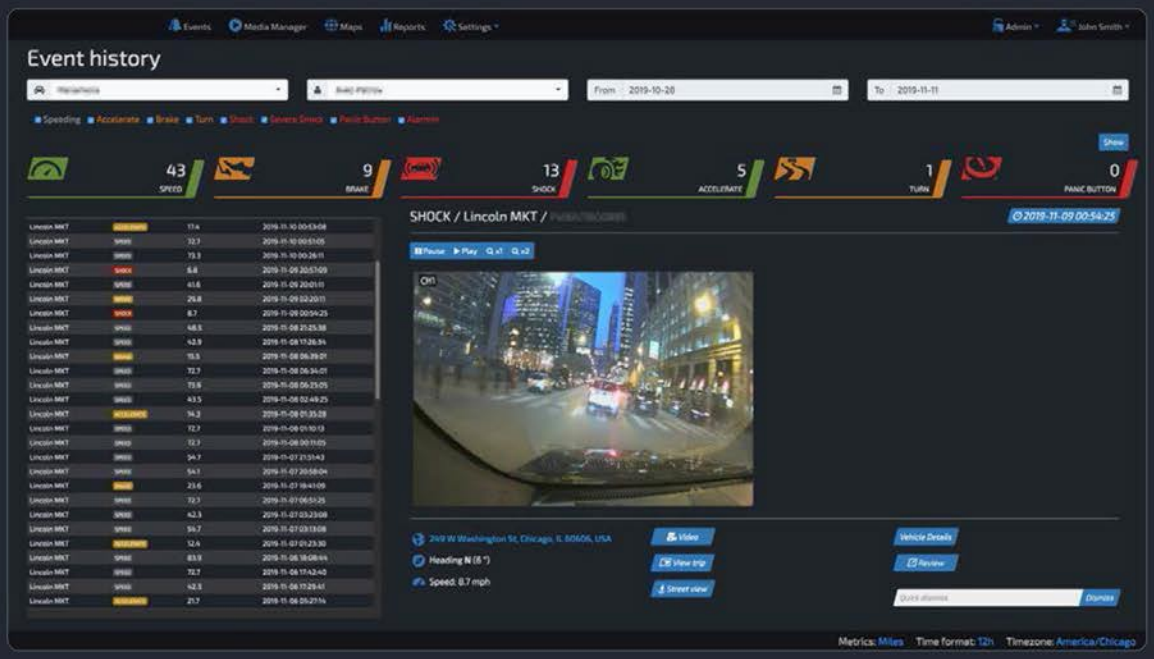
4. REPORTS

This feature allows the user to generate summary reports by open **Reports** menu.



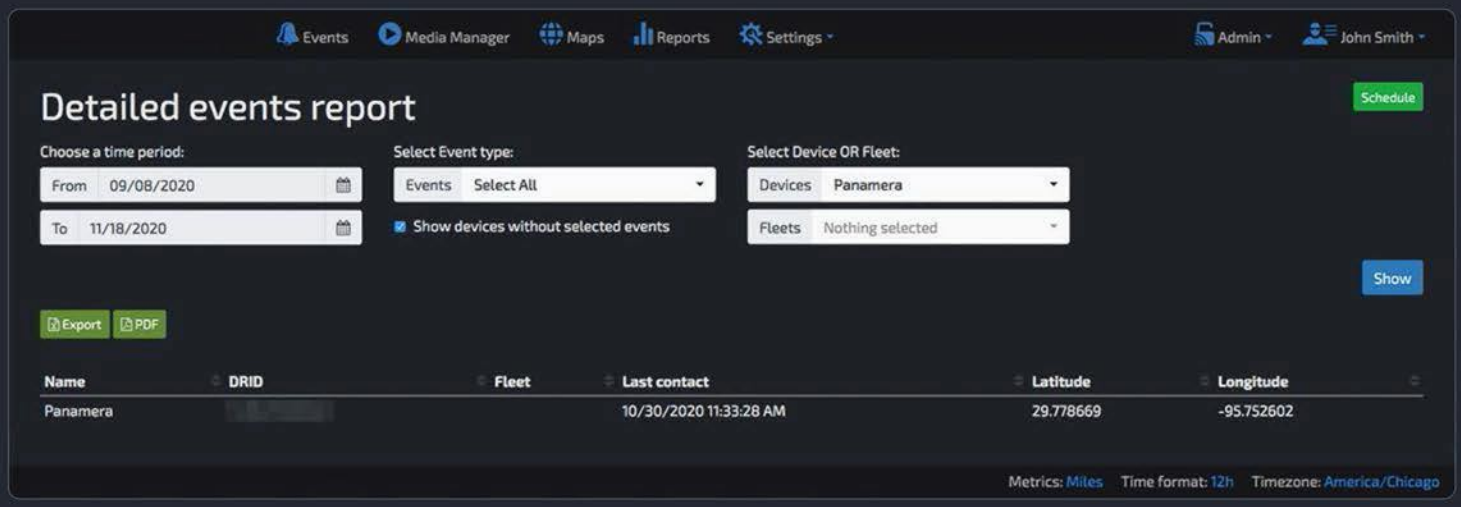
4.1 Event History

- Open **Reports** menu.
- Select Event History feature.
- User must select a vehicle, driver name (if registered) and time range.
- At the glance graphical statistics will present all the triggered events within the predefined period.



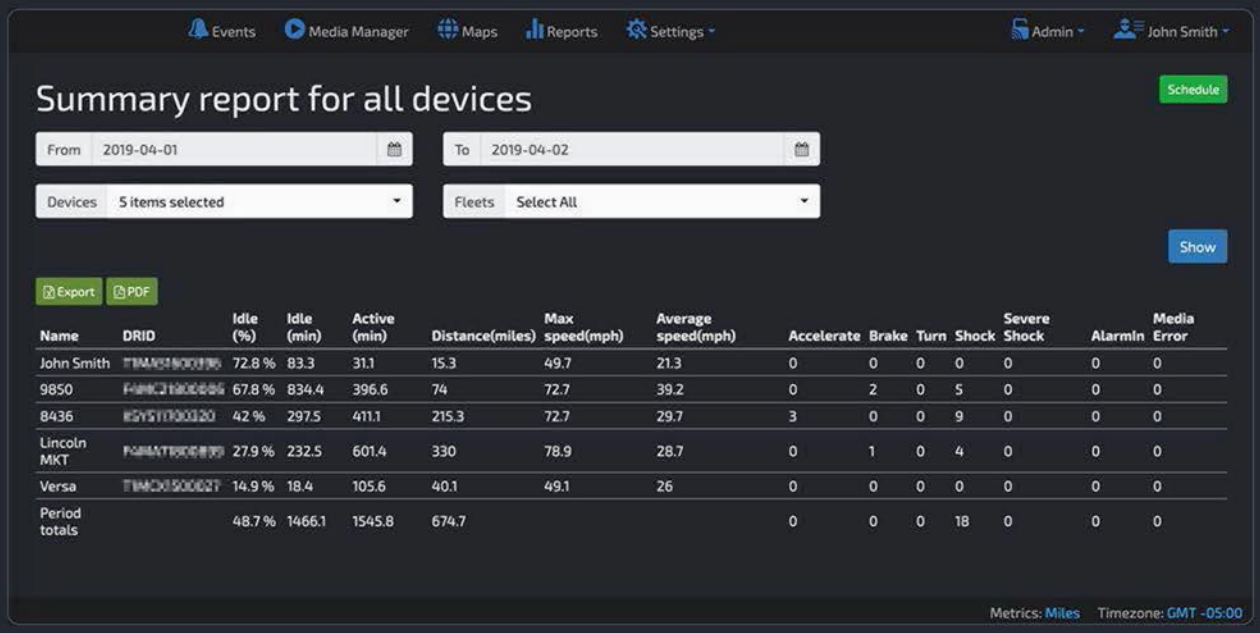
4.2 Detailed Events

- Open Reports menu.
- Select Detailed feature.
- Specify the period range.
- Select certain device to view and the status type (Idle/Active time, Distance, Speed, Events, Log history).
- Export the spreadsheet either in Excel/PDF format.



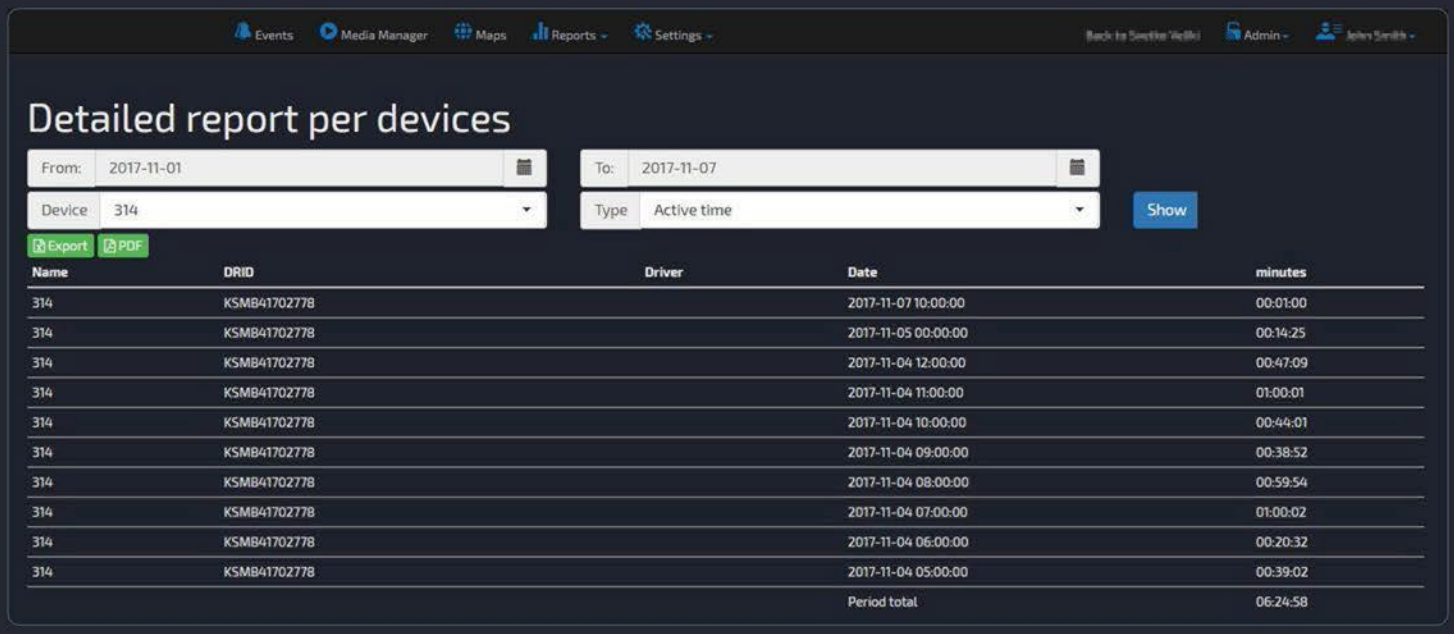
4.3 Summary

- Open Reports menu.
- Select Summary feature.
- Specify the desired period range.
- Filter by device/s, fleets, or all devices.
- Export the spreadsheet either in Excel/PDF format.



4.4 Detailed

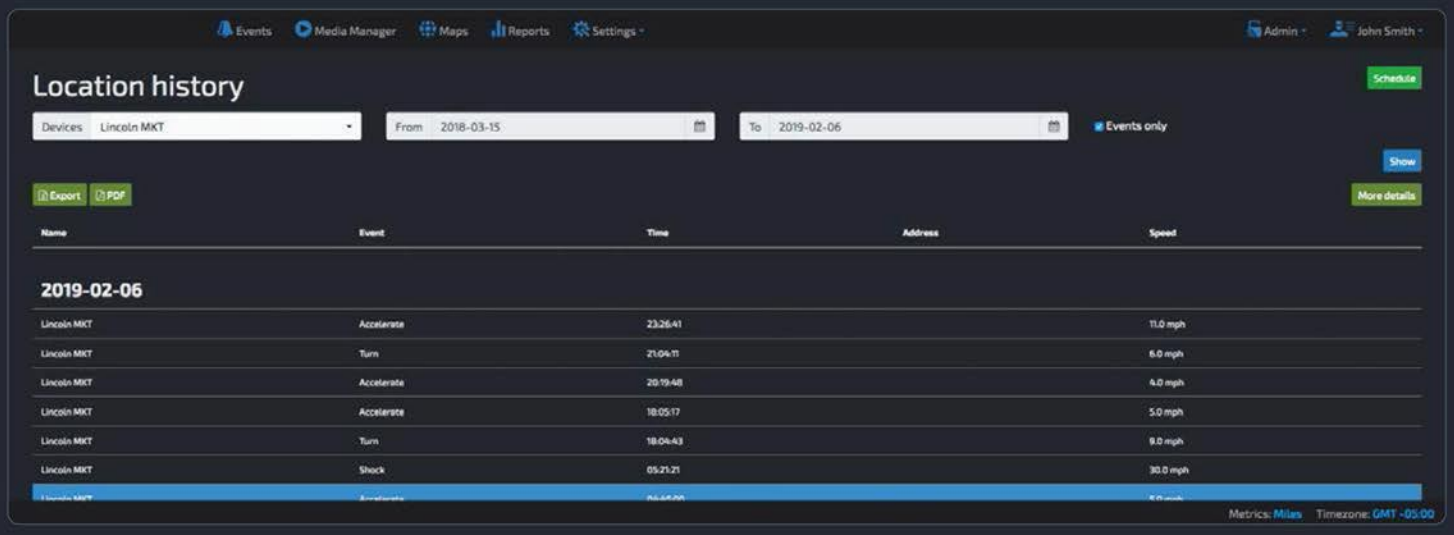
- Open Reports menu.
- Select Detailed feature.
- Specify the period range.
- Select certain device to view and the status type (Idle/Active time, Distance, Speed, Events, Log history).
- Export the spreadsheet either in Excel/PDF format.



Name	DRID	Driver	Date	minutes
314	KSMB41702778		2017-11-07 10:00:00	00:01:00
314	KSMB41702778		2017-11-05 00:00:00	00:14:25
314	KSMB41702778		2017-11-04 12:00:00	00:47:09
314	KSMB41702778		2017-11-04 11:00:00	01:00:01
314	KSMB41702778		2017-11-04 10:00:00	00:44:01
314	KSMB41702778		2017-11-04 09:00:00	00:38:52
314	KSMB41702778		2017-11-04 08:00:00	00:59:54
314	KSMB41702778		2017-11-04 07:00:00	01:00:02
314	KSMB41702778		2017-11-04 06:00:00	00:20:32
314	KSMB41702778		2017-11-04 05:00:00	00:39:02
			Period total	06:24:58

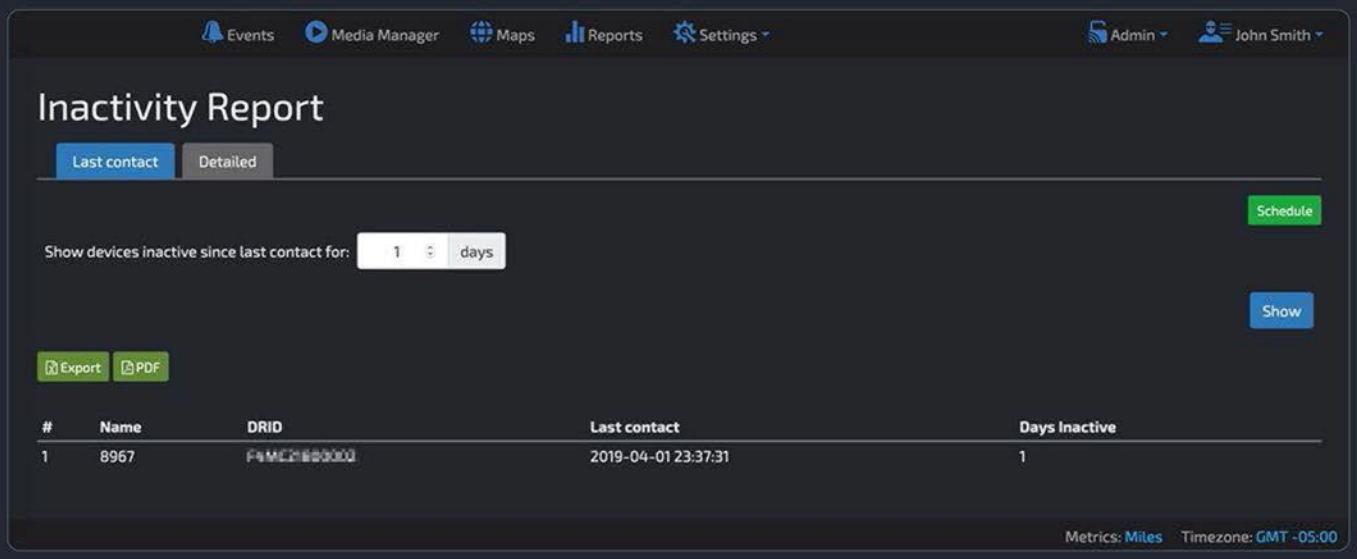
4.5 Location History

- Open Reports menu.
- Select Location History feature.
- Choose certain vehicle to view.
- Specify the time period.
- User can generate a report based on triggered events (Panic, Shock, Turn, Brake, Acceleration and Speed) by clicking on Events Only tab otherwise, all the camera events will be listed (Live track, Device online/offline, Ignition on/off, etc.).
- Export the spreadsheet either in Excel/PDF format.



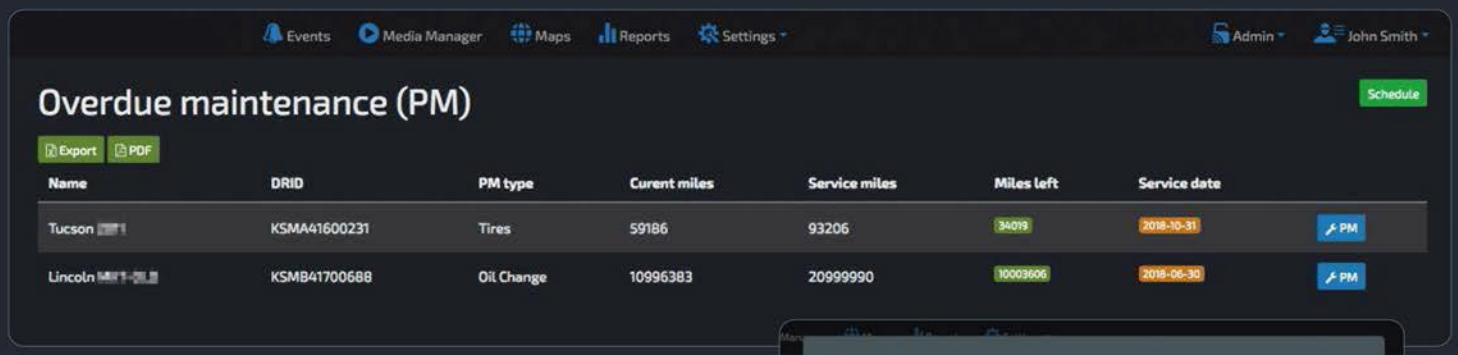
4.6 Inactivity Report

- Open Reports menu.
- Select Inactivity Report feature.
- Shows vehicle's activity for specific period and days - active/inactive days.
- Export the spreadsheet either in Excel/PDF format.

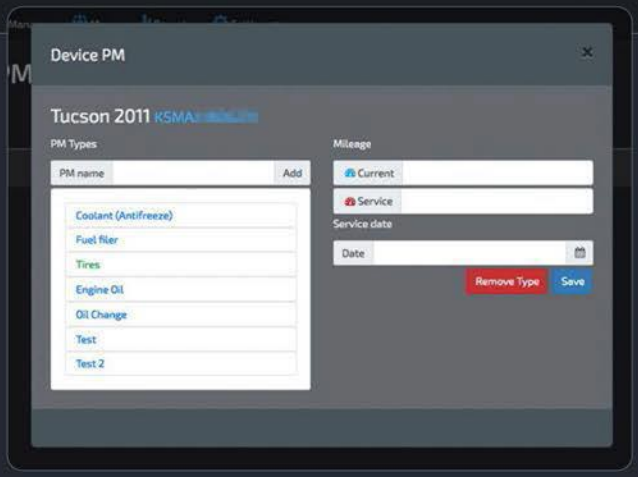


4.7 Overdue Maintenance

- Open Reports menu.
- Select Overdue Maintenance feature.
- A summary report will be listing all the vehicles that require certain maintenance care.
- Export the spreadsheet either in Excel/PDF format.

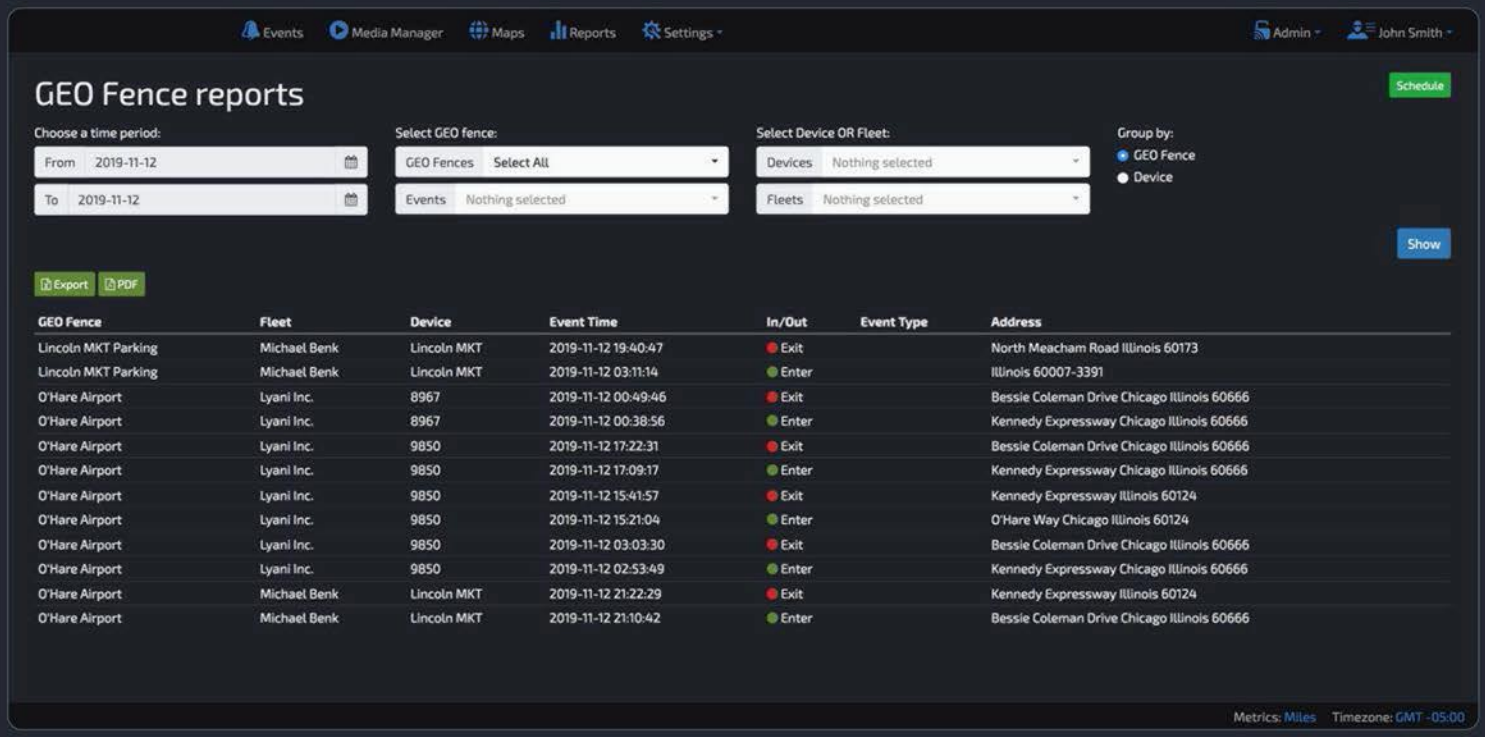


User can modify the required maintenance by clicking on PM button .



4.7 Geo Fence

- Open Reports menu.
- Select GEO Fence feature.
- Shows fence breach for selected device(s) for a given period.
- Time of device enter or exit GEO fence area.
- Export the spreadsheet either in Excel/PDF format.

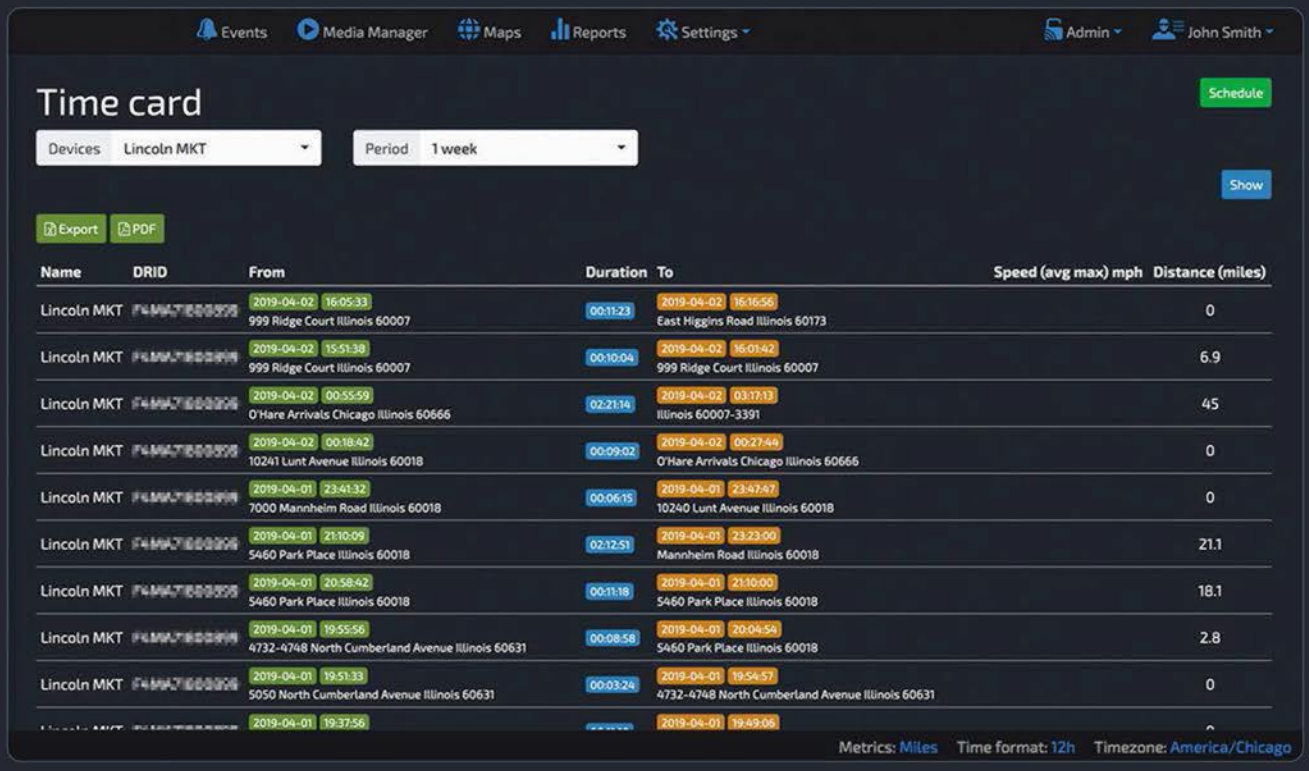


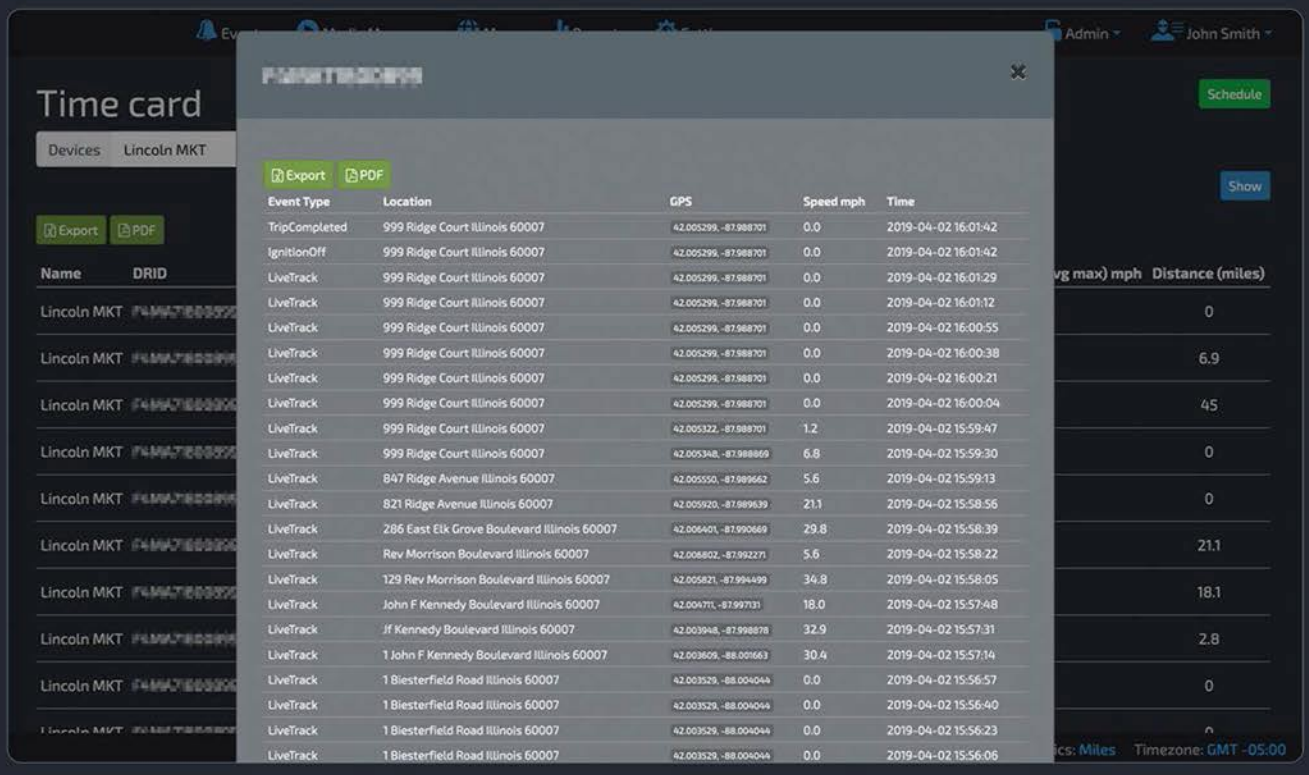
4.8 Graphs

- Open Reports menu.
- Select Graphs feature.
- A graphical presentation of different events will be presented for the top 5 devices, which can be filtered up to 30 days.

4.10 Time Card

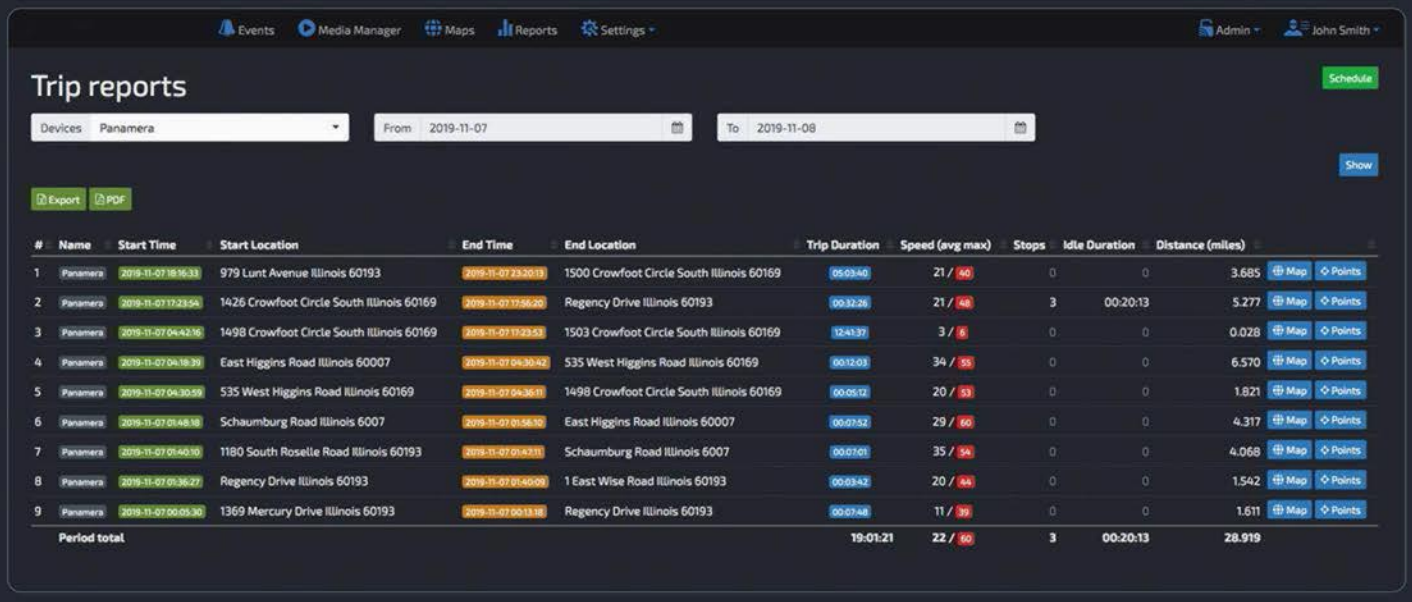
- Open Reports menu.
- Select Time Card feature.
- Weekly report for 1, 2, 4 or 6 weeks. List of all trips for given period with start address, stop address, duration and details.





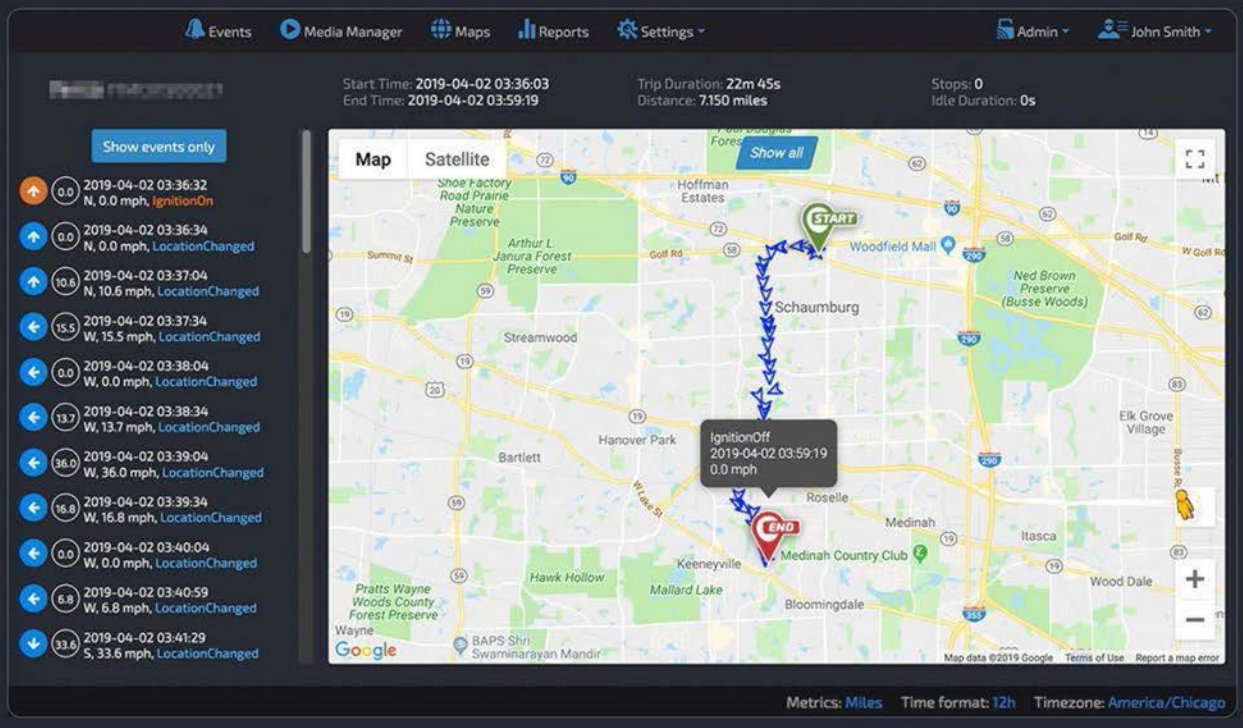
4.11 Trip Report

- Open Reports menu.
- Select Trip Report feature.
- Enhanced "Trip" report with start/end time and location of the trip, duration, average/max speed, stops and idle duration. Access to detailed trip points as well as option to replay the trip on the map.



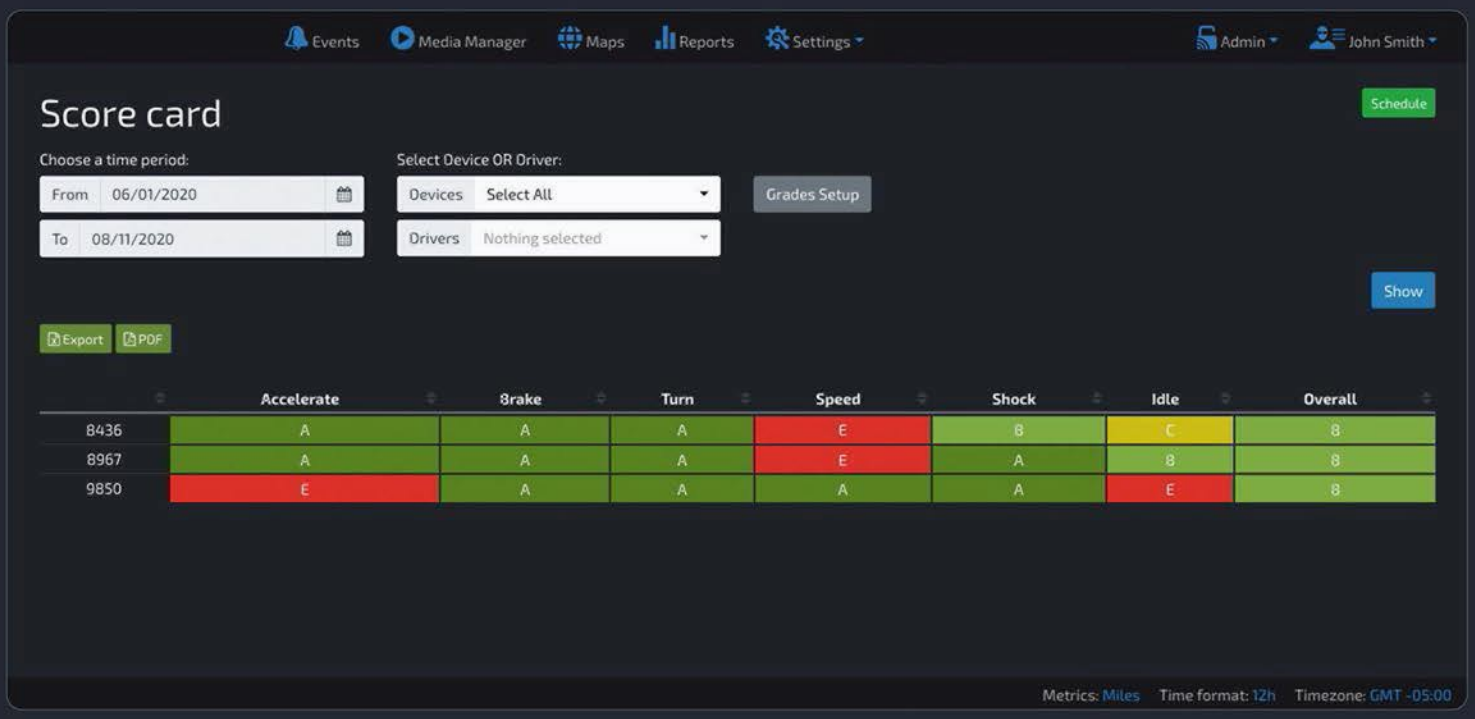
#	Name	Start Time	Start Location	End Time	End Location	Trip Duration	Speed (avg max)	Stops	Idle Duration	Distance (miles)	
1	Panamera	2019-11-07 18:16:33	979 Lunt Avenue Illinois 60193	2019-11-07 23:20:13	1500 Crowfoot Circle South Illinois 60169	05:03:40	21 / 40	0	0	3.685	Map Points
2	Panamera	2019-11-07 17:23:54	1426 Crowfoot Circle South Illinois 60169	2019-11-07 17:56:20	Regency Drive Illinois 60193	00:32:26	21 / 48	3	00:20:13	5.277	Map Points
3	Panamera	2019-11-07 04:42:16	1498 Crowfoot Circle South Illinois 60169	2019-11-07 17:23:53	1503 Crowfoot Circle South Illinois 60169	12:41:37	3 / 6	0	0	0.028	Map Points
4	Panamera	2019-11-07 04:18:39	East Higgins Road Illinois 60007	2019-11-07 04:30:42	535 West Higgins Road Illinois 60169	00:12:03	34 / 55	0	0	6.570	Map Points
5	Panamera	2019-11-07 04:30:59	535 West Higgins Road Illinois 60169	2019-11-07 04:36:11	1498 Crowfoot Circle South Illinois 60169	00:05:12	20 / 53	0	0	1.821	Map Points
6	Panamera	2019-11-07 01:48:18	Schaumburg Road Illinois 6007	2019-11-07 01:56:10	East Higgins Road Illinois 60007	00:07:52	29 / 60	0	0	4.317	Map Points
7	Panamera	2019-11-07 01:40:10	1180 South Roselle Road Illinois 60193	2019-11-07 01:47:11	Schaumburg Road Illinois 6007	00:07:01	35 / 54	0	0	4.068	Map Points
8	Panamera	2019-11-07 01:36:27	Regency Drive Illinois 60193	2019-11-07 01:40:09	1 East Wise Road Illinois 60193	00:03:42	20 / 44	0	0	1.542	Map Points
9	Panamera	2019-11-07 00:05:30	1369 Mercury Drive Illinois 60193	2019-11-07 00:13:18	Regency Drive Illinois 60193	00:07:48	11 / 39	0	0	1.611	Map Points
	Period total					19:01:21	22 / 60	3	00:20:13	28.919	

- Preview of selected trip - locations and events.
- Shows speed, heading, time and event type per event.



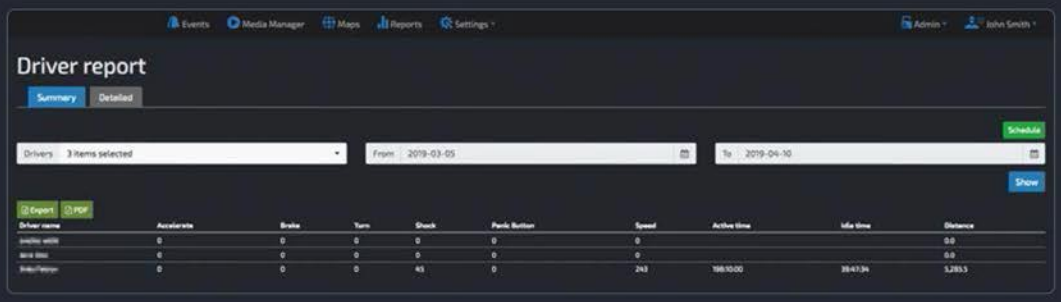
4.12 Score card

- Open Settings menu.
- Select Score card feature.
- Score card report shows grade per event as well as overall grade for each device/driver.
- Grade values can be set by manager from Grades Setup option.

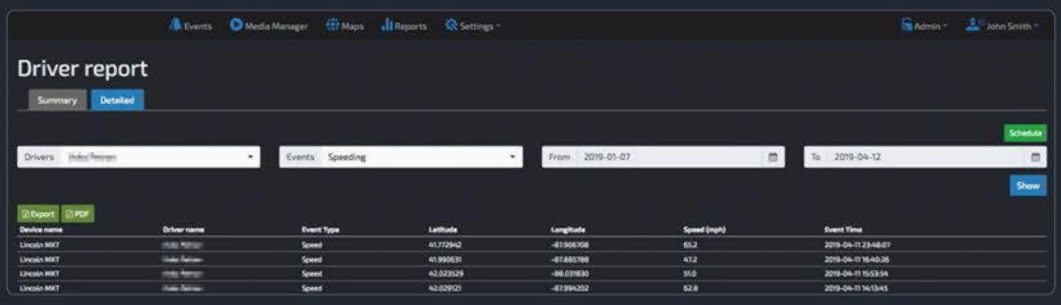


4.13 Driver Report

- Open Reports menu.
- Select Driver Report feature.
- User can view either Summary or Detailed report.
- For a Summary report: specify the deriver/s name, and time period.

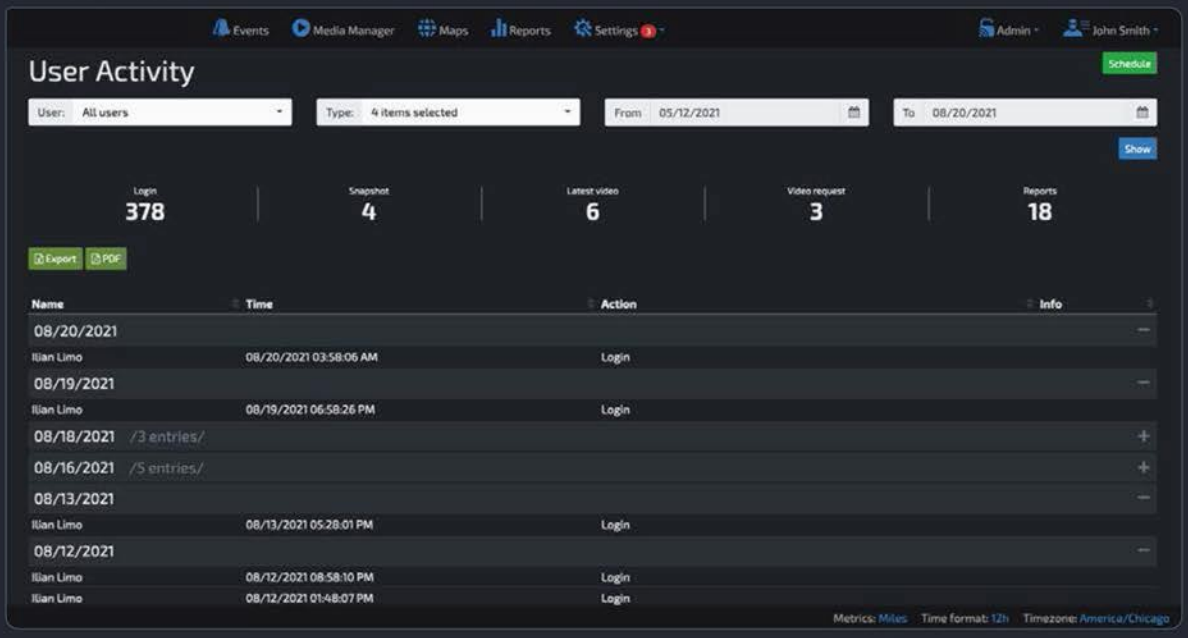


- For a Detailed report: specify the driver name, event/telematics status, time period.
- Export the spreadsheet either in Excel/PDF format.



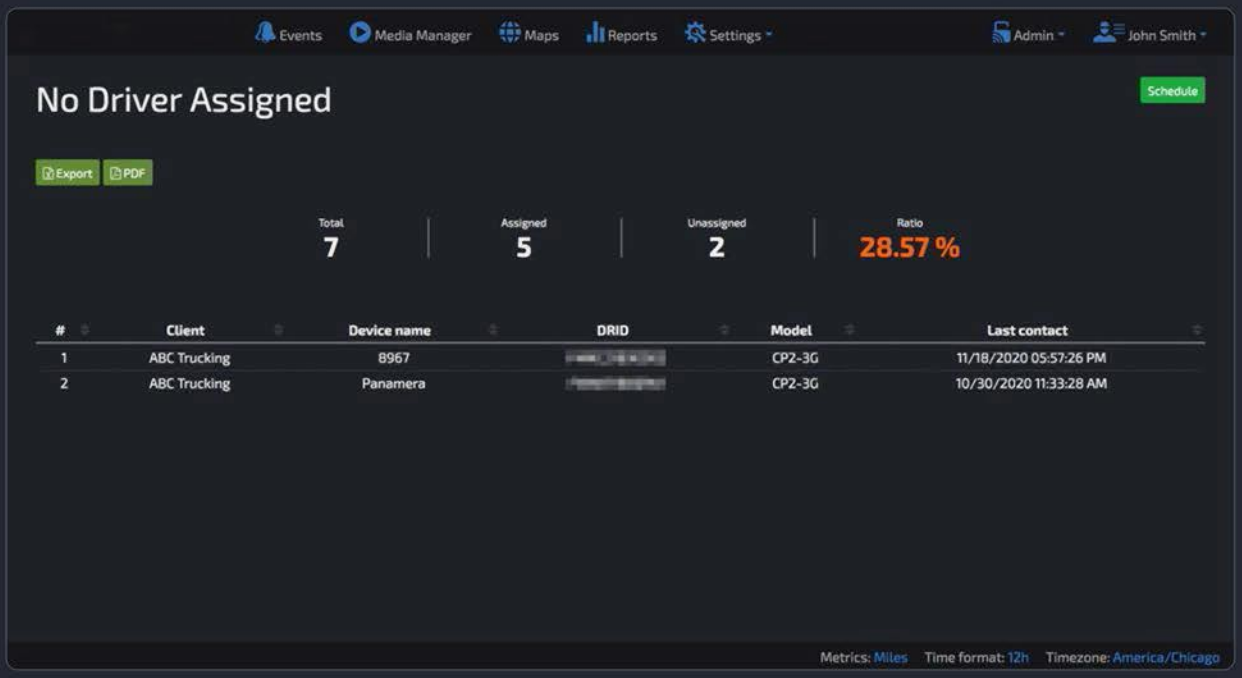
4.14 User Activity

- Open Reports menu.
- Select User Activity feature.
- Shows user activity for specific time range separated by days.



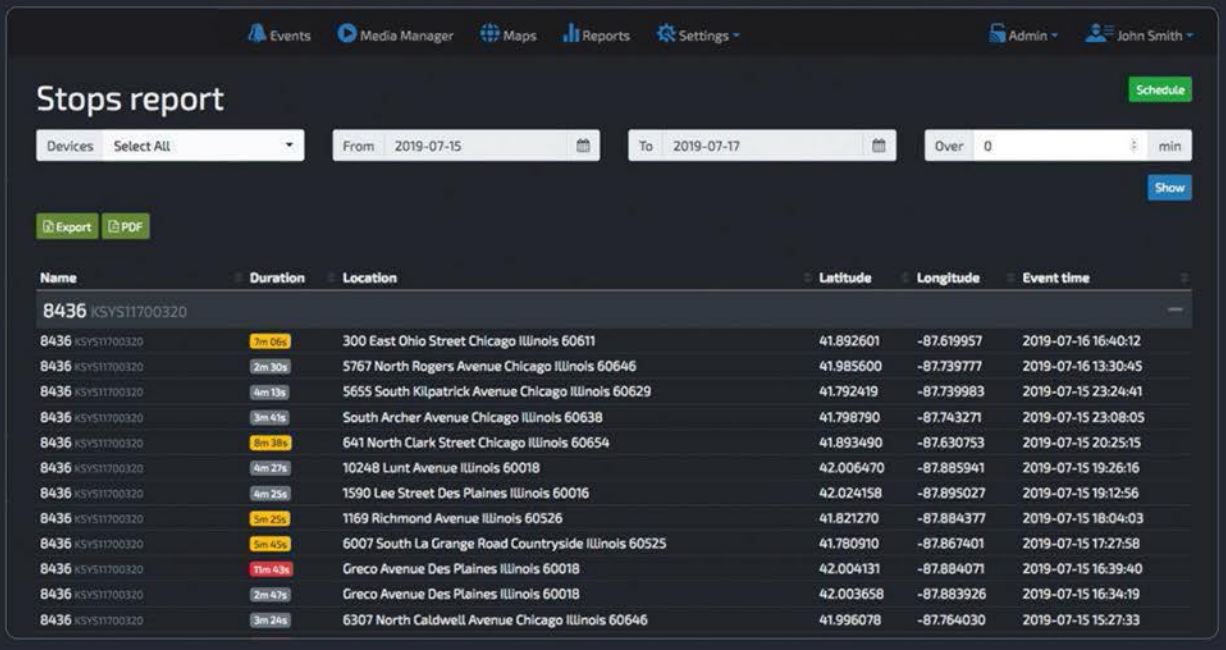
4.15 No Driver Assigned

- Open Reports menu.
- Select No Driver Assigned feature.
- Reports on devices with no driver assigned.



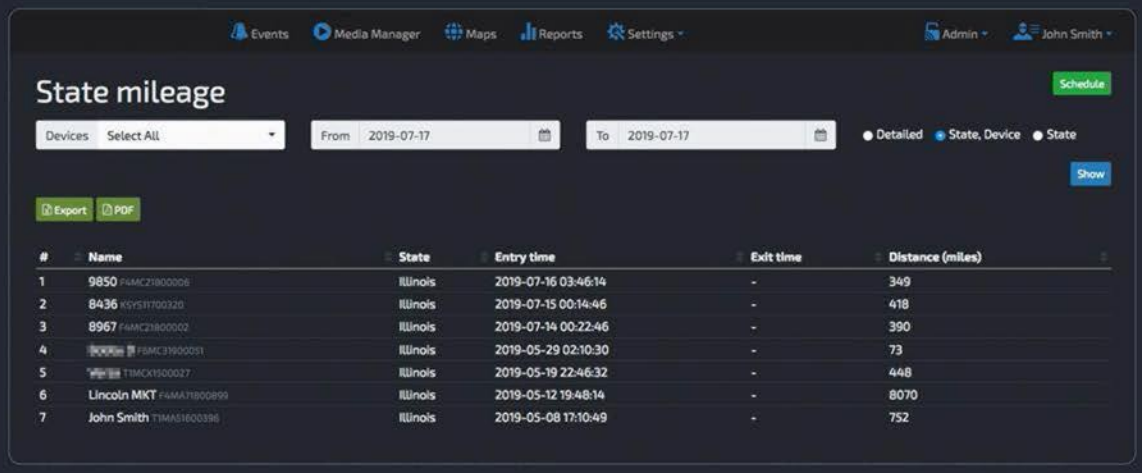
4.16 Stops

- Open Reports menu.
- Select Stops feature.
- Added "Stops" report- Allows to report on number, duration and location for stops/idle time.
- Advanced filtering on Stops per defined duration.



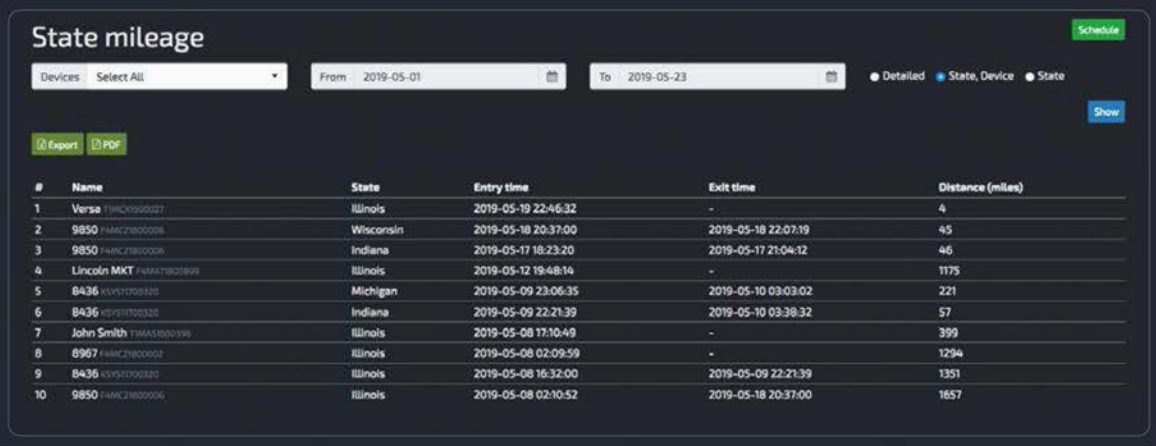
4.17 State Mileage

- Open Reports menu.
- Select State Mileage feature.
- Added "State mileage" report- Shows distance driven per state, shows state enter and exit time.

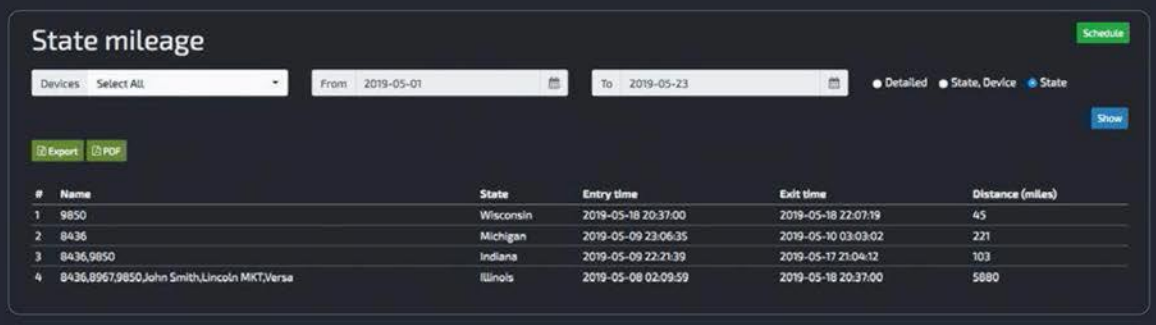


#	Name	State	Entry time	Exit time	Distance (miles)
1	9850	Illinois	2019-07-16 03:46:14	-	349
2	8436	Illinois	2019-07-15 00:14:46	-	418
3	8967	Illinois	2019-07-14 00:22:46	-	390
4	[redacted]	Illinois	2019-05-29 02:10:30	-	73
5	[redacted]	Illinois	2019-05-19 22:46:32	-	448
6	Lincoln MKT	Illinois	2019-05-12 19:48:14	-	8070
7	John Smith	Illinois	2019-05-08 17:10:49	-	752

- Advanced option to filter per state or device



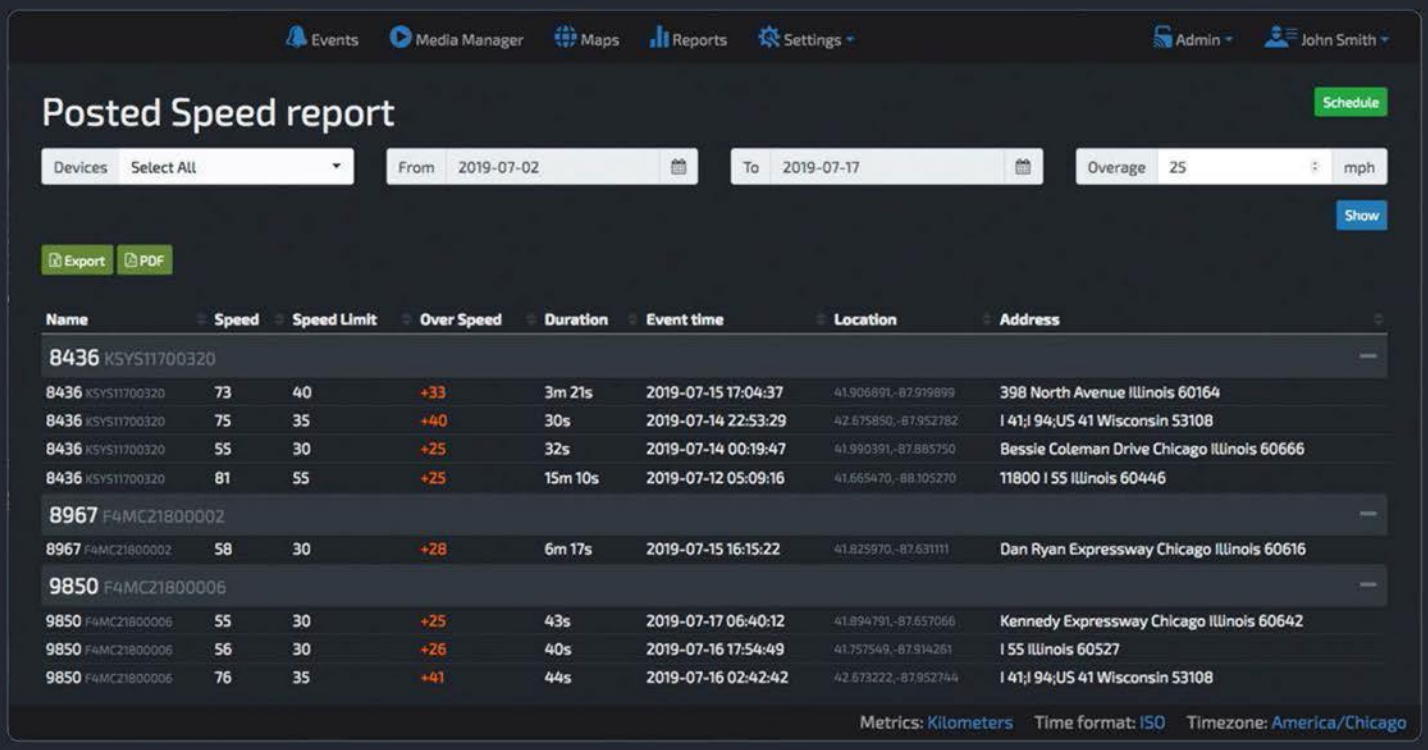
#	Name	State	Entry time	Exit time	Distance (miles)
1	Versa	Illinois	2019-05-19 22:46:32	-	4
2	9850	Wisconsin	2019-05-18 20:37:00	2019-05-18 22:07:19	45
3	9850	Indiana	2019-05-17 18:23:20	2019-05-17 21:04:12	46
4	Lincoln MKT	Illinois	2019-05-12 19:48:14	-	1175
5	8436	Michigan	2019-05-09 23:06:35	2019-05-10 03:03:02	221
6	8436	Indiana	2019-05-09 22:21:39	2019-05-10 03:38:32	57
7	John Smith	Illinois	2019-05-08 17:10:49	-	399
8	8967	Illinois	2019-05-08 02:09:59	-	1294
9	8436	Illinois	2019-05-08 16:32:00	2019-05-09 22:21:39	1351
10	9850	Illinois	2019-05-08 02:10:52	2019-05-18 20:37:00	1657



#	Name	State	Entry time	Exit time	Distance (miles)
1	9850	Wisconsin	2019-05-18 20:37:00	2019-05-18 22:07:19	45
2	8436	Michigan	2019-05-09 23:06:35	2019-05-10 03:03:02	221
3	8436,9850	Indiana	2019-05-09 22:21:39	2019-05-17 21:04:12	103
4	8436,8967,9850,John Smith,Lincoln MKT,Versa	Illinois	2019-05-08 02:09:59	2019-05-18 20:37:00	5880

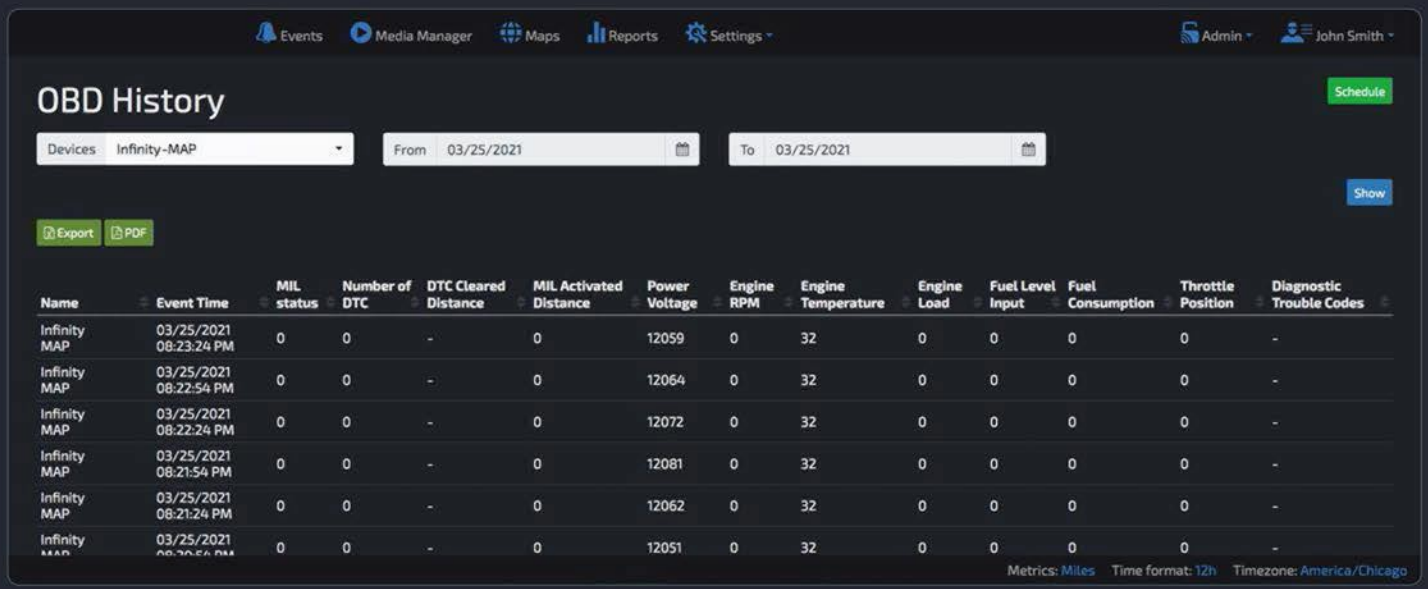
4.18 Posted Speed

- Open Reports menu.
- Select Postet Speed feature.
- Reports on speed limit event by vehicle/s and time period.
- Option to filter events by "overage" speed by selecting min over speed.
- Option to view speed limit offence location – click on any event to get map location



4.19 OBD History

- Report for OBD data for supported devices (Queclink).

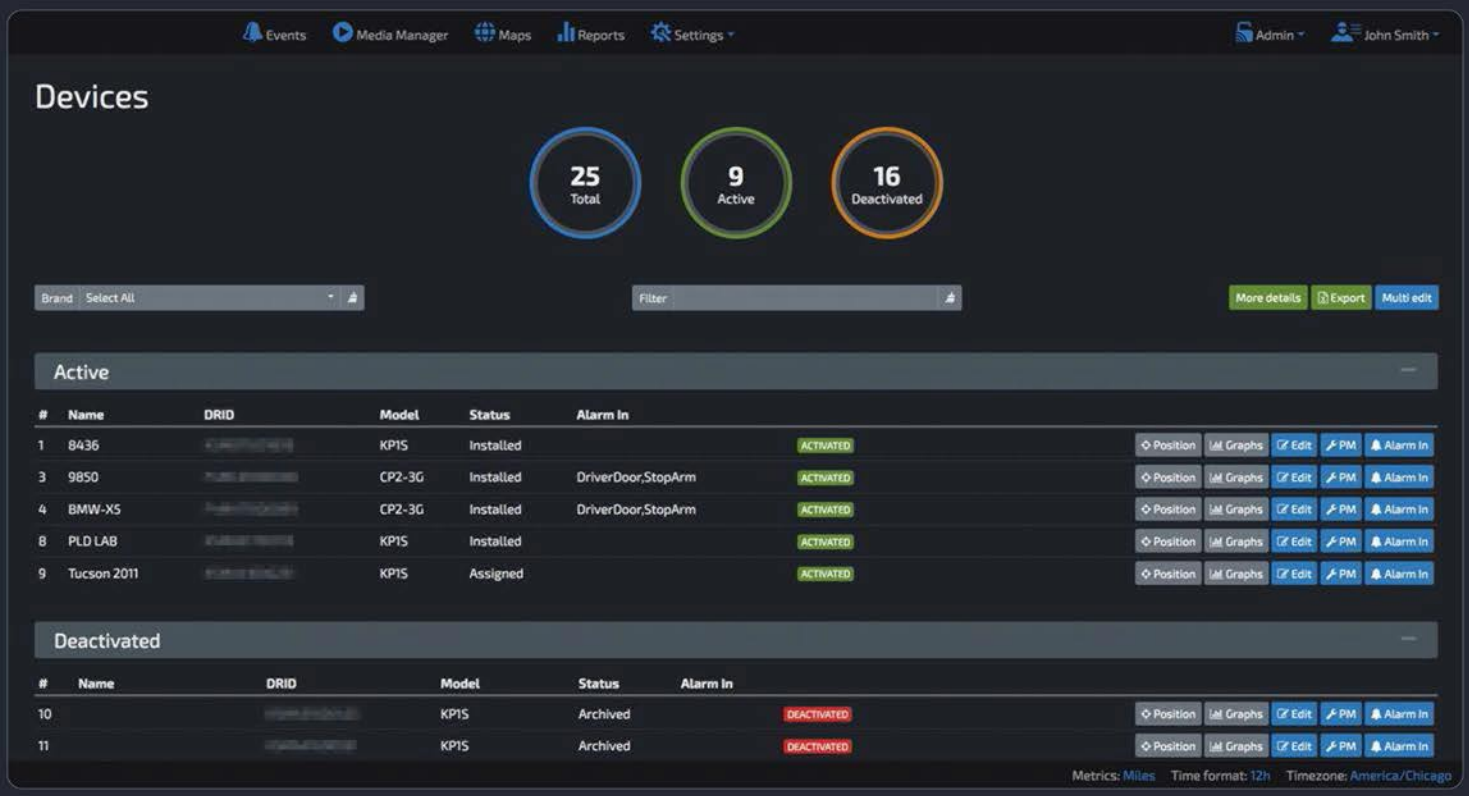


5. SETTINGS

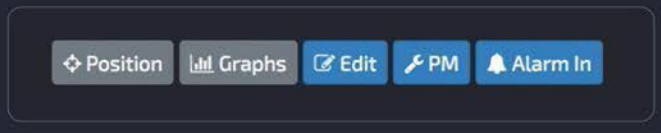
- User can manage the fleet's settings as follows.

5.1 Devices

- Open Settings menu.
- Select Devices feature.
- User can edit each device separately or multiple devices at once.
- User can view charts per device, and adjust its maintenance.



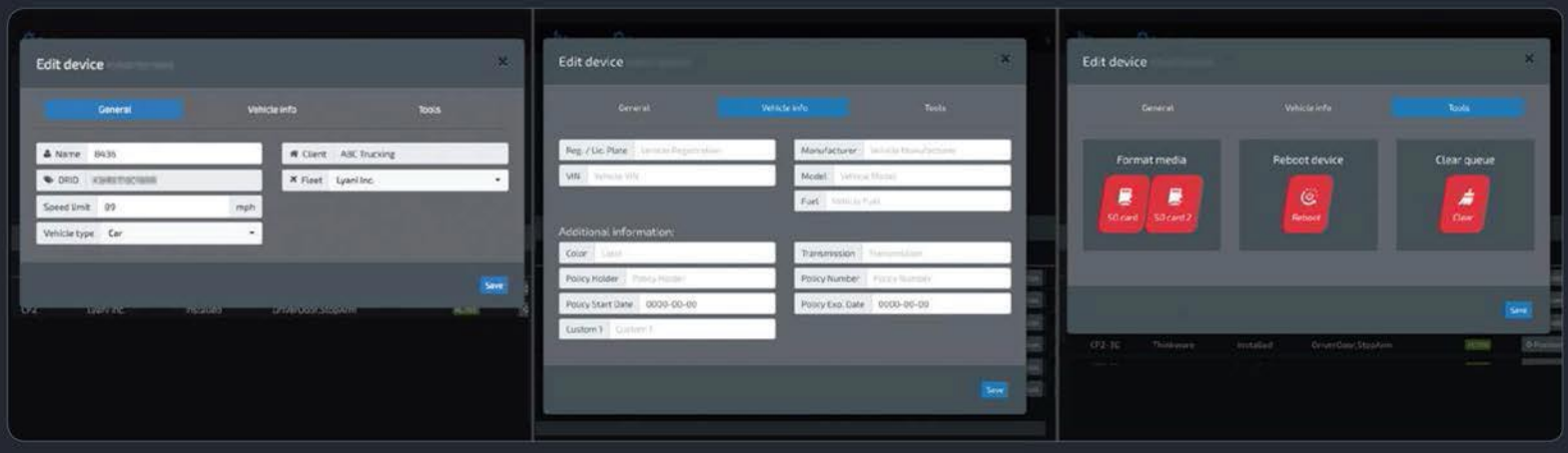
- Position button shows current vehicle location on the Map.
- The user can view view graphical charts as follows:
- Click on Graphs button.



The following window will open up, the user has to specify the desired date to view vehicle's telematics charts accordingly

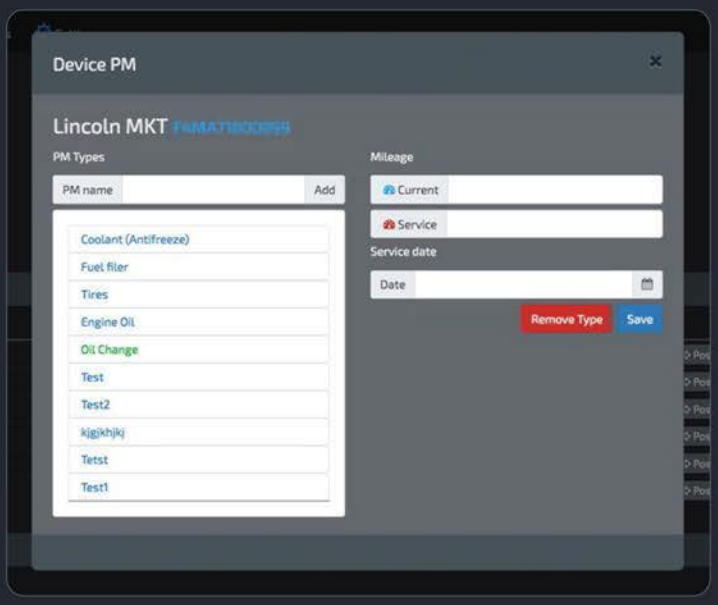
User can modiy device information as follows:

- Click on Edit Device button.
- The following window will open up, the user can add/modify the device information accordingly.
- Added option under device properties to format device local storage on demand.

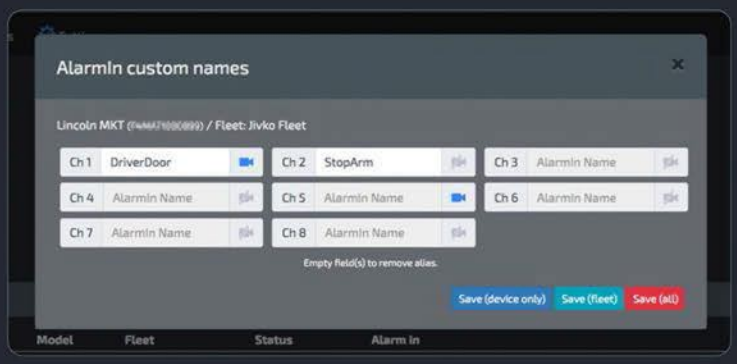


User can adjust PM maintenance settings as follows:

- Click on Device PM button.
- The following window will pop out.

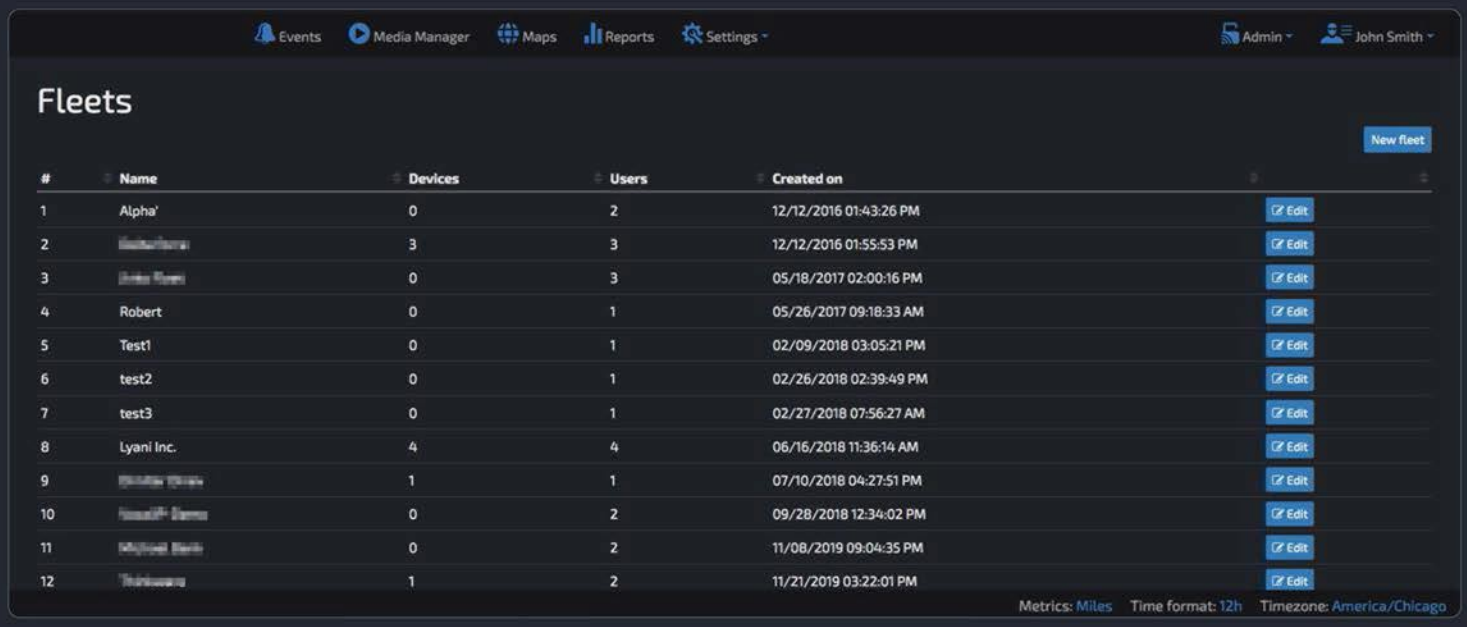


- Option to subscribe for video on AlarmIn event per channel.



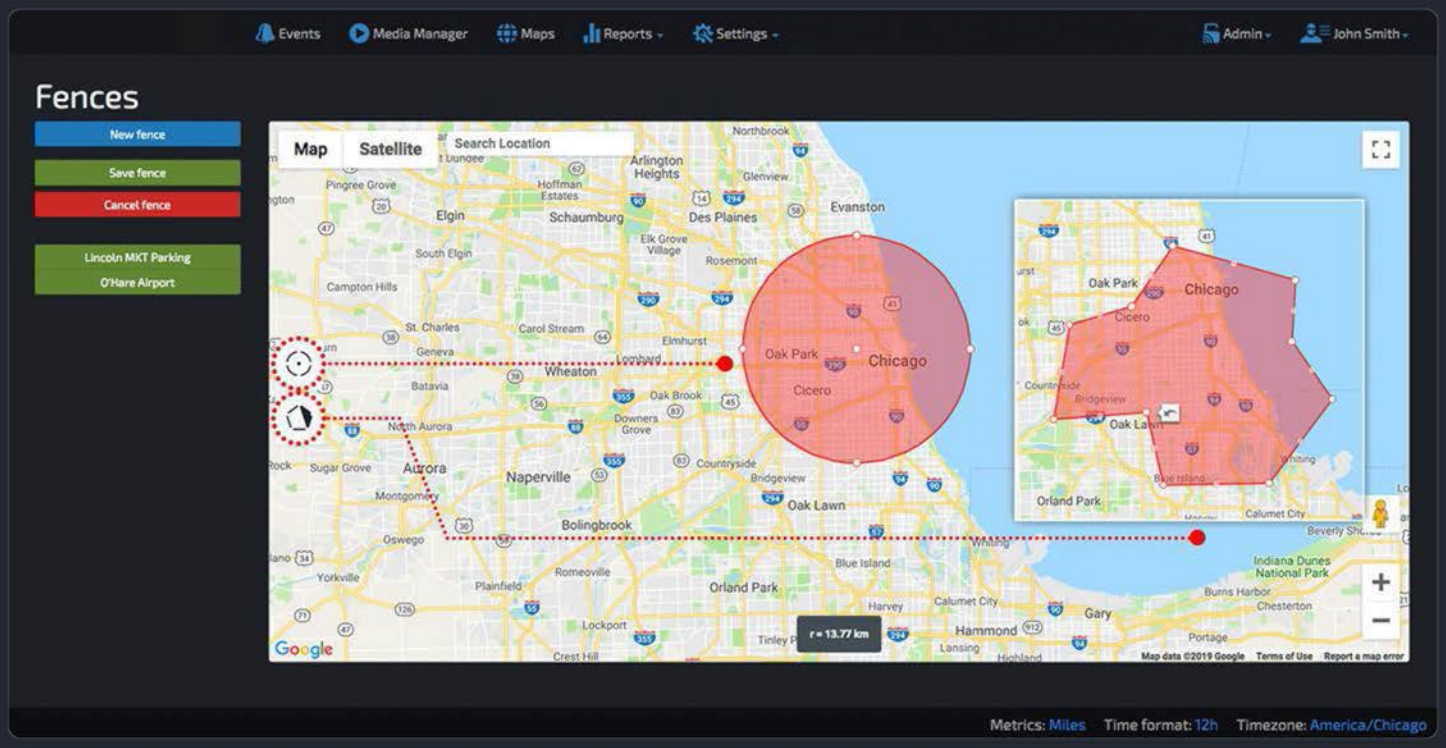
5.2 Fleets

- Open Settings menu.
- Select Fleets feature.
- A summary of all the created fleets will be listed.
- User can add a new fleet by clicking on New Fleet button, or edit an existed one.



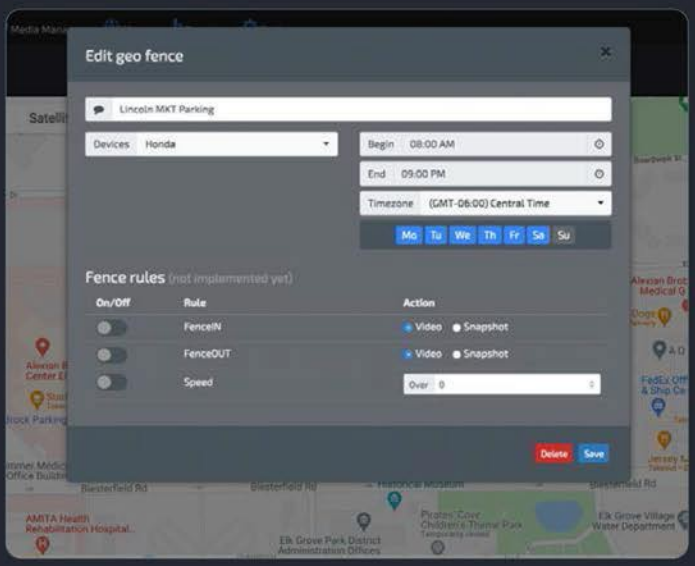
5.3 GEO Fencing

- Open **Settings** menu.
- Select GEO Fencing feature.
- A list of all the created GEO fences will be listed on the left side of the screen.
- The manager can change the look of the map, as well as search for locations.



User can create a new GEO fencing, and receive alerts accordingly.

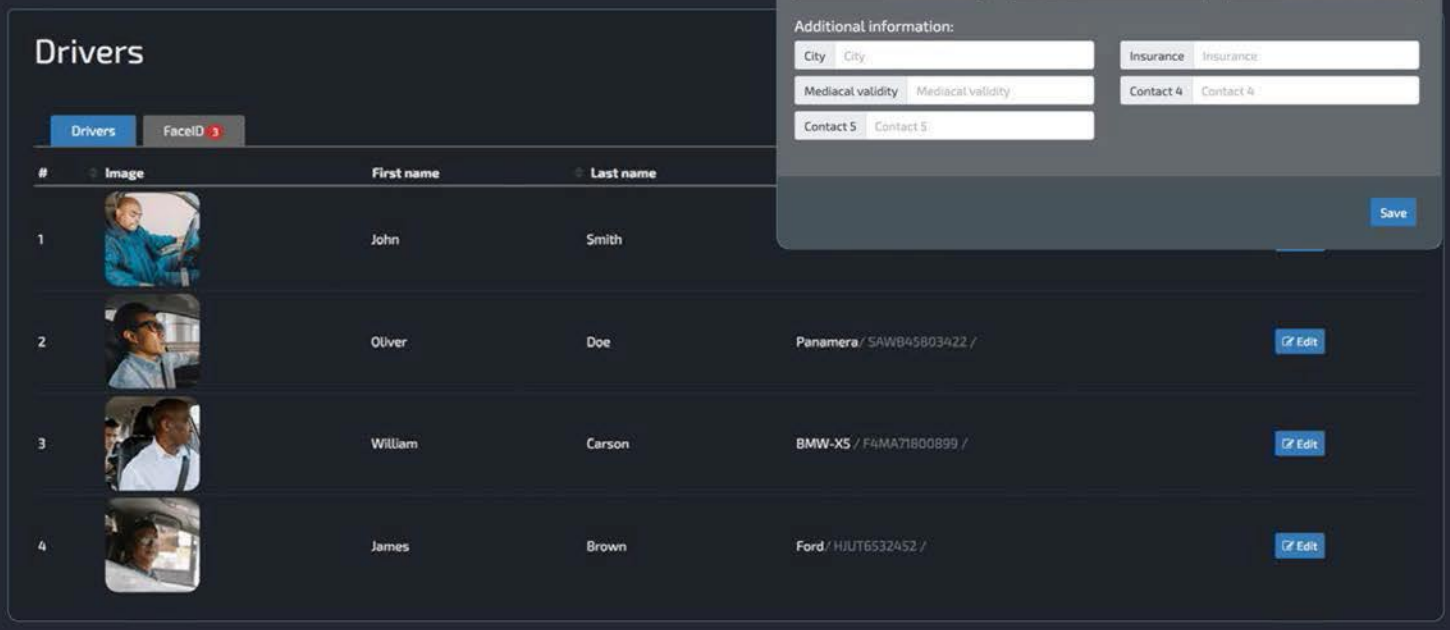
- Click on New Fence button.
- An adjustable arrow icon can be used to specify the GEO fencing location.
- Click on Save button.
- Specify the fence name, select desired devices, adjust date & time stamp with required days.



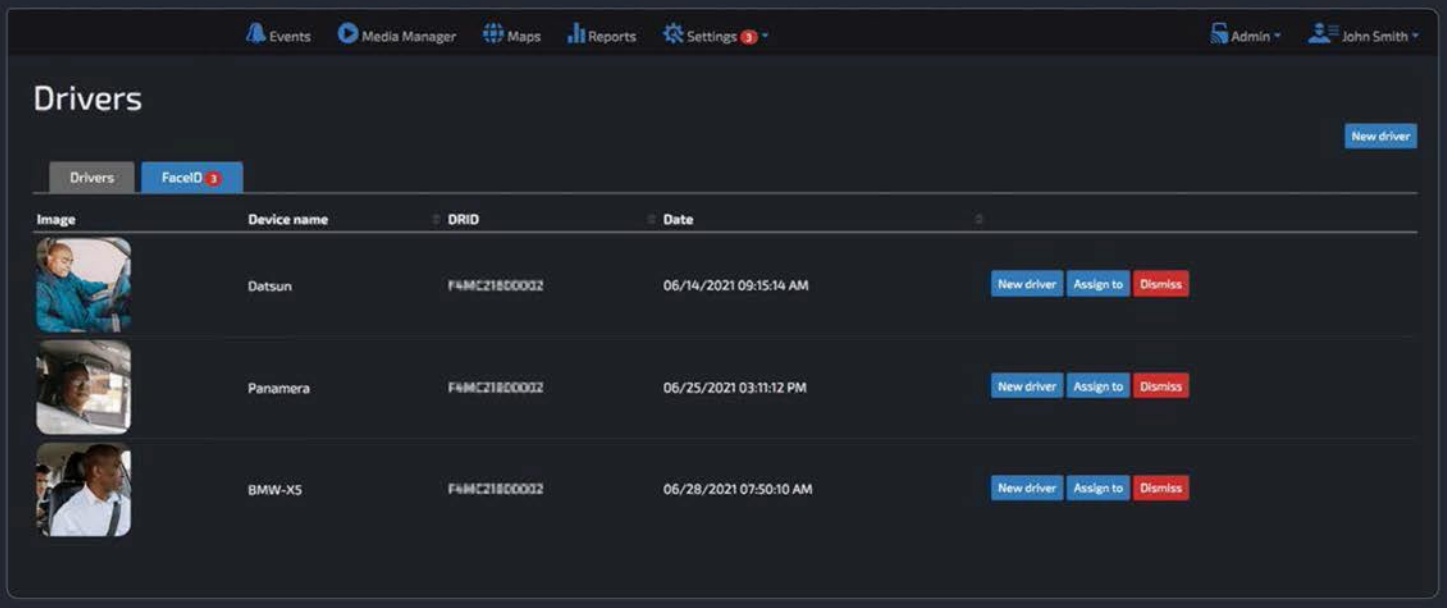
5.4 Drivers

- Open **Settings** menu.
- Select Drivers feature.
- A summary of all the registered drivers and the corresponding vehicle/s will be listed.

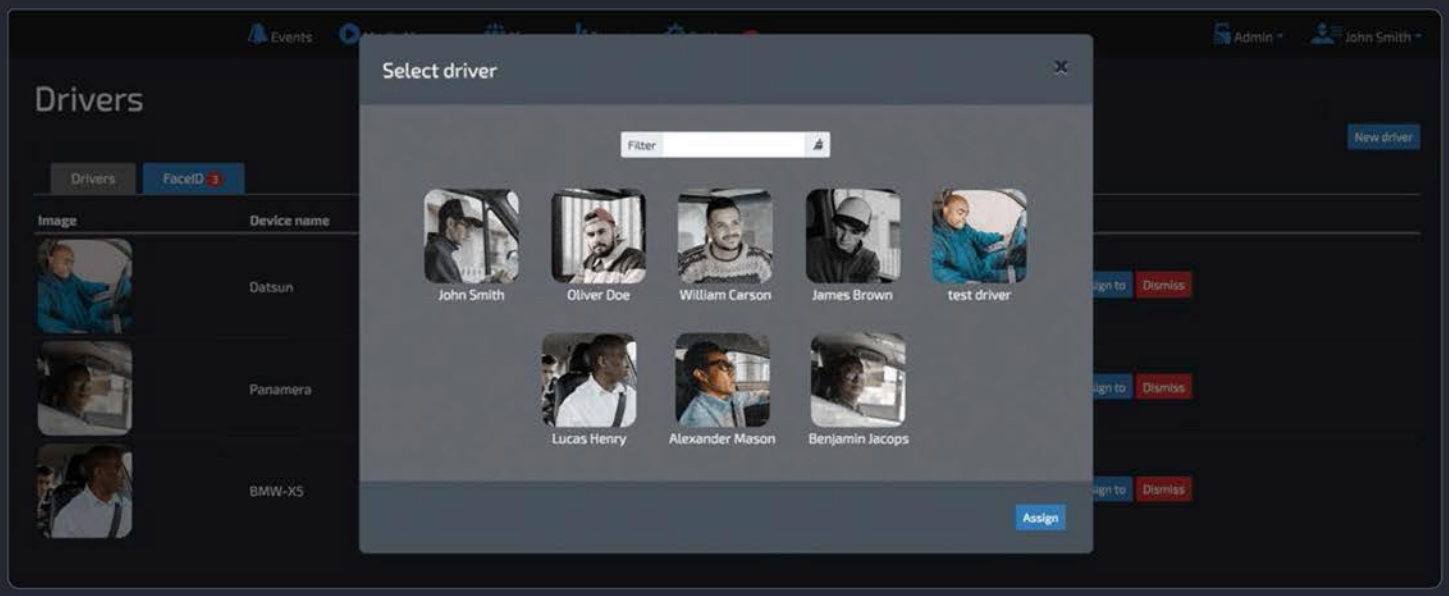
- User can edit an existed driver or add new one.



- From **FaceID** tab the user may find new unrecognized drivers' photos with their corresponding devices. After that they may be assigned to an existing or a new driver, or dismissed if not needed. Notifications show how many new unidentified drivers there are.

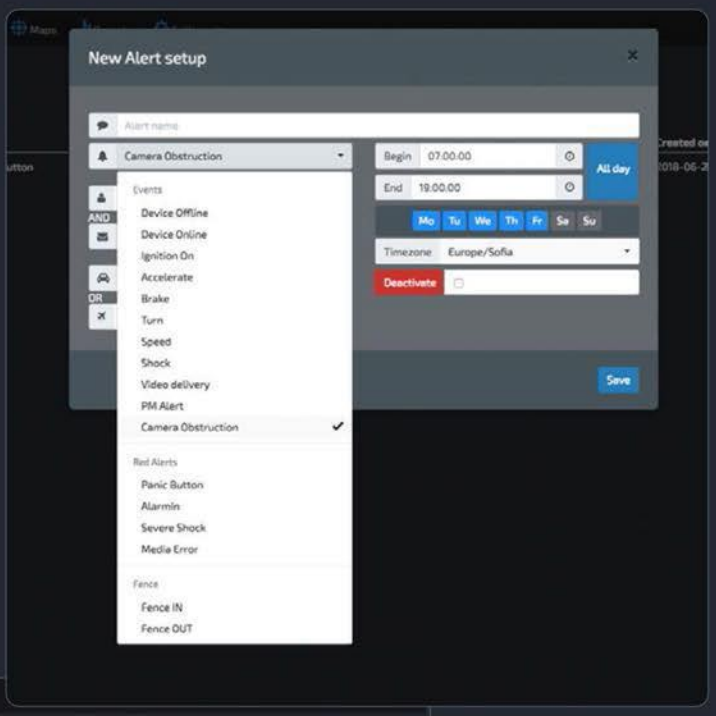


- Upon clicking on Assign to new modal window shows up with all of the already created drivers. The selected photo will be automatically added to the driver's personal gallery from which they may choose their profile picture. By clicking on New driver button the same "Create new driver" modal shows up with the picture already filled.

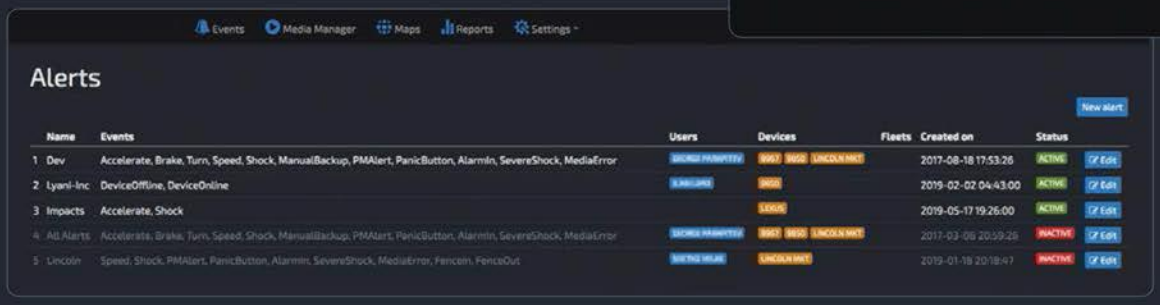


5.5 Alerts

- Open Settings menu.
- Select Alerts feature.
- User can edit an existed alert or add new one.

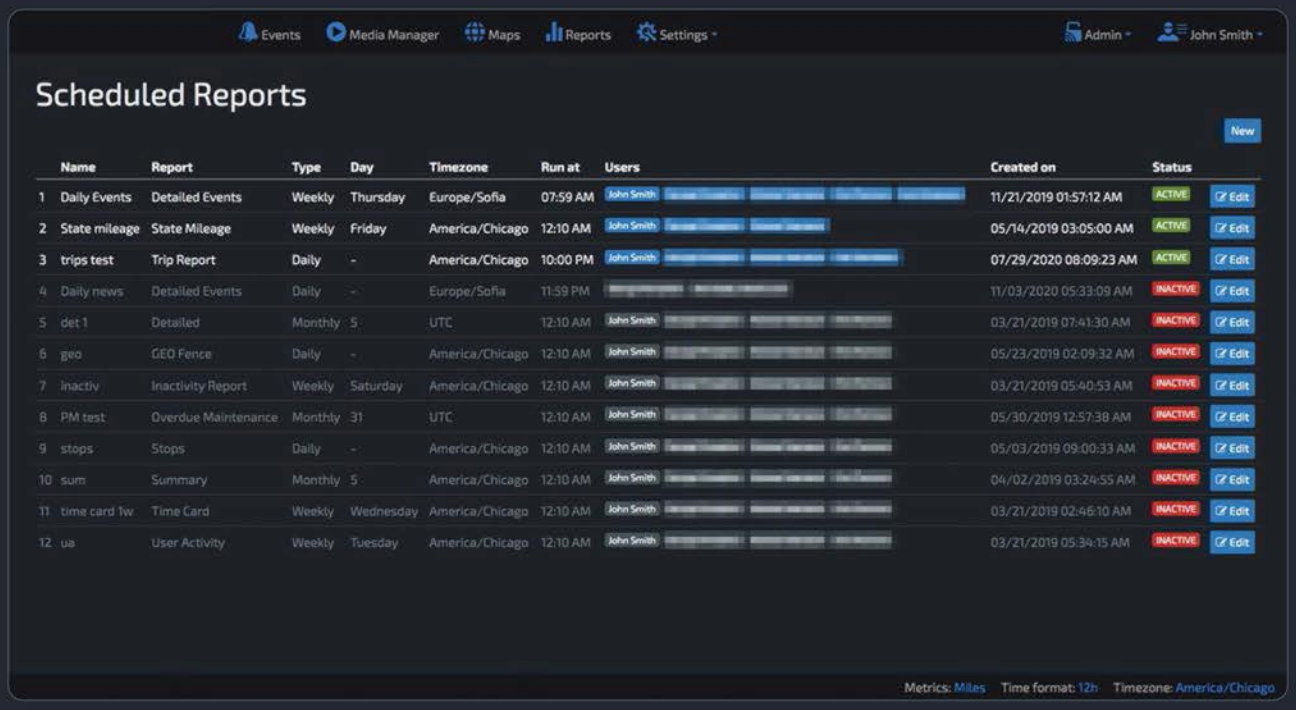


- User will receive a notifications only for the selected alerts from the dropdown menu.

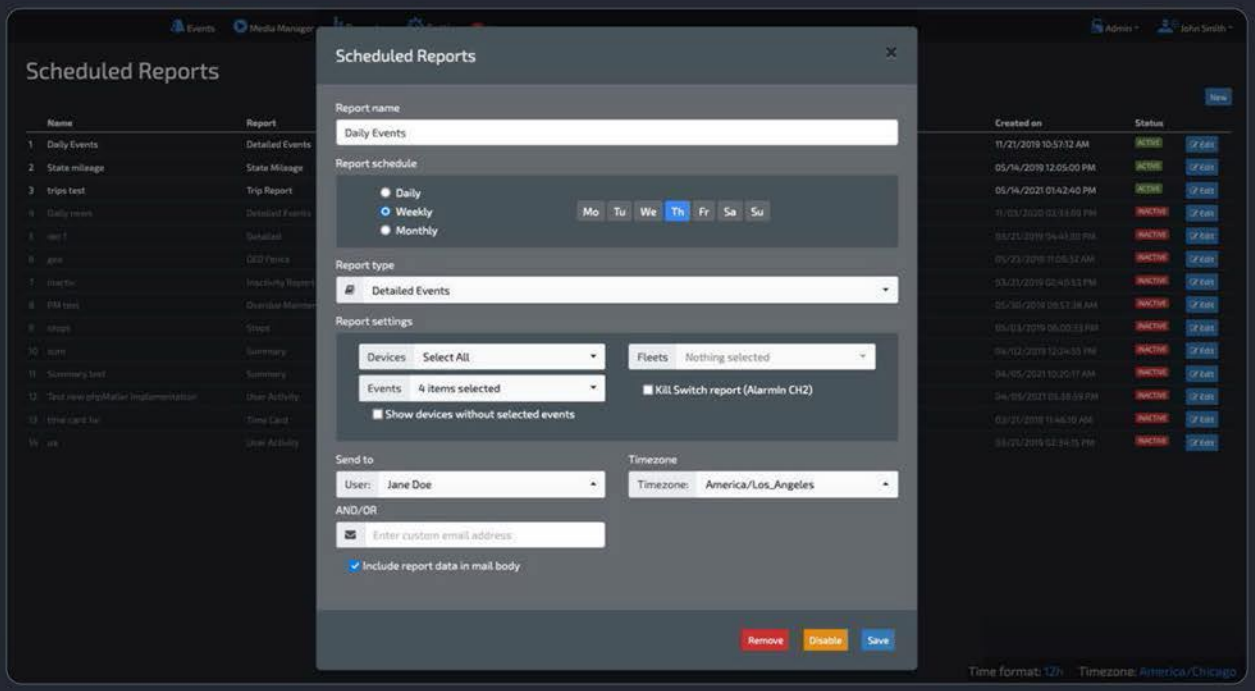


5.6 Scheduled Reports

- Open **Settings** menu.
- Select Scheduled Reports feature.
- Users can create saved reports, which will be executed on a given time basis (daily, weekly, monthly) and results will be sent on selected e-mail(s).



- Customized report name.
- Report type – Choose the Report type.
- Report schedule – Receive daily, weekly or monthly.
- Report settings – Choose vehicles and users to receive the report.

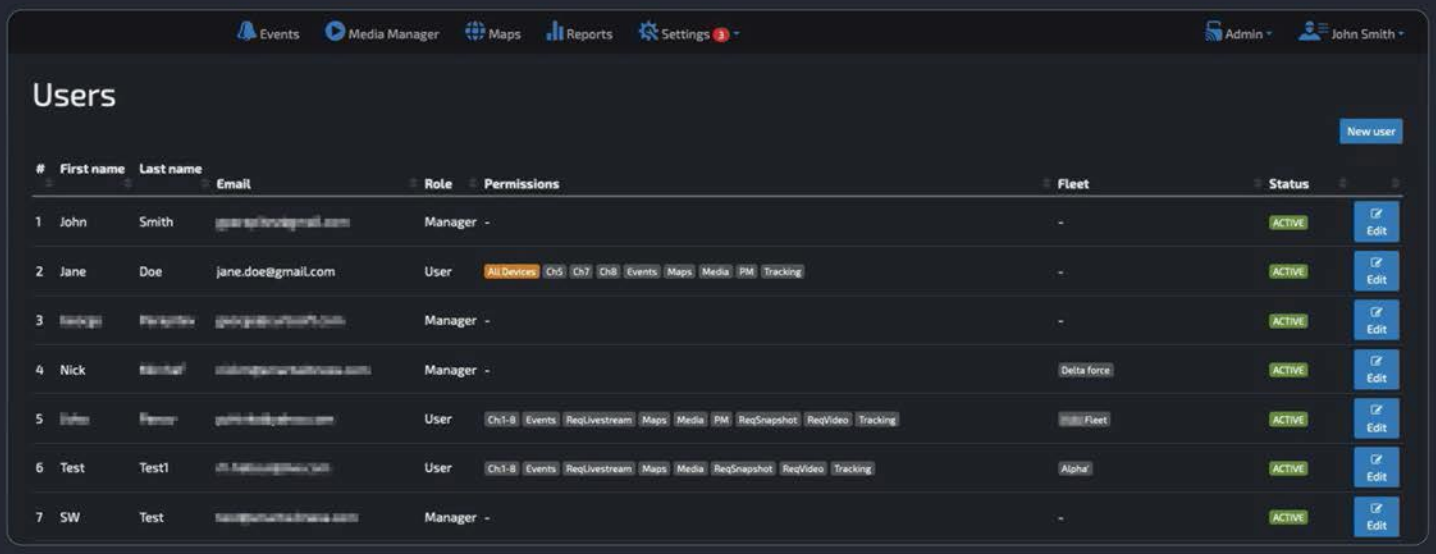


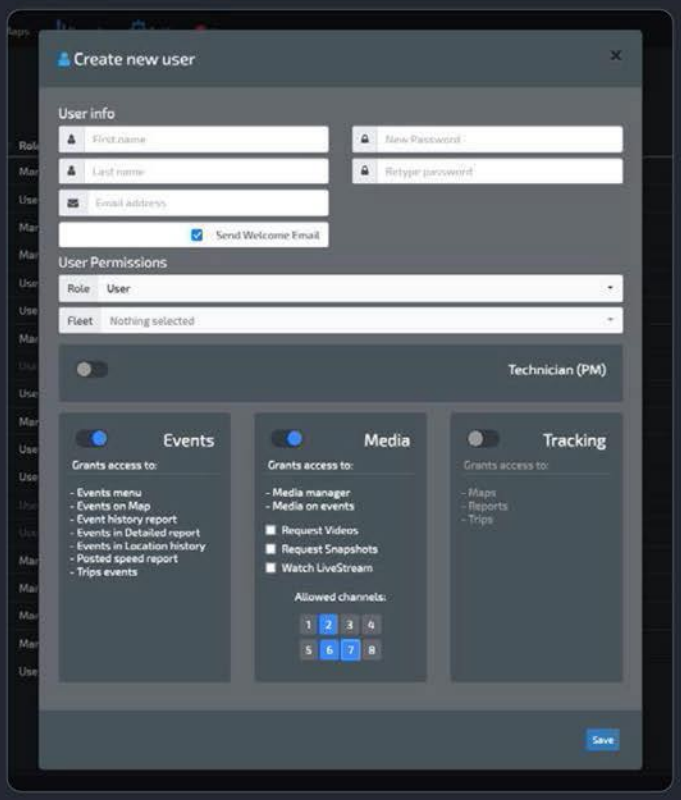
6. ADMIN PRIVILEGES

Admin role allows the user to manage the account users, fleet users and tickets as follows.

6.1 Users

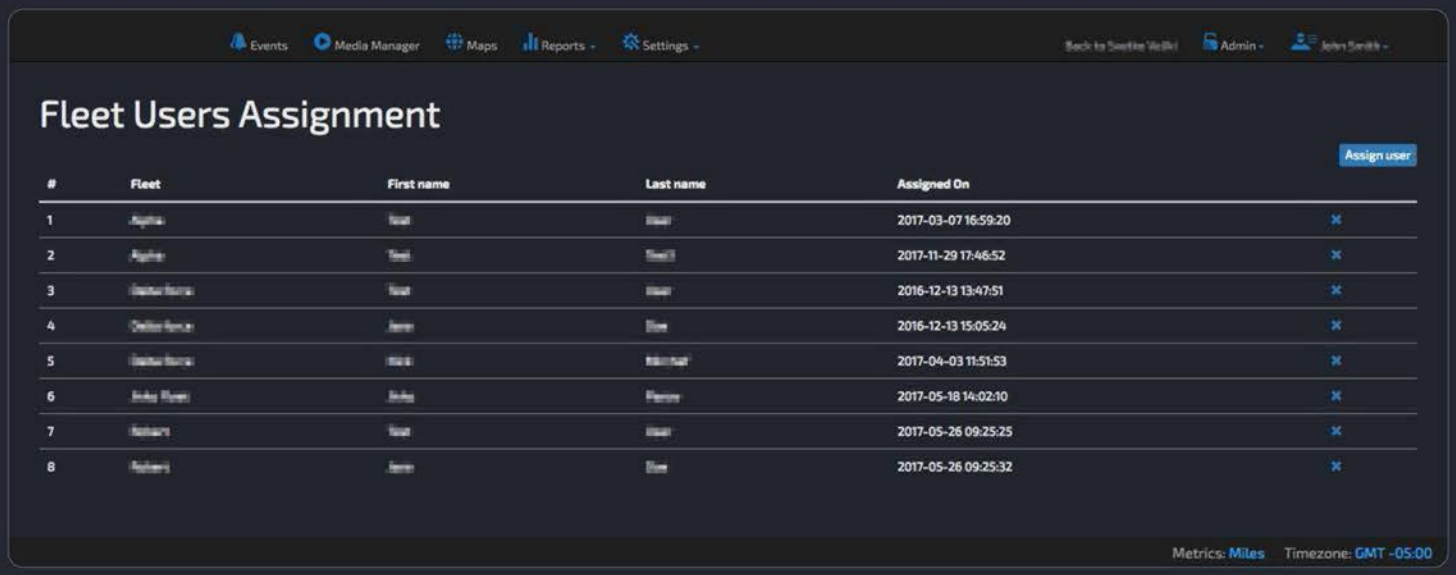
- Open Admin menu.
- Select Users feature.
- Manager can add/edit users.





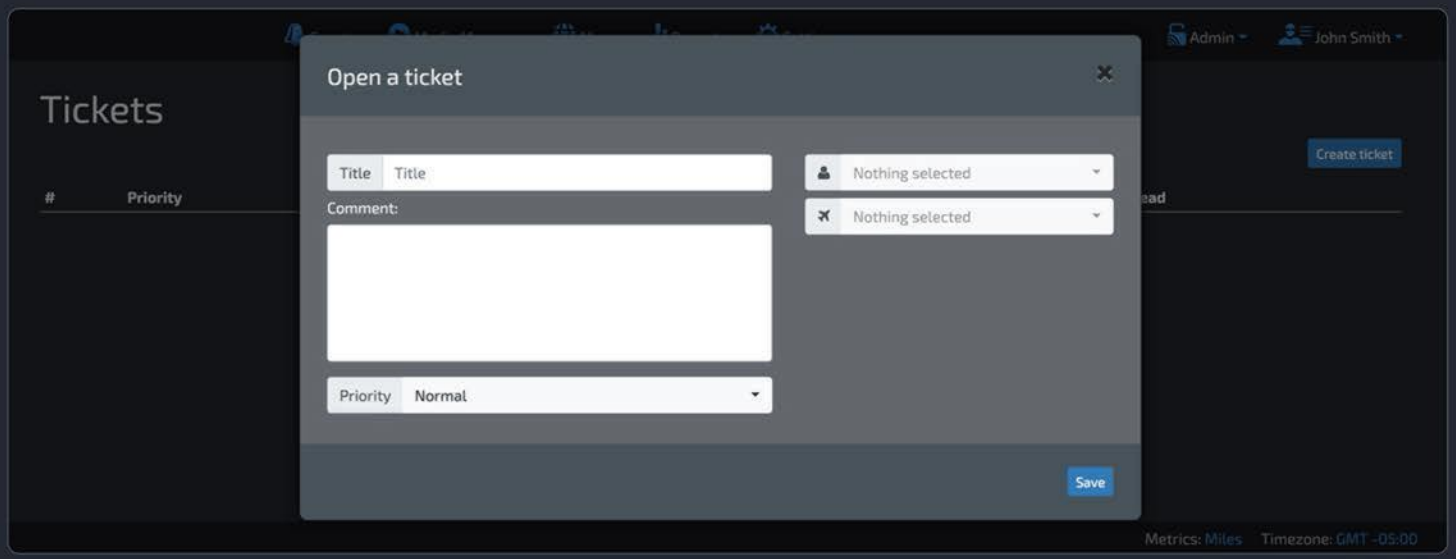
6.2 Fleet Users

- Open Admin menu.
- Select Fleet Users feature.
- Manager can assign new user to certain fleet or delete an existed one.



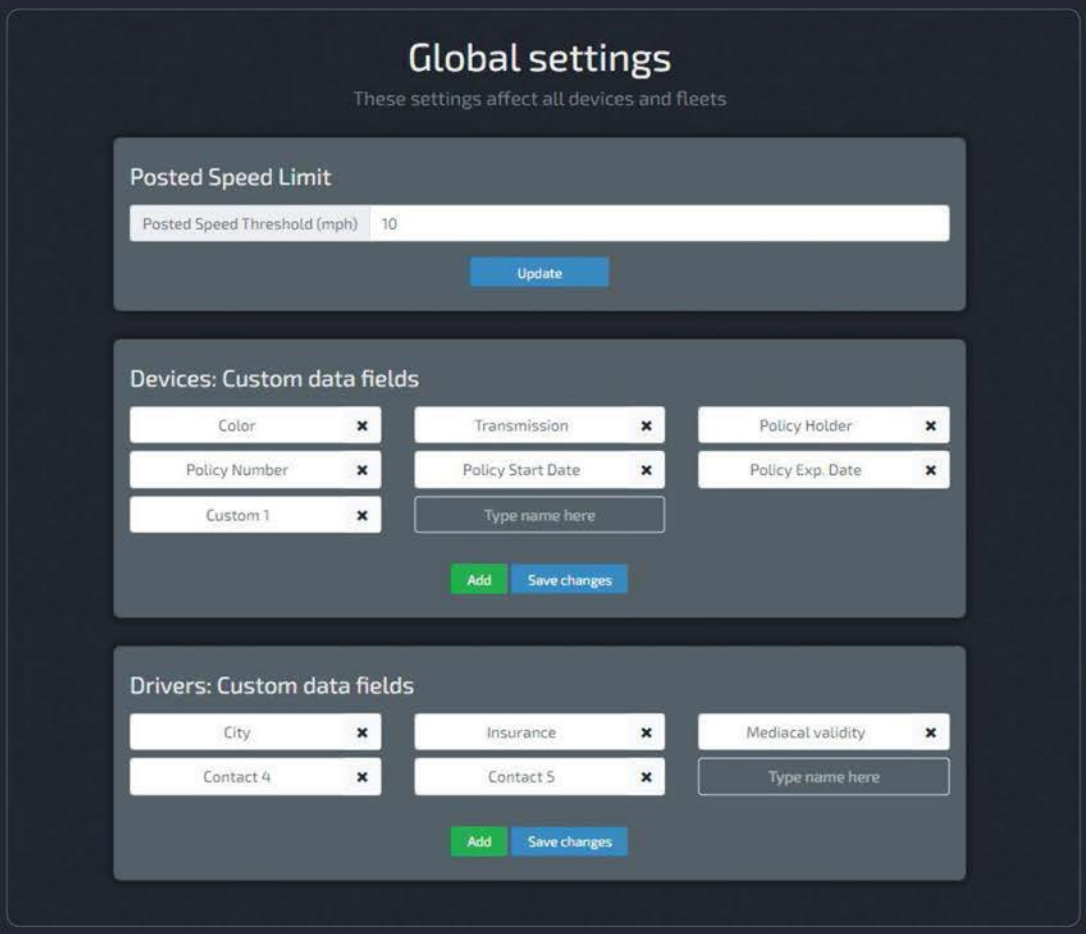
6.3 Support Tickets

- Open Admin menu.
- Select Tickets feature.
- User can view or create a new ticket by clicking on Create Ticket button.



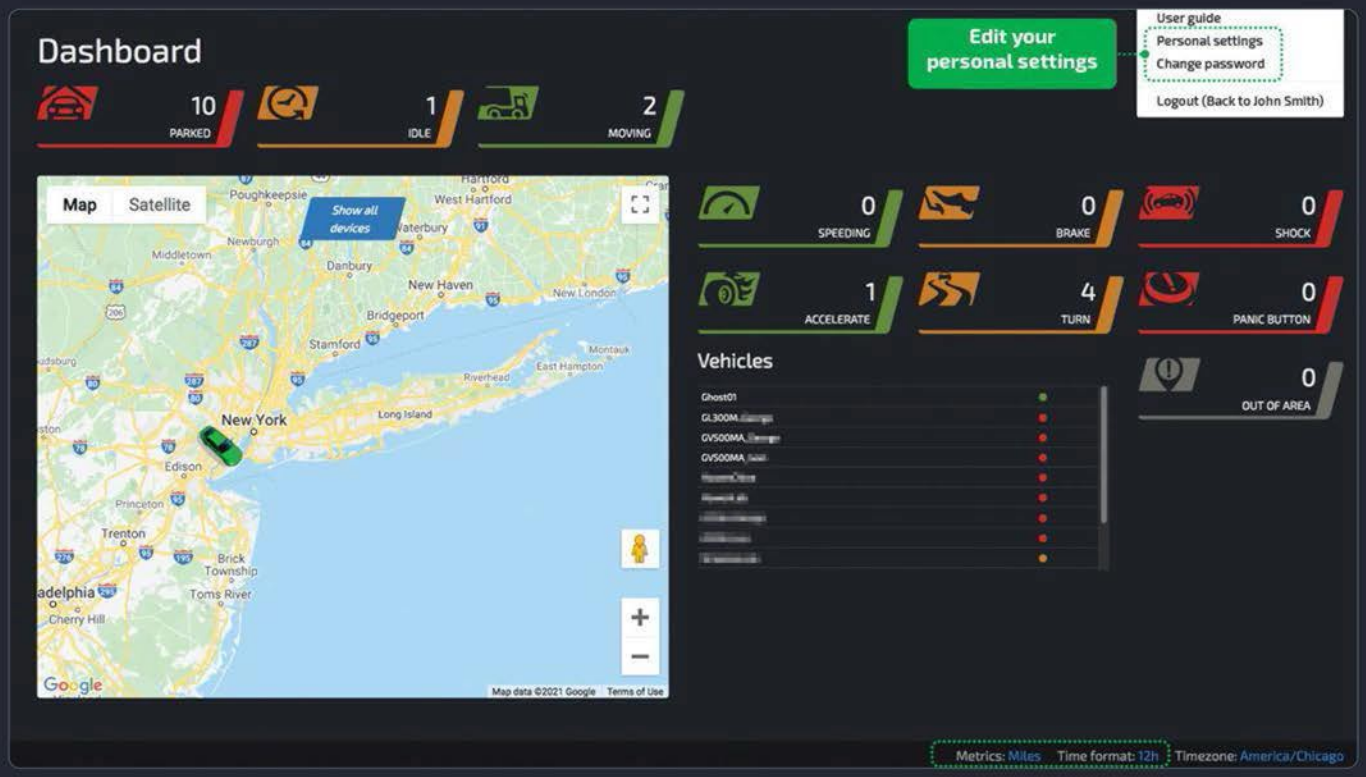
6.4 Global settings

- Open Admin menu.
- Select Global settings feature.
- From here Manager can change some platform settings that affect all devices and flees.

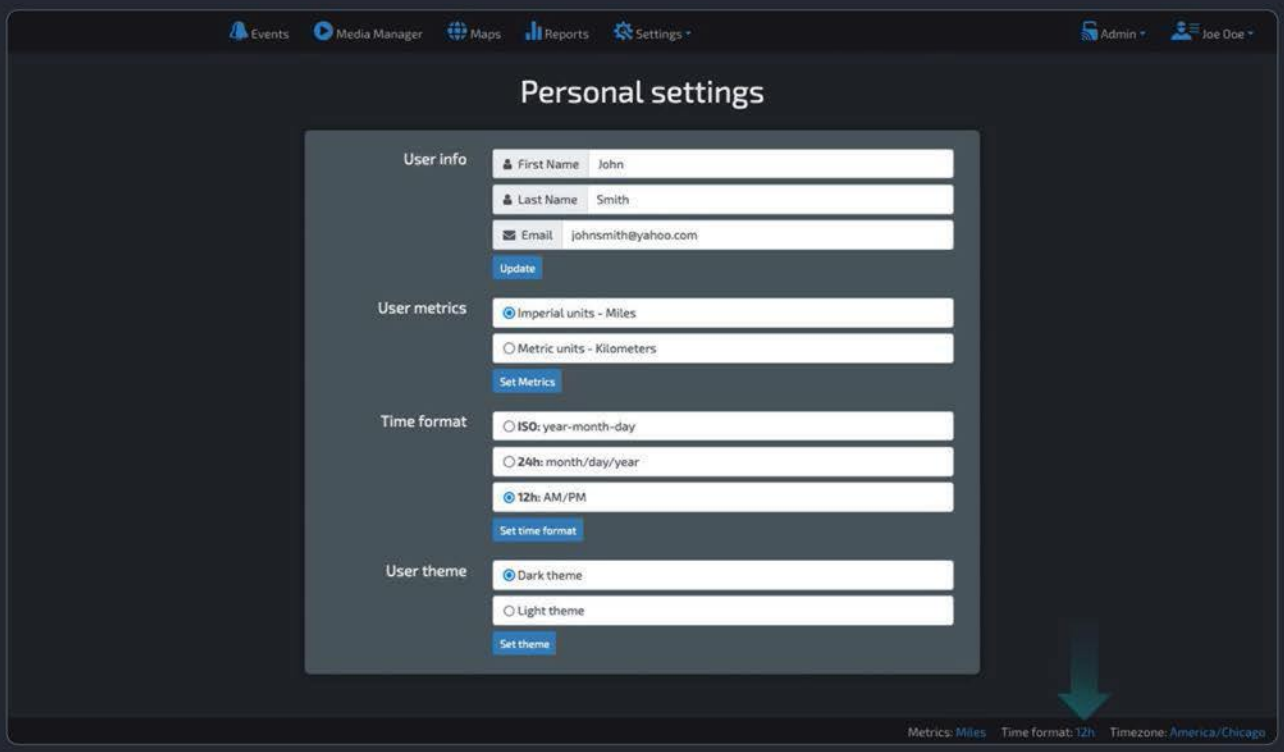


7. USER SETTINGS

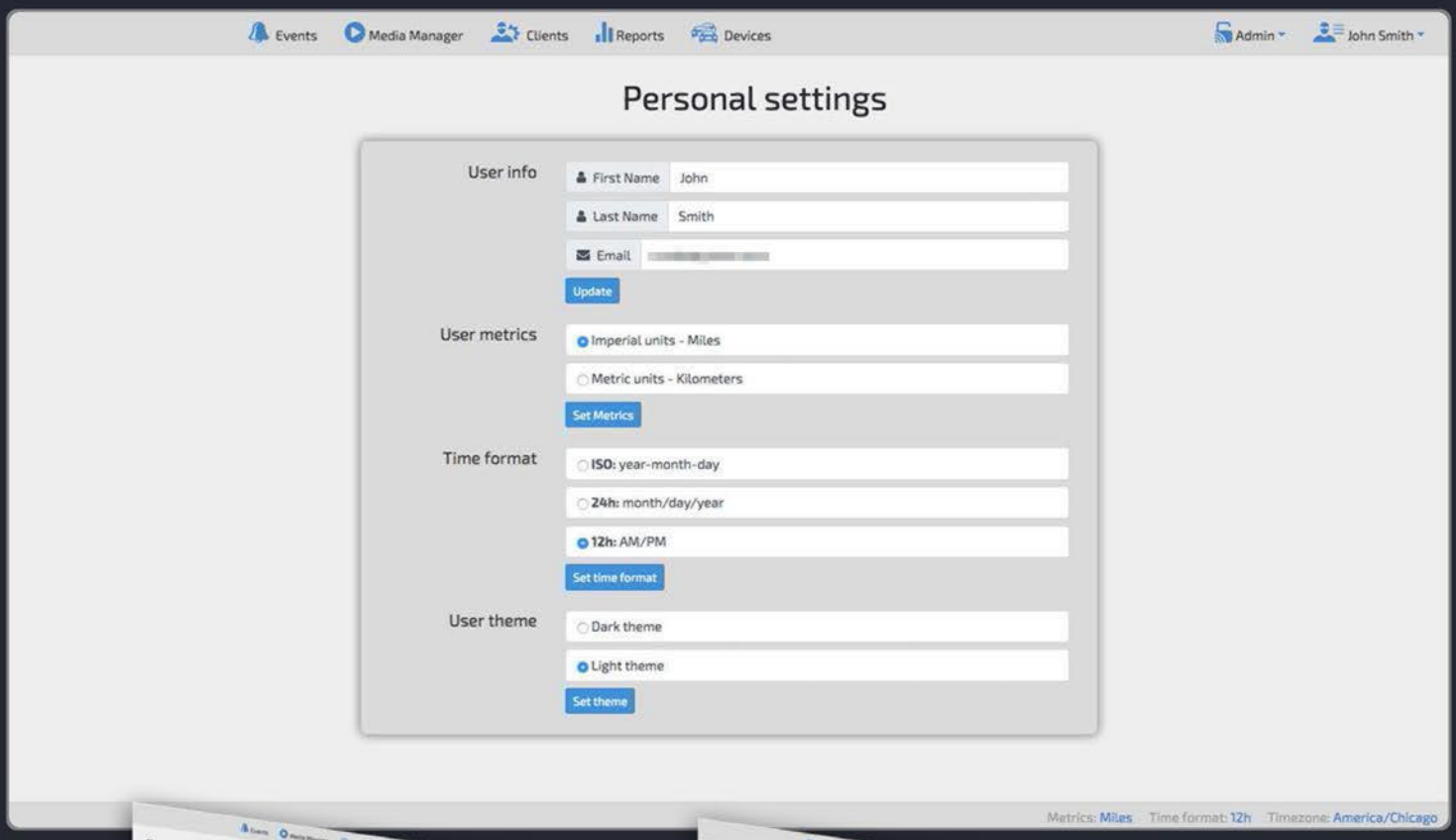
- The user can change his name, e-mail, password, measure units for speed and distance by clicking on his name in the upper right corner and light or dark theme.



- The current Manager measure units and time zone are displayed in the lower-right corner.



- User preffernce for theme - Dark or Light theme.



VIDEO TELEMATICS PLATFORM

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