

Telematics Software Solution

CGS Fleet Management

User Guide

Outline

1.	Intro	oduction	3
	a.	Portal Login	3
2.	Acce	essible Features	4
	a.	Dashboard	4
	b.	Events	10
	C.	Media Manager	14
	d.	Maps	14
	e.	Devices	18
	f.	Reports	18
		i. Summary	18
		ii. Detailed	19
		iii. Current Idle	19
		iv. Location History	20
		v. Overdue Maintenance	20
	g.	Tickets	21

1. Introduction

Telematics software solution is a GPS tracking mechanism that will allow telematics providers to monitor and manage their vehicles remotely. The main approach is to connect a 3rd party system that involves data translation among 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.

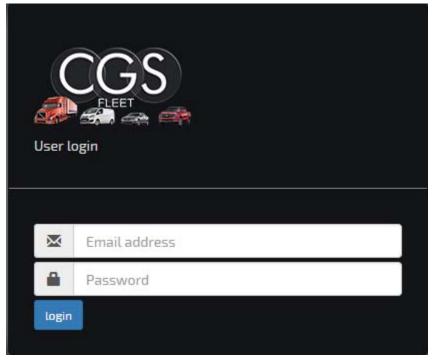
These remote servers will to store all the data that's accumulated from the active devices and process remote service requests, which provide the users with summary about their vehicle's status and all the driving data.

The Platform delivers this expanding web of connectivity by creating Middleware which connects proprietary, and open interfaces together.

a. Portal Login

To launch the TSP portal:

• Use the provided credintails to access the portal.



2. Accessible Features

a. Dashboard

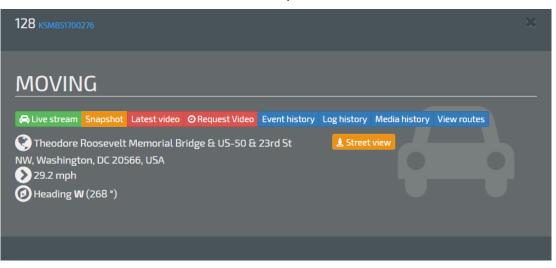
Dashboard gateway will list at the glance statistical graphics that will help in identifying the occurred events up to the current date. The user can navigate through the dashboard as follows:

- *Vehicles table* will list all the registered vehicles identifying their current status as follows:
 - Red: vehicle is currently parked.
 - o Idle: vehicle is currently idle.
 - o Green: vehicle is currently moving.
 - Purple: vehicle lost connection.

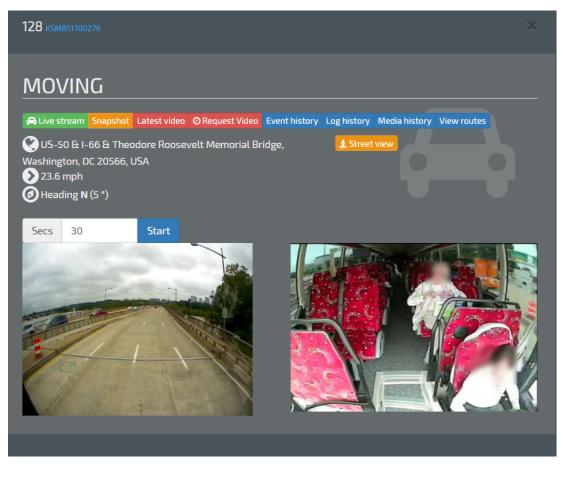
🦺 Events 🖿 Media Manager 📿 Maps 🗮 Devices 🚮 Reports 🗸		🗞 Tickets 👤 👻
Dashboard 19 PARED 19 IDLE 14 MOVING		
Map Satellite Ann Arbort Show all devices MASSACHU : T Toledo Cleveland Connecticut RI		3 69 SHOCK
Port Wome PENNSYLVANIA Nev Tork		
tanapolis Columbus Cincinnati West West	VEHICLES	OUT OF AREA
Louisville VIRGINIA Lexington Richmond KENTUCKY Rouncies VIRGINIA	129 0 111 0 113 0 403 0	
Ville Knowle Asteville Greensboro Ouriginia Beach	31	

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

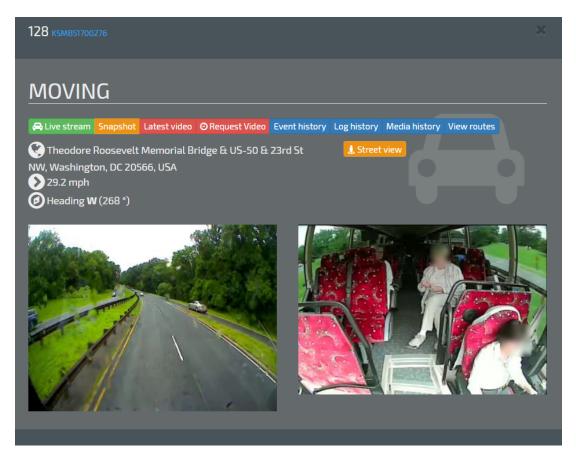
• A summary tab will open up which includes vehicle name, device DRID, current status, location and multiple executable tabs.



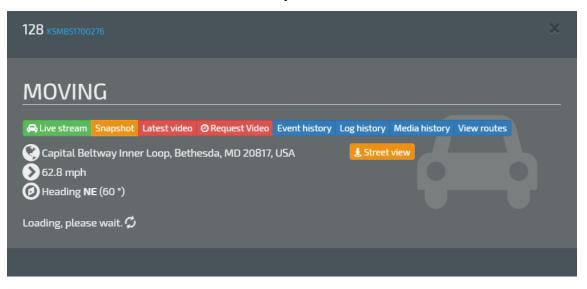
- Executable functional tabs:
 - Live Streaming: a live video streaming will be based upon a certain period of time dedicated in seconds.



• Get Snapshot: uploads live images from the vehicle's current location.



• Latest Video: an auto-upload of 20 seconds video of the vehicle's current location that can be found under *Media History* tab.



• Request Video: will retrieve a 20 seconds video upon the specified date and time.

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

128 к5мв51700276			
MOVING			
🖨 Live stream Snapshot Latest video	ORequest Video Event histor	ry Log history Media histor	y View routes
 Theodore Roosevelt Memorial B NW, Washington, DC 20566, USA 29.2 mph Heading W (268 °) 	ridge & US-50 & 23rd St	L Street view	
2018-06-11	hh 0-23	mm 0-59	ss 0-59
			Request

• Event History: a list of all the triggered events upon the current date that can be exported in Excel or PDF.

128 к5мв5170	0276			×
MOVI	IG			
🖨 Live strean	Snapshot Latest video Ø Request Video Event history	Log history	Aedia history	View routes
	15/501, Thurmont, MD 21788, USA	💄 Street vi	ew	
64.0 mpł				
Heading	NE (39 °)			
🔀 Export 🔀	PDF			
Event			5 1 (1)	
	Position	Heading	Speed (mi)	Time
SevereShock	Position Washington National Pike Maryland 20871	Heading NW (318 °)	Speed (mi) 41.0	Time 2018-06-11 10:57:33
SevereShock	Washington National Pike Maryland 20871	NW (318 °)	41.0	2018-06-11 10:57:33
SevereShock IgnitionOn	Washington National Pike Maryland 20871 West Basin Drive Southwest District of Columbia 20006	NW (318 °) N (21 °)	41.0 0.0	2018-06-11 10:57:33 2018-06-11 10:09:42
SevereShock IgnitionOn IgnitionOff	Washington National Pike Maryland 20871 West Basin Drive Southwest District of Columbia 20006 West Basin Drive Southwest District of Columbia 20006	NW (318 °) N (21 °) NE (30 °)	41.0 0.0 0.0	2018-06-11 10:57:33 2018-06-11 10:09:42 2018-06-11 09:52:14
SevereShock IgnitionOn IgnitionOff IgnitionOn	Washington National Pike Maryland 20871 West Basin Drive Southwest District of Columbia 20006 West Basin Drive Southwest District of Columbia 20006 Ohio Drive Southwest District of Columbia 20006	NW (318°) N (21°) NE (30°) NW (320°)	41.0 0.0 0.0 0.0	2018-06-11 10:57:33 2018-06-11 10:09:42 2018-06-11 09:52:14 2018-06-11 09:42:59
SevereShock IgnitionOn IgnitionOff IgnitionOff	Washington National Pike Maryland 20871 West Basin Drive Southwest District of Columbia 20006 West Basin Drive Southwest District of Columbia 20006 Ohio Drive Southwest District of Columbia 20006 Ohio Drive Southwest District of Columbia 20006	NW (318 °) N (21 °) NE (30 °) NW (320 °) SE (133 °)	41.0 0.0 0.0 0.0 0.0 0.6	2018-06-11 10:57:33 2018-06-11 10:09:42 2018-06-11 09:52:14 2018-06-11 09:42:59 2018-06-11 09:15:22

• Log History: a list of all the camera events upon the current date that can be exported in Excel or PDF format.

MOVIN	G			
🖨 Live stream	Snapshot Latest video ØRequest Video Event history Log his	tory Media I	history Vie	w routes
U.S. Hwy 1 64.0 mph Heading N Export	E (39 °)	itreet view		
Event	Position	Heading	Speed (mi)	Time
LiveTrack	Gettysburg Village Drive Pennsylvania 17325-8988	NW (301 °)	0.0	2018-06-11 11:47:55
LiveTrack	Gettysburg Village Drive Pennsylvania 17325-8988	NW (301 °)	0.6	2018-06-11 11:47:40
LiveTrack	Gettysburg Village Drive Pennsylvania 17325-8988	NW (301 °)	5.0	2018-06-11 11:47:25
LiveTrack	Gettysburg Village Drive Pennsylvania 17325-8988	W (283 °)	9.9	2018-06-11 11:47:10
LiveTrack	Gettysburg Village Drive Pennsylvania 17325-8988	NW (335 °)	0.6	2018-06-11 11:46:54

 Media History: a list of all the manual requested & auto-uploaded media for the past 7 days.

pg. 9



Note:

- The device should be online in order to respond to *Get Snapshot* & *Get Video* request.
- The user can download MP4 file footage by clicking on *Download* tab.

	₽	
L	_	

 For data analysis, and drive behavior report, click on *MDT File* tab. This file extension will require the Software Analysis tool provided from SmartWitness (<u>http://support.smartwitness.com</u>). • View Routes: provides a detailed geographical summary of vehicle's trip (can be accessible via *Maps* tab).

MOVING	128 к5мв51700276	
 1865 Gettysburg Village Dr, Gettysburg, PA 17325, USA 8.1 mph Heading NW (302 °) 	MOVING	
 8.1 mph Heading NW (302 °) 	Live stream Snapshot Latest video ORequest Video Event history Log history Media history View routes	
	 8.1 mph Heading NW (302 °) 	

- The dashboard will present all the triggered events using graphical statistics, where the only executable tabs will be (Speeding, Brake, Shock, Acceleration, Turn, Panic and Out of area).
 - Upon clicking on any of those tabs, 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.
 - Out of area icon will list all the vehicles that were triggered out the predefined GEO fence.
 - b. Events

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

	🐥 Events	: Media Manager	O Maps ≣ De	ivices 🍶 Reports 🗸		🔊 Tickets 👤 👻
Even E	ACTIVE TODA	o 7 days ● 30 days		CHECK SETTINGS	О СНЕСК МЕДИА	
Di Red Di An	iber 🖾 Grey			2 2018-06-11 14:59:11		Reset
Client	Event type	Event time	Vehicle			Street view
And in case of	Shock	2018-05-11 15:01:40	137	Pennsylvania Turnpike, Bristol, PA 19007, USA		Dismiss
Binder	Sheck	2018-06-11 14-59-11	137	Viewroute		Review
And in case	Sheck	2018-06-11 14:47:06	136			
And other	Sheck	2018-06-11 14:42:50	136	Heading W (290 *)		Reason O Deal with
and the second second	Sheck	2018-06-11 14:22:22	133		Driven: unassigned	
Enclosed	SevereSheck	2018-05-11 14:21:36	401			
Summer of	Sheck	2018-06-11 14:04:52	125	II Pause ► Play Q x1 Q x2 Q x4		
And and	Sect	2018-06-11 13:13:02	136			1 Alexandre
And in case	Sheck	2018-05-11 12:57:11	124			
Real Property lies	Sheck	2018-06-11 12:17:29	401			
And in case of	Shed	2018-06-11 12:13:31	137			
Man Court	Sheck	2018-06-11 11:52:32	115		A MARTINE A	
And other Designation	Sheck	2018-06-11 11:35:38	137			
Enclosed	Sheck	2018-06-11 11:33:52	137			

- A color code adjustment can be used to trigger certain events as follows:
 - Red: lists Shock, Severe Shock and Panic events.
 - o Amber: lists Brake, Acceleration and Turn events.
 - o Gray: list Speed events.



- The user can review any of the listed events by selecting one. A 10 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* tab.
- The user can retrieve MP4 footage of the event by clicking on *Video* tab. This tab 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.

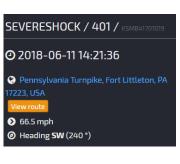


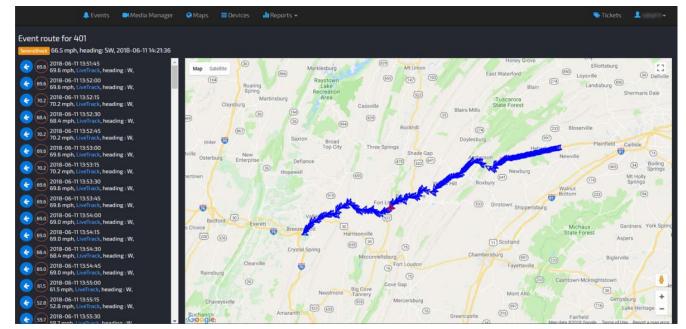
• The user can dismiss the unnecessary events by clicking on *Dismiss* tab. However, the events will be listed in a sperate tab called *Dismissed*.

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

SHOCK / KSMA41600390		
2018-05-21 07:54:27 - 2440 S 59th Ct, Cicero, IL 60804, USA - 0.6 mph		
Comment	Submit Deal with Dismiss	

- Event route will be listed under *View Route* tab for the selected vehicle.
 - o Click on View Route tab.
 - A new window will pop out listing all the routes corresponding to the triggered event.





- 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/video as follows.

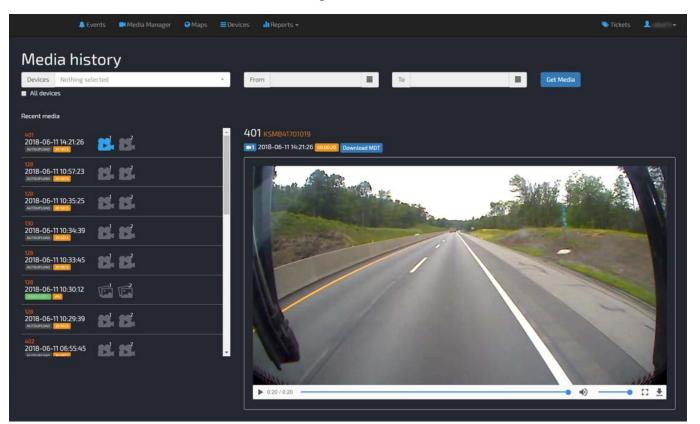
401	×	
LOCATIONCHANGED		
2 2018-06-11 14:20:45	& Street view 💿 Snapshot	
02010-00-11 14.20.45	2018-06-11	
📀 Pennsylvania Turnpike, Fort Littleton, PA 17223, USA	① 14 ② 20 ③ 45	
2 64.6 mph	Request Video	
Heading SW (213°)		
No media.		

- *Events* gateway will include executable graphical icons that generate summary reports of the following:
 - **Active Today**: lists the devices that are currently active.
 - **Check Connection**: indicates devices that stopped reporting without having a proper "*Ignition Off*" event for more than 1 hour.
 - **Check Settings**: lists the devices that stopped reporting for the past 7 days.
 - **Check Media**: shows devices that reported SD card errors and requires SD card formatting.
 - Idle: lists devices that are active but not moving for certain period of time (Usually when vehicle is parked for 30 minutes, without dedicating *Ignition Off* event).
 - **Emergency**: lists devices that triggered Panic &/ Severe Shock events.

c. Media Manager

Media Manager gateway allows users to allocate media by selecting device/(s) upon a certain period of time.

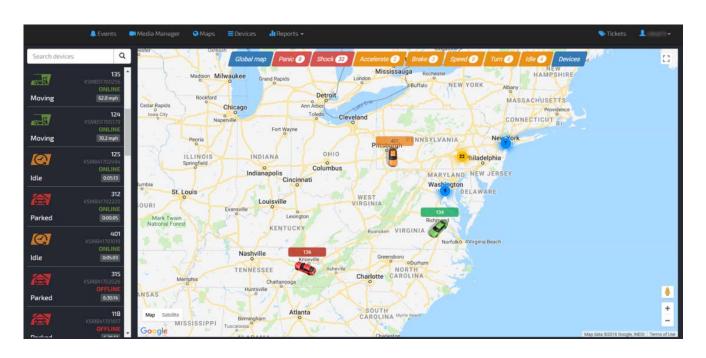
- A 20 seconds footage for each triggered event with date & time stamp including the requester name.
- Videos will be labeled according to the recorded camera.
- User can download the footage as of MP4/ MDT version.



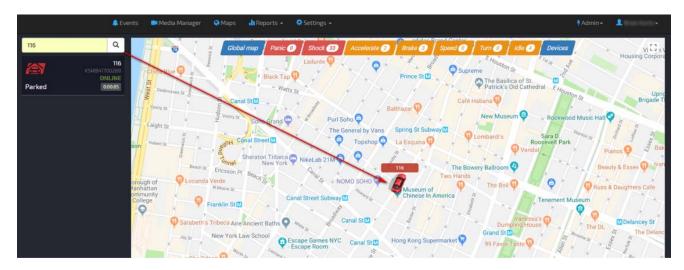
d. Maps

Maps gateway allows users to allocate and view their vehicles.

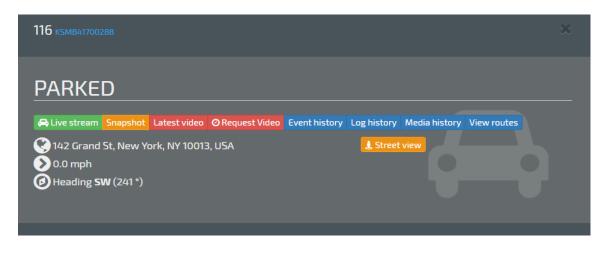
- Events are being presented as graphical executable icons which can be used as a searching mechanism (Search by: Panic, Shock, Acceleration, Brake, Speed, Turn or Idle).
- The map will cluster the nearly located vehicles, or indicate them via colored arrow according to its current status (Idle, Parked, Moving or Lost Connection).



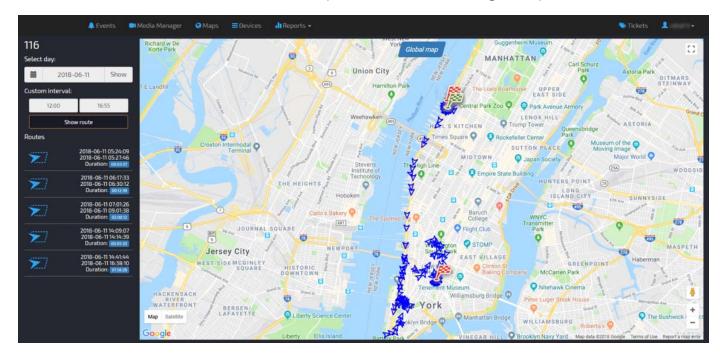
• A quick search mechanism that allocates the current location of any vehicle by typing vehicle's ID.



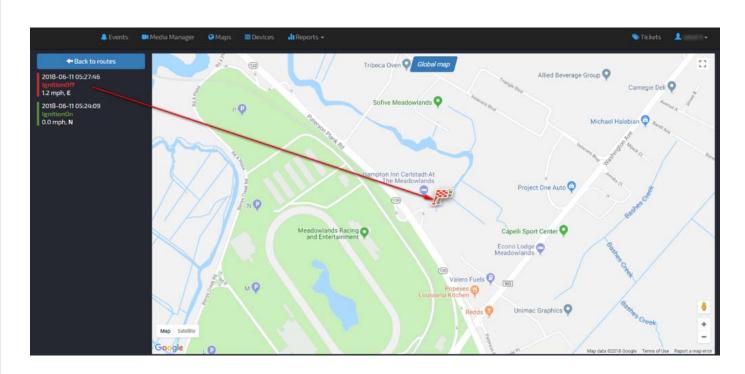
• In order to have a detailed GPS tracking, users can click on the pulled vehicle's icon. The following window will open up.



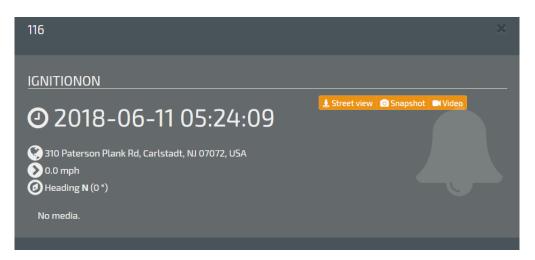
- o Click on View Routes tab.
- Specify the desired date.
- o Click on Show tab.
- A list of all the driven routes will show up with the corresponding time and period duration.
- o User can customize duration period to facilitate navigation process.



• All the listed routes are executable. Users can retrieve an image &/ video by clicking on the desired point on the map.



• Click on the flag in order to request video/image.



e. Devices

User can view a summary of all the devices by clicking on *Device* tab.

• User can view graphical charts for certain device by clicking on *Graphs* tab.

	A Ev	vents 🛛 🛤 Media I	Manager 🍳 Maps 🗮 I	Devices 🏭 Reports 🗝					Nickets
De	vices								
									Multiedit
•	Client	Name	DRID	Serial number	Model	Fleet	Status		
		130	KSMB41702992	KSY541702863	KPIS		Installed	ACTIVE	ult Graphs
		100	WE 447 (47702000	KSY541702494	KP1S		Installed	ACTIVE	de Graphs
		120	K5MB4170290B	131341702434					Contraction of Contraction

- The user can view view graphical charts as follows:
 - Click on *Graphs* tab.

🌲 Events 📾 Media Manager 📿 Maps 🚍 Devices 🎝 Reports 🗸	🖲 Tickets 💄
)evice graphs	
130	
Pick day 2018-06-11	E Show
Daily Idle Time (min)	Daily Active Time (min)
50 130 40 30 20 10	
0 12 00 15 00 20 00 00 04 00 08 00 12 00 15 00 20 00 00 00 Daily Distance (miles)	00.00 12.00 16.00 20.00 00.00 04.00 08.00 12.00 16.00 20.00 00 Delty Top speed (mph)

f. Reports

This feature allows the user to generate summary reports by clicking on *Reports* tab.

- i. Summary
 - Click on *Reports* tab.
 - Select *Summary* feature.
 - Specify the desired period range.

- Filter by device/s, fleets, or all devices.
- Export the spreadsheet either in Excel/PDF format.

	🐥 Events 💶	📕 Media Manaj	ger 😌 Maps			leports -							🌑 Ticki	ets 💄
Sumr	mary repo	ort for	all de	vices										
From: 2	2018-06-01			=	To: 20	018-06-12		=						
Devices	4 items selected			•	Fleets	Nothing selected		*	Dev	ices i	All devi	ces		
					à i	a								Shov
Concession in the local division of the loca	IPDF DRID	ldle (min)	Active (min)	Distance(n	miles)	Max speed(mph)	Average speed(mph)	Accelerate	Brake	Turn	Shock	Severe Shock	Alarm in	Show Media Error
Name		Idle (min) 1480.7	Active (min) 3418.6	Distance(n 2346.9	miles)	Max speed(mph) 72.7	Average speed(mph)	Accelerate 3	Brake 2	Turn 0	Shock 0	Severe Shock	Alarm in 0	Show Media Error O
Name 120	DRID	0.2010.01	2201000.00	200900003	miles)				10010000	1000	CONVERSION OF		2.203/1720/7	Media Error
Name 120 112	DRID K5MB41702908	1480.7	3418.6	2346.9	miles)	12.1	39.9	3	10010000	0	0	0	0	Media Error
Accept	DRID KSMB41702908 KSMB41702905	1480.7 1646.7	3418.6 3742.1	2346.9 2378.6	miles)	72.7 73.9	39.9 32.4	3	2 1	0	0	0	0	Media Error 0 0

- ii. Detailed
 - Click on *Reports* tab.
 - 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.

🐥 Events	Media Manager		s 🍶 Reports 👻			💊 Tickets 💄 🕞
Detailed repo	ort per dev	vices				
From: 2018-06-01			To: 2018-06-12			
Device 112		-	Type Events		* Show	
Export PDF Event type	Name	DRID		Driver	Date	mph
SHOCK	112	KSMB4170290	5		2018-06-11 08:11:55	26.1
ACCELERATE	112	KSMB4170290	5		2018-06-10 21:07:41	
ACCELERATE	112	KSMB4170290	5		2018-06-09 19:31:38	16.8
SHO <mark>CK</mark>	112	KSMB4170290	5		2018-06-09 08:49:14	60.9
ACCELERATE	112	KSMB4170290	5		2018-06-05 17:35:38	69.6
SHOCK	112	KSMB4170290	5		2018-06-05 06:38:21	64
SHOCK	112	KSMB4170290	5		2018-06-04 06:03:12	69
BRAKE	112	KSMB4170290	s		2018-06-03 05:52:53	62.8
					Period average	46.2

- iii. Current Idle
- Click on *Reports* tab.
- Select Current Idle feature.
- A summary of all the currently idle devices will be listed.

• Export the spreadsheet either in Excel/PDF format.

		🌲 Events 🗧	Media Manager	😋 Maps	■Devices	dl Reports 👻					📚 Tickets	1
Cu	Current Idle Devices											
₿ €φ	ort PDF											
	Name	DRID		Last Ign. O	n		Last contact	Idi	since	idle for	Cameras	
1	311	KSMB417011	53	2018-06-12	2 08:03:41		2018-06-12 09:53:55	20	8-06-12 09:48:40	00:05:15	z	
	119	KSMB41700	578	2018-06-12	2 14:44:54		2018-06-12 09:54:05	201	8-06-12 09:48:57	00:05:08		
	112	KSMB41702	905	2018-06-12	2 14:47:49		2018-06-12 09:54:06	20	8-06-12 09:49:05	00:05:01		
	132	KSMB41700	105	2018-06-12	2 12:06:17		2018-06-12 09:53:56	201	8-06-12 09:48:52	00:05:04		
	130	K5MB41702	992	2018-06-12	2 11:49:03		2018-06-12 09:54:02	20	8-06-12 09:49:02	00:05:00		
	126	KSMB41703	142	2018-06-12	2 14:44:45		2018-06-12 09:53:51	201	8-06-12 09:48:44	00:05:07		

- iv. Location History
 - Click on *Reports* tab.
 - 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.

	🔔 Events	📑 Media Manager	😋 Maps		Reports +					🌑 Tickets	•
Locatio	n hist	ory									
Devices 130		•	From	2018-06-01	i	То	2018-06-12	Ħ	Events only		
DExport DPDF											Show
Name	Event	Time		Address					Location	Heading	Speed
Name 130 KSMB41702992	Event	Time 2018-06-01 00	:00:06		caster County Pennsylvani	a 17522			Location 40.200298, -76.204002	Heading NE (29°)	Speed 0
				Buchanan Drive Land	caster County Pennsylvani caster County Pennsylvani						
130 KSMB41702992	LiveTrack	2018-06-01 00	:00:16	Buchanan Drive Land		a 17522			40.200298, -76.204002	NE (29°)	0
130 KSMB41702992 130 KSMB41702992	LiveTrack LiveTrack	2018-06-01 00 2018-06-01 00	:00:16 :00:34	Buchanan Drive Lanc Buchanan Drive Lanc Buchanan Drive Lanc	caster County Pennsylvani	a 17522 a 17522			40.200298, -76.204002 40.200298, -76.204002	NE (29°) N (21°)	0

- v. Overdue Maintenance
 - Click on *Reports* tab.
 - 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.

	🔔 Events	Media Manager	😌 Maps		all Reports +				📚 Tickets	1 -
Overdue	e maiı	ntenance	(PM)							
Name		ORID		PM type	Curent miles	Service miles	Milesleft	Service date		

• User can modify the required maintenance by clicking on *PM* tab.

	🐥 Events - 👪 Live track	Device PM	5	X Sidonary	7 Admin+ 🗻 +
Overdue m	naintenance	Lab-KP1-2cam KSMA51600536 PM Types PM name	Add	Mileage	Service date
Lab-KPI-Zcam	KSMAS1600536	Brakes Coolant (Antifreeze) Fuel filer Tires Engine Oll		Service Service Remove Type Save	2017-11-15 F PM

g. Tickets

User can view or create a new ticket by clicking on *Create Ticket* tab.

Open a ti	cket			×
title T	ïtle	1	Nothing selected	•
Comment:		*	Nothing selected	-
Priority	Normal			
				Save