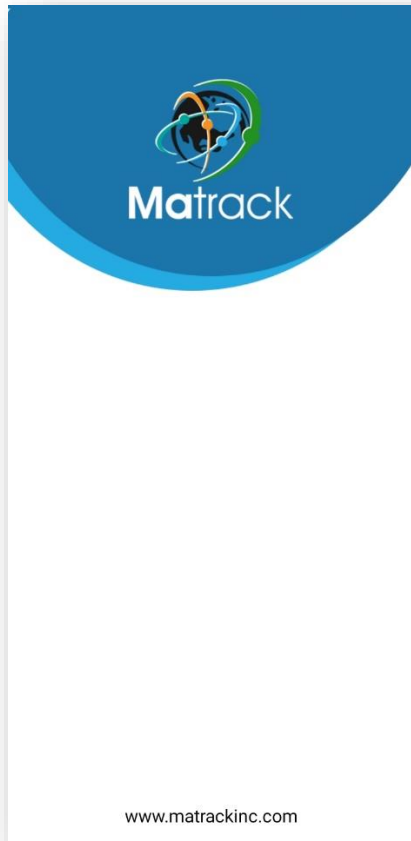


# Hours of Service

Getting started with Matrack ELD



Matrack

Username

Password

SIGN IN

OFFLINE LOGIN

The image shows a mobile app login screen. At the top, there is a blue curved header containing the Matrack logo and the word "Matrack" in white. Below the header, there are two white input fields with rounded corners. The first field is labeled "Username" and the second is labeled "Password". Below these fields is a black button with rounded corners and the text "SIGN IN" in white. At the bottom, there is a toggle switch labeled "OFFLINE LOGIN", which is currently turned off.

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## Introduction

Matrack ELD solution for Hours Of Service (HOS) is designed and developed according to FMCSA's ELD specification. The Matrack device connects with Engine Control Module (ECM) of the vehicle and retrieves vehicle data including engine, speed, location using engine synchronization and Global Positioning System (GPS). Matrack ELD solution requires two components, an onboard device that connects with ECM and Matrack ELD mobile app. Refer Installation section for device installation.

## Login

Login to the app using valid username and password. User will continue to stay logged in till logout.


- 1 Enter the username and password to login. If you do not have an account, contact fleet manager.


**Important:** Contact your Fleet manager for user credentials.

# Matrack


**SIGN IN**

OFFLINE LOGIN

☰ demodriver1 - No Vehicle 

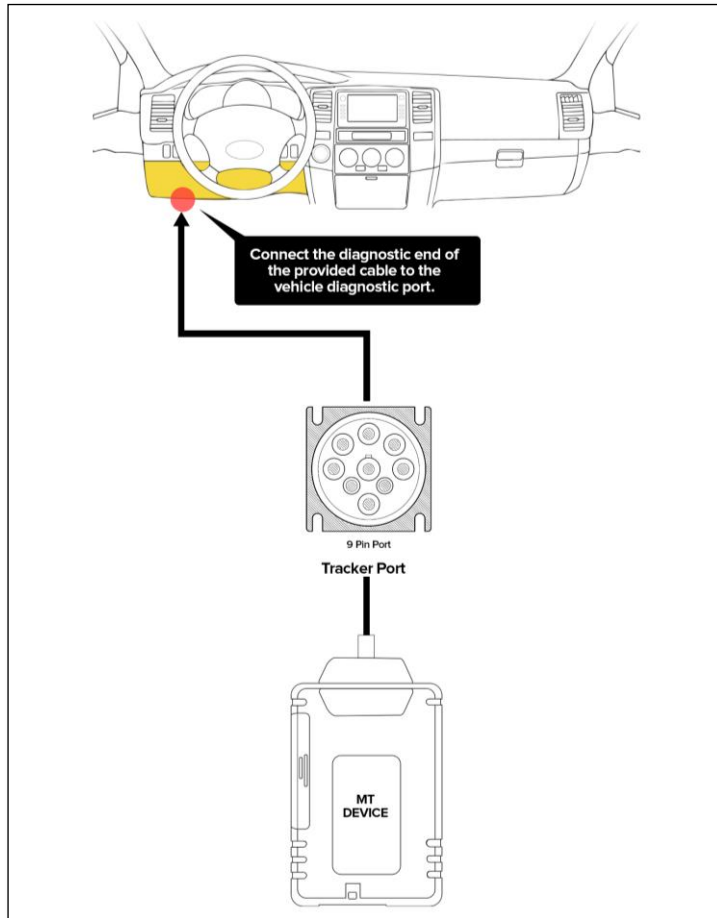


Remaining  
**00:00**  
OFF DUTY  
▼

HOURS OF SERVICE 


<b>DRIVE</b> 11-Hour Driving Limit	<b>11:00</b>
<b>SHIFT</b> 14-Hour Shift Limit	<b>14:00</b>
<b>BREAK</b> 30-min Rest Break	<b>08:00</b>
<b>CYCLE</b> USA 60 /7	<b>60:00</b>

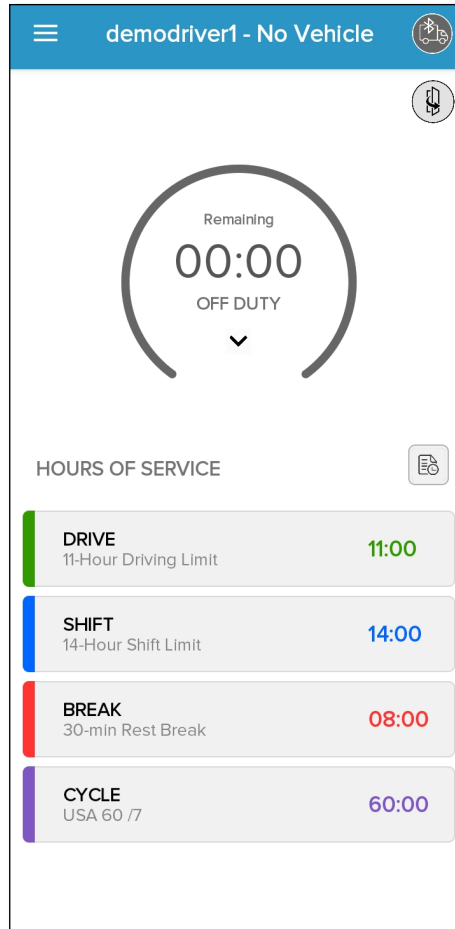
# Installation



- Connect the 9-pin diagnostic end of the provided cable to the vehicle diagnostic port usually found in the vehicle cabin.
  - ❖ Under the dashboard.
  - ❖ Underneath the steering wheel.
  - ❖ Below the driver's seat.
  - ❖ Near the driver's left kick panel.
- Connect the device to the other end of the cable.
- ELD Device will automatically turn on when connected.
- Install Matrack ELD app, login, connect to ELD device via Bluetooth BLE.
- Turn on the ignition
- Device is powered up and start recording hours of service

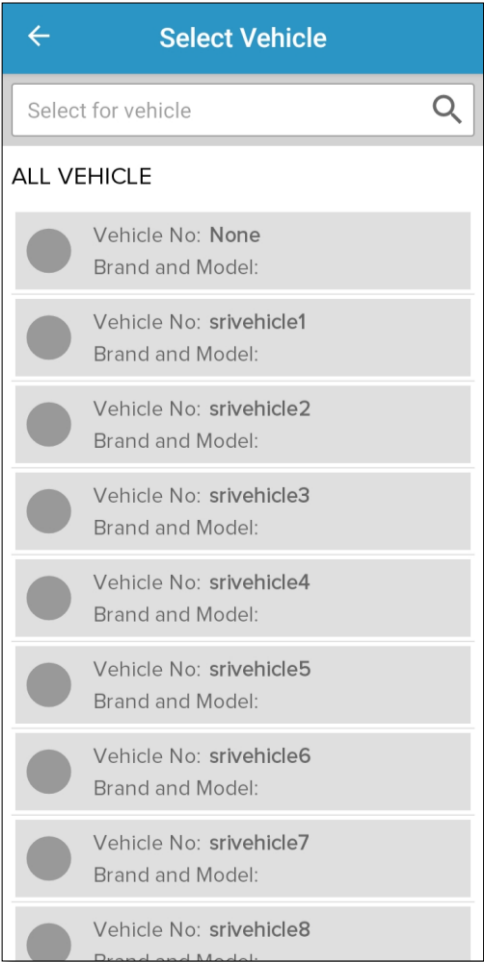
# Login

- 1 Tap on the gray vehicle icon  to choose the vehicle from the list. Logged in username and chosen vehicle will be displayed in the title bar.



2

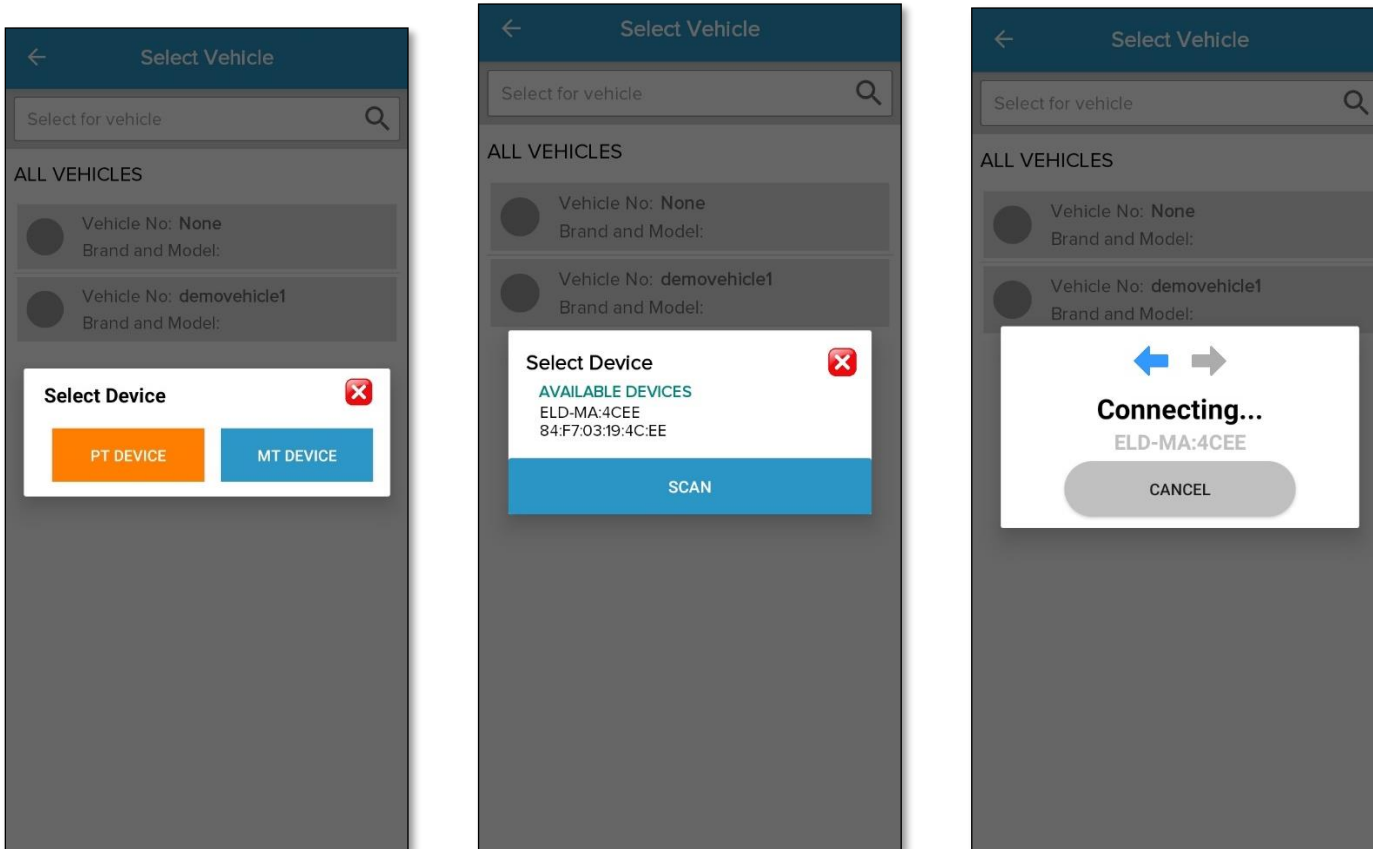
Select a vehicle from the list of vehicles allowed for the driver by the fleet manager.



**Important:** If your vehicle selection list is empty, contact your fleet manager.

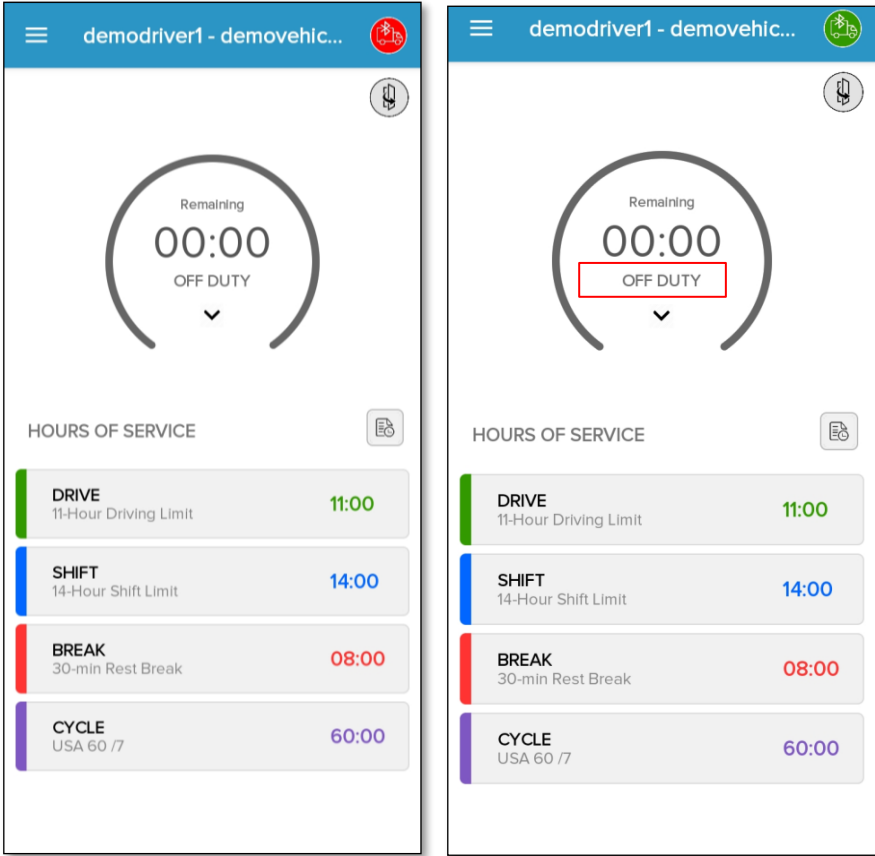


On selecting a vehicle, a pop-up window will be displayed where user can select either Matrack Tracker or Pacific Tracker. On selecting the tracker, nearby available Bluetooth devices will be listed.



4

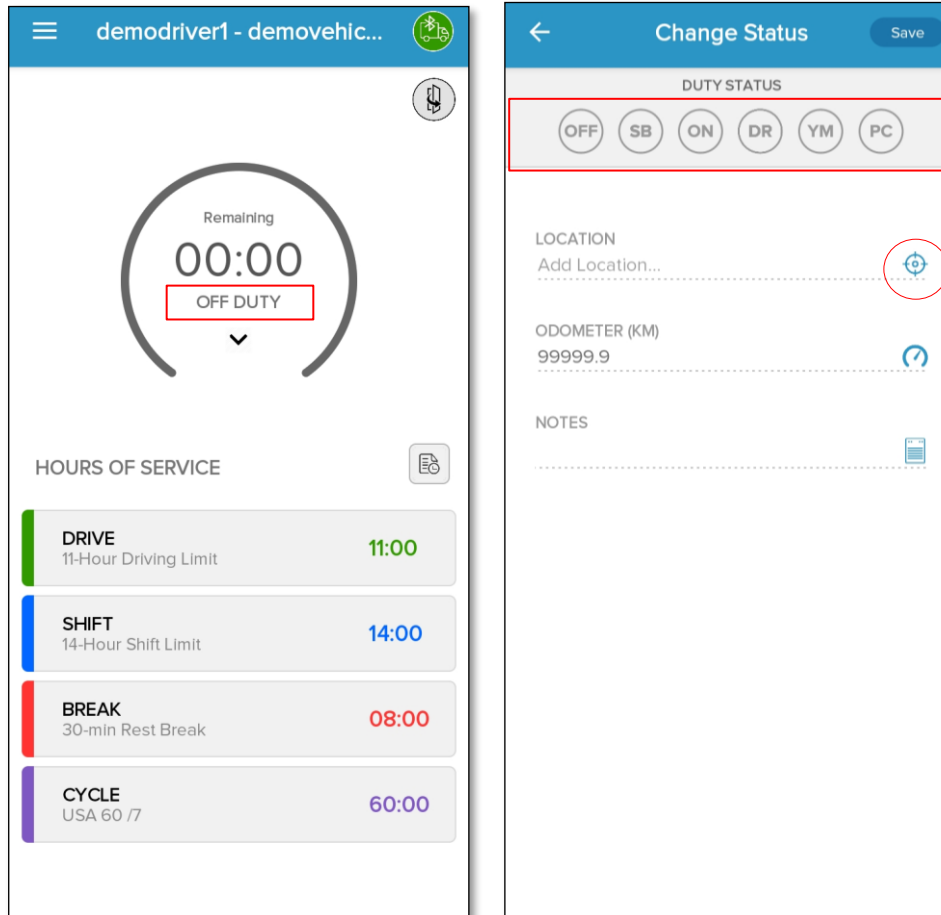
After selecting the vehicle and powering on the connected tracker, the dashboard screen will display the device power status using the vehicle icon. Green vehicle icon indicates powered up state and red vehicle icon indicates powered off state. The current status of the driver will be displayed on the screen.



**Important:** The onboard device records data even when a driver was not associated with the vehicle. Before start driving, it is recommended for drivers to select the vehicle. Otherwise, it will be added to the unidentified driver profile of that vehicle. Driver can claim that later. Unidentified driver profile will be displayed to the drivers associated with that vehicle in the subsequent login.

5

The current status of the driver will be displayed in the middle of the screen inside the circle. The driver status can be changed by clicking the “Current Status”, and it will show change status screen and allow the driver to change status to Off duty, Sleeper Berth, On duty, Driving, Yard Move (YM), and Personal Conveyance (PC). The location and odometer details will be available from ELD devices. Driver also can manually add these details. On tapping the location icon, the current location will be fetched and displayed. The annotation note is mandatory for status PC , YM, Manual Driving. After selecting new status and enter requested details, current status will be changed to selected status upon tapping save button.



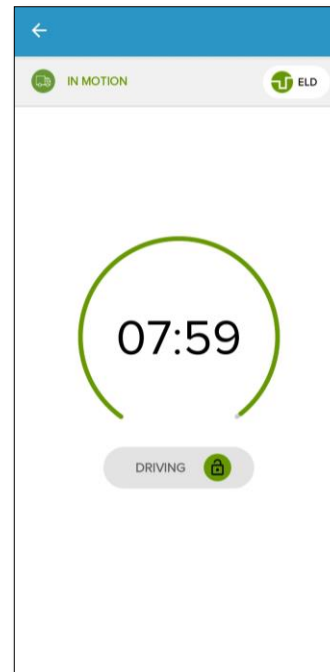
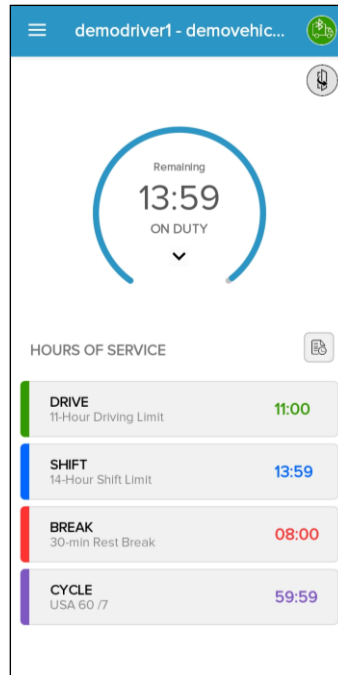
# Hours of Service

After selecting the device, the driving status will be updated automatically.

## Automatic Driving Status

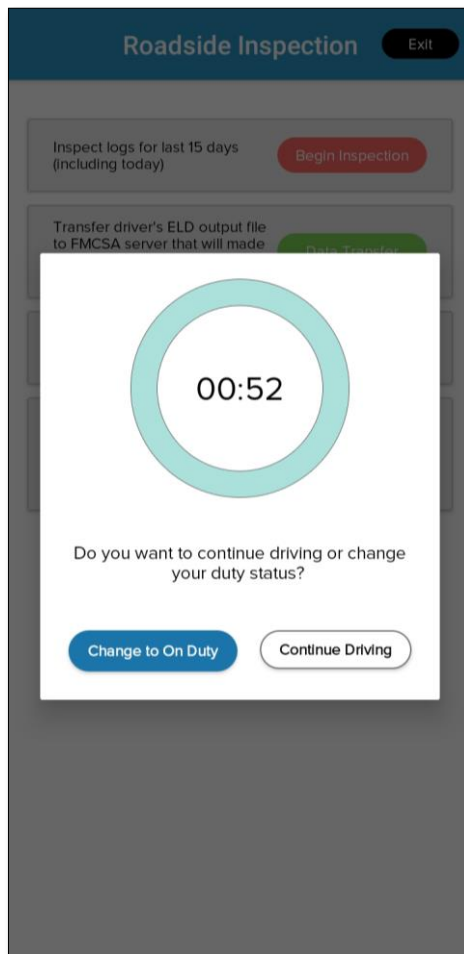
1

When the vehicle starts moving at the speed 5 mph or greater, current status for the driver will automatically change to Driving. It continues to remain Driving when the vehicle is in motion. A driving window will be displayed when speed is 5 mph or greater which will disappear when the speed is 0. On the driving window, the vehicle status will display as motion. Driver cannot make any other operation in the app screen while the vehicle is in motion. During automatic driving event, an intermediate log will be recorded in every one hour when vehicle in motion. Drivers may change the status to off duty and then PC for personal conveyance which will be recorded as personal conveyance in the event record. Drivers may also change the status to YM for yard moves which will be recorded as yard move in cathe event records. Driving window appears during PC and YM when vehicle is moving with the respective driving status.



2

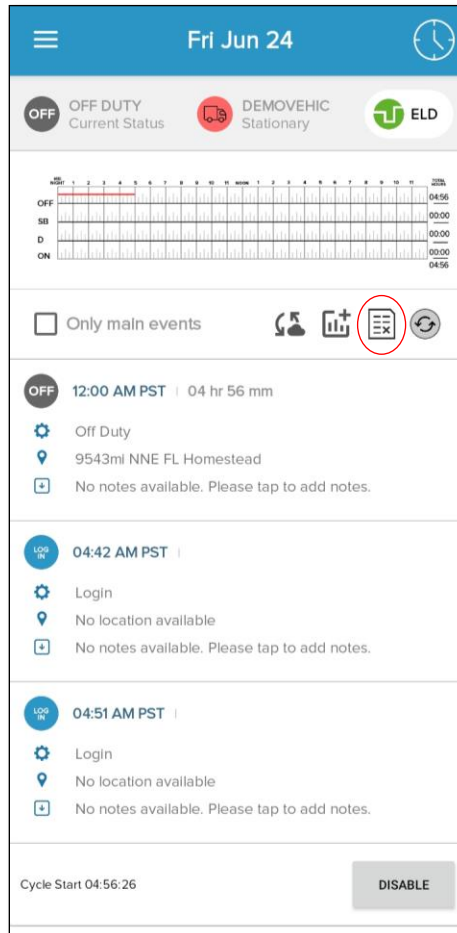
Once the vehicle remains stationary (speed = 0) for 5 minutes, a new screen appears in the app asking, whether you want to change the status. Driver may select continue Driving status or change to different status. If no response was received within 60 seconds, driving status will automatically change to On Duty.



# Certify Log

End of the day or multiple times in the day drivers can certify and sign the logs for the day. Need to re-certify and sign again if the changes were made after initial signing.

- 1 Tap on the Form icon in Logs screen to fill in the form before approving the log.



2

The driver gets the form data displayed on the screen. On tapping form icon from day log screen, General info screen will be displayed with three tabs – Form, signature and review. The form tab has three sub-sections- general, carrier, and codriver. Form data can be edited by tapping the edit icon in each sub-section which would lead to the editable tabs- General, Carrier and Co-driver.

General Info

FORM SIGNATURE REVIEW

GENERAL

CARRIER

CO-DRIVERS

(a) Form screen

General Info

FORM SIGNATURE REVIEW

GENERAL

DRIVER  
test test(ID: 1)

LICENCE  
test12345 AK

VEHICLES  
demovehicle1

VIN ECM  
5TDKK3DCODS403603

VIN DRIVER ENTERED

DISTANCE  
0.0 mi

TRAILER

SHIPPING DOCUMENT

CARGO TYPE  
Property

(b)General section

General Info

FORM SIGNATURE REVIEW

CARRIER

CARRIER NAME  
sri

CARRIER OFFICE ADDRESS  
1200 NEW JERSEY AVENUE  
SE,,WASHINGTON,DC,US,20590

HOME TERMINAL ADDRESS  
1200 NEW JERSEY AVENUE  
SE,WASHINGTON,DC,US,20590

CO-DRIVERS

(c)Carrier section

General Info

FORM SIGNATURE REVIEW

CO-DRIVERS

FIRST NAME  
NA

LAST NAME  
NA

USER NAME  
NA

(d) Co-driver section

Tap on the edit icon in form to edit the details. After editing the details, click on save button to reflect the changes.

← Edit form Save

GENERAL CARRIER CO-DRIVER

Vehicles  
demovehicle1

VIN (ECM)  
5TDKK3DC0DS403603

VIN (User Entered)  
VIN (User Entered)

Distance (mi)  
0.0

Trailers  
Trailers

Shipping Doc  
Shipping Doc

Driver First Name  
test

Driver Last Name  
test

Driver Id  
1

← Carrier Details Save

GENERAL CARRIER CO-DRIV...

US Dot num  
1

Carrier Name  
sri

Main office Address  
1200 NEW JERSEY AVENUE SE,,

City  
WASHINGTON

Zip  
20590

Country  
USA

State  
Dist. of Columbia

same as above

Home Office Address  
1200 NEW JERSEY AVENUE SE

City

← Carrier Details Save

GENERAL CARRIER CO-DRIV...

Co-Driver  
Please select a Co-Driver



4

Add your signature using the signature tab in General info, if not present. Then certify and approve the log using Approve button in review tab.

General Info Save

FORM SIGNATURE REVIEW

Please save your signature below

Clear

General Info Approve

FORM SIGNATURE REVIEW

Matrack DOT INSPECTION, JUN 24

Driver: TEST TEST Cycle: USA 60 HOURS/7 DAYS

Driver ID: 1 VIN: 5TDKK3DC0DS403603(D)

Driver Licence#: TEST12345 Driver Licence State: AK

Start-End Odometer: 62137.04-0.0 MI Start-End Engine Hrs: 3.6-0

View Additional Details +

Sr.	EventID	Time	Status	Location
1	53	00:00:00	Off Duty	9543mi NNE FL

Recap

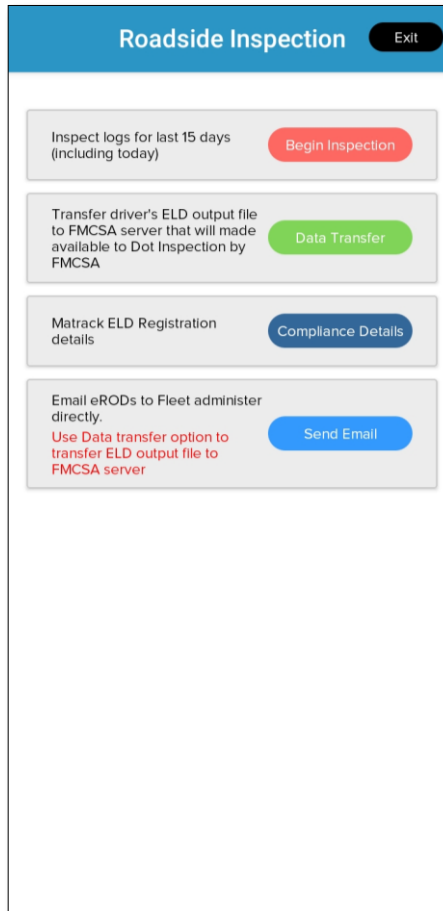
5

Once you tap the Approve button, the “Driver’s Certification” screen appears along with “agree” or “not ready” button. Tap agree button to approve the log. If you tap “not ready”, log are not authenticated by driver and will appear unauthenticated to the concerned authority.



# Roadside Inspection

DOT Inspection screen allows DOT inspectors to view Driver's RODS in the ELD display. The driver's RODS (ELD output file) can be sent to the DOT Inspector upon request as per FMCSA's data transfer requirements. Driver can use either Web service or Secure Email option to transfer ELD output files. FMCSA will make ELD output file available for the DOT inspector. The data transfer form will have a mandatory text field, comment, to enter any data/code provided by the DOT inspector.



1 Tap on the Inspection tab to generate the driver's RODS. The driver can choose the date for which report needs to be displayed. Use date navigator buttons to change date. The "View Additional Details" option displays a popup window with other details.

← DOT Inspection Exit

← Previous 06/24/2022 Next

Driver <b>TEST TEST</b>	Cycle <b>USA 60 HOURS/7 DAYS</b>
Driver ID <b>1</b>	VIN <b>5TDKK3DC0DS403603(D)</b>
Driver Licence# <b>TEST12345</b>	Driver Licence State <b>AK</b>
Start-End Odometer <b>62137.04-0.0 MI</b>	Start-End Engine Hrs <b>3.6-0</b>

View Additional Details +

Event List				
Sr.	EventID	Time	Status	Location
1	53	00:00:00	Off Duty	9543mi NNE FL

Recap				
06/23/22 00:00:00	06/22/22 00:00:00	06/21/22 00:00:00	06/20/22 06:52:19	06/19/22 24:00:00

I certify that these entries are true and correct.

← DOT Inspection Exit

← Previous 06/24/2022 Next

ELD Identifier <b>MAMTA1</b>	ELD Registration Id <b>5JQ9</b>
Distance <b>.0 MI</b>	Timezone <b>PST</b>
Carrier <b>FEDERAL MOTOR CARRIER SAFETY ADMINISTRATION</b>	Restart hours <b>34</b>
Vehicle <b>DEMOVEHICLE1</b>	Trailer
Co-driver Username	Co-Driver Name <b>NA</b>
Shipping Doc No	Hours available in cycle <b>42:15:36</b>
Cycle Start <b>06/24/2022 06:15:36</b>	Hours worked <b>17:44:24</b>
Cargo Type <b>PROPERTY CARRYING</b>	Main Office Address <b>1200 NEW JERSEY AVENUE SE, WASHINGTON, DC, US, 20590</b>

Sr.	EventID	Time	Status	Location
1	53	00:00:00	Off Duty	9543mi NNE FL
2	8	06:15:36	YM	Kochi, Kera

Recap				
06/23/22 00:00:00	06/22/22 00:00:00	06/21/22 00:00:00	06/20/22 06:52:19	06/19/22 24:00:00

# Data Transfer

ELD output files can be transferred to the concerned authorities using ELD's Data Transfer Feature. Matrack ELD supports FMCSA's Option-1 Telematics for data transfer. Driver can select either Web Service or Email option for data transfer. During road side inspection, DOT Inspector may provide mandatory text to be sent along with ELD output file. Enter the mandatory text in the comments.

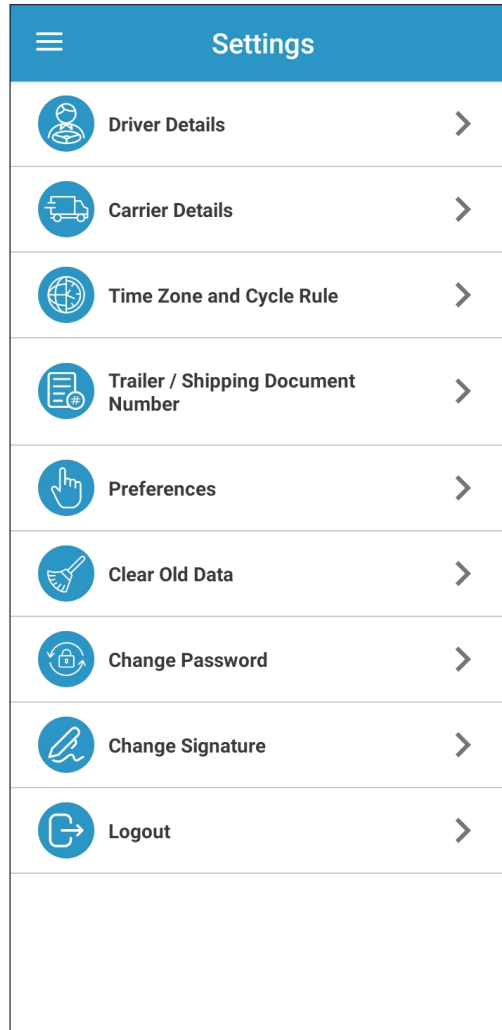
- 1 Select Data transfer option in the Dot Inspection to initiate Date transfer to FMCSA using Web Service or Secure Email.

The screenshot shows a mobile application interface for 'Data Transfer'. At the top, there is a blue header with a hamburger menu icon on the left, the title 'Data Transfer' in the center, and a 'Submit' button on the right. Below the header is a white box containing instructional text: 'Matrack ELD uses FMCSA's Telematics Data transfer option. Please enter optional comments (provided by Dot inspection), select mode of transfer. For secure email, enter return email address to receive submission status directly from FMCSA.' Below this box is a 'Comments' label followed by a large empty text input area. Underneath is the 'Mode' section with two radio buttons: 'Web Service' (which is selected) and 'Secure Email'. The bottom of the form is empty.

The screenshot shows the same 'Data Transfer' form as the previous one, but with the 'Secure Email' radio button selected. Additionally, there is a 'Return confirmation email' label followed by a text input field, which is present in this version but not in the previous one. The rest of the interface, including the header and instructional text, remains the same.

## Driver Profile Settings

Settings allow the driver to view/ edit the driver details, carrier details, time zone and cycle rule and preferences. The driver can reset password from the settings page.



1 Tap driver details option in settings screen in order to see the driver details. Tapping the edit option in driver details screen will enable the edit screen and driver can enter/edit driver name, license number, dot number, email and phone number.

← Driver Details Edit

First Name  
demo

Last Name  
driver

Driver ID (unique within the carrier)  
364

Driver Licence Number  
12354

Driver Licence State  
CA

Email  
testdevel@gmail.com

Phone Number  
1234567890

← Edit Driver Details Save

First Name  
demo

Last Name  
driver

Driver ID (unique within the carrier)  
364

Driver Licence Number  
12354

Driver Licence State  
CA

Email  
testdevel@gmail.com

Phone Number  
1234567890

Exempt Driver

2

Tap carrier details option in settings screen in order to see the carrier details. Tapping the edit option in carrier details screen will enable the edit screen and driver can enter/edit carrier name, office and home terminal address.

← Edit Carrier Details Save

US Dot num  
1

Carrier Name  
demo

Main office Address  
1200 NEW JERSEY AVENUE SE,,

City  
WASHINGTON

Zip  
20590

Country  
USA

State  
Dist. of Columbia

same as above

Home Office Address  
1200 NEW JERSEY AVENUE SE

City  
WASHINGTON

→

← Carrier Details Edit

US DOT Number  
1

Carrier Name  
demo

Main Office Address  
1200 NEW JERSEY AVENUE SE,,

WASHINGTON

DC , 20590 , US

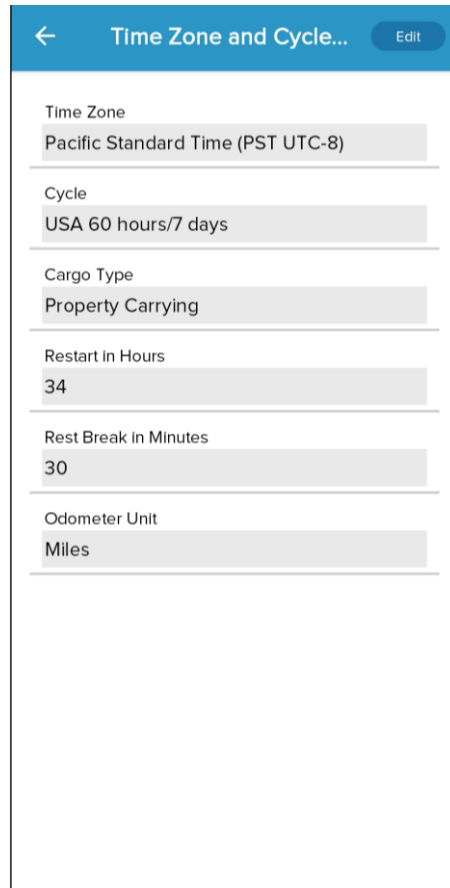
Home Office Address  
1200 NEW JERSEY AVENUE SE

WASHINGTON

DC , 20590 , US



Tap time zone and cycle rule option in settings screen in order to see the time zone and cycle details. Tapping the edit option in time zone and cycle details screen will enable the edit screen and driver can enter /edit time zone, cycle, cargo type, restart hours, rest break mins.



← Time Zone and Cycle... Edit

Time Zone  
Pacific Standard Time (PST UTC-8)

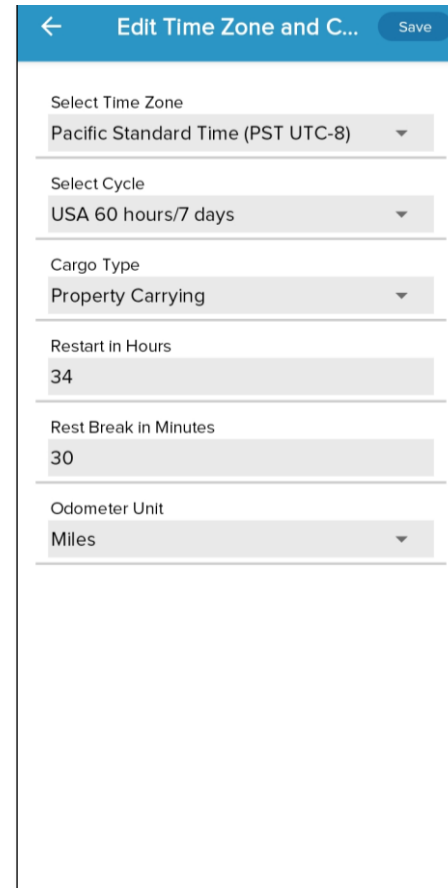
Cycle  
USA 60 hours/7 days

Cargo Type  
Property Carrying

Restart in Hours  
34

Rest Break in Minutes  
30

Odometer Unit  
Miles



← Edit Time Zone and C... Save

Select Time Zone  
Pacific Standard Time (PST UTC-8)

Select Cycle  
USA 60 hours/7 days

Cargo Type  
Property Carrying

Restart in Hours  
34

Rest Break in Minutes  
30

Odometer Unit  
Miles

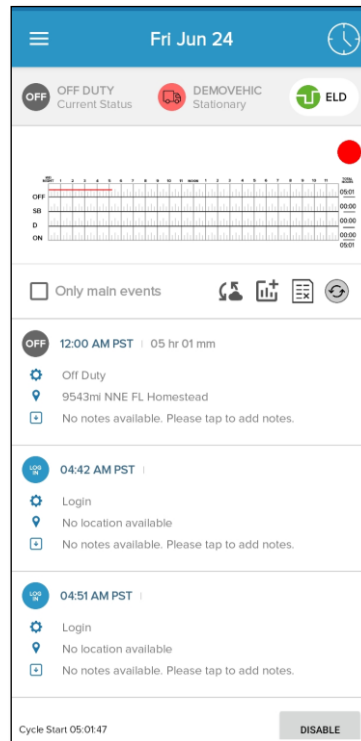
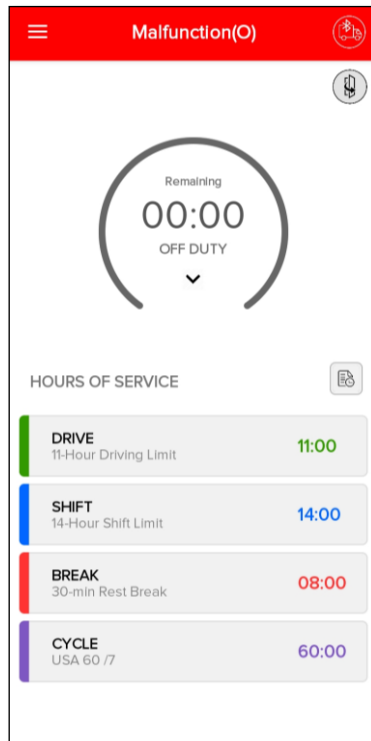
5

Reset the password.

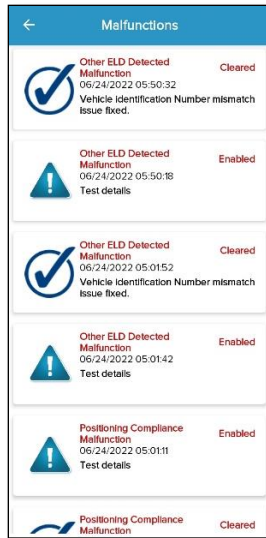
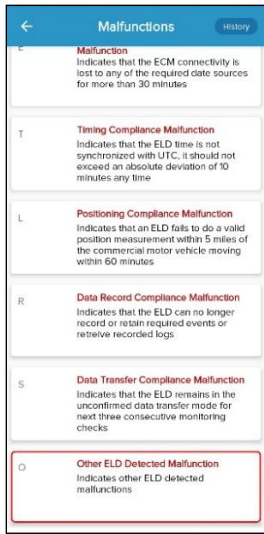
The image shows a mobile application interface for changing a password. At the top, there is a blue header bar with a white back arrow on the left, the text "Change Password" in the center, and a "Save" button on the right. Below the header, there are three input fields, each with a label above it and a light gray rectangular input area below. The first field is labeled "Old Password". The second field is labeled "New Password". The third field is labeled "Confirm New Password" and has a small blue vertical bar at the beginning of its input area. The rest of the screen is white and empty.

# Device Malfunction

Malfunction and diagnostics events of the ELD device were visually indicated in the ELD display. Malfunction was indicated with red banner instead of regular blue banner in the logs screen and red dot on the top right for all other screens. When a malfunction was found during the diagnostic event, the banner in the log screen will turn to red color with a text “Malfunction” including the malfunction code in parenthesis. For instance, Malfunction(P). The values of malfunction code contain values ‘P’, ‘E’, ‘T’, ‘L’, ‘R’, ‘S’, or ‘O’ as per FMCSA requirement. When clicked on the malfunction banner, it will take the driver to malfunction screen where additional details about the malfunction with malfunction code description highlighted. In the event of malfunction, drivers are required to maintain Driver’s Daily Logs manually and report about the malfunction to the carrier within 24 hours. The problem should be resolved within 8 days. Contact your fleet manager and Matrack customer support for assistance. Customer support details are available at the end of this document and in app’s Help and Support screen.



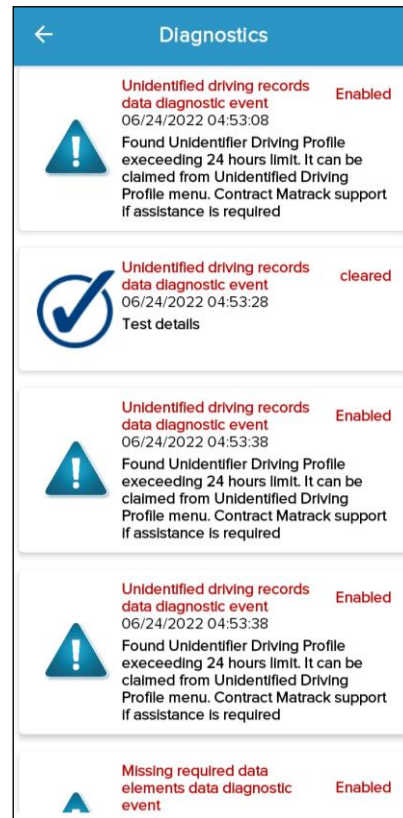
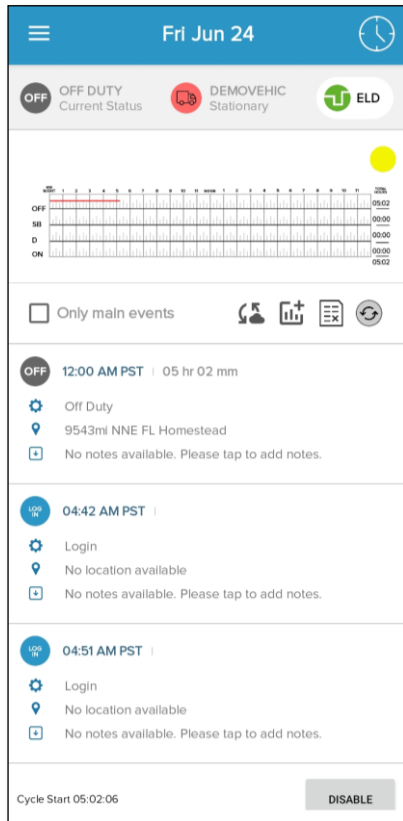
**Important:** Tap on the red banner for additional details about the malfunction. The malfunction screen will display the malfunction code and highlight the malfunction description.



Sl.No.	Malfunction Code	Malfunction Description
1	P	Power compliance malfunction
2	E	Engine synchronization compliance malfunction
3	T	Timing compliance malfunction
4	L	Positioning compliance malfunction
5	R	Data recording compliance malfunction
6	S	Data transfer compliance malfunction
7	O	Other ELD detected malfunction

# Device Diagnostics

Matrack ELD software monitors power, engine synchronization, missing data and various internal data diagnostics periodically. During the diagnostics checks, visual indication is displayed in the ELD display. When a diagnostics event was found during the diagnostic check, the yellow dot will be displayed in all screen in right top corner. When clicked on the diagnostics event yellow dot, it will take the driver to diagnostics details screen where additional details about the diagnostics event will be displayed.



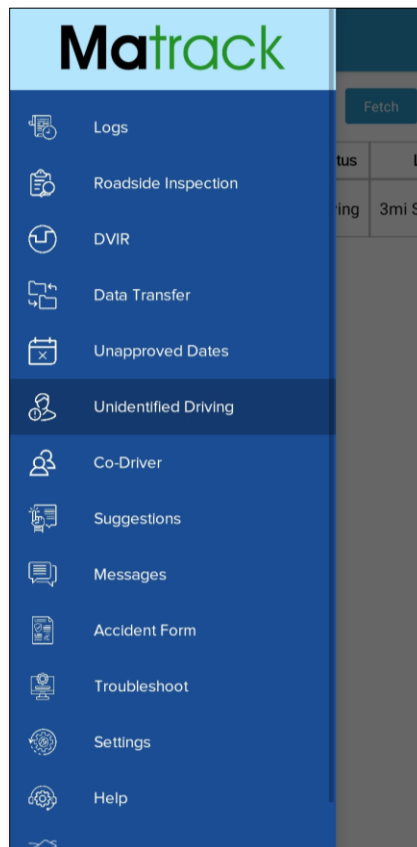
**Important:** Tap on the yellow dot for additional details about the diagnostic event. The diagnostic event screen will display the diagnostics details.

<b>Sl.No</b>	<b>Diagnostic Code</b>	<b>Data Diagnostic Event</b>
<b>1</b>	1	Power data diagnostic event
<b>2</b>	2	Engine synchronization data diagnostic event
<b>3</b>	3	Missing required data elements data diagnostic event
<b>4</b>	4	Data transfer data diagnostic event
<b>5</b>	5	Unidentified driving records data diagnostic event
<b>6</b>	6	Other ELD identified diagnostic event

# Unidentified Driving Profile

DOT regulations require all the ELD Driving events in the ELD should be assigned to the drivers. If the vehicle is in motion and no driver was connected to the ELD then it will be recorded under Unidentified Driving events that can be claimed by the drivers later. The Unidentified driving events will be displayed to all drivers of that ELD after the login. Driver can view/claim Unidentified driving events selecting Unidentified driving icon in the home screen.

- 1 Tap on Unidentified driving option in the side menu to view/claim Unidentified driving events.



2

The driver can view /claim the driving events from this screen. Tapping claim button will display the popup to enter missing details.

The screenshot shows the 'Unidentified Driving' screen with a blue header. Below the header are two date range selectors: '06/09/2022' and '06/24/2022', and a 'Fetch' button. The main content is a table with the following data:

Sr.	EventID	Time	Status	
1	38	06/15/2022 08:56:09	Driving	9543m
2	3A	06/22/2022 18:07:39	Driving	9543m
3	39	06/23/2022 14:06:09	Driving	9543m

This screenshot is identical to the first one, but the 'Claim' button in the third row of the table is highlighted in blue, indicating it has been selected.

This screenshot shows the 'Unidentified Driving' screen with an 'Add Missing Details' popup overlaid. The popup has a blue header and contains the following fields:

- Location:** 9543mi NNE FL Homestead \*
- Vehicle:** demovehicle1
- Notes:** Please add notes..

At the bottom of the popup are 'Cancel' and 'Save' buttons.



# Customer Support

If you have any queries, reach to the following mail: "support.gps@matrackinc.com". Drivers can reach customer support using App's Help and Support screen.

