

Hours of Service

Getting started with Matrack ELD

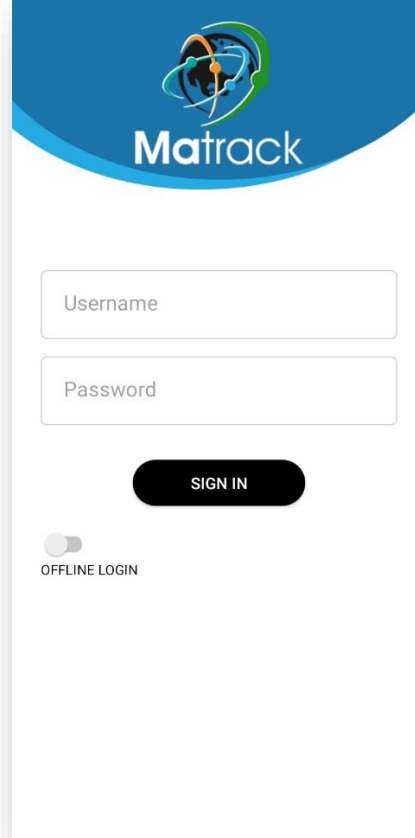
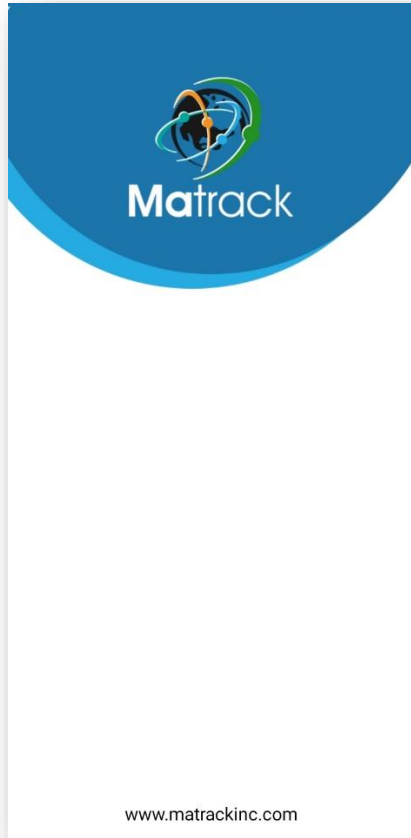


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Introduction

Matrack ELD solution for Hours Of Service was 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 Appendix section for device installation.

Login

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



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



Logs



OFF OFF DUTY
Current Status

NO VEHICLE

ELD

demodriver

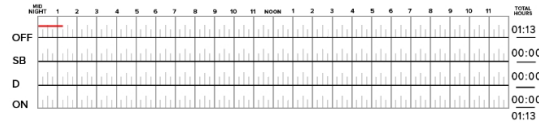
TODAY

MONDAY FEB 14

00hr 00 min

No DVIR

USA 60 hours/7 days



SUNDAY FEB 13

00hr 00 min

No DVIR

SATURDAY FEB 12

00hr 00 min

No DVIR

FRIDAY FEB 11

00hr 00 min

No DVIR

THURSDAY FEB 10

00hr 00 min

No DVIR

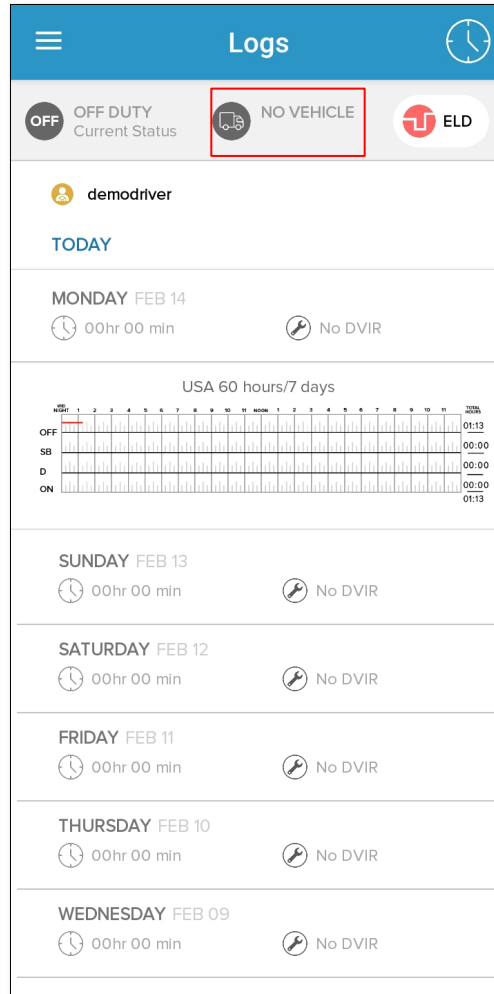
WEDNESDAY FEB 09

00hr 00 min

No DVIR

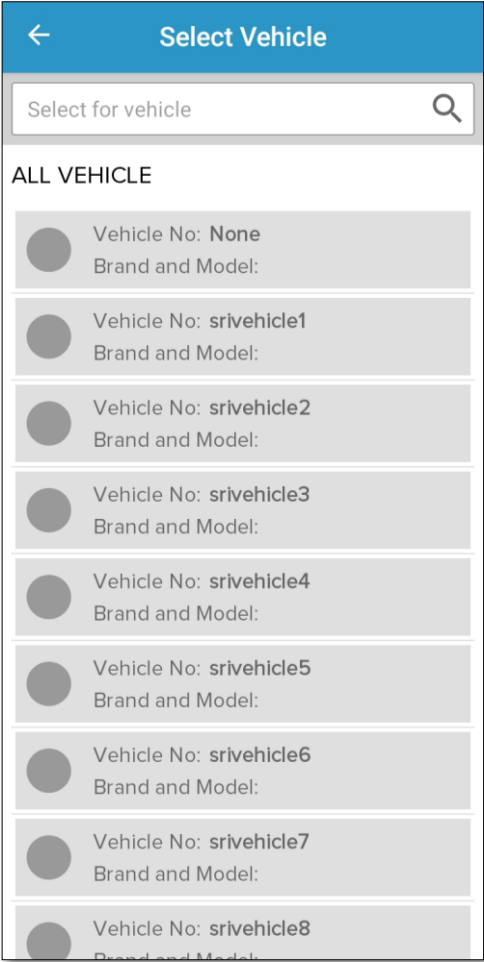
After Login

1 After login, the logs screen will be displayed. Tap on the  to choose the vehicle from the list. Chosen vehicle will be set.



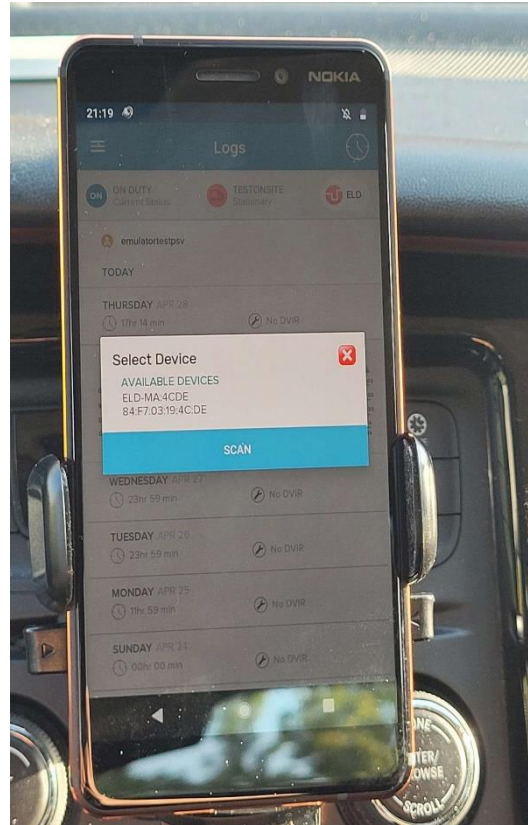
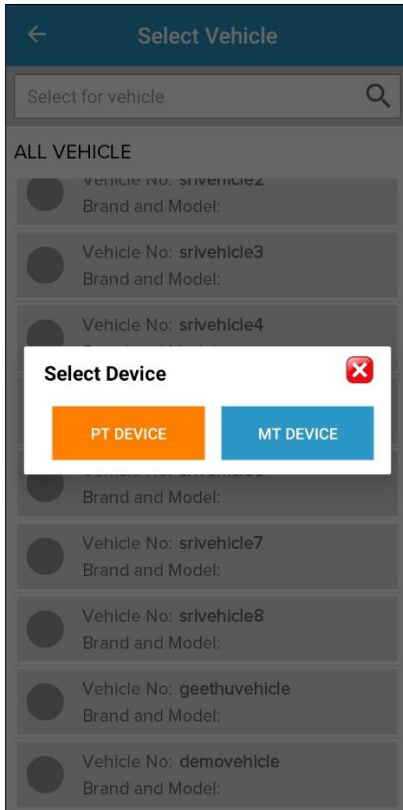
2

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

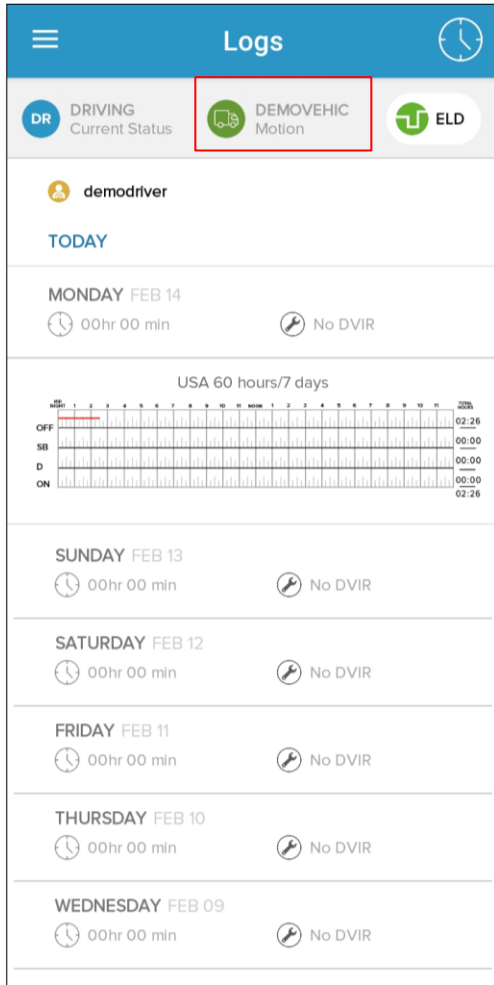


Important: If your vehicle selection list is empty, contact your fleet manager.

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.

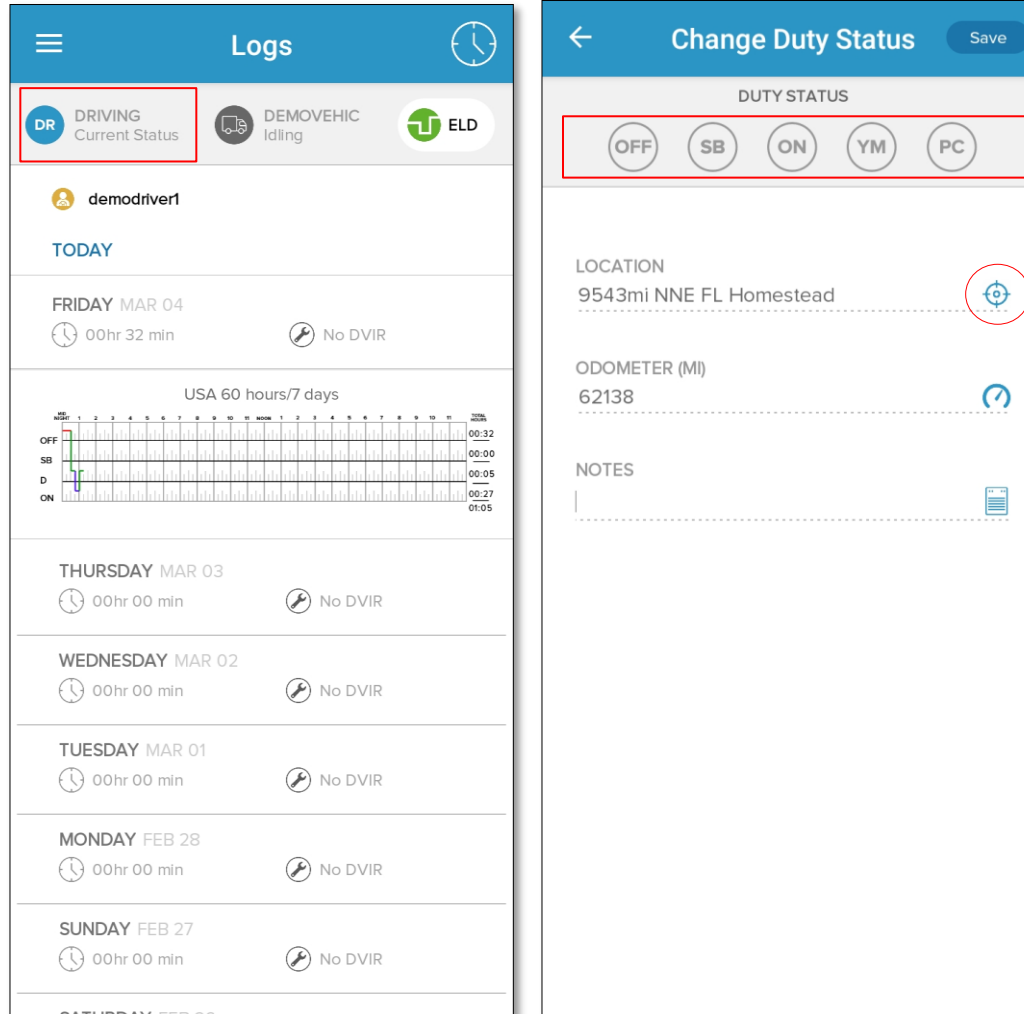


The current status of the vehicle will be displayed on the screen.



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.

The current status of the driver will be displayed on left top the screen. The driver status can be changed by clicking the “Current Status” section, and it will show a screen to change the current status to Off duty, Sleeper Berth, On duty, Yard Move, and Personal Conveyance. 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 comment for changing status is mandatory the status PC and YM. After entering details and selecting the status, the current status will be changed to selected status upon tapping save button.



Power On

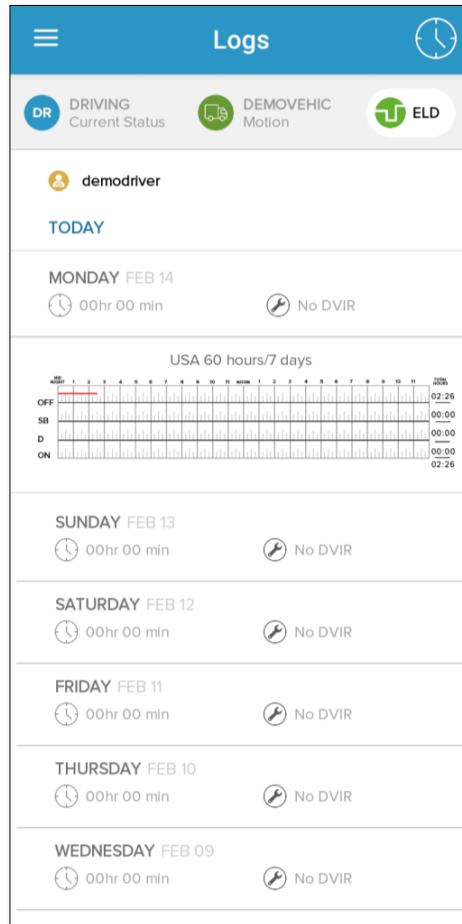
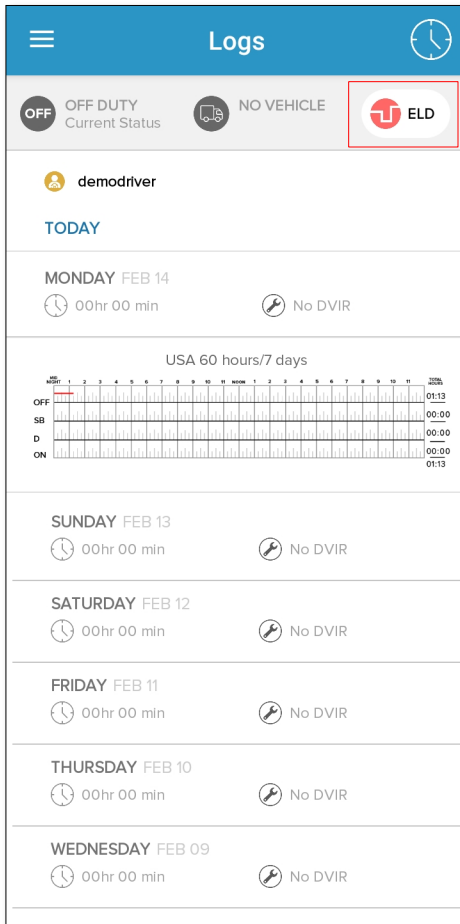
Matrack ELD device


When the Matrack ELD device is fully powered up, blue and green LEDs will blink in different time period. Refer appendix section for the ELD device installation in the vehicle.



Matrack ELD App

In the Matrack ELD app, select a vehicle from the list of vehicles available under current vehicle drop down menu. Selected vehicle ELD will be connected from the Matrack ELD app. The Matrack ELD app will display the device power up state in the logs screen. The power state will be displayed next to the selected vehicle. Green ignition icon indicates powered up state and red ignition icon indicates powered off state.

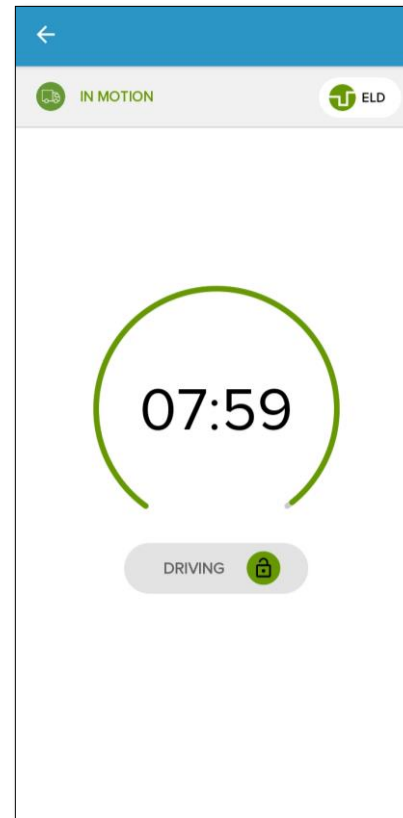
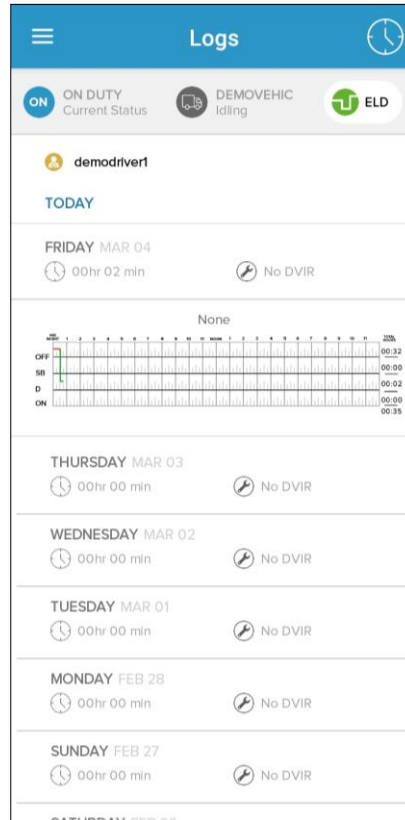


Important: Tap on  to select a vehicle from the list of vehicles available under current vehicle drop down menu.

Hours of Service

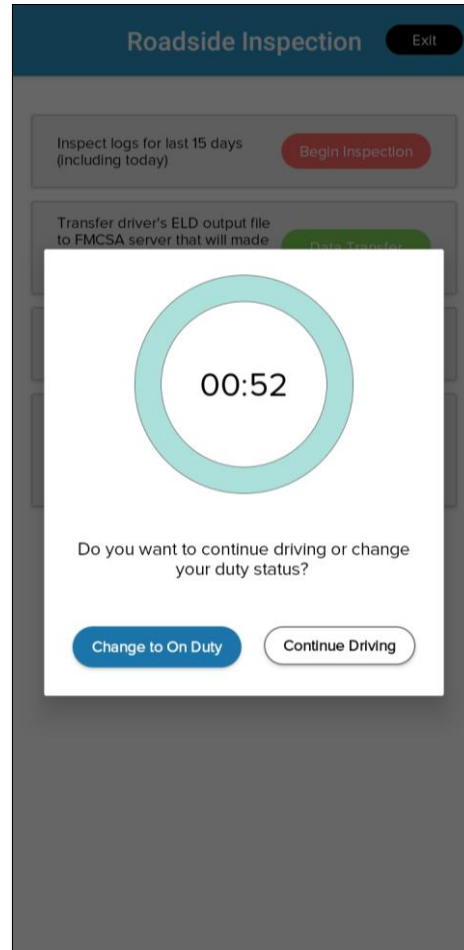
After selecting the device, the driving status will be updated automatically.

- 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. Vehicle state will display vehicle status as motion and a driving window will be displayed when speed is 5 mph or greater which will disappear and vehicle status will display as stationary when the speed is 0. Driver cannot make any other operation in the app screen while the vehicle is in motion. Drivers may change the status to Off Duty for personal conveyance which will be recorded as personal conveyance in the event record. Drivers may also change the status to On Duty for yard moves which will be recorded as yard move the event records.



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.

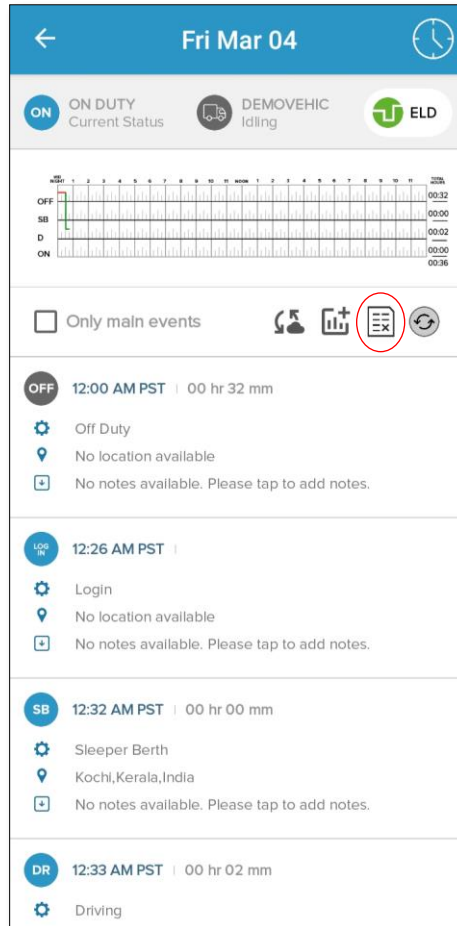


Certify and Sign the Day's Log

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 to past date after initial signing.

1

Tap on the Form icon in Data per Day page to fill in the form before approving the log.



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
demo driver(ID: 364)

LICENCE
12354 CA

VEHICLES
demovehicle

VIN ECM
3C6UR5CJ7EG296315

VIN DRIVER ENTERED

DISTANCE
0.0 km

TRAILER

SHIPPING DOCUMENT

CARGO TYPE
Property

(b)General section

General Info

FORM SIGNATURE REVIEW

GENERAL

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

GENERAL

CARRIER

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-DRIV...

Vehicles
demovehicle

VIN (ECM)
3CGUR5CJ7EG296315

VIN (User Entered)
VIN (User Entered)

Distance (km)
0.0

Trailers
Trailers

Shipping Doc
Shipping Doc

Driver First Name
demo

Driver Last Name
driver

Driver Id
364

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

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

DOT INSPECTION, FEB 15

Driver DEMO DRIVER	Cycle USA 60 HOURS/7 DAYS
Driver ID 364	VIN 3C6UR5CJ7EG296315(A)
Driver Licence# 12354	Driver Licence State CA
Start-End Odometer 3002-3002 MI	Start-End Engine Hrs 2001-2001

View Additional Details

Event List

Sr.	EventID	Time	Status	Location	Vel
1	2B	00:00:00	Driving	NA	demo'

Recap

02/11/23 02/12/23 02/13/23 02/14/23 02/15/23

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”, your logs are not authenticated by driver and will appear unauthenticated to the concerned authority.



← Approve eRODs for 02/14...

SECTION A
Great, no errors found. Proceed with signing.

SECTION B
Edited/Annotated events

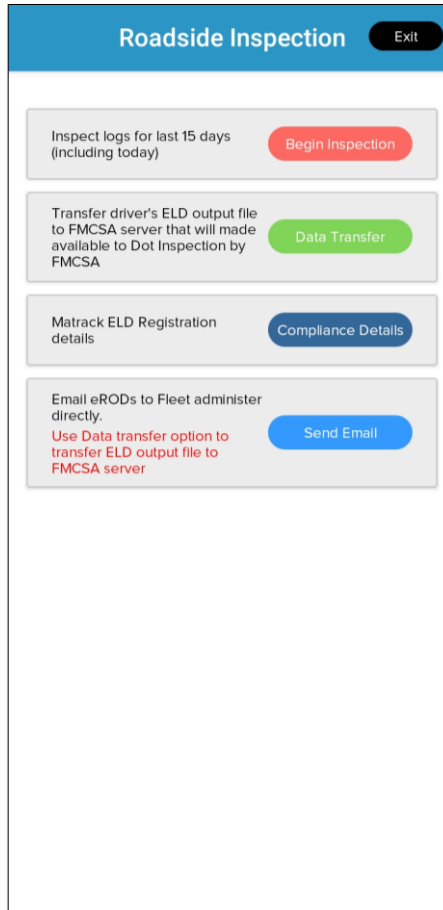
Reminder
*Don't forget to add Pre-trip and Post-trip On duty status.

Driver's Certification of Own Records
I hereby certify that my data entries and my record of duty status for this 24-hour period are true and correct.

NOT READY AGREE

DOT 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 **02/15/2022**

Driver DEMO DRIVER	Cycle USA 60 HOURS/7 DAYS
Driver ID 364	VIN 3C6UR5CJ7EG296315(A)
Driver Licence# 12354	Driver Licence State CA
Start-End Odometer 3002-3002 MI	Start-End Engine Hrs 2001-2001

View Additional Details **+**

Event List

Sr.	EventID	Time	Status	Location	Vel
1	2B	00:00:00	Driving	NA	demo

Recap

02/14/22 21:32:26	02/13/22 00:00:00	02/12/22 00:00:00	02/11/22 00:00:00	02/10/22 00:00:00
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I certify that these entries are true and correct.

DOT Inspection [Exit]

← Previous **02/15/2022**

View Additional Details [X]

ELD Identifier MAPTA1	ELD Registration Id 50LW
Distance 0.0 KM	Timezone PST
Carrier SRI	Restart hours 34
Vehicle DEMOVEHICLE	Trailer
Co-driver Username	Co-Driver Name NA
Shipping Doc No	Hours available in cycle 35:11:48
Cycle Start 02/14/2022 02:26:55	Hours worked 03:15:45
Cargo Type PROPERTY CARRYING	Main Office Address 1200 NEW JERSEY AVENUE SE., WASHINGTON, DC, US, 20590

Event List

Sr.	EventID	Time	Status	Location	Vel
1	2B	00:00:00	Driving	NA	demo

Recap

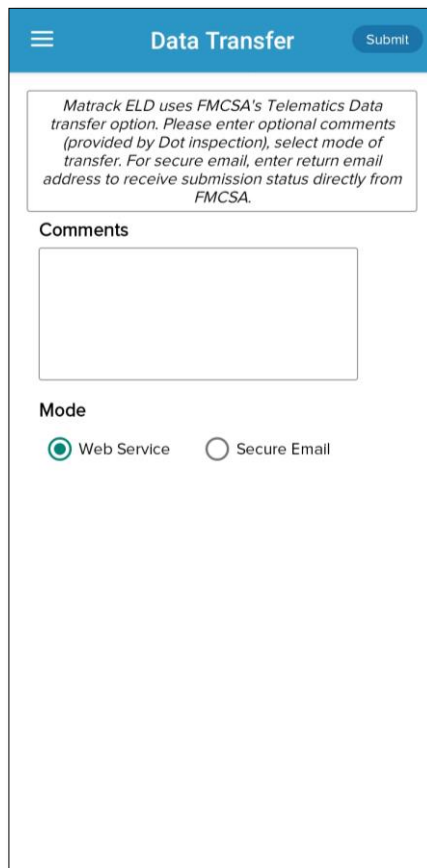
02/14/22 21:32:26	02/13/22 00:00:00	02/12/22 00:00:00	02/11/22 00:00:00	02/10/22 00:00:00
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I certify that these entries are true and correct.

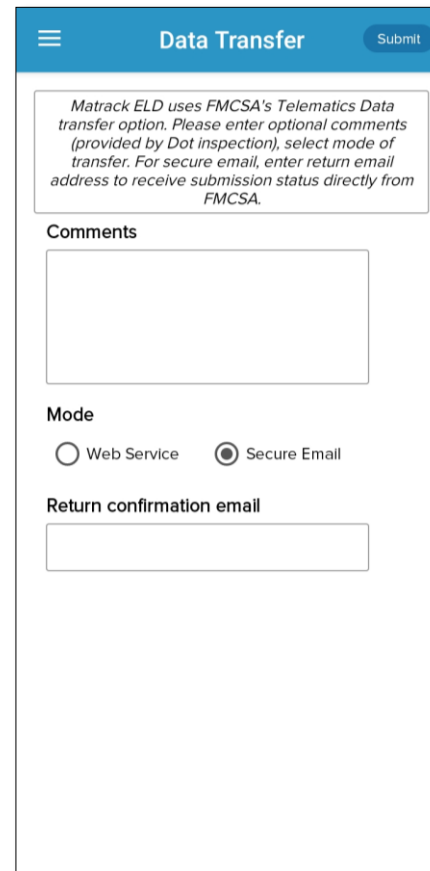
Data Transfer

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.



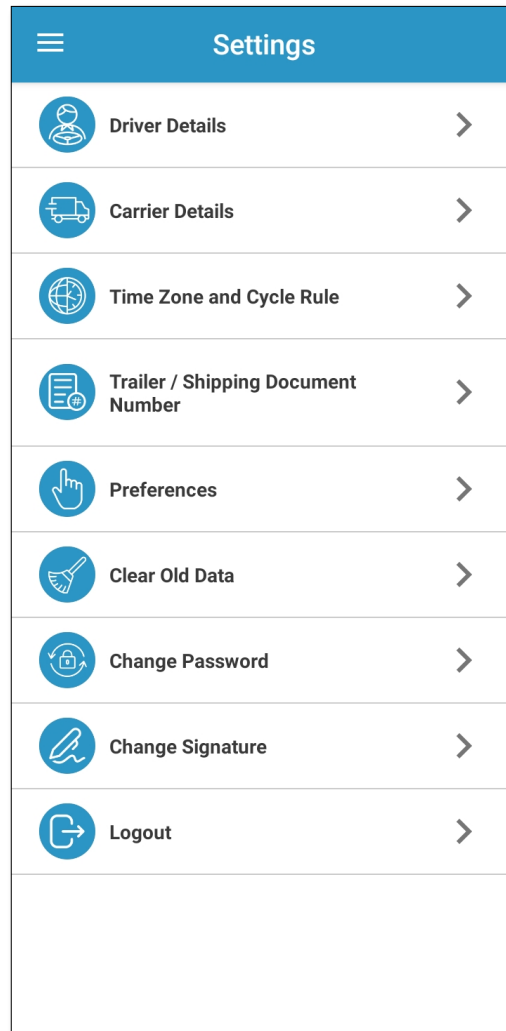
The screenshot shows the 'Data Transfer' form with a blue header containing a menu icon, the title 'Data Transfer', and a 'Submit' button. Below the header is a text box with the following instruction: 'Matrack ELD uses FMCSA's Telematics Data transfer option. Please enter optional comments (provided by Dot inspection), select mode of transfer. For secure email, enter return email address to receive submission status directly from FMCSA.' Below this is a 'Comments' section with a large text input field. Underneath is the 'Mode' section with two radio buttons: 'Web Service' (which is selected) and 'Secure Email'.



The screenshot shows the 'Data Transfer' form with a blue header containing a menu icon, the title 'Data Transfer', and a 'Submit' button. Below the header is a text box with the following instruction: '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 is a 'Comments' section with a large text input field. Underneath is the 'Mode' section with two radio buttons: 'Web Service' and 'Secure Email' (which is selected). At the bottom of the form is a 'Return confirmation email' section with a text input field.

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

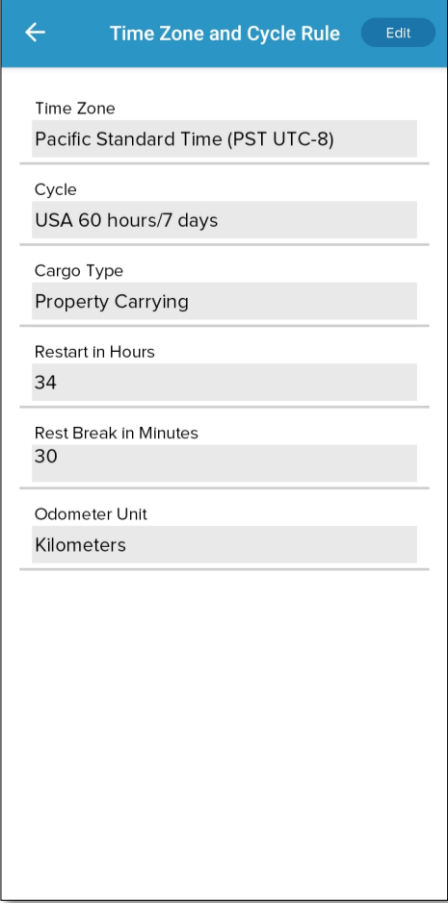
US DOT Number
1

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 Rule Edit

Time Zone
Pacific Standard Time (PST UTC-8)

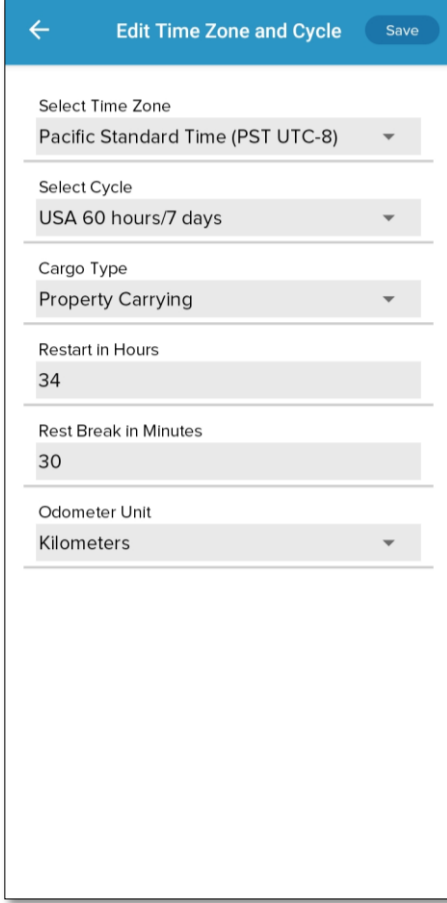
Cycle
USA 60 hours/7 days

Cargo Type
Property Carrying

Restart in Hours
34

Rest Break in Minutes
30

Odometer Unit
Kilometers



← Edit Time Zone and Cycle Save

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

Select Cycle
USA 60 hours/7 days ▼

Cargo Type
Property Carrying ▼

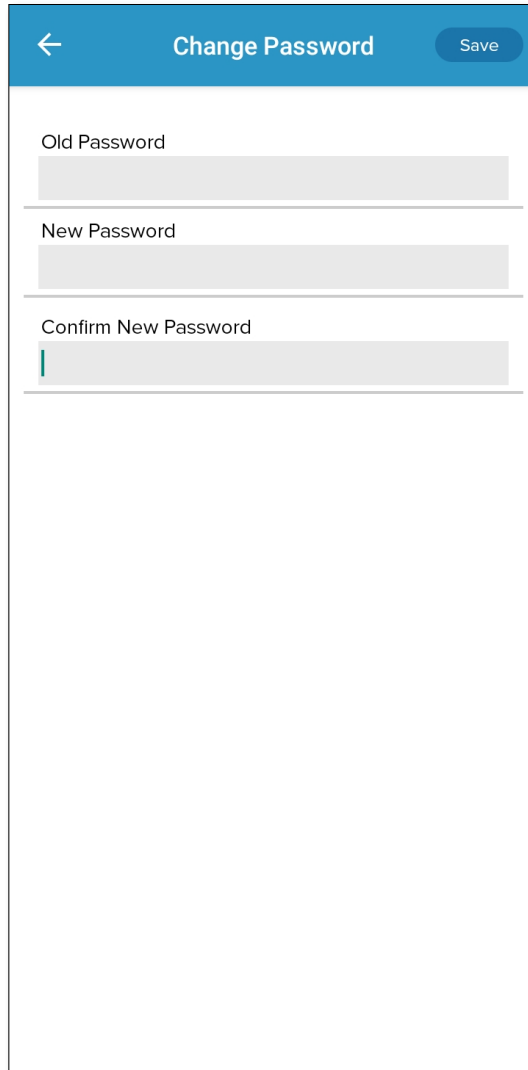
Restart in Hours
34

Rest Break in Minutes
30

Odometer Unit
Kilometers ▼

5

Reset the password.



A mobile application screen titled "Change Password". The screen has a blue header bar with a back arrow on the left, the title "Change Password" in the center, and a "Save" button on the right. Below the header, there are three input fields, each with a label and a grey placeholder box. The first field is labeled "Old Password", the second "New Password", and the third "Confirm New Password". The "Confirm New Password" field has a small green vertical bar on its left side, indicating it is the active field.

← Change Password Save

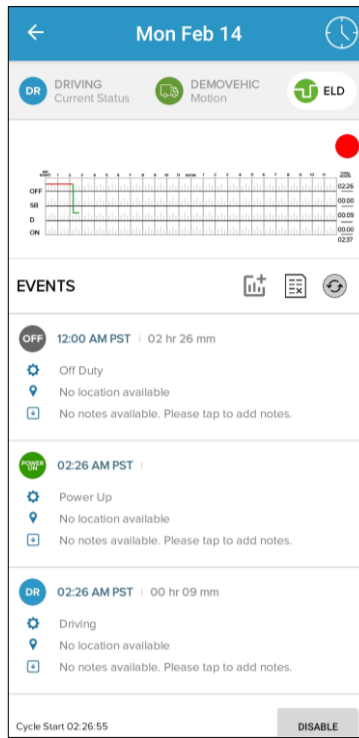
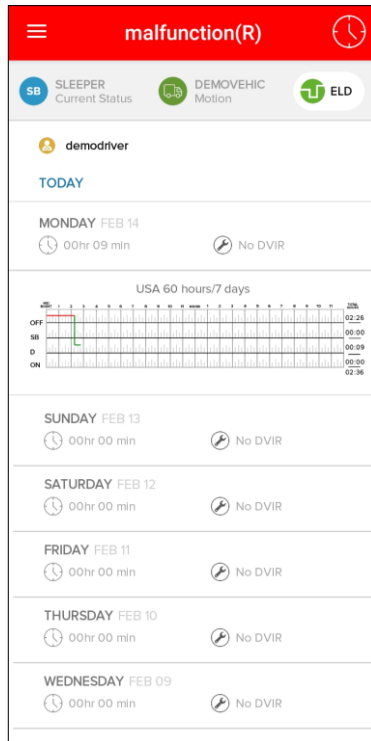
Old Password

New Password

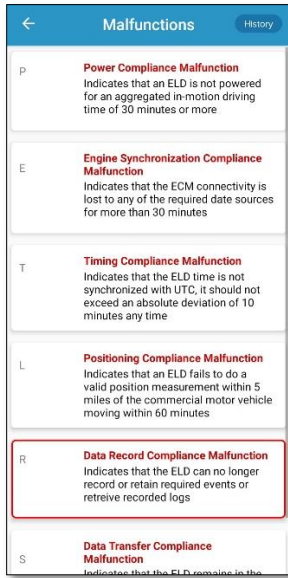
Confirm New Password

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.



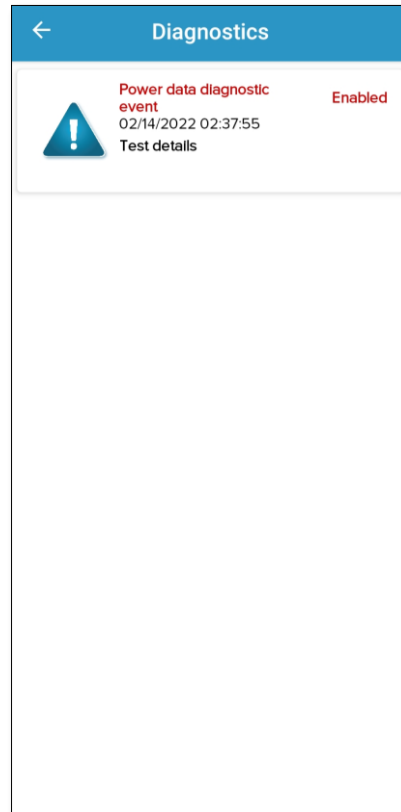
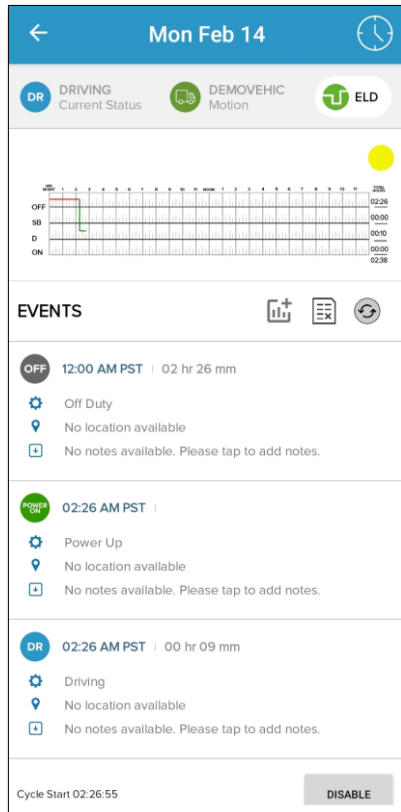
Important: Tap on the red banner for additional details about the malfunction. The malfunction screen will display the malfunction code and highlight the malfunction description.



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.



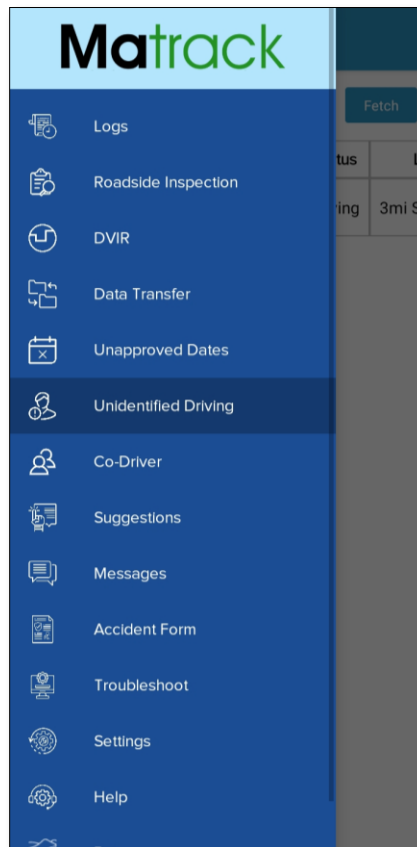
Important: Tap on the yellow dot for additional details about the diagnostic event. The diagnostic event screen will display the diagnostics details.

Sl.No	Diagnostic Code	Data Diagnostic Event
1	1	Power data diagnostic event
2	2	Engine synchronization data diagnostic event
3	3	Missing required data elements data diagnostic event
4	4	Data transfer data diagnostic event
5	5	Unidentified driving records data diagnostic event
6	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' app interface. At the top, there is a blue header with a menu icon and the title 'Unidentified Driving'. Below the header, there are two date pickers for '01/30/2022' and '02/14/2022', and a 'Fetch' button. The main content is a table with the following data:

Sr.	EventID	Time	Status	Location
1	15	02/14/2022 02:39:52	Driving	

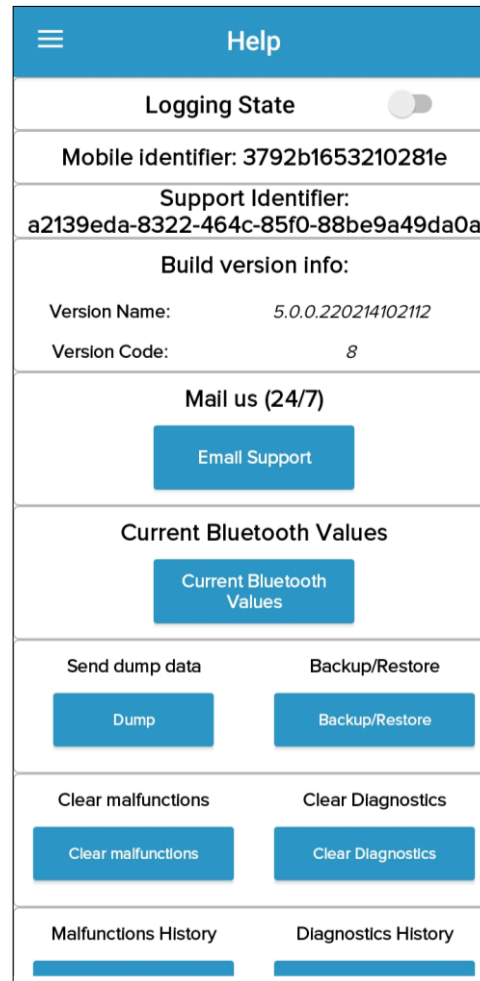
The screenshot shows the 'Unidentified Driving' app interface with a table that has three columns: 'Annotation', 'Origin', and 'Claim'. The 'Annotation' column contains 'Details', 'Origin' contains 'Unidentified', and 'Claim' contains 'demodriver'. A blue 'Claim' button is located to the right of the 'demodriver' text.

Annotation	Origin	Claim
Details	Unidentified	demodriver

The screenshot shows the 'Unidentified Driving' app interface with a 'Add Missing Details' popup form. The form has a blue header with the title 'Add Missing Details'. It contains three input fields: 'Location: Address' with a red asterisk, 'Vehicle: demovehicle' with a dropdown arrow, and 'Please add notes..'. At the bottom of the form, there are two buttons: 'Cancel' and 'Save'.

Customer Support

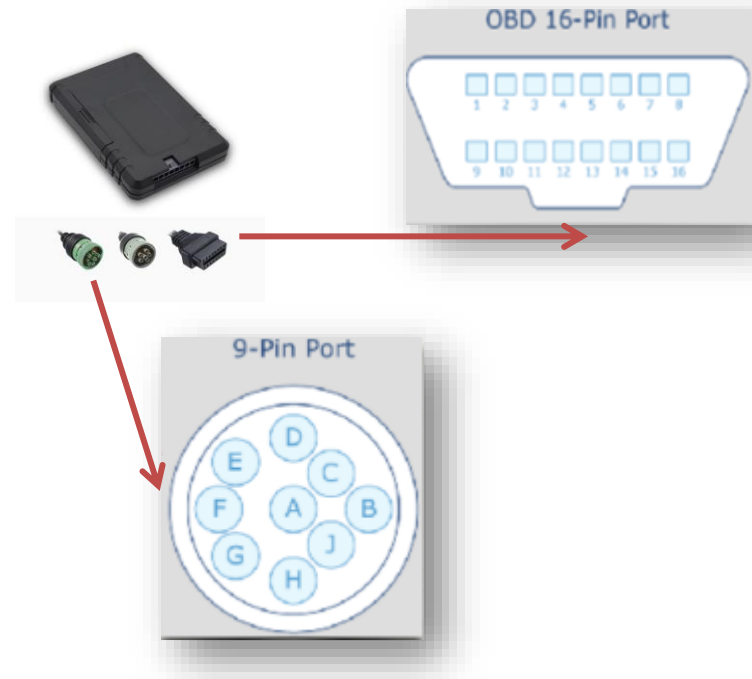
If you have any queries, reach to the following mail: "support.gps@matrackinc.com". Drivers can reach customer support using App's Help and Support screen.



Appendix

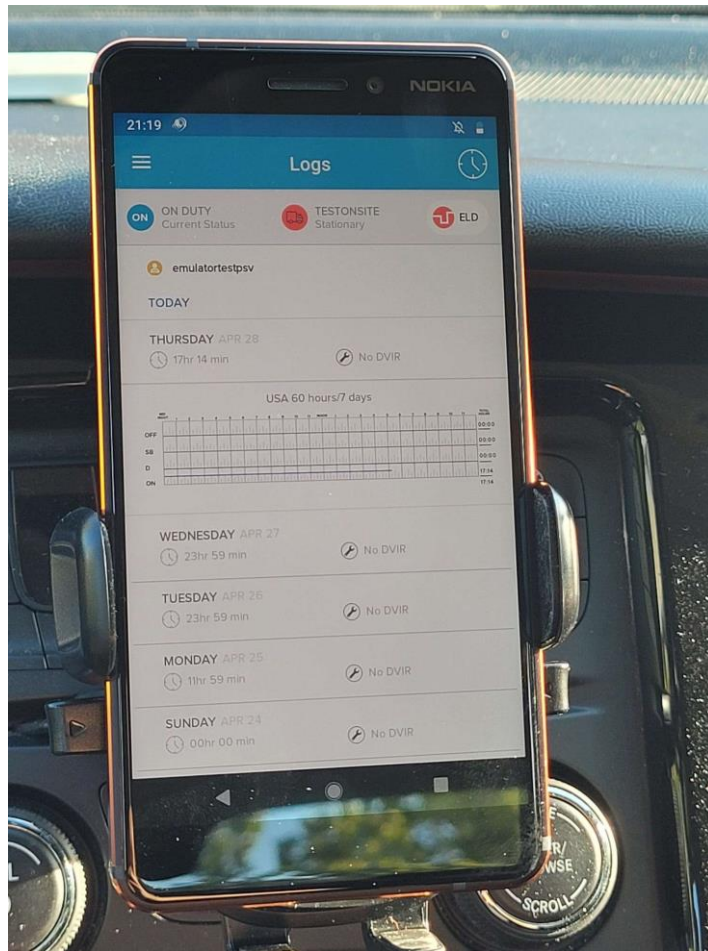
ELD Installation Guide:

- Connect the 9 pin T-Harness to the diagnostic port usually found
 - 1. Under the dashboard.
 - 2. Underneath the steering wheel.
 - 3. Below the driver's seat.
 - 4. Near the driver's left kick panel.
- Connect the device to the other end of the cable.
- Turn on the ELD device.
- Turn on the ignition.
- Make sure the app is installed and logged in.
- Start the vehicle to track your hours of service.

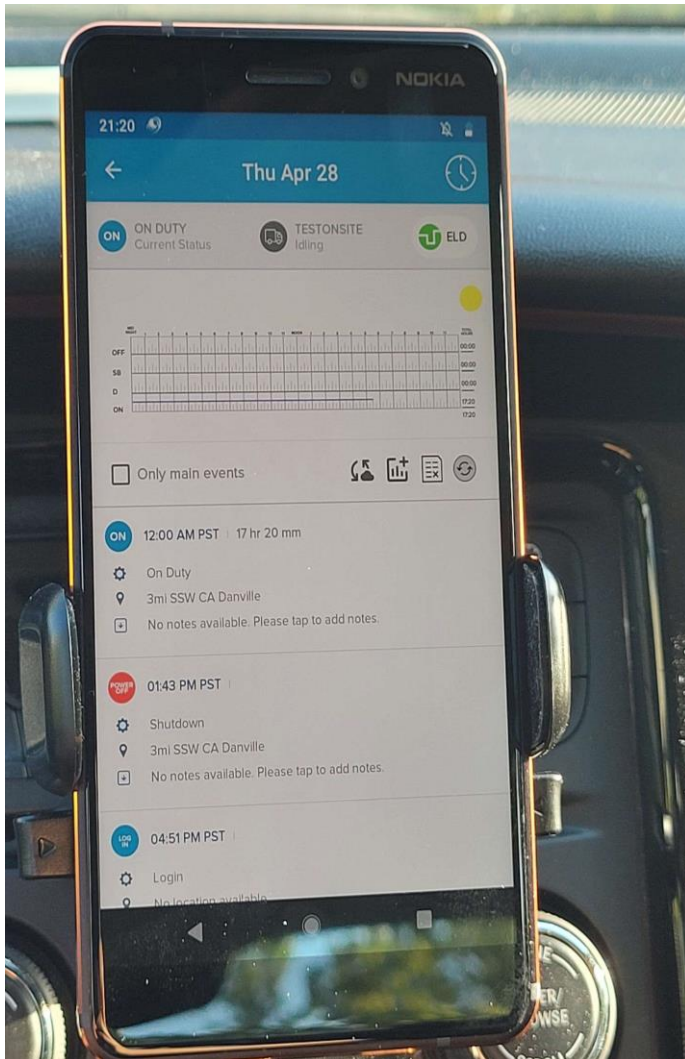


Important: Install Matrack ELD app from Google play store for Android mobile and Apple app store for iPhone mobile.

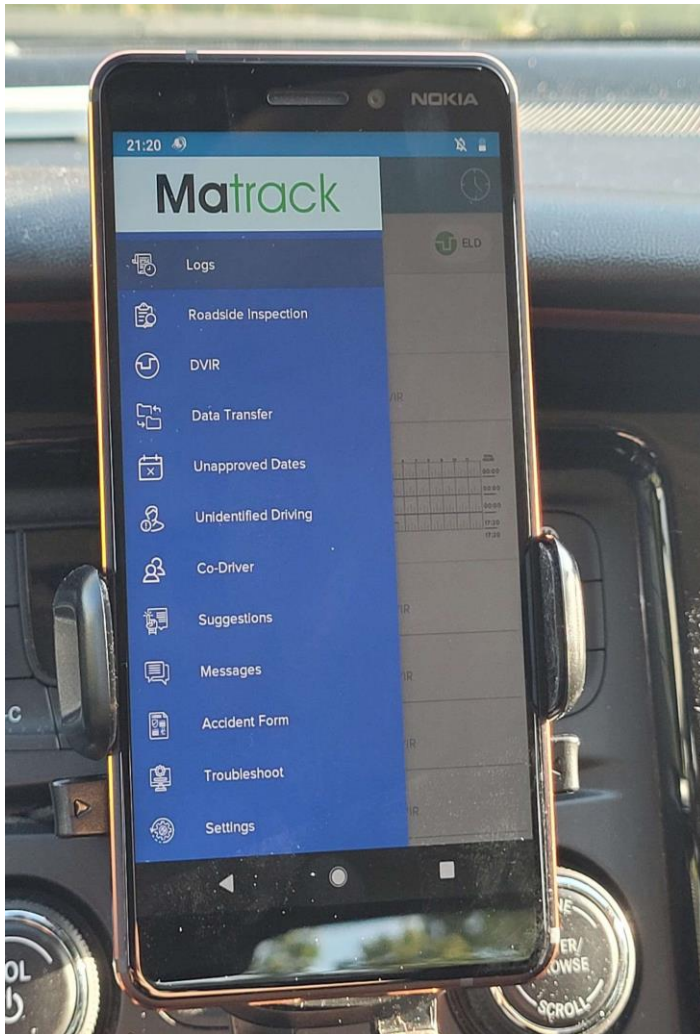
1. Matrack ELD App Dashboard Screen



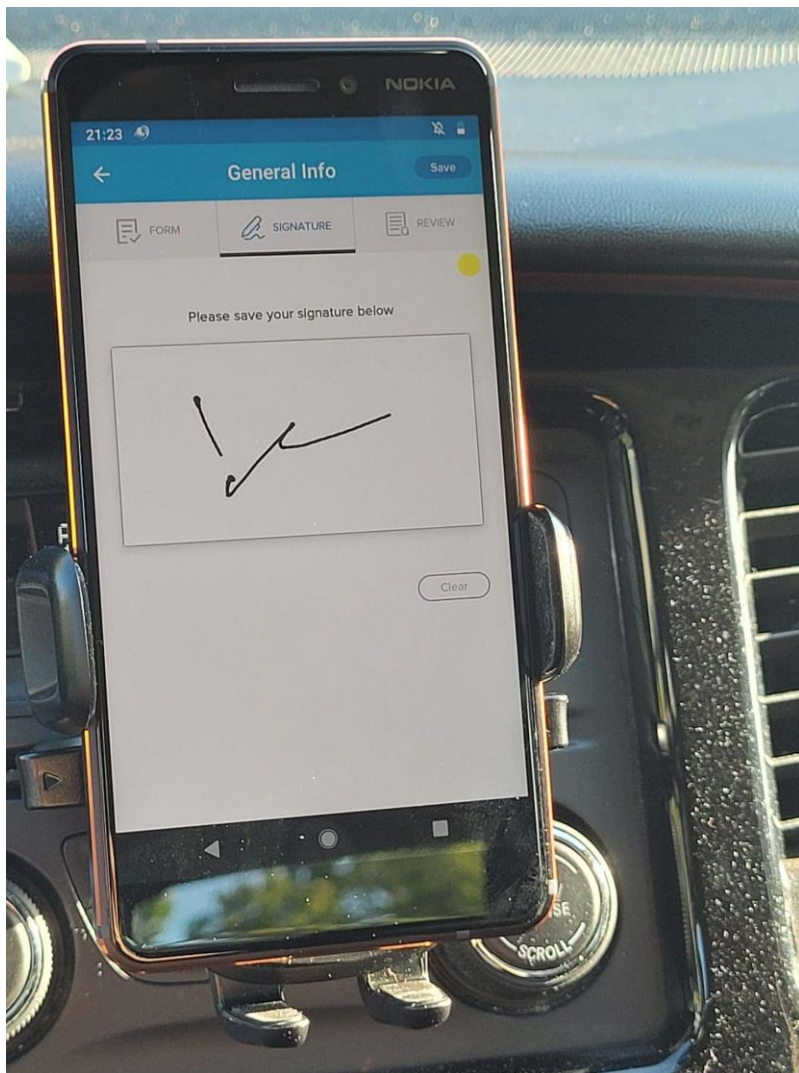
2. Matrack ELD App events screen



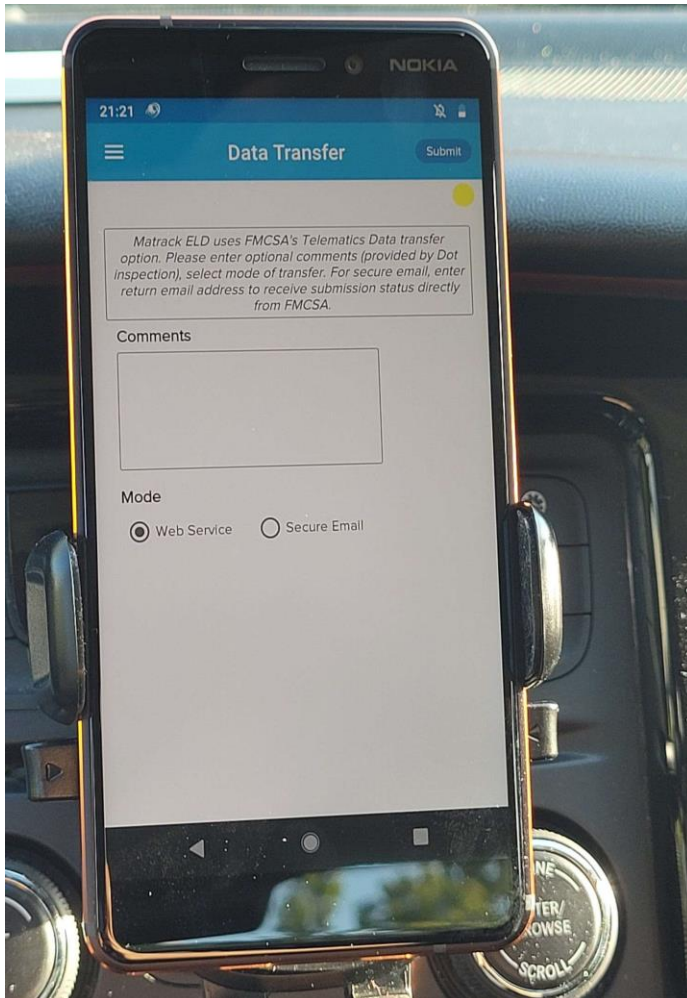
3. Matrack ELD App main menu screen



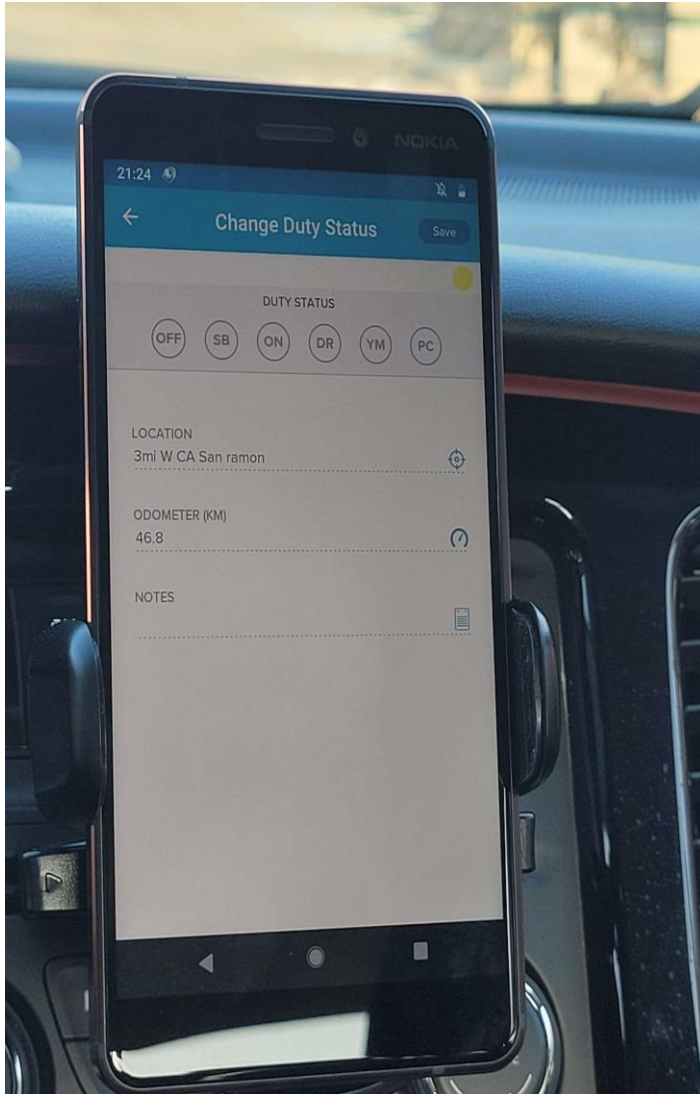
4. Matrack ELD App form with signature screen



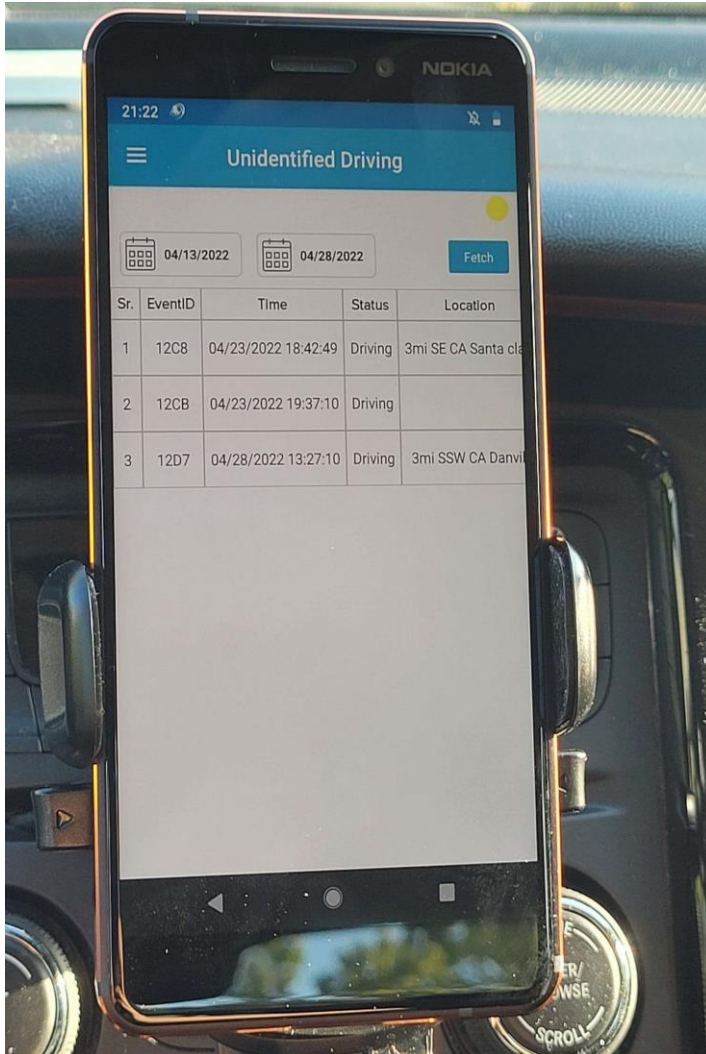
5. Matrack ELD App Dot inspection screen with data transfer options screen



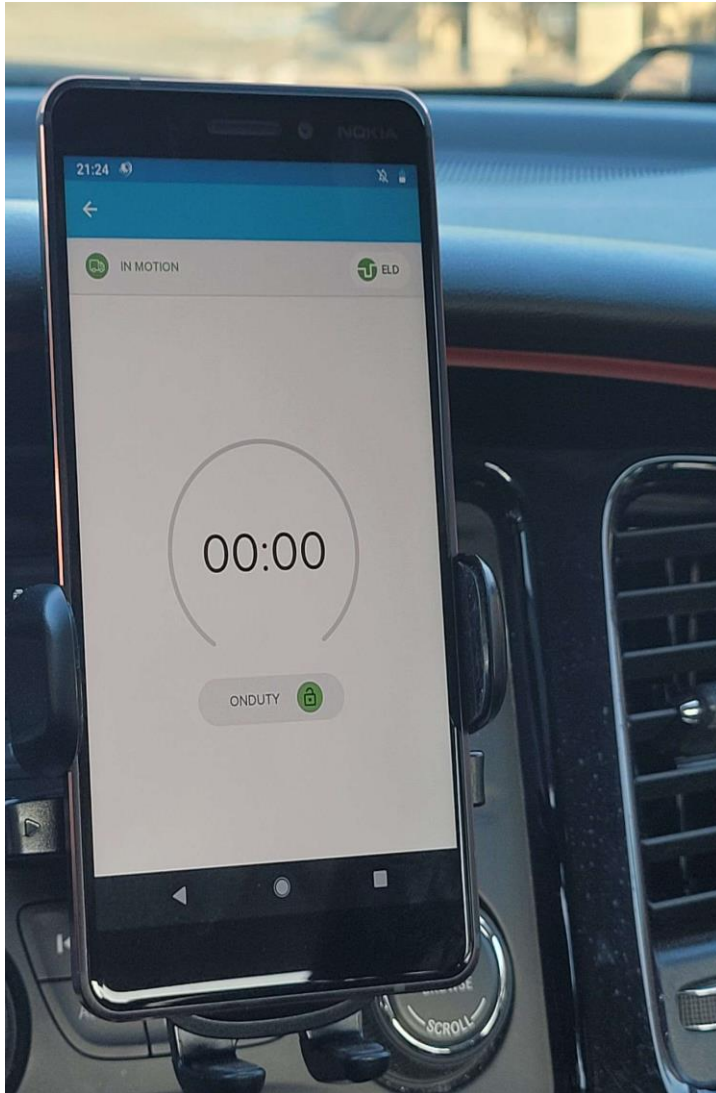
6. Matrack ELD App change status screen



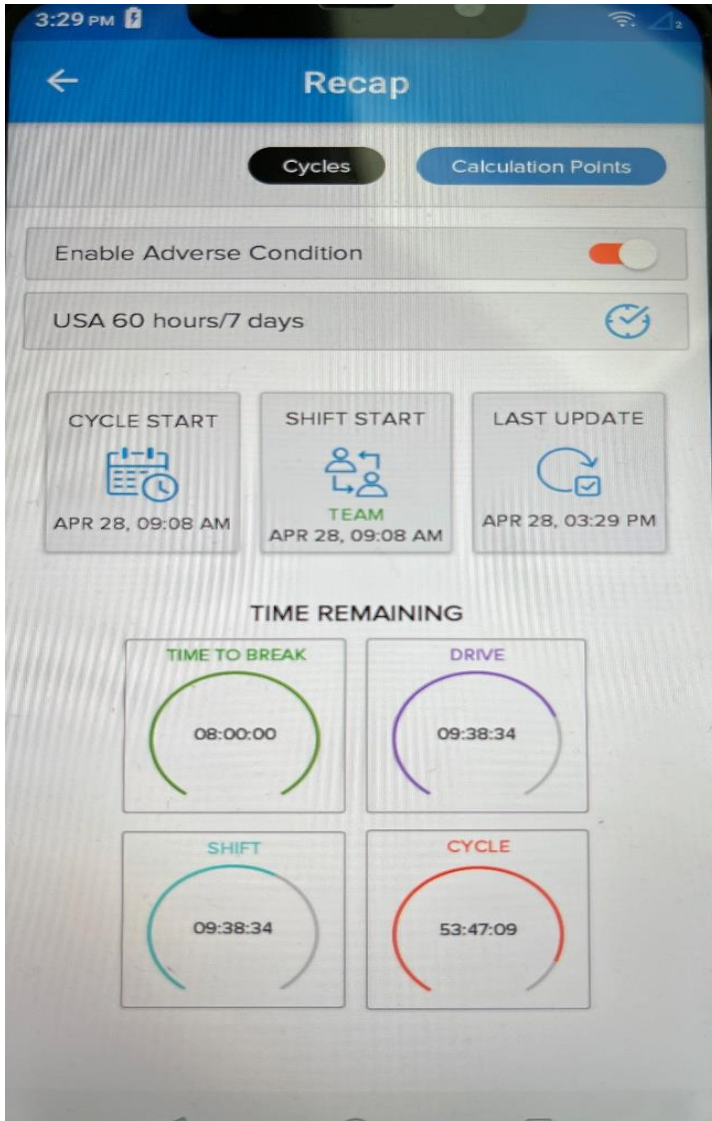
7. Matrack ELD App unidentified driving screen



8. Matrack ELD App Driving screen and vehicle is moving



9. Matrack ELD App Driver Recap screen



10. The ELD unit plugged into the OBD port of the vehicle



11. The ELD unit placed on the dashboard of the vehicle



12. The ELD unit powered up in the vehicle



13. ELD detection screen after Bluetooth scanning

