

Hours of Service

Getting started with Matrack ELD



The image shows the Matrack login screen. At the top is the Matrack logo. Below the logo are two input fields: "Username" and "Password". Below the password field is a green button with the text "SIGN IN". At the bottom of the screen is a toggle switch for "OFFLINE LOGIN", which is currently turned off.

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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. 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.



Username

Password

SIGN IN

OFFLINE LOGIN



Logs



Roadside Inspection



DVIR



Data Transfer



Unapproved Dates



Accident Form



Unidentified Driving Profile



Logon Co-Driver



Switch Co-Driver



Suggestions



Messages



Troubleshoot



Settings



Help

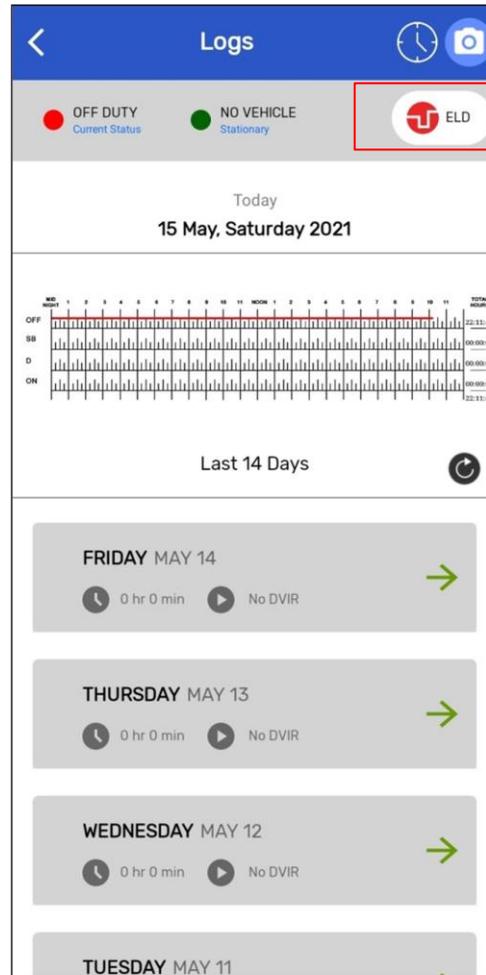


Drivewyze



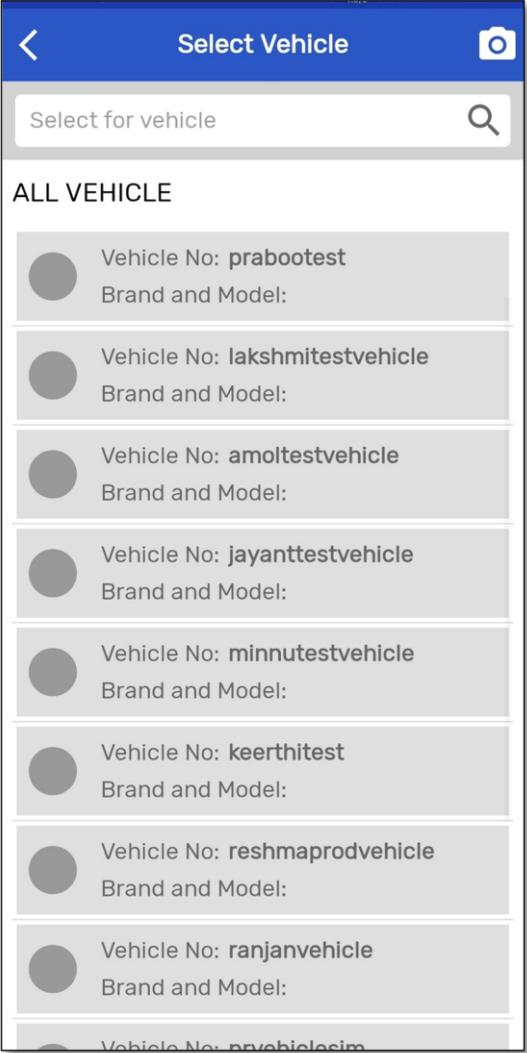
After Login

1 Go to logs. Tap on the  to choose the vehicle from the list. Chosen vehicle will be set.



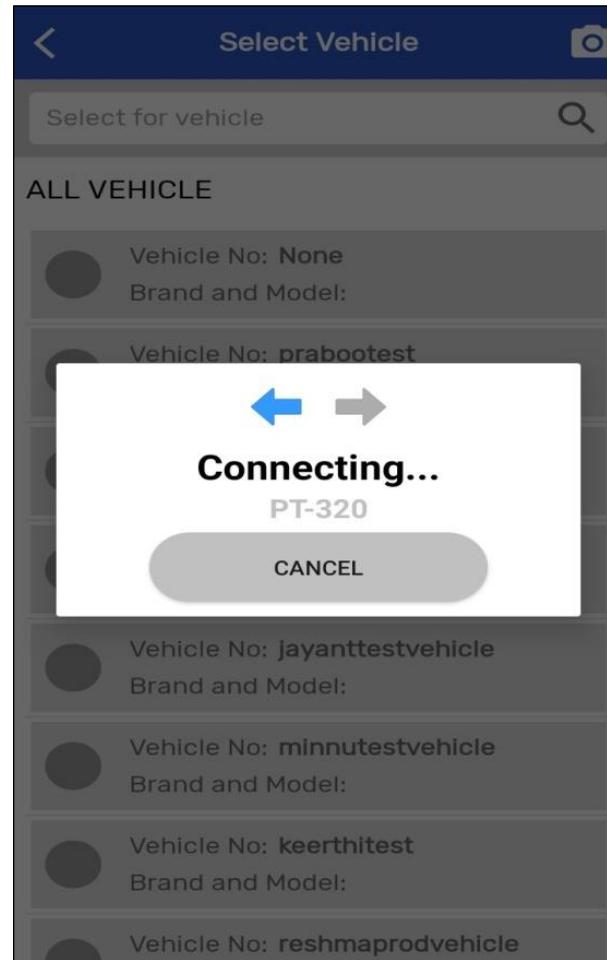
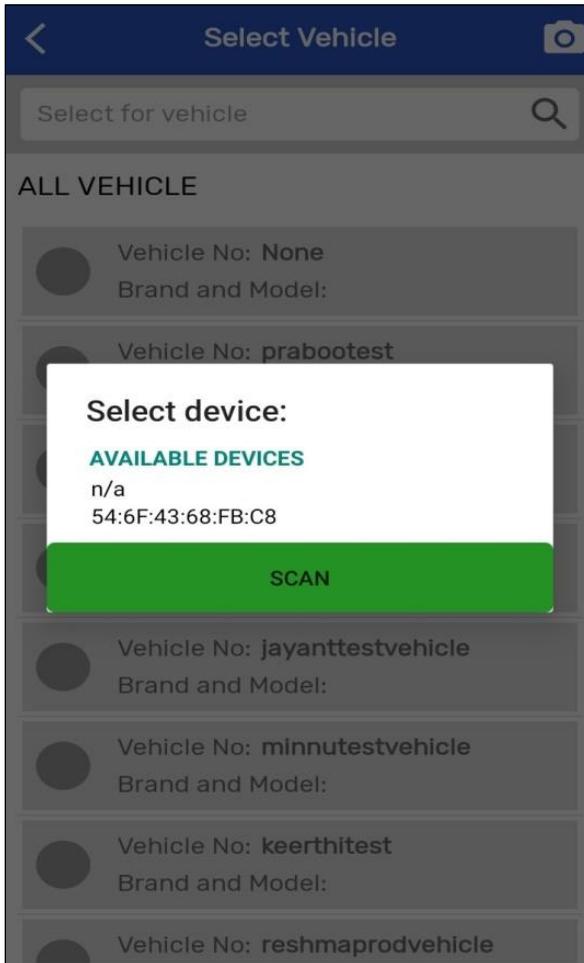
2

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



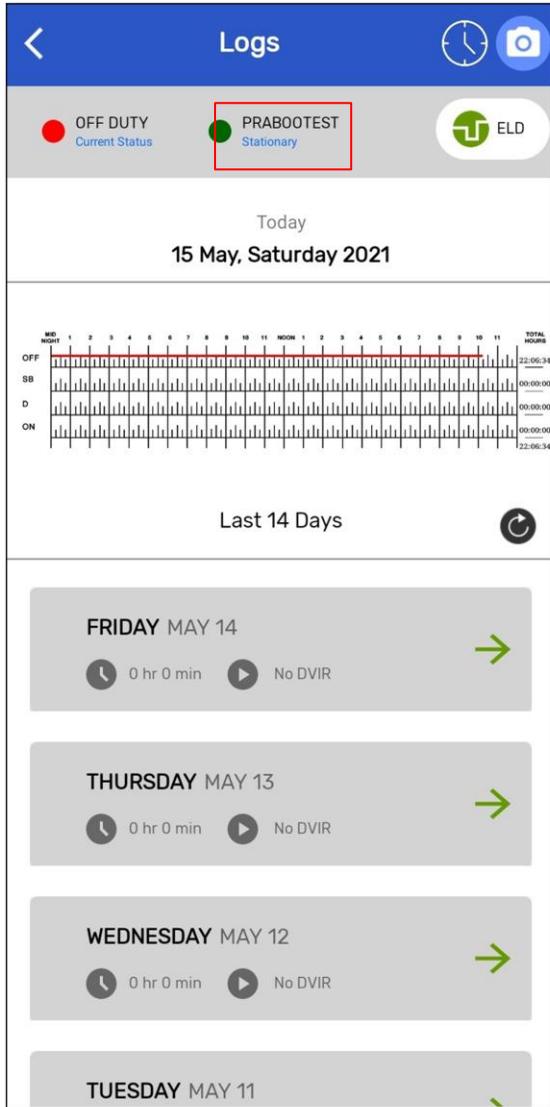
Important: If your vehicle selection list is empty , contact your fleet manager.

On selecting a vehicle nearby available Bluetooth device is listed.



4

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.

Power On

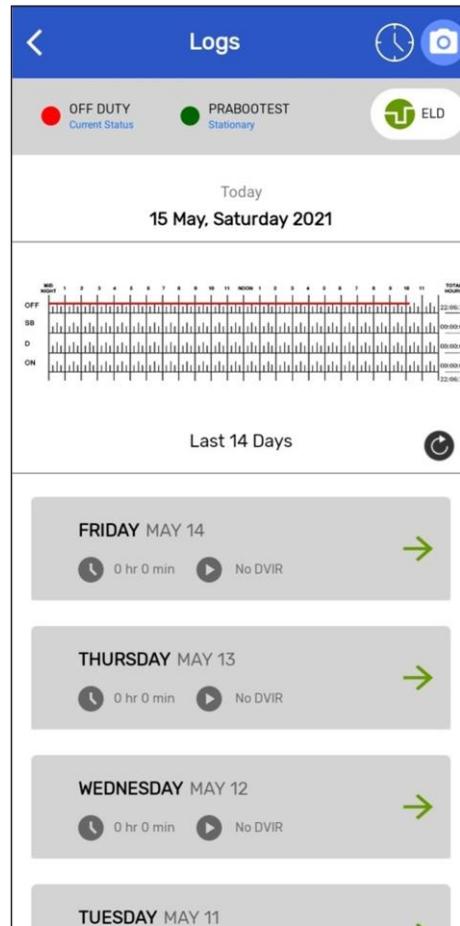
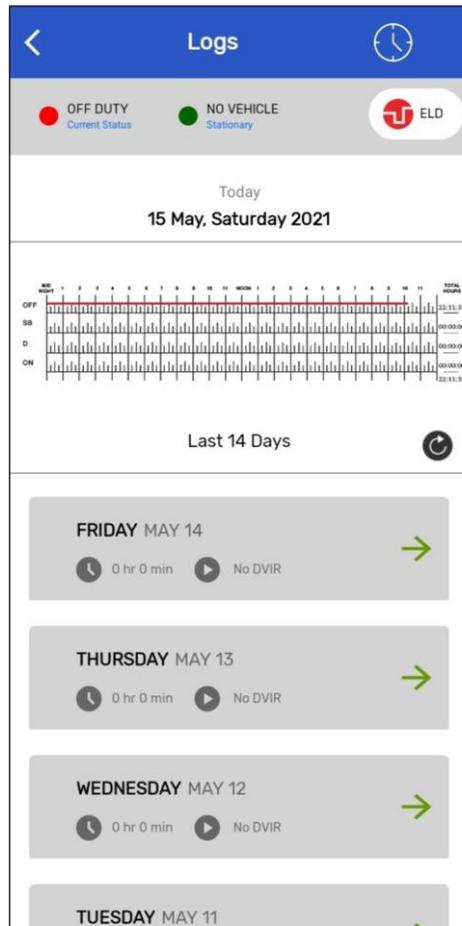
Matrack ELD device

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.

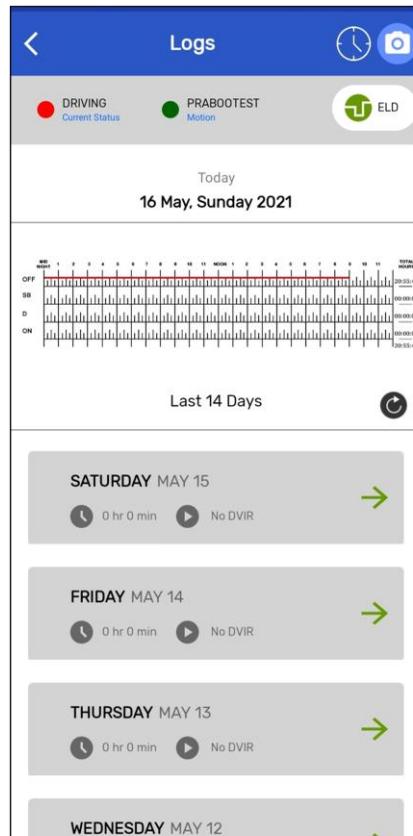
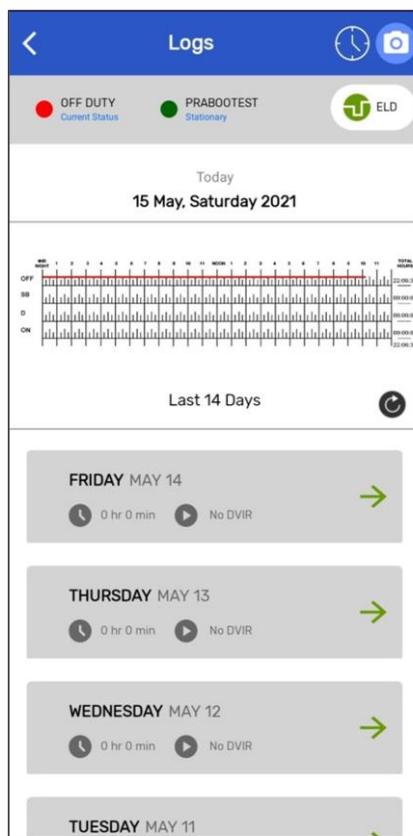


Important: Tap on  to select a vehicle from the list of vehicles available under current vehicle drop down menu.

Hours of Service

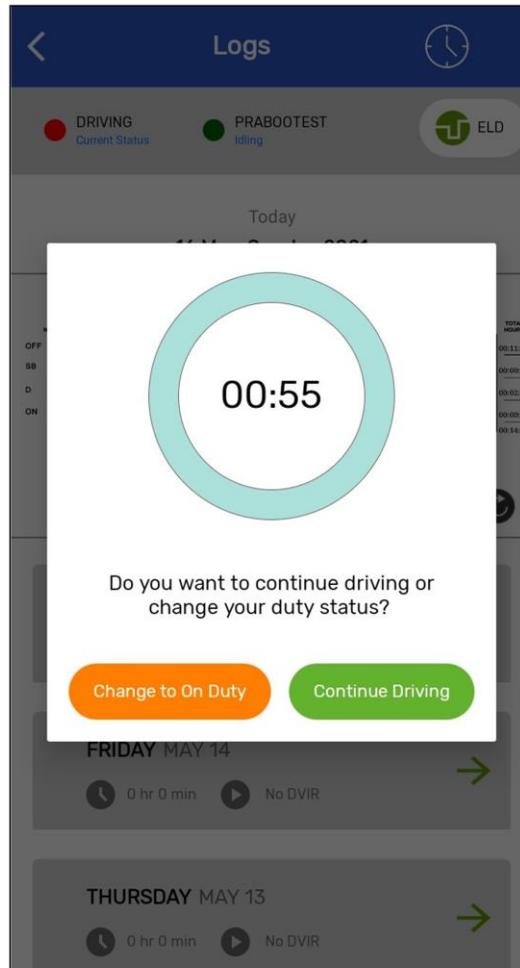
After selecting the device, the driving status will be updated automatically.

- 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 when the vehicle speed is 5 mph or greater and vehicle status as stationary when 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.

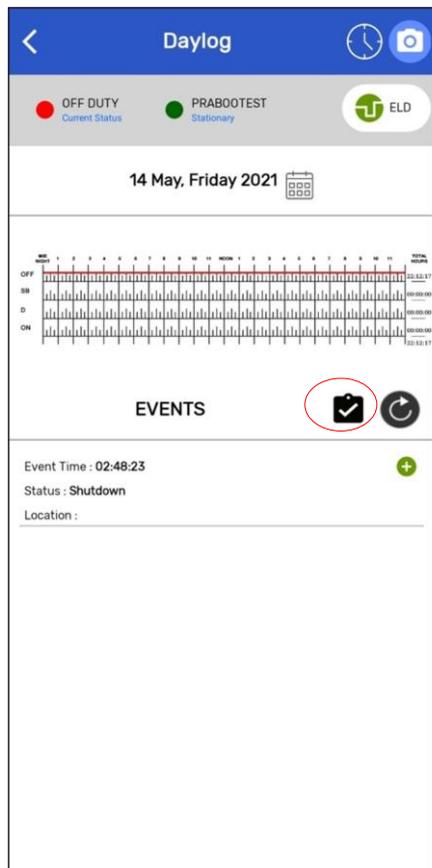


Certify and Sign the Day's Log

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.



- 2 The driver gets the form data displayed on the screen. Form data can be edited by tapping any fields in the screen which would lead to the editable tabs- General, Carrier and Co-driver.

Driver Form

Current Date: 05/14/2021

GENERAL [Edit](#)

Vehicles
prabootest
VIN (ECM)
NA
VIN (Driver entered)

Distance
0 mi

Trailers

Shipping Documents

Driver
prabootest (ID:)
Cycle
USA 60 hours/7 days
Cargo Type
Property

[NEXT](#)

Driver Form

Current Date: 05/14/2021

CARRIER [Edit](#)

Carrier Name

Main Office Address

Home Terminal Address

[PREVIOUS](#) [NEXT](#)

Driver Form

Current Date: 05/14/2021

CO-DRIVER [Edit](#)

Co-Driver Username

Co-Driver First Name

Co-Driver Last Name

Origin

Destination

Notes

[PREVIOUS](#) [NEXT](#)

Tap on the “NEXT” button of co-driver screen to certify the logs.

Driver Form

Current Date: 05/14/2021

GENERAL [Edit](#)

Vehicles
prabootest
VIN (ECM)
NA
VIN (Driver entered)

Distance
0 mi
Trailers

Shipping Documents

Driver
prabootest (ID:)
Cycle
USA 60 hours/7 days
Cargo Type
Property

[NEXT](#)

Driver Form

Current Date: 05/14/2021

CARRIER [Edit](#)

Carrier Name

Main Office Address

Home Terminal Address

[PREVIOUS](#) [NEXT](#)

Driver Form

Current Date: 05/14/2021

CO-DRIVER [Edit](#)

Co-Driver Username

Co-Driver First Name

Co-Driver Last Name

Origin

Destination

Notes

[PREVIOUS](#) [NEXT](#)

4

Add your signature, if not present, then certify and approve the log using Approve Log button.

Review and Sign

05/14/2021 CYCLES

ELD Identifier	LOG247	ELD Registration Id	T2A0
Driver	prabootest	Cycle	USA 60 hours/7 days
Driver ID		VIN	NA
Driver Licence#		Driver Licence State	
Start-End Odometer		Start-End Engine Hrs	
Distance	0 mi	Timezone	PST
Carrier		Restart hours	36
Vehicles	prabootest	Trailer	
Codriver Username		Codriver Name	
Shipping Doc No.		Hours available in cycle	NA

Approve eRODs for 05/14/2021

 Capture Signature Approve Log

Change Signature

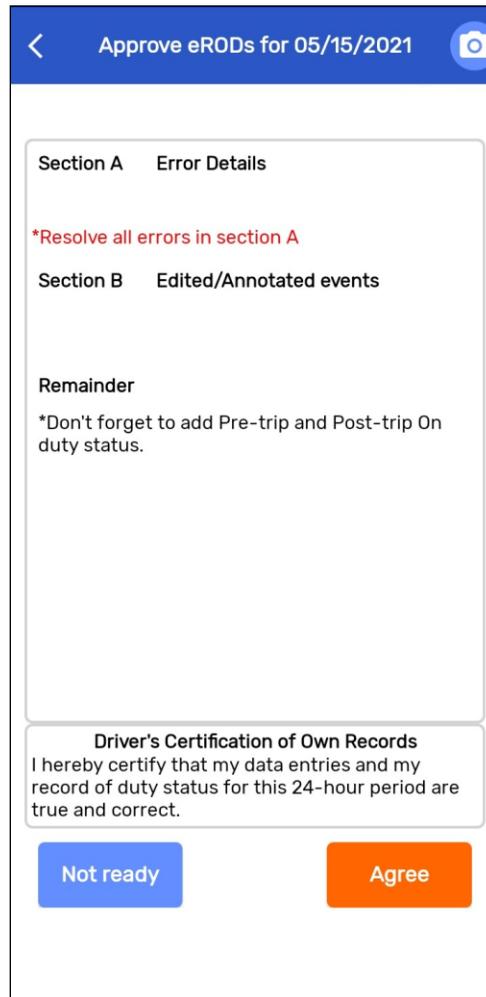
Please save your signature below



CLEAR SAVE SIGNATURE

5

Once you tap the Approve Log button, the “Driver’s Certification popup” 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 05/15/2021

Section A Error Details

*Resolve all errors in section A

Section B Edited/Annotated events

Remainder

*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

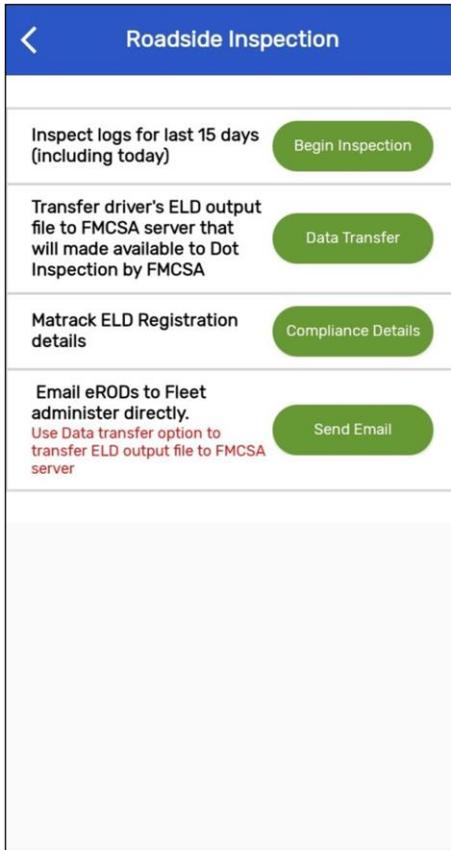
Alerts

Alerts provide the possible list of violations made by the driver in the current cycle.

<i>DOT Violations for approved dates in current cycle</i>	
<i>USA70hours Cycle</i>	
	Violation: 14 hour duty rule 03/11/2018 23:00 Maximum 14 consecutive hours duty allowed
	Suggestion: 10 hour Break 03/11/2018 23:00 Minimum 10 consecutive hours break required

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 an optional 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.

< Prev
05/15/2021
Cycles

DOT INSPECTION

ELD Identifier	LOG247	ELD Registration Id	T2A0
Driver	prabootest	Cycle	USA 60 hours/7 days
Driver ID		VIN	NA
Driver Licence#		Driver Licence State	
Start-End Odometer	0-0 mi	Start-End Engine Hrs	0-0
Distance	0 mi	Timezone	PST
Carrier		Restart hours	36
Vehicles		Trailer	
Codriver Username		Codriver Name	
Shipping Doc No.		Hours available in cycle	NA
Cycle Start	break	Hours worked	00:00:00
Cargo type		Main Office Address	

	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	TOTAL HOURS
OFF															02:24:30
SB															00:00:00
D															00:00:00
ON															00:00:00

Event List

Sr.	EventID	Time	Status	Location	Vehic
1		00:00:00	Off Duty	NA	

Recap

Tap on the Mail option to send RODS directly to Fleet manager or other authorized person in the carrier.

Matrack		DRIVER'S DAILY LOG				12-01-2017	
Driver:	Smith, Plaza	Carrier:	Matrack Inc	Distance:	50	Vehicles	Mike121
Cycle:	USA 60 hours/7 days	Main Office:	334 Clain St, Redding CA	Co-driver:	Ed Burrell	Trailer	1234 7654
Shipping Doc No:	77568A	ELD Malfunction Indicators	No	Start-End Engine Hrs	758.2-760	US DOT#:	6667456
Total Hours Worked today	1 hr:0 mins	Start-End Odometer	39564-39576		6		
Driver License#	D0001344	Timezone:	CST	Driver License State:	CA	Driver ID:	124434
Co-Driver ID	D0344456	Data Diagnostic Indicators	Yes	ELD ID:	10001	ELD Manufacturer:	Matrack ELD
Shipping ID	BL1123444	24 Period Starting Time	Midnight	Truck Tractor ID:	Unit#	Unidentified Driver Records:	No
Truck Tractor VIN	1FUJGH0V OCLBP8834	Exempt Driver Status	No	Record Date:	1-Dec-17	Current Location:	Tracy, CA
File Comments:		Print/Display Date:	1-Dec-17				

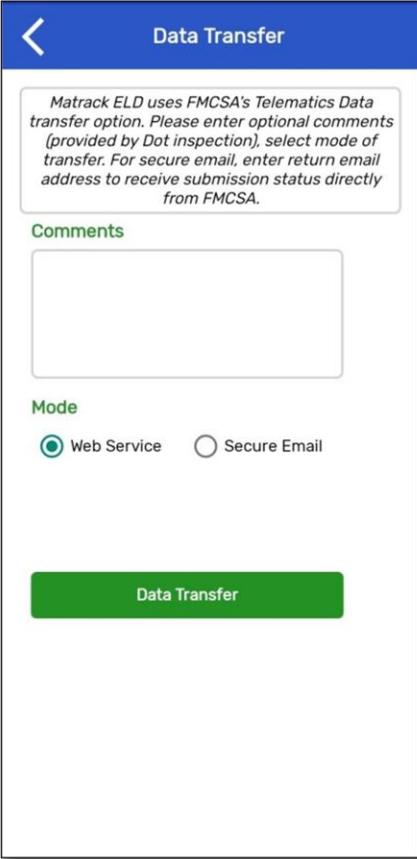
		Recap	
OFF	23:00	11:24	00:30
SB	00:00	11:25	01:30
0	00:15	11:26	00:00
0	00:15	11:27	00:00
0	00:45	11:28	00:00
0	00:45	11:29	00:00
0	24:00	11:30	00:15

S.No	Event Type/Status	Start	Duration	Odometer	Eng Hours	Location	Notes	Origin
1	Off Duty	12 AM	20 hrs:0 mins	39564	758.2	2mi SW CA San Ramon	NA	ELD
2	Login	12 AM		39564	758.2		NA	Driver
3	On Duty/hot driving	8 PM	0 hrs:30 mins	39570	759	4mi SW CA Castro Valley	NA	ELD
4	Driving	8:30 PM	0 hrs:15 mins	39572	759.3	3mi SW CA San Ramon	NA	ELD
5	First Certification	8:30 PM					NA	Driver
6	PC	8:45 PM	0 hrs:15 mins	39574	759.8	1mi NW CA San Ramon	NA	Driver
7	Second Certification	8:45 PM					NA	Driver
8	YM	9 PM	0 hrs:15 mins	39576	760	2mi SW San Ramon	NA	Driver
9	LogOut	9:15 PM		39576	760		NA	Driver
10	Off Duty	9:15 PM	2 hrs:45 mins	39576	760	2mi SW San Ramon	NA	ELD

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 optional text to be sent along with ELD output file. Enter the optional text in the comments.

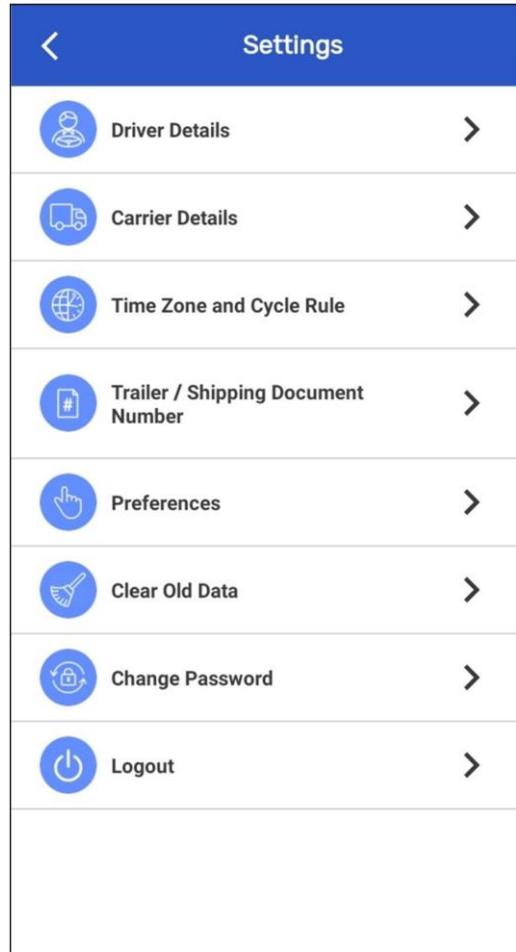
- 1 Select Data transfer option in the Dot Inspection to initiate Date transfer to FMCSA using Web Service or Secure Email.



The screenshot shows a mobile application interface for data transfer. At the top, there is a blue header with a white back arrow and the text "Data Transfer". 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 green heading "Comments" followed by a large white text input area. Underneath is another green heading "Mode" with two radio button options: "Web Service" (which is selected) and "Secure Email". At the bottom of the screen is a prominent green button labeled "Data Transfer".

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

Enter/Edit driver name, license number, dot number, email and phone number.

Driver Details SAVE

First Name
prabootest

Last Name

Driver ID (unique within the carrier)

Driver Licence Number

Driver Licence State
Select License State ▼

Email

Phone Number

Exempt Driver

2

Enter/Edit Carrier name, office and home terminal address.

Carrier Details SAVE

CA DOT Number
CA DOT Number
Fetch Carrier Details

Carrier Name
Name of carrier

Main Office Address
Street
City
Zip
Select Country
Select state
 Same as above

Home Terminal Address
Street
City

Carrier Details SAVE

Carrier Name
Name of carrier

Main Office Address
Street
City
Zip
Select Country
Select state
 Same as above

Home Terminal Address
Street
City
Zip
Select Country
Select state

Carrier Details SAVE

CA DOT Number
123456

Fetch Carrier Details

Carrier Name
California Fleet Service

Main Office Address
1234
San Ramon
94583
USA
California
 Same as above

Home Terminal Address
1234
San Ramon

Carrier Details SAVE

Carrier Name
California Fleet Service

Main Office Address
1234
San Ramon
94583
USA
California
 Same as above

Home Terminal Address
1234
San Ramon
94583
USA
California

Enter/Edit time zone, cycle, cargo type, restart hours, rest break mins.

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.

Change Password

SAVE

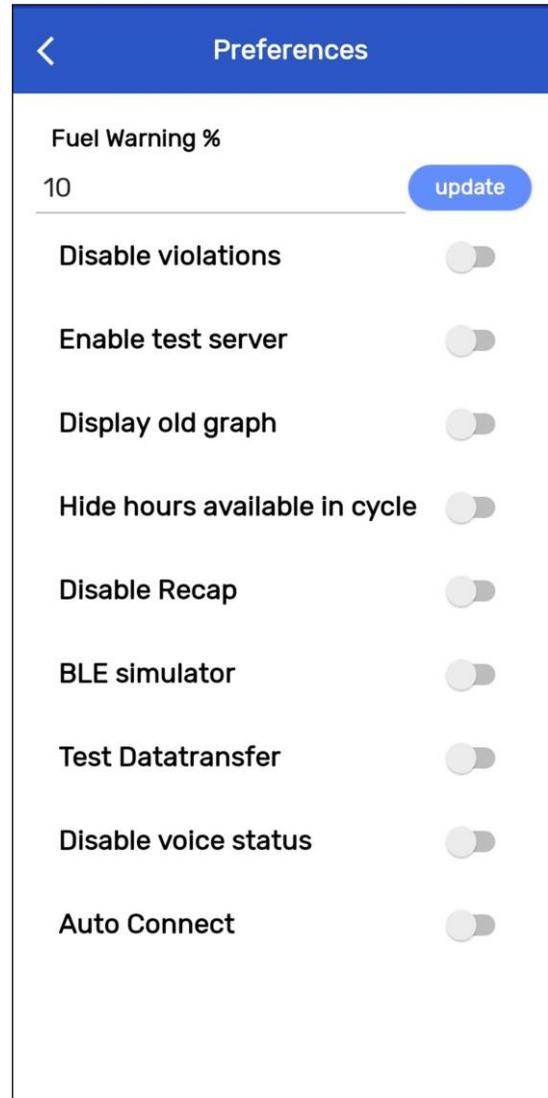
Old Password *

New Password *

Confirm New Password *

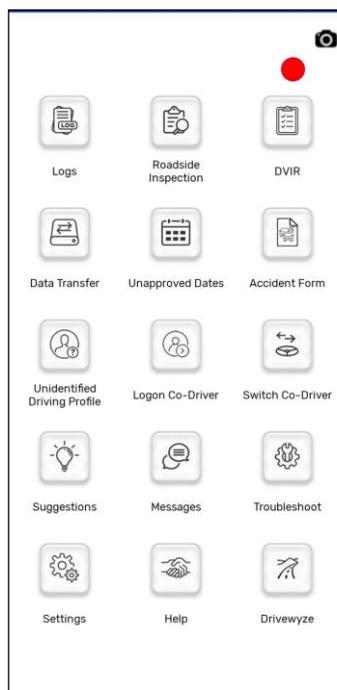
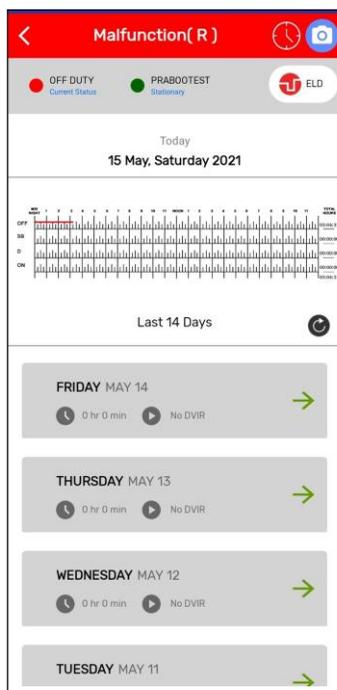
6

Set preferences for the app.



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 green 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.



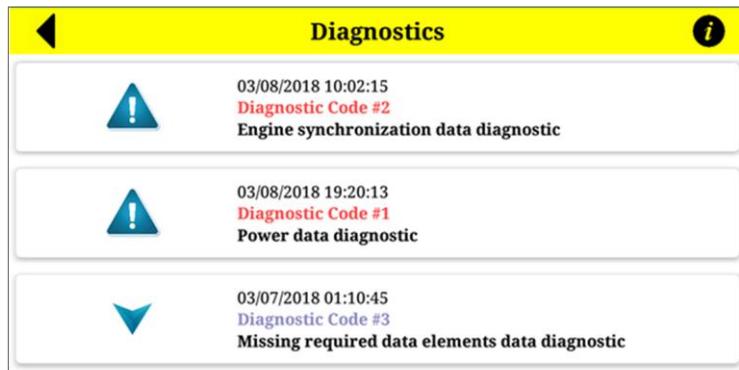
Important: Tap on the red banner for additional details about the malfunction. The malfunction screen will display the malfunction code and highlight the malfunction description.



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 banner in the log screen will turn to yellow color with a text “Diagnostics” including the diagnostics event code in parenthesis. For instance, Diagnostics(4). The values of diagnostics code may contain values '1', '2', '3', '4', '5', '6' as per FMCSA requirement. When clicked on the diagnostics event yellow banner, it will take the driver to diagnostics details screen where additional details about the diagnostics event code will be displayed and description highlighted.



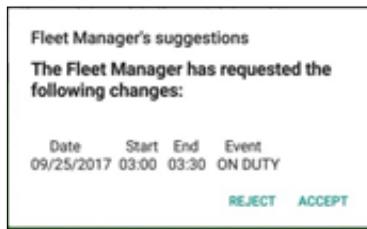
Important: Tap on the yellow banner for additional details about the diagnostic event. The diagnostic event screen will display the list diagnostic code. Select individual diagnostic event that will open new screen with diagnostic code description highlighted.



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

Accept/ Reject fleet manager's suggestions

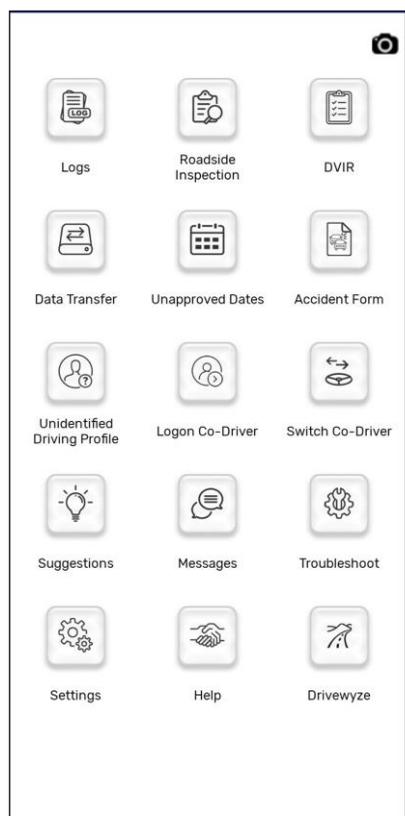
The driver can view the suggestions made by the fleet manger for accuracy. The driver can either accept or reject the suggestions. A popup will appear with the suggestions made by the fleet manager with Accept / Reject button. If the suggestion was accepted, then the driver should re-certify the logs for the suggested day.



Unidentified Driving Profile

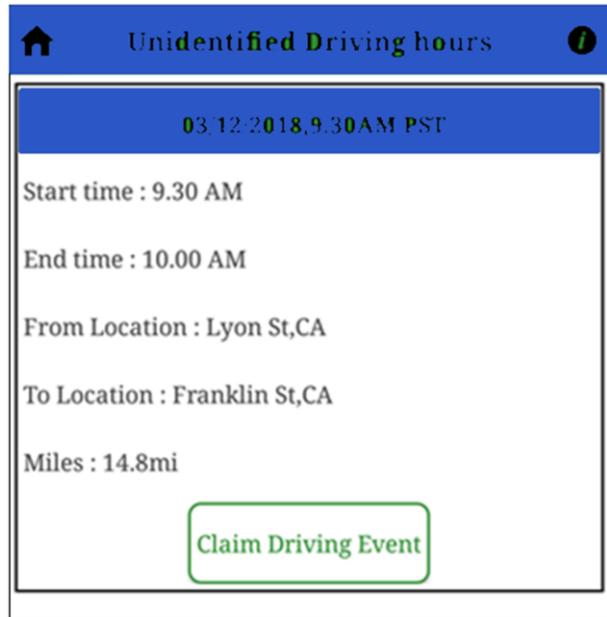
DOT regulations require all the ELD Driving events in the ELD should be assigned to the drivers. If the vehicle is in motion and no driver was connected to the ELD then it will be recorded under Unidentified Driving events that can be claimed by the drivers later. The Unidentified driving events will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



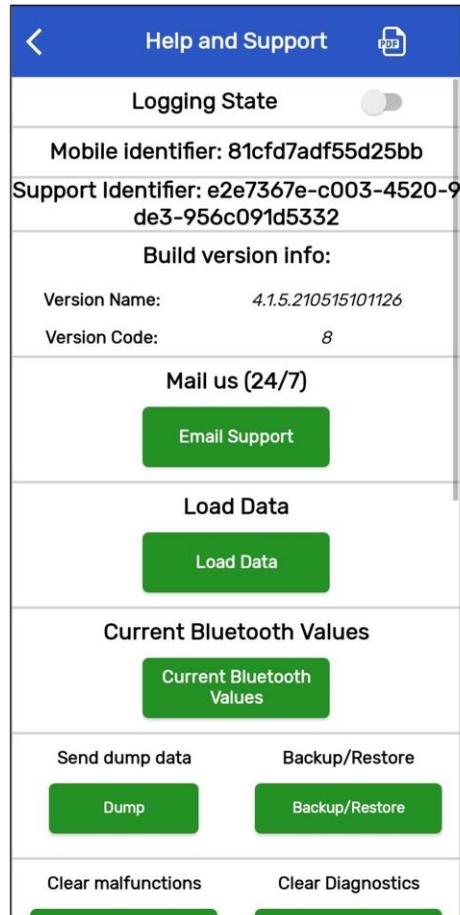
2

The driver can view /claim the driving events from this screen.



Customer Support

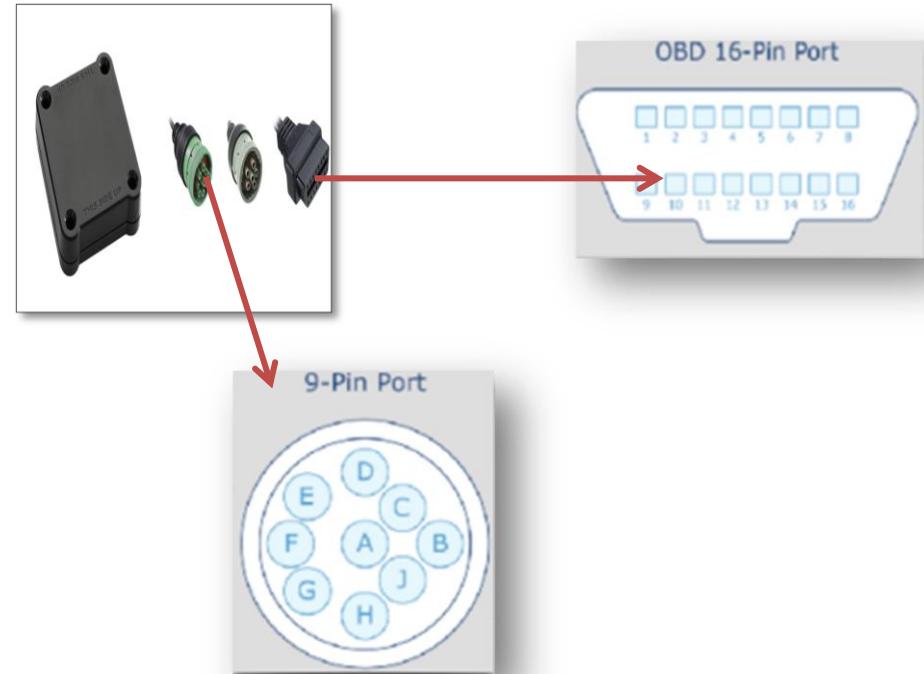
If you have any queries, reach to the following mail: "support.gps@matrackinc.com". Drivers can reach customer support using App's Help and Support screen.



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.