

SAFER ELD USER MANUAL

safereld.com

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Configuring the ELD before operation



Mobile Device



ECM + Adapter



Harness

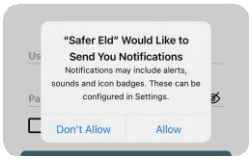
Your mobile device (where the ELD app is running) must a) have Bluetooth enabled and b) be connected to the internet either with a cellular data plan or connected to a hot spot.
Installing the ECM device:
Please plug the ECM device to the vehicle's diagnostic port. In some cases, you might need to use the ECM adapter to plug the device on J1939 port.
Locate the diagnostic port (see image below for possible locations depending on vehicle's make, model and year).

- For the ELD to remain compliant, it must remain connected to the ECM device and read engine data. Engine data is only available when the vehicle's engine is turned on.

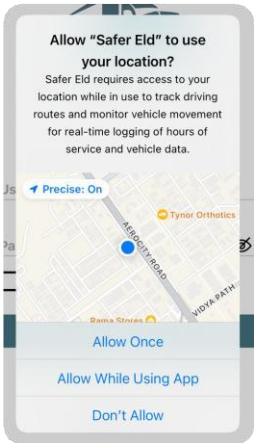


Reinstalling the ELD app

If you need to reinstall the ELD app (or install it on a different device), please search the iOS app Store for "SaferELD" and install the app. When you open the ELD app for the first time, you need to approve the following permissions:







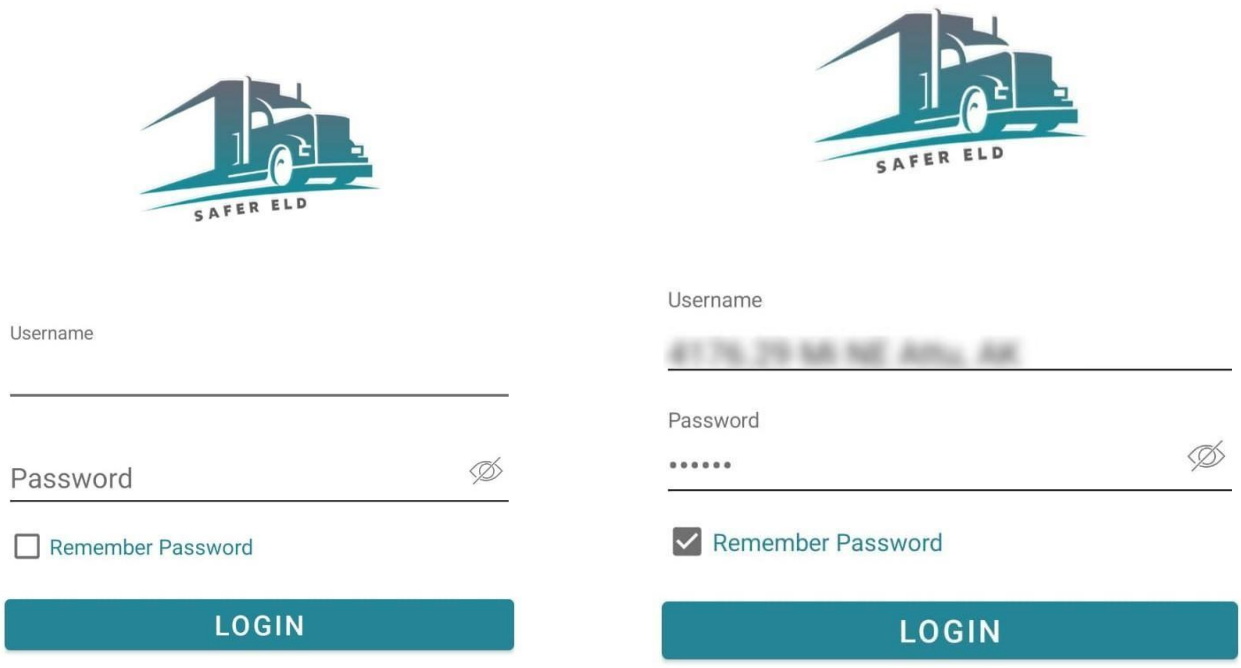
You also need to give permission for the app to show over other apps:



LOGIN TO THE ELD APPLICATION

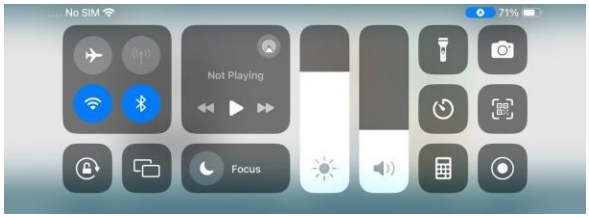
The Login section allows authorized users to securely access the ELD application using their registered credentials

In the Username field, enter your registered email address that was provided during account creation. In the Password field, carefully enter your assigned password. If you would like the application to save your login credentials for quicker access in the future, you may enable the "Remember Password" option. After entering all required information, tap the Login button to access your dashboard and continue using the application.



Establishing ECM Connection

Before a driver can operate an ELD, the ELD must be synchronized to the vehicle's engine using what is known as an Engine Synchronization Module (ECM) which is very common on GPS trackers.
Before scanning and connecting to an ECM device, make sure your ELD has Bluetooth functionality enabled:



We highly recommend installing a label or decal on the vehicle's dashboard with the ID of the ECM device installed on the vehicle. Also, write down this ECM ID.

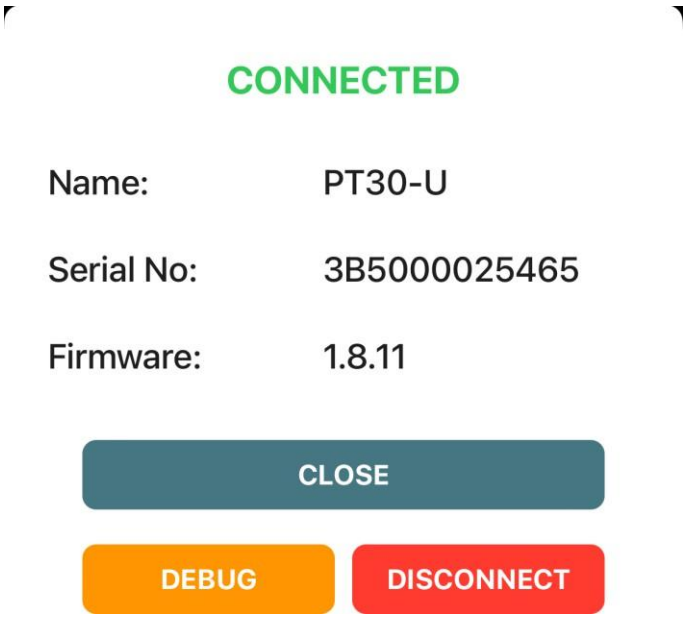




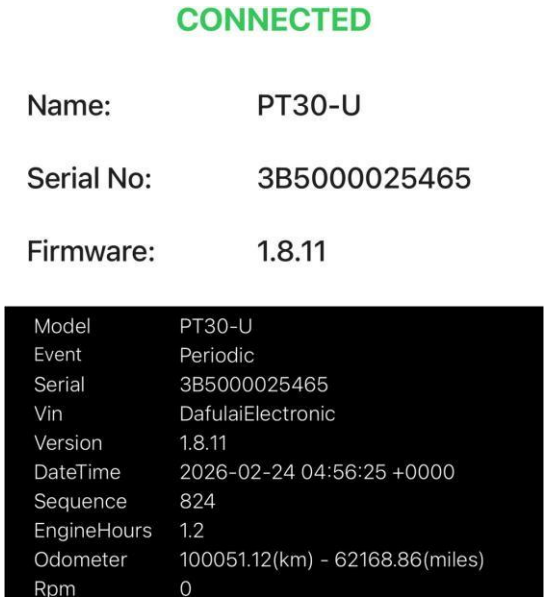
To connect to the ECM device, tap on Scan Devices, wait for the device to show up (make sure the correct ECM ID shows up)

% For the ECM device to work properly and the ELD to be able to connect to the device and read engine data, the engine must be turned on. Keep this in mind when operating the ELD. Duty status changes, as an example, require engine parameters when generated. Make sure the engine is still running when making duty status changes. **Some ELD configurations locks an ELD to a specific**

The ELD Connection process ensures that the mobile application is properly paired and communicating with the installed ELD device. A successful connection is required before starting any trip to ensure accurate data recording and FMCSA compliance



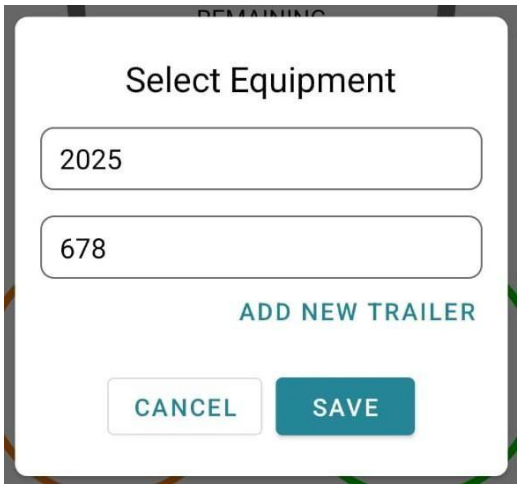
To connect the device, tap the Connect Signal button located in the top-right corner of the application screen (the red signal icon). The app will begin scanning for available devices. If no device appears automatically, wait a few moments while the system searches for nearby devices. Once the available device(s) are displayed on the screen, select the correct device name from the list. After selecting the device, the application will initiate the connection process. When the connection is successfully established, the signal icon will turn green, indicating that the device is properly connected.



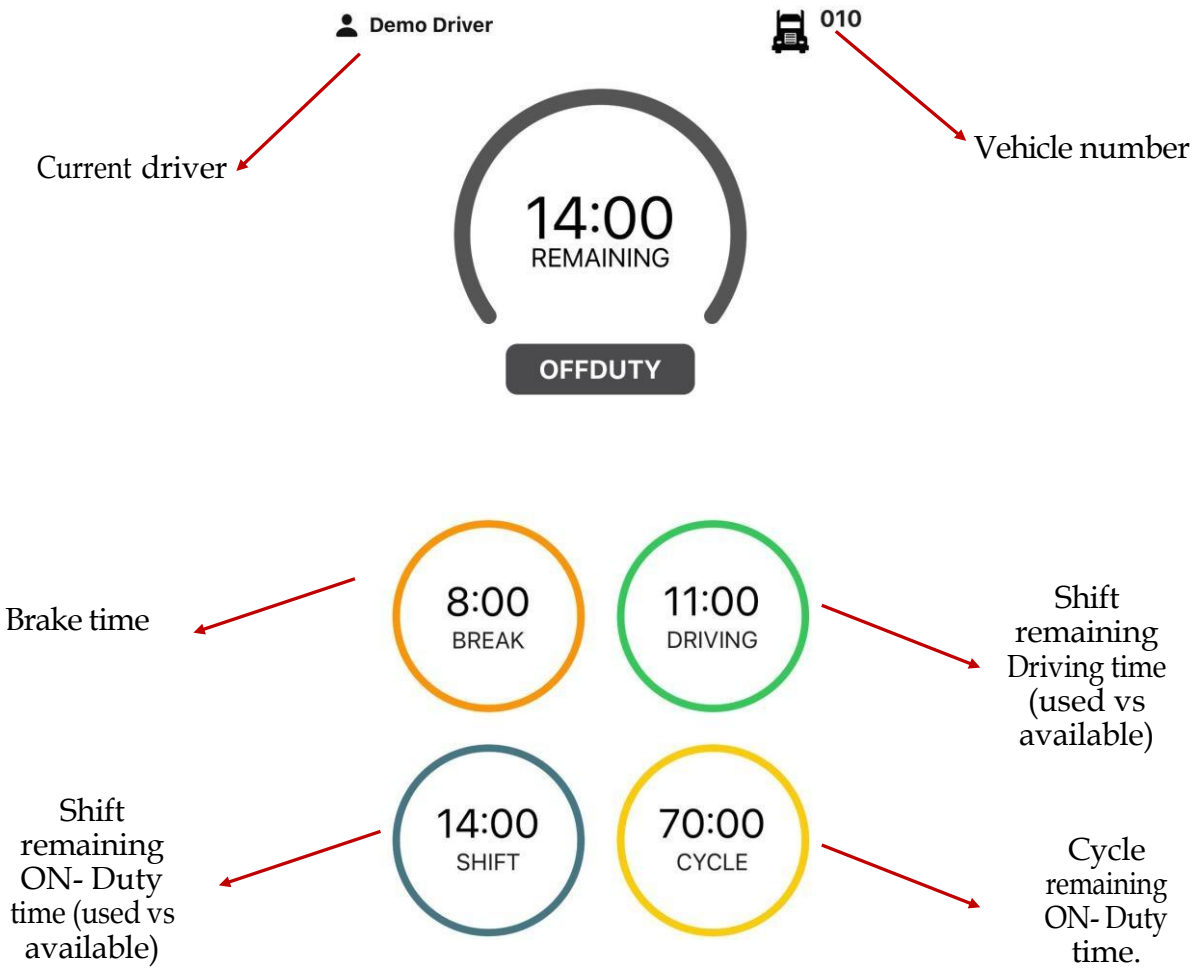
CHANGE EQUIPMENT

The Change Equipment feature allows drivers to update the assigned vehicle and trailer directly within the ELD application. It is important to ensure that the correct equipment is selected before starting a trip to maintain accurate vehicle records and compliance.

On the main screen, locate the vehicle icon displayed beside your name and tap on it to open the equipment selection screen. To select a vehicle, tap on the currently displayed vehicle name, and a list of available vehicles assigned to your account will appear. Choose the correct vehicle from the list. Next, tap on the trailer name field to view the available trailers and select the appropriate one from the list. After making your selections, save the changes to confirm and update your assigned equipment.



ELD Main Operation Screen Interactions



Time Remaining

The three donuts constantly show the actual time spent on each status (driving, ON- Duty and cycle ON-Duty). The corresponding donut will turn yellow or red to indicate proximity to the time limit.

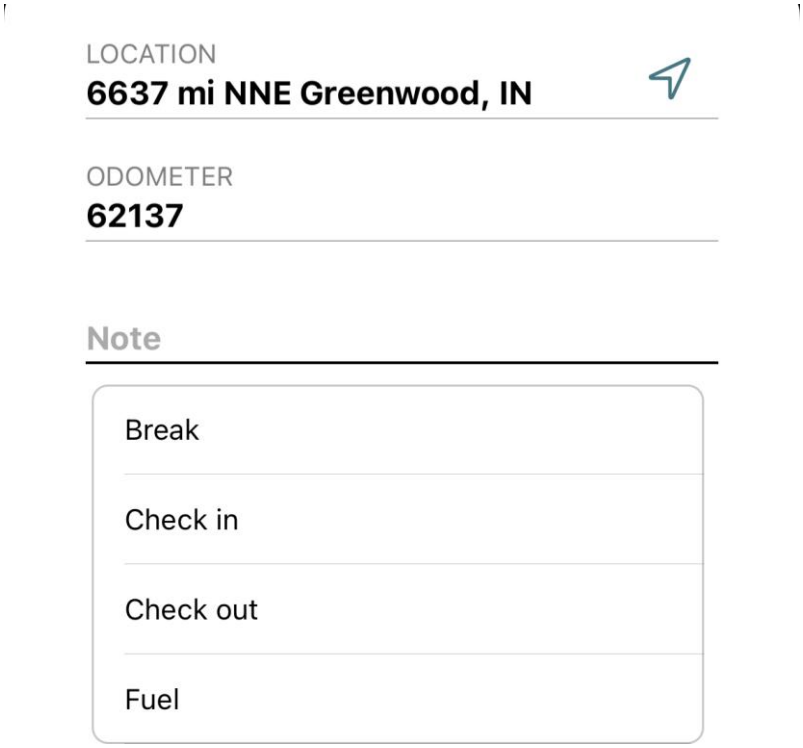
Recap

In the Recap section, when you click on it, you can review the driver's Hours of Service summary. It displays the total On-Duty time for the previous 7 days, along with the remaining cycle hours available. It also shows the gain time for the next day, calculated based on the hours that will roll off. This allows the driver to clearly understand how many hours will be available for use on the following day.

Date	ONDUTY
2026/02/23	00:55
2026/02/22	06:02
2026/02/21	00:00
2026/02/20	01:58
2026/02/19	00:31
2026/02/18	00:00
2026/02/17	00:00
2026/02/16	00:00
Cycle Time	63:03
Gain Time	00:00
Available Time Tomorrow	63:03

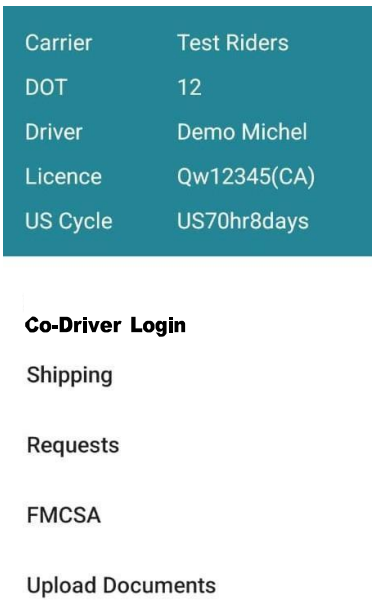
Annotations & Remarks

When changing to (and out of) ON-DUTY, YARD and PERSONAL duty status, the ELD will show you the pre-defined remarks to simplify the use of the ELD. You can also type your own remark:



Co-Driver Operation

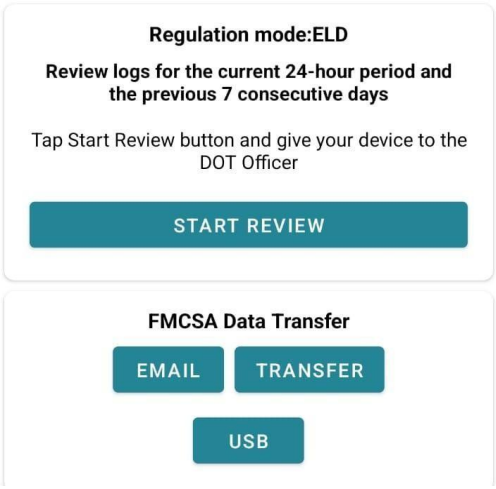
A co-driver can authenticate by tapping on the currently active driver button (which brings the login screen) or the co-driver can go to the menu and select the Co-Driver Login option.

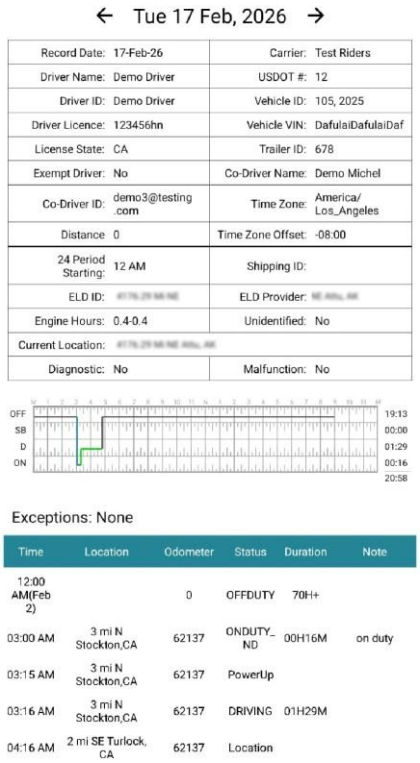


ROADSIDE INSPECTION (FMCSA MODE)

The Roadside Inspection feature allows drivers to present their electronic logs to a safety official during an inspection. This mode provides access to required Hours of Service (HOS) records in a standardized format.

Tap the menu icon located on the left side of the screen to open the main navigation panel. From the menu list, select FMCSA to access the Roadside Inspection mode. Then tap the Start Review button, and the system will enter inspection mode, displaying the required driver logs and relevant information. Once the inspection mode is active, hand the mobile device to the inspecting officer and allow them to review the logs and related details directly on the screen.

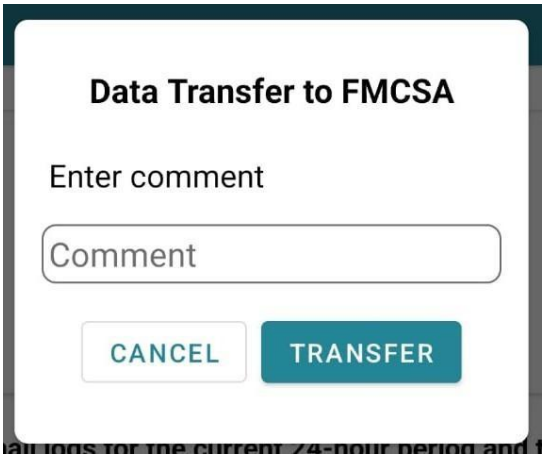




Transfer Logs to FMCSA – Via Web Services

The Web Services option sends the required log data directly to the FMCSA system using the secure transfer method supported by the ELD.

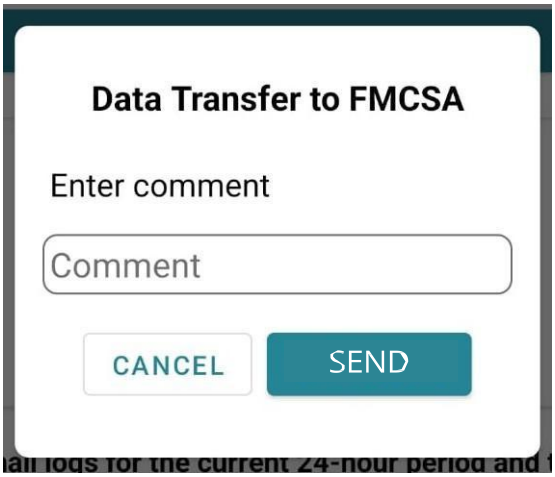
While in Roadside Inspection (FMCSA) mode, locate and tap the TRANSFER button on the screen. The system will prompt you to choose the preferred data transfer method. After selecting the method, a text box will appear where you may enter the required comment or output file comment code, if applicable. Once the comment has been entered, tap the TRANSFER button again to submit the report. The system will then securely transmit the required ELD output file to the FMCSA through Web Services.



Transfer Logs to FMCSA – Via Email

The Email option sends the required log data directly to the FMCSA system using the secure transfer method supported by the ELD.

While in Roadside Inspection (FMCSA) mode, locate and tap the EMAIL button on the screen. The system will prompt you to proceed with the email data transfer method. A text box will then appear where you may enter the required comment or output file comment code, if applicable. After entering the comment, tap the SEND button to submit the report. The system will securely transmit the required ELD output file to the FMCSA via email.

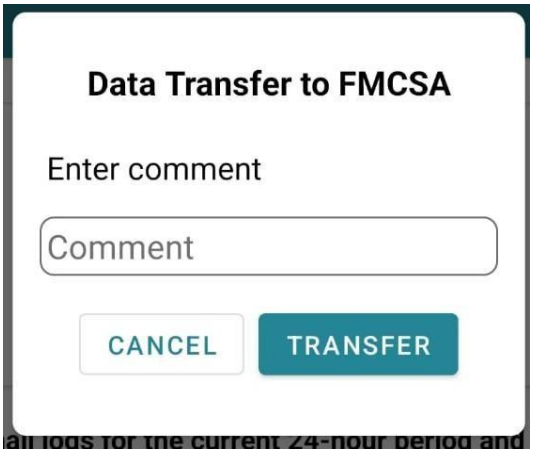


Transfer Logs to FMCSA – Via Bluetooth

In this method, the ELD data is transferred via Bluetooth to the officer's device and then submitted to FMCSA through Web Services.

In Roadside Inspection (FMCSA) mode, the ELD can transmit the required output file via Bluetooth. The safety official's device will receive the file, and the officer's device will then use its internet connection to securely submit the report to FMCSA through Web Services.

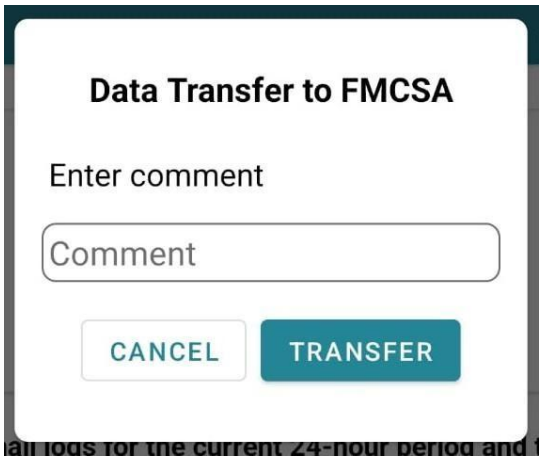
To begin the process, tap the TRANSFER button while in Roadside Inspection mode. A text box will appear on the screen where you can enter the required comment or output file comment code, if applicable. After entering the necessary information, tap the Transfer button to initiate the Bluetooth data transfer. Follow the on-screen instructions to complete the pairing process with the officer's device. Once the transfer is successfully completed, a confirmation message will appear on the screen indicating that the file has been transmitted successfully.



Transfer Logs to FMCSA – Via USB

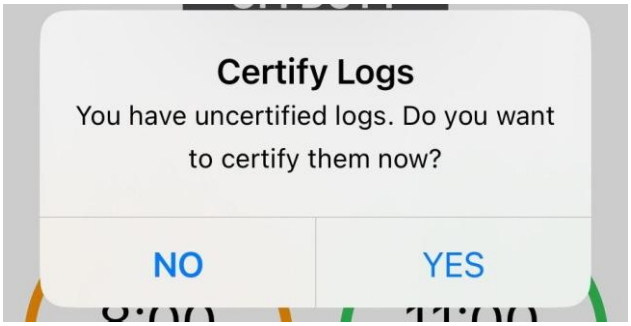
The USB Transfer option allows drivers to export required ELD records directly to a safety official's inspection device using a physical USB connection

Attach the USB drive to the mobile device using the appropriate adapter, if required, and ensure that the USB device is properly detected by the system. While in Roadside Inspection (FMCSA) mode, tap the TRANSFER button and select USB as the transfer option. Enter the required transfer code provided by the safety official, then tap Transfer to begin exporting the file. The ELD output file will be generated and saved to the connected USB device. Wait for the confirmation message indicating "Transfer Successful", and do not remove the USB device until the confirmation appears to ensure the file is properly saved.



Log Certification

Every duty status change must be certified before exporting the driver's logs. Select the "Certify Logs" option from the menu to list all unverified logs. Select each day and tap on the "Certify" button. At the end of each 24-hour period, the ELD will automatically prompt the driver to certify logs for the last 24 hours period. During the driver login and logout, the driver will be prompted to certify the logs.



You can also certify your logs at any time by going to the main menu and selecting Certify Logs. Select the day or days you would like to certify:

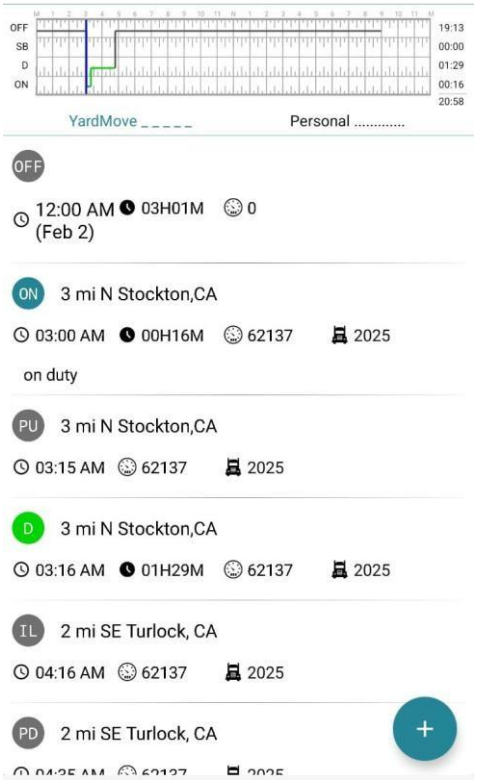
Navigate to the Logs section from the bottom menu and make sure you are viewing the correct date that needs to be certified. Locate the Certify button in the top-right corner of the screen and tap it to begin the certification process. After tapping Certify, a signature option will appear on the screen. Sign electronically using your finger on the signature pad to confirm that the log entries are true and correct. Once you have signed, tap Certify and Save to complete the process. The log will then be marked as Certified.



LOGS DASHBOARD

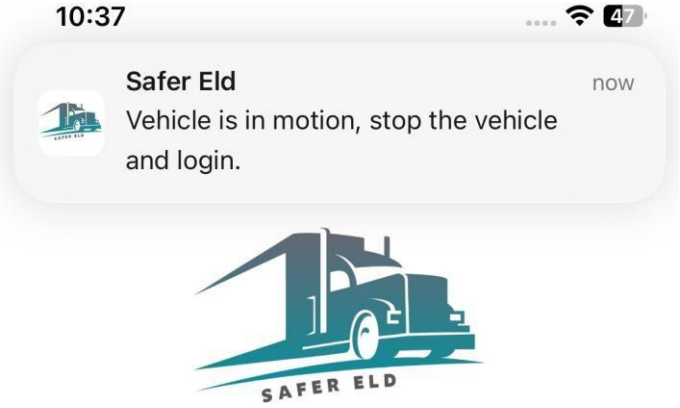
The Logs Dashboard provides a detailed view of your daily Hours of Service (HOS) records. This section allows drivers to review duty status changes, driving time, and total hours for any selected date.

To view your logs, open the Logs section from the main screen by tapping Logs in the bottom menu. The Logs Dashboard will open automatically, and by default, the current day's log will be displayed. You will see the duty status graph along with a summary of total hours for the day.
If you want to view logs from a different date, tap on the date selector at the top of the screen and choose the desired date from the calendar view. Once selected, the system will automatically load that day's logs, including the duty status graph, total hours summary, and detailed event information for that specific date.



Unidentified Driving

Once the vehicle, to which the ELD is connected to, begins moving a Driving event is created. The ELD will show a visual and audible notification indicating the driver to stop and authenticate on the ELD. The driver could continue to the destination, authenticate later on and review/accept unidentified events.



DRIVING WITH ELD

The ELD application automatically records driving activity once the ELD device is properly connected to the vehicle. This ensures accurate tracking of driving time and compliance with Hours of Service (HOS) regulations.

Once the ELD device is successfully connected and the signal indicator is green, the system begins monitoring vehicle movement.
When the vehicle reaches a speed of 5 mph or more, the driver's duty status will automatically change to Driving.
This status change happens automatically and does not require manual input
Automatic Reminder
If the vehicle remains stopped and no duty status is selected within 5 minutes,
The system will automatically change your duty status to On Duty (Not Driving).



Data Diagnostic and Malfunctions

1- Power Data/Compliance Diagnostic (ECM parameters must be available within 1 minute of powering the vehicle's engine on) *Resolution: Make sure you are connected to the ECM device. On the menu, go to Scan Devices and select your ECM device. Make sure all engine parameters pass the diagnostics (all green)*

2- Engine Synchronization Data Diagnostic (not all ECM parameters are available when the ELD records an event e.g. duty status change) *Resolution: Make sure you are connected to the ECM device. On the menu, go to Scan Devices and select your ECM device. Make sure the diagnostic passes all engine parameters (all green)*

3- Missing Required Data Elements Data Diagnostic (other required data e.g. location, coordinates) not available when recording an event)
Resolution: Make sure the GPS module is enabled on your ELD

4- Data Transfer Data Diagnostic (An ELD must verify this functionality at least once every 7 days) *Resolution: Verify that you have an active cellular or wifi connection all the time. Confirm that your logs are always updated on the ELD portal*

5- Unidentified Driving Records Data Diagnostic (more than 30 minutes of driving without a driver logged on the ELD) *Resolution: You are not logged on the ELD and the vehicle moves for an extended period. Please log in and select your Driving time*

6- Other ELD identified Diagnostic (ELD provider may implement additional, technology-specific malfunction and data diagnostic detection schemes)
MALFUNCTIONS *(most malfunctions relate to a Diagnostic, but a malfunction is generated when the same diagnostic occurs for at least 30 minutes in the last 24 hours):*

P- Power Compliance (related to diagnostic 1) **E-** Engine Synchronization Compliance (related to diagnostic 2, for instance
multiple periods of no ECM data that, when added together are more than 30 minutes in the last 24 hours)
T- Timing Compliance (the time on the ELD, compared to an external time source
are different)
Resolution: Make sure the date and time on your mobile device is properly set. DO NOT (manually) change the date or the time on your ELD

L- Positioning Compliance (no location available, (related to diagnostic 1)

R Data Recording Compliance (monitor storage capability to store records)

Resolution: Make sure you have sufficient internal storage on your ELD. Delete files if nece ss ar y

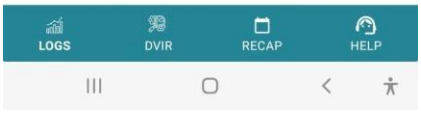
S- Data Transfer Compliance (ELD records not able to be uploaded)

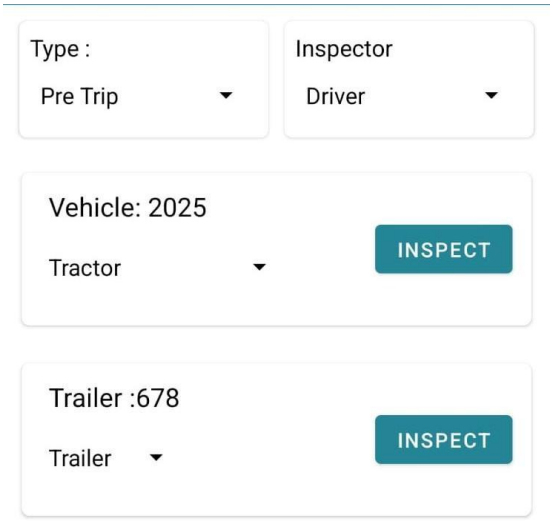
Resolution: You probably don't have internet access. Restart the ELD (if needed) and confirm you reconnect to the network

Driver Vehicle Inspection Reports (DVIR)

The DVIR (Driver Vehicle Inspection Report) feature allows drivers to perform and document required vehicle inspections directly within the ELD application. Completing a DVIR helps ensure vehicle safety, proper maintenance, and regulatory compliance

From the main screen, tap the DVIR tab located in the bottom panel of the application. Select the appropriate DVIR form, such as Pre-Trip or Post-Trip inspection, and then tap Inspect to begin the inspection process. Carefully review each inspection category and component listed in the form, and select the appropriate vehicle condition for each item. After completing the inspection, sign the DVIR electronically using the in-app signature option. Your signature confirms that the inspection has been completed and that the information provided is accurate. Finally, tap the Save button to complete and submit the DVIR report.





👍	**Air Compressor / Compresor de...**	💬
👍	**Air Lines / Lineas de Aire**	💬
👍	**Battery / Bateria**	💬
👎	**Belts and Hoses / Correas y Ma...** Not working	💬
👍	**Body / Cuerpo**	💬
👍	**Brake Accessories / Accesorios...**	💬
👍	**Brakes, Parking / Frenos, Aparc...**	💬
👍	**Brakes, Service / Frenos, Servicio**	💬
👍	**Clutch / Embrague**	💬
👍	**Coupling Devices / Dispositivos...**	💬
👍	**Defroster/Heater / Descongelad...**	💬
👍	**Drive Line / Linea de Impulsion**	💬
👍	**Engine / Motor**	💬
👍	**Exhaust / Escape**	💬
👍	**Fifth Wheel / Quinta Rueda**	💬

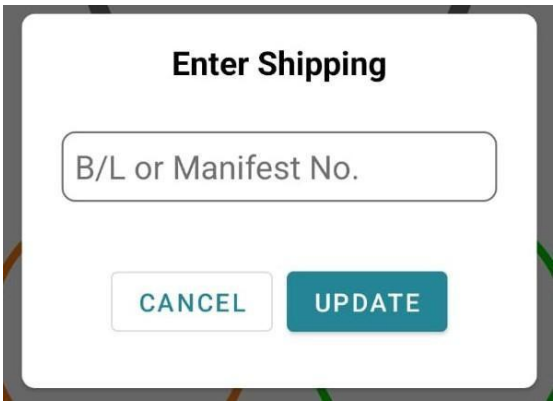
On the last step, enter the remark and sign the inspection report:



SHIPPING DOCUMENT ENTRY

The Shipping section allows drivers to enter and manage shipment details within the ELD app

To add shipping details, first open the App Menu and tap on Shipping. Enter all the required shipping information carefully, ensuring that it exactly matches the details on your physical shipping documents to avoid any discrepancies. After completing the form, review all the entered information thoroughly to confirm accuracy. Once everything is correct, tap Save to proceed. The shipping document will then be successfully linked to your current trip and automatically recorded in your driver logs for compliance and future reference.



DUTY STATUS

The Duty Status feature allows drivers to manually update their current work status within the ELD application. Maintaining accurate duty status entries is essential for proper Hours of Service (HOS) tracking and regulatory compliance.

From the main screen, tap the Status button to open the duty status selection screen, where all available status options will be displayed. Select your current duty status from the list, such as Off Duty, Sleeper Berth, or On Duty (Not Driving). Please note that the Driving status is recorded automatically when the vehicle reaches 5 mph or more. The odometer reading will automatically populate from the connected ELD device, and the system will also record your current location automatically. After selecting the appropriate status, tap the Save button to confirm and update your duty status.

