



November 2019 -Rev. 1.55  
Driver must carry this document, either on paper or electronically, inside the vehicle

## Top Tracking System - Hours of Service (HOS) Mobile APP© - Driver’s Guide Booklet

### Contents

- Introduction and compliance ..... 2
- FMCSA certification ..... 3
- Account types (driver, support personnel, non-authenticated) ..... 3
- LOGGING ON*
- Driver login and Support Personnel ..... 4
- Bluetooth device discovery and pairing. ELD diagnostic ..... 4
- DRIVER’S ACTIVITIES - BEFORE CHANGING DRIVER STATUS*
- Vehicle profile ..... 6
- Driver’s profile. Team drivers ..... 5
- Creating shipments ..... 7
- Assumption of unidentified records ..... 7
- Malfunction/Diagnostic indicators ..... 8
- WORKING WITH THE APP AND CREATING DRIVER LOGS*
- Personal use, yard moves and exemptions ..... 8
- Changing driver’s status and Principal screen ..... 8
- Remaining times ..... 9
- Violations (proactive notifications and occurrence) ..... 9
- Reviewing, editing, exporting and certifying driver’s logs ..... 10
- DOT Inspection (ELD LOCK) ..... 14
- Creating annotations ..... 14

### Introduction and compliance

The latest HOS Mobile APP, released on the first half of 2015, is compliant with US Federal FMCSA title 49 part 395 AOB RD 395.15, 395.16 and the latest modifications to the rule including the current suspension of the two 1am to 5am OFF duty periods for the 34 hours restart.

There is Certification menu option that indicates that the mobile APP, mobile device used were self-certified according to federal requirement.

The driver's log file exported by the mobile APP is generated according to the latest ELD data element dictionary released by FMCSA.

### Regulations the mobile APP is compliant with:

- 60-hour/7 days or 70-hour/8 days Rules
- 34 hour week restart with latest suspension of two periods 1-5am
- 11 hours driving for the day
- 14 hours on duty for the day
- Sleeper Berth provision
- Passenger Seat provision
- Personal Conveyance provision
- 30 minutes break provision
- Canada Cycle 1 and 2 Regulations
- Location recording for vehicle’s engine turned on and off, and location recording every 60 minutes if vehicle is moving
- Mobile device permits duty status changes only when the vehicle is at rest
- The mobile device warns the driver, visually and/or audibly of any malfunction
- When the vehicle is stationary for 5 minutes or more, the mobile device will default to on-duty not driving and the driver must enter the proper status
- The mobile device (ELD) performs self-test, as well as a self-test at any point upon request of an authorized safety assurance official

### The HOS Mobile APP is not compliant for (exclusions):

- Passenger-carrying vehicles
- States of Hawaii and Alaska

## FMCSA registration

As a substitution to an exterior faceplate, a “Certification” menu item will display the certification image as evidence that the mobile device has been tested, certified and approved as meeting the performance requirements.



## Account types

**Driver:** Unique, per-driver account used by drivers under 49 CFR Parts 385, 386, 390, and 395 regulations (hereon HOS). This account records duty status changes (RODS) and allows the export of driver's records for display, print and agent output file generation.

**Support:** Account used by the carrier and ELD manufacturer to setup, configure, update and troubleshoot the ELD. No duty status changes are recorded with this account and no access to driver's record of duty status changes is permitted under the support account.

**Non-authenticated:** All operation of a commercial motor vehicle (CMV) is recorded under this account (a.k.a Unidentified Driver) if no driver has logged into the ELD. Non-authenticated records (vehicle movement and on-duty time) are stored on the ELD as well as the carrier and should be assumed by a driver account.

## Support personnel

The TTSP3T ELD supports multiple ECM-linked devices including wireless and wired hardware. For wired devices (e.g. Suntech ST20, CalAmp LMU4230, CalAmp VeoSphere) the tablet must be plugged to the ECM-linked device at all times in order to read required ECM data.

**For the ELD to properly read required engine data, the vehicle's engine must be turned on and running.** Please, wait for about 10 seconds, after turning the engine on, for the engine data to be available.

**When an ELD is installed the first time, support personnel must do the initial configuration and diagnostic of the ELD.**

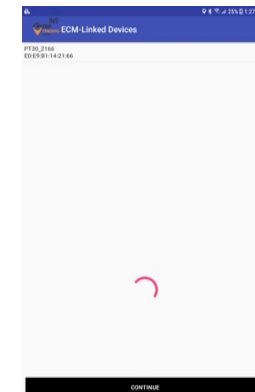
### Bluetooth discovery and pairing. ELD Diagnostic

From the login screen select the Support option from the menu (top right corner). The support personnel will scan for ECM-Link devices. *Bluetooth must be enabled on the phone/tablet.*

In order to help you identify the ECM-linked device you need to connect to, some vehicles are equipped with a small decal showing the ECM-linked device ID:

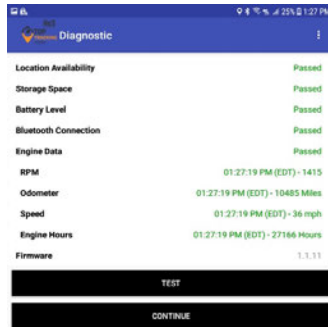


On the ELD, select the ECM-linked device's ID showing on the dashboard's decal (if vehicle equipped with decal).



Once the ECM-Link device shows in the screen, tap on it and a diagnostic will be performed on the ELD to make sure all necessary functionality is available. Once the diagnostic passes, the ELD is ready for driver operation. In order for the ELD to be compliant several parameters must be acquired from the vehicle's Engine Control Module (ECM) and other internal systems have to be verified.

During the diagnostic, the mobile APP will begin collecting the necessary engine data. Support personnel can only release the ELD for driver use after all ELD diagnostics were successfully performed:



### Driver login

Each driver using the system will have a unique login ID. This login name and password is for the specific driver's use only and must not be shared with any other person (driver or not). The login name belongs to the driver and is linked to the driver's personal information (e.g. driver's license, etcetera). If the driver changes carrier and is now driving for a different carrier, the login name will remain the same and is the driver's obligation to ask the home base carrier to update carrier name and DOT number on the system. The driver is restricted to be logged on to only one mobile device at any time. In order for the driver to logon on a different mobile device, the driver must change to off duty status and logout from the previous device. *Driver's login unlock.* In an event the driver is still logged on a device but the device ceased to function or gets lost, the driver must call the home base carrier and ask for his login name to be unlocked. The unlock process will change the driver's status to off duty at the time the driver solicited the login unlock and will deregister the old mobile device from the system in order to let the driver log on a different mobile device.

This process can also be made, at any time, by a driver in case the driver switch trucks or a Diagnostic/Malfunction indicator is turned red (go to the Menu and select Diagnostic).

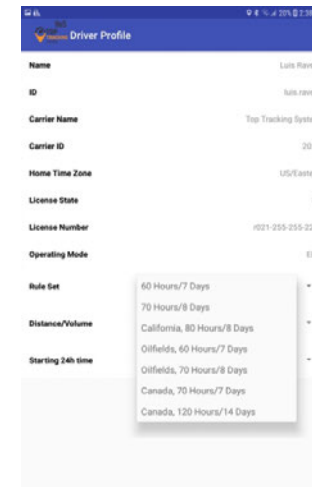
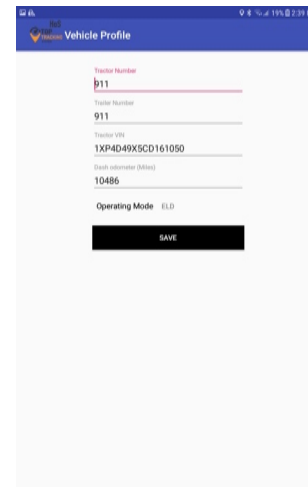
### Vehicle profile

Before driver's logs can be exported and shared with an authorized agent, the driver must update the correct vehicle's information. Please enter the correct tractor number, trailer number, tractor VIN number as well as the odometer reading on the truck's dashboard . Select the "Vehicle Profile" option from the menu.

### Driver profile and team drivers

We recommend to verify the driver's profile. Please make sure the information is correct: carrier name, your rule set (60-hour or 70-hour) and the home base time zone.

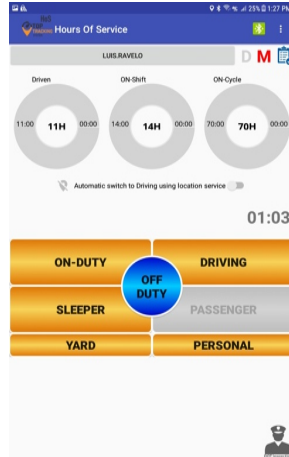
Select the Rule Set drop-down to change rule set from 60h to 70h and vice versa.



*Team drivers:* Up to two drivers are allowed to log on the same mobile device. Records and logs are generated for each independent driver showing the other driver as co-driver. To logon a second driver just tap on the name of the currently logged driver on the APP's Principal screen.

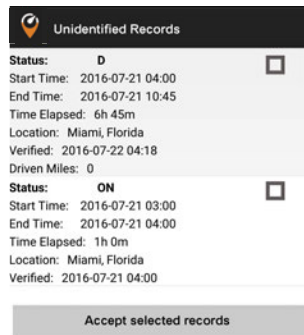
### Creating shipments

The driver should create a shipment on the mobile APP. Please select the option "Shipment" from the menu. Make sure you enter the correct shipment's pick-up and delivery time, as well as the shipper name, shipment number and the commodity you are transporting. The information provided here must match the driver's supporting documents.



### Assumption of unidentified records

The ELD is designed to record all vehicle movements and stop time during movements on an un-authenticated account. Please, during the login process, accept the unidentified records that belong to you by tapping on the checkboxes and then selecting "Accept selected records".

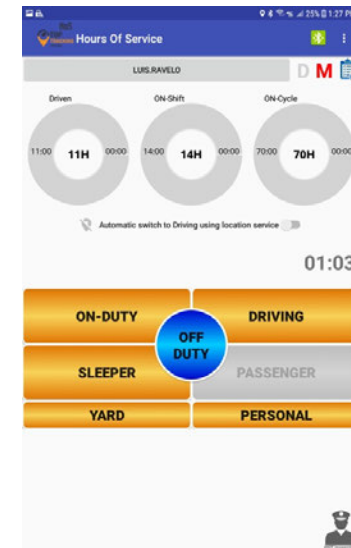
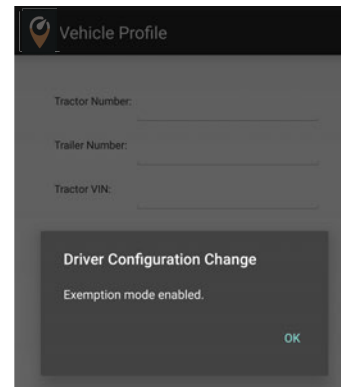


### Malfunction/diagnostic indicators

If the M (malfunction) or D (Diagnostic) indicators, located on the top right corner of the ELD turn red please contact your support personnel. This is an indication of an ELD failure and requires immediate attention. To identify the specific ELD malfunction run the Diagnostic option on the main Menu.

### Personal use, yard moves and exemptions

There are 3 ELD operational modes that have been added to help drivers on specific scenarios. These 3 modes are activated only by the carrier and will be shown during the login and logout process.



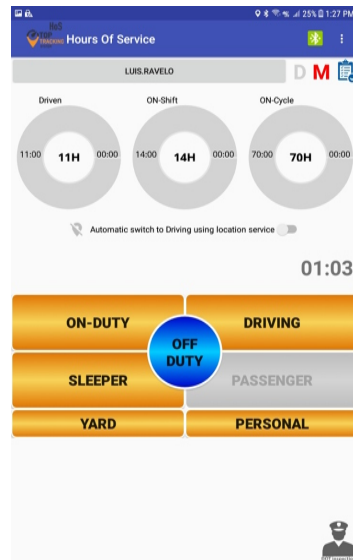
### Changing driver status and principal screen

The Principal screen is where duty status changes are made. There are five different options for the driver to pick from. Besides the normal duty status, the mobile APP includes support for Personal Conveyance and Yard Moves.

The mobile APP also keeps track of possible violations under the “Remaining” session.

Please tab on any of the following duty status:

- ON** -- on duty status
- D** -- driving status
- SB** -- sleeper berth
- PS** -- passenger seat
- Personal** -- for personal conveyance (use)
- OFF** – off duty status



**Remaining times**

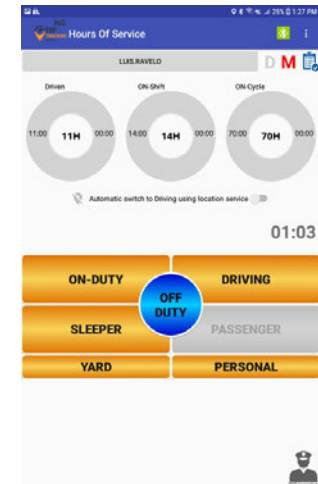
The mobile APP automatically calculates the different times at which a violation will take place. The time spent on the current duty status us is also shown (on this picture: 100 hours and 16 minutes)

**Violations (proactive notifications and occurrence)**

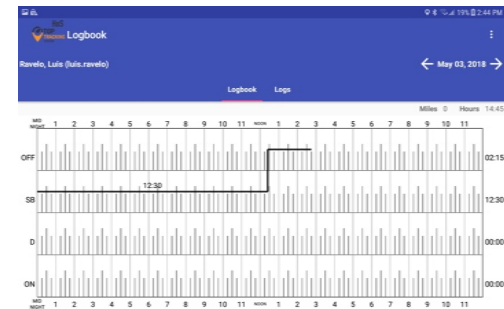
The mobile APP automatically calculates the different times at which a violation will take place. For every possible violation a visual notification is generated so that the driver becomes aware of the upcoming violation and takes preventive action. This notification is generated 30 minutes before incurring in a specific violation. The driver is also notified right after a violation took place. Please, we recommend to frequently check the “Remaining” session on the Principal screen to remain aware of remaining driving time.

**Reviewing, editing, exporting and certifying driver logs**

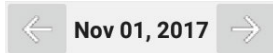
Every duty status change must be certified before exporting the driver's logs. Select the “Certify Logs” option from the menu to list all unverified logs. Select each day and tap on the “Certify” button. At the end of each 24-hour period, the ELD will automatically prompt the driver to certify logs for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



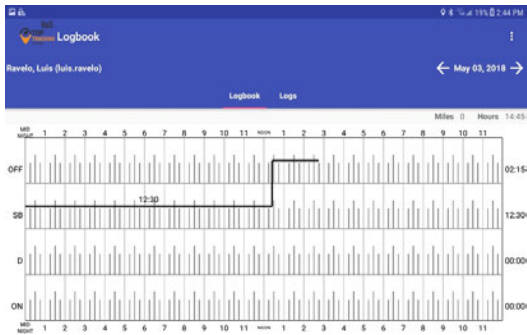
To view your Logbook, edit your logs or export Logs/ELD data file, go to the “Logbook” option in the menu.



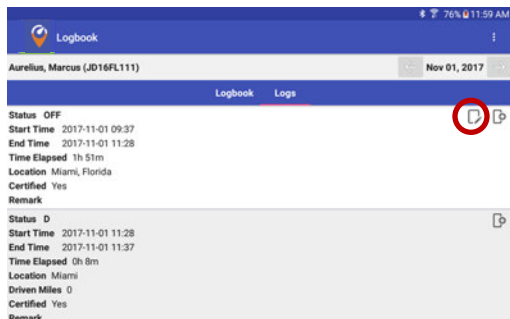
You can move to a different day by selecting the calendar:



The Logbook tab shows the logbook for the selected day and the Logs tab has a list with all the logs for that day where you can edit an existing log. You can use the mobile device's swipe option to move between the Logbook and the Logs tabs:



*Editing an existing record:* On the Logs tab select the edit icon. Make the necessary changes, input the mandatory remark explaining the reason of the change and then Confirm Changes. Remember, driving time cannot be changed! Daily ON-DUTY, cycle ON-DUTY and possible violations will be calculated according to the new record change.

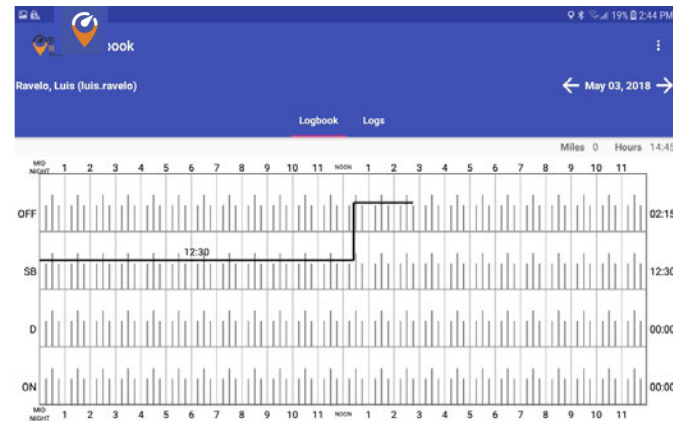


### Logbook and exporting driver logs

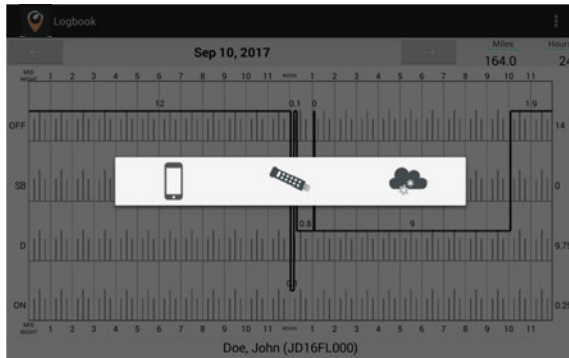
You can generate a chart with your logs at any time. Tap on the "Logbook" option from the menu. Use the right/left buttons to select a different day.

If an authorized federal agent request to see the driver's logs, select the option "Export ELD Data File" from the Logbook menu. The Driver Logs file is automatically created in directory "HOSFolder" inside the mobile device internal storage. Please use the appropriate USB cable to connect the mobile device to the federal agent's computer/laptop or to USB memory stick (A-type). You can also email the "ELD Data File" to an email given to you by the authorized agent. Please, use your email mobile app of preference taking into consideration that the data file is in HOSFolder. The data file is the only CSV file located in the HOSFolder.

You can also display or print the Logbook by selecting "Print-Display Logs" option. In this case, you can print the PDF file saved on the HOSFolder.

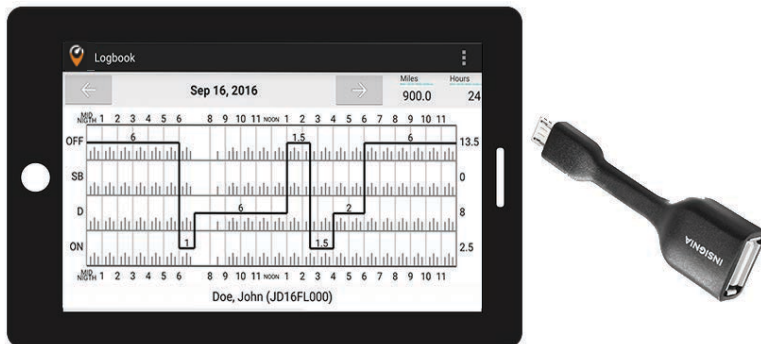


When selecting "Export ELD Data File", three different options are shown:



The first option is save the ELD data file locally on your phone/device. The data file is the only CSV file located in the HOSFolder.  
 The second option is used during roadside inspection and the ELD data file is saved on the DOT external storage device. A validation is first made to confirm that the attached external storage is a valid, FMCSA-defined, device.  
 The third option is to send the ELD data file to FMCSA's public web service.

**You need to carry an On-The-Go (OTG) USB adapter to insert the agent's external memory.** Insert the micro-USB into your phone/tablet and the memory stick into the other end before exporting the ELD data file.



### Dot inspection button (Eld lock)

If you are stopped by a roadside agent, select the DOT Inspection button on the bottom right corner (main screen).



If you want to have your Logbooks ready, for the last 8 days, select PRINT-DISPLAY LOGS and a PDF will be created including information for the last 8 days.

**IMPORTANT NOTE: The ELD is locked at this moment and the driver must re-enter his/her password in order to unlock the ELD!**

### Creating annotations

The driver can create annotations in order to note changes to previous status.  
*To create an annotation:* tap on the "Logs" option in the menu. You will see a list with all different status changes. Tap on the annotation icon for the log you want to add an annotation to. Enter a text explaining the annotation.  
*To view existing annotations:* Tap on the "Annotations" option in the Principal's screen menu.

## LIST OF SUPPORTED ENGINE SYNCHRONIZATION (ECM) DEVICES



apollo Interpreter



A-Track AX9



A-Track AX7B



A-Track AX11



A-Track AK11



CalAmp LM42xx



CalAmp V-series



CalAmp 3640



DCT Syrus 3GBL



ERM StarLink



Fleetilla LX200



Geometris 80



Sierra Wireless GNX6



Suntech ST20



Teltonika FM3001



Wireless Link



iOSix



Pacific Track PT30



ELD4U

## DETAILED MALFUNCTION/DIAGNOSTIC CODES

### DIAGNOSTICS:

**1- Power Data 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 the diagnostic passes all engine parameters (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 GPS module is enabled on your ELD*

**4- 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 vehicle move for an extended period of time. Please login and select your Driving time*

**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 necessary*

**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*