Earthwave Technologies® – Fleetwatcher E-Logs

November 2016 / V1.0.1621
Document Information

Version History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Author</th>
<th>Reviewer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1621</td>
<td>10/26</td>
<td>Editha Dura</td>
<td>Roel Sinadjan</td>
</tr>
</tbody>
</table>

Sign Off

Earthwave Technologies

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
</table>

Partner Name

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
</table>
Copyright
© Earthwave Technologies 2016. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or by any means or stored in any retrieval system of any nature without prior written permission except as expressly permitted by any written contract signed by Earthwave Technologies with the recipient.

The contents of this documentation are the confidential information of Earthwave Technologies and are subject to the provisions of Earthwave Technologies standard Customer Agreement or Non-disclosure Agreement (as relevant) or any similar agreement signed by Earthwave Technologies and entered into with the recipient. The contents of this documentation (or any part or it) must not be used or disclosed to any third party by the recipient except as expressly permitted by the relevant agreement. If you (or your company) have not signed an agreement with Earthwave Technologies you must not use this documentation, must treat it as strictly confidential and must promptly return it to Earthwave Technologies.

Change History

This section details what changes have been made in order to prompt a new version of this product specification:

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Author(s)</th>
<th>Section Page No.</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Contents

1 Main Screen .............................................................................................................................................. 7
  1.1 Using the HOS Action Bar ..................................................................................................................... 7

2 Customizing the HOS App Preferences .................................................................................................... 8
  2.1 Hours of Service Settings ..................................................................................................................... 8
    2.1.1 Set Hours of Service Preferences ................................................................................................... 8
    2.1.2 Capturing the Driver’s Signature ..................................................................................................... 9
    2.1.3 Customizing the Carrier Information ............................................................................................. 10
    2.1.4 Driving Rules .................................................................................................................................. 11
  2.2 Device Preferences ................................................................................................................................ 17

3 Familiarizing the Hours of Service Main Screen Tiles ............................................................................ 20
  3.1 Time Remaining Tile ............................................................................................................................ 20
  3.2 Changing the Driver’s Duty Status ....................................................................................................... 21
  3.3 Recap .................................................................................................................................................... 23
  3.4 Start Break ............................................................................................................................................ 23
  3.5 Data Transfer ....................................................................................................................................... 25
  3.6 Options ................................................................................................................................................ 29
  3.7 Logs ..................................................................................................................................................... 29
  3.8 DVIR .................................................................................................................................................... 30
  3.9 Shift/Cycle .......................................................................................................................................... 30

4 Check Driver Availability ......................................................................................................................... 31

5 Driver Logs .............................................................................................................................................. 31
  5.1 Using the Driver Logs Bulk/ Multiple Selection Functions .................................................................. 32
  5.2 The Driver Logs Accordion Header Features ....................................................................................... 33
    5.2.1 Daily Driver’s Log Entry Check-box (Uncertified Log) ................................................................. 33
    5.2.2 Daily Driver’s Log Entry Check-box (Already Certified) .............................................................. 33
    5.2.3 Daily Driver’s Title Log (Recertify Log) ......................................................................................... 33
    5.2.4 Recap ............................................................................................................................................. 34
    5.2.5 Daily Drivers Log Grid ................................................................................................................... 35
    5.2.6 Edit Daily Drivers Log Form ......................................................................................................... 36
    5.2.7 Shipment Details ............................................................................................................................ 37
    5.2.8 Miles Driven by State .................................................................................................................... 38
5.2.9 DVIR .................................................................................................................. 39
5.2.10 Certify a Log .................................................................................................... 40
5.2.11 Edit a Log ......................................................................................................... 42
5.3 Malfunction and Data Diagnostic Events .............................................................. 50
5.4 DVIR ....................................................................................................................... 56
  5.4.1 DVIR Feature – Main Navigation Menu ............................................................. 56
  5.4.2 DVIR Feature – Hours of Service Main Screen ............................................... 56
  5.4.3 Selecting Your DVIR Type ................................................................................ 57
  5.4.4 Starting Your DVIR .......................................................................................... 58
  5.4.5 Completing the First DVIR Area ....................................................................... 58
  5.4.6 Capturing an Image of a DVIR Item ................................................................. 59
  5.4.7 Add a Comment or Remark to a DVIR Item ..................................................... 60
  5.4.8 Finishing / Certifying Your DVIR ................................................................. 61
  5.4.9 Submit or Certify the DVIR ............................................................................. 64
  5.4.10 Deleting a Vehicle DVIR .............................................................................. 64
6 Roadside Inspection .................................................................................................. 65
  6.1 Roadside Inspection – Main Navigation Menu ...................................................... 65
  6.2 Roadside Inspection – Options Menu .................................................................... 66
  6.3 Inspection Screen – Start Review ......................................................................... 66
  6.4 Roadside Inspection Screen – Email Logs ............................................................ 67
7 Switch Truck ............................................................................................................. 68
  7.1 Switch Truck – Main Navigation Menu ............................................................... 68
  7.2 Options Menu ....................................................................................................... 69
  7.3 Switch Truck – DVIR Screen .............................................................................. 69
  7.4 Switching Vehicle / Trailer ................................................................................ 70
  7.5 Managing Vehicles / Trailers ............................................................................. 71
    7.5.1 Manage Vehicles / Trailers – Delete ............................................................. 71
    7.5.2 Manage Vehicles / Trailers - Edit ................................................................. 72
    7.5.3 Manage Vehicles / Trailers – Add ................................................................. 73
8 Documents ............................................................................................................... 74
  8.1 Documents – Main Navigation Menu ................................................................. 74
  8.2 Documents – Options Menu .............................................................................. 75
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.3</td>
<td>Adding Documents</td>
<td>76</td>
</tr>
<tr>
<td>8.4</td>
<td>Editing / Deleting a Document</td>
<td>77</td>
</tr>
<tr>
<td>8.5</td>
<td>Emailing Documents</td>
<td>78</td>
</tr>
<tr>
<td>9</td>
<td>Co-Driver</td>
<td>79</td>
</tr>
<tr>
<td>9.1</td>
<td>Logon Co-Driver</td>
<td>79</td>
</tr>
<tr>
<td>9.2</td>
<td>Switch Driver</td>
<td>84</td>
</tr>
<tr>
<td>10</td>
<td>Shipping Documents</td>
<td>85</td>
</tr>
<tr>
<td>11</td>
<td>Add Remark</td>
<td>86</td>
</tr>
<tr>
<td>12</td>
<td>Exempt Driver</td>
<td>87</td>
</tr>
<tr>
<td>13</td>
<td>Logout</td>
<td>88</td>
</tr>
<tr>
<td>14</td>
<td>Unidentified Driving Events</td>
<td>89</td>
</tr>
<tr>
<td>15</td>
<td>Warning Features</td>
<td>90</td>
</tr>
<tr>
<td>16</td>
<td>List of Login Errors</td>
<td>91</td>
</tr>
</tbody>
</table>
1 Main Screen

The Hours of Service main screen is where you log your duty status events and which, in turn, determines your compliance with FMCSA Hours of Service Regulations. This screen also serves as your gateway to the rest of the app’s features.

The main screen also provides essential information about the app’s user:

- **Driver Name**: Displays the name of the driver who is logged in and whose logs are displayed
- **Vehicle Name**: Displays the driver’s vehicle name
- **Trailer Name**: Display’s the driver’s

**Note**: Can tap Vehicle and Trailer name to display Switch Vehicle Dialog.

1.1 Using the HOS Action Bar

The HOS Action Bar is the starting point for navigating to the different pages within the app and is always present in the app’s topmost portion:

The action bar features the following navigational controls of the app:

<table>
<thead>
<tr>
<th>Action Tool Name</th>
<th>Action Tool Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main navigation hamburger</td>
<td>🌐</td>
<td>Tap to open the main navigation menu of the application</td>
</tr>
<tr>
<td>Refresh Button</td>
<td>⌁</td>
<td>Tap to manually refresh the data in the app page. Hidden under ⌁ submenu icon once all icons are present.</td>
</tr>
<tr>
<td>Logout Button</td>
<td>¬</td>
<td>Tap to log out of the app, this will also set your status to Off Duty. Hidden under ¬ submenu icon once all icons are present.</td>
</tr>
<tr>
<td>Malfunction Button</td>
<td>M</td>
<td>Tap to see uncleared Malfunctions</td>
</tr>
<tr>
<td><strong>Data Diagnostics Button</strong></td>
<td>![D]</td>
<td>Tap to see uncleared Data Diagnostics. Turns into an accent color (based on the app’s theme) if there are new events and turns white when already viewed.</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>VBUS Connectivity</strong></td>
<td>![wb]</td>
<td>Indicates that the device is connected to a VBUS device. Turns when disconnected.</td>
</tr>
<tr>
<td><strong>Pending Edit Request Button</strong></td>
<td>![E]</td>
<td>Tap to display the pending edit request dialog, edit request is from Motor Carrier Edit Suggestions, correction of errors with Team Drivers, and Events logged under Unidentified Driver Profile.</td>
</tr>
<tr>
<td><strong>Connect Button</strong></td>
<td>![Connect]</td>
<td>Tap to display a dialog to Connect to Vehicle’s VBUS Device. It has the same capabilities as the VBUS icon.</td>
</tr>
</tbody>
</table>

### 2 Customizing the HOS App Preferences

The app’s settings and preferences can be customized in the Hours of Service Preferences screen.

To navigate to this part of the app, select the icon or swipe the screen to the right to display the main navigation menu, select the **Settings** option and then select the **Hours of Service** option, this will display the Settings screen.

### 2.1 Hours of Service Settings

#### 2.1.1 Set Hours of Service Preferences

This is where the basic driver, vehicle, carrier and shipping data is entered and stored within the app. The identification data stored here is then used by the app, web portal and in the driver’s daily log report.

- **After logging in to the app for the first time**

  When the app is used for the first time, the driver is taken directly to the Main Dashboard after which a Select Vehicle dialog box will be displayed requiring the driver to select a vehicle and trailer (if needed).
2.1.2 Capturing the Driver’s Signature

The app can capture the signature of the driver which is then used for digitally certifying a log. To create the driver signature, select the main navigation hamburger , select the Settings option and then select Hours of Service:

The Driver Information section of the screen will be displayed along with any signature that has been created for the driver. Tap on the icon to create or change the signature.
2.1.3 Customizing the Carrier Information

The carrier information can also be set from within the Hours of Service section (main navigation hamburger > Settings > Hours of Service) scroll the screen down to the Carrier Information section:

Create or update your signature in the app by using your finger to create your signature.

Tap the Done button to save your signature. You can also select the Clear button to clear the captured signature and start again.
Enter details for the following:

- Carrier Name
- Carrier DOT Number
- Main Office Address
- Phone Number
- Home Terminal Details of the driver

**Note:** Only users/drivers with Account Admin role are allowed to edit the fields, otherwise it will be disabled.

### 2.1.4 Driving Rules

This is where you change the HOS rules or the Federal Motor Carrier Safety Administration’s (FMCSA) regulations that govern the hour that a commercial vehicle driver can legally accumulate driving or being on duty for a motor carrier in a working day and week. This is also where you apply the HOS rules exceptions.
The driving rules can also be set from within the Hours of Service section (**main navigation hamburger > Settings > Hours of Service**) scroll the screen down to the **Driving Rules** section:

![Settings](image)

Select the appropriate HOS rules that you would like the app to use from the drop down list.

You can customize the region, cycle, cargo, exceptions and time zone rules

**Region**

This is where you can set the region, options are USA and Canada. The cycle and exceptions displayed is dependent on which region has been set by the driver.

**Note:** If the region selected is Canada, then the condition “Canada Off-Duty Deferral” is enabled. This means that you are allowed to get an extra two hours of driving and on duty in a 24 hour period (day 1) and take the required extra two hours off on the following day (day 2). The Deferral status is shown on the Driver’s Daily Logs

**Cycle**

This is where you can set the consecutive multi-day duty period which the driver will follow. Choosing a cycle will take into effect the corresponding legal limitations on the hours that can be used by the driver in a 7 day or 8 day working cycle.
**Available cycle Rules Options**

<table>
<thead>
<tr>
<th></th>
<th>US60hr7days</th>
<th>US70hr8days</th>
<th>Texas 70hr7days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cycle</strong></td>
<td>7 day</td>
<td>8 day</td>
<td>7 day</td>
</tr>
<tr>
<td><strong>Shift Limit</strong></td>
<td>14 hours</td>
<td>14 hours</td>
<td>15 hours</td>
</tr>
<tr>
<td><strong>Until Break</strong></td>
<td>8 hours</td>
<td>8 hours</td>
<td>Until Break</td>
</tr>
<tr>
<td><strong>Break Left</strong></td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>Break Left</td>
</tr>
</tbody>
</table>

*Drive hours until break will reset after break is completed*

<table>
<thead>
<tr>
<th>region</th>
<th>Cycle</th>
<th>Cycle</th>
<th>Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>7 day</td>
<td>8 day</td>
<td>8 day</td>
</tr>
<tr>
<td><strong>Shift Limit</strong></td>
<td>20 hours</td>
<td>20 hours</td>
<td>16 hours</td>
</tr>
<tr>
<td><strong>Until Break</strong></td>
<td>Until Break</td>
<td>Until Break</td>
<td>Until Break</td>
</tr>
<tr>
<td><strong>Break Left</strong></td>
<td>Break Left</td>
<td>Break Left</td>
<td>Break Left</td>
</tr>
</tbody>
</table>

*Drive hours until break will reset after break is completed*

Any of the above cycle rules are depending on the region selected and can be applied given the appropriate rule from the region drop down list

**Cargo**

This will set the applicable Hours of Service rules for property carrying or passenger carrying commercial vehicles.
Available Cargo Rules Options

- Property – the 11 and 14 hours rule will apply
- Passenger – the 10 and 15 hours rule will apply

Exceptions

The options that appear when tapping the Exceptions button will allow the driver to avail of exceptions from the Hours of Service rules for as long as certain conditions are met as stipulated the Hours of Service section of the Code of Federal Regulations (49 CFR Part 395.1-Hours of Service of Drivers-Scope of rules in this part) and other pertinent FMCSA regulations.

Available US Exceptions Options

- 2 Hour Driving Extension for Adverse Driving Conditions
- Relief from all driving rules for Emergency Conditions
- Oilfield Operations with 24 hour restart
• 30 Minute Break Exemption for Short-Haul Drivers
• No Logs for Short-haul Drivers operating within 100 air miles or Non-CDL-Driver operating within 150 air miles
• 24 Hour Restart for Construction, Groundwater well-drilling
• 16 Hour Driving Window

*Note:* ‘16 Hour Driving Window’ exception can only be used once for the last 7 days or in every 70hr cycle, if the driver attempted to enable the exception an error dialog will display stating the following:

However, it is possible for the driver to add another ‘16 Hour Driving Window’ exception when a cycle reset has occurred. Nevertheless the driver will need to wait for the current cycle to end to be able to add the exception again.

• Agricultural Operations

Select the appropriate exception from the list; you must then enter a reason for applying the exception in the Enter reason for exception(s) field. Once complete, select the **OK** option to apply the selected exception.

*Note: Exceptions are different depending on the Region selected.*

**Available Canada Exceptions Options**

• 2 Hour Driving Extension Special Permit
• Oil Well Service permit
- CanEmergencyConditions
- 2 Hour Driving Extension for Adverse Driving Conditions
- No Logs for drivers operating within 160km of home terminal

**Time Zone**

Select the driver’s Home Terminal time zone. Time zones available are:

- America/Anchorage
- Eastern Time (EST5EDT)
- Central Time (CST6CDT)
- Mountain Time (MST7MDT)
- Pacific Time (PST8PDT)
- Canada/Newfoundland
- Asia/Manila
- Atlantic
**PDF Report Email Recipients**

You can set the default recipients of your Driver Daily Log PDF report in the part of the Settings Menu.

Enter the email address or addresses that will become a recipient or recipients of the Hours of Service app’s Daily Driver Log PDF report.

The email addresses must be separated by a comma (,)

---

2.2 Device Preferences

**Application Update Interval**

Updates application every 3 minutes (or depending on the choice of the driver)
**Unit of Distance**

Setting the default unit of measures

![Unit of Distance](image)

**Disable Notification Sound**

The application has a Mute button to silence all sounds that could come from the application. Also, the ELD rules state that all application sounds should be muted during Sleeper status. However, the mobile device should not be muted since it’s needed to be on sound in case of phone calls.

![Disable Notification Sound](image)

*Note: When the current status is Sleeper Berth, it automatically mutes the application sound.*

**Color Theme**

Displays option for selecting Color Theme

![Select a Color Theme](image)
**Night Theme**

By default, the application automatically changes to a night theme based on the sunset time calculated from the device's location. If location is not available, local time of the device is used.
3 Familiarizing the Hours of Service Main Screen Tiles

3.1 Time Remaining Tile
When the time remaining tile displays a grey color, it indicates that the driver is Off Duty, Sleeper or Waiting at Well Site; when the tile displays a green color, it indicates that the driver’s status is Driving or On Duty; when the tile displays an amber color, it indicates that the driver’s status is Driving or On Duty and has less than 3 hours left; when the tile displays a red color, it indicates that the driver’s status is Driving or On Duty and has less than 1 hour left or has already ran out of time.
Tap the time remaining panel to view the Time Remaining Clocks

The time remaining clocks are color coded to match the time remaining panel

3.2 Changing the Driver’s Duty Status
To change the duty status of the driver, tap the Duty Status button and select the appropriate driver duty status from the drop down list.

**Available Duty Status Options**

<table>
<thead>
<tr>
<th>Duty Status Icon</th>
<th>Duty Status</th>
<th>Duty Status Icon</th>
<th>Duty Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Off Duty" /></td>
<td>Off Duty</td>
<td><img src="image" alt="On Duty" /></td>
<td>On Duty</td>
</tr>
<tr>
<td><img src="image" alt="Sleeper" /></td>
<td>Sleeper Berth</td>
<td><img src="image" alt="Waiting at Site" /></td>
<td>Waiting at Site</td>
</tr>
<tr>
<td><img src="image" alt="Driving" /></td>
<td>Driving</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
When the app is able to obtain a valid GPS fix, the Location field will be automatically populated with the current location information of the user. If there is no GPS fix, the Location field will remain blank, in this instance; you must manually input the relevant details.

Once all relevant details have been entered and the correct duty status selected, tap the OK button to save the new duty status event. You can also select the Cancel button to cancel adding the selected duty status.

Changing the status to On Duty or Driving also enables the options for ‘Personal Use’ and ‘Off Road’. Personal Use is mentioned in the FMCSA’s Supplemental Proposal, which was published on March 28, 2014, that mandates ELDs for most drivers of CMVs that currently

Note: all options are enabled in all events
log. The proposal says that ELDs may be set up to allow drivers to put themselves in a special driving category called “personal use.” When a driver selects this option, the ELD will record the time as off duty until the driver de-selects the option. Off Road, on the other hand, means that the vehicle is running on rough terrain. Lastly, Yard Moves, has been established under a mandate which allows a driver or another personnel to perform duties like moving trucks around the home yard by establishing a single set of thresholds for all ELDs in an On Duty, not Driving status without triggering the device by reaching the thresholds.

3.3 Recap

3.4 Start Break
The Start Break button will be disabled when the duty status is Off Duty, Sleeper Berth or Waiting at Well Site.

The Start Break button will be enabled when the duty status is On Duty or Driving. Once you tap the Start Break button, a pop up dialog will be displayed asking you to confirm that you wish to start your break.
If the ‘Start Break’ button is pressed, then:
  o It sets the status to OffDuty
  o The ‘Start Break’ button turns to ‘End Break’
  o The Time remaining button turns to On Break and the second line shows “time remaining 00:00”

If the ‘End Break’ button is pressed, then:
  o It sets the status to ‘On Duty’ (if the vehicle is not moving) or ‘Driving’ (if the vehicle is moving)

Note: An audible alert activated when 30 minute break is over.
3.5 Data Transfer
Selecting the **Data Transfer** button from the **Main HOS Main Screen** will display the list of supported data transfer options.

The ELD provides a standardized single-step compilation for the driver’s ELD records and initiation of the data transfer to authorized safety officials when requested during a roadside inspection.

Tap the **Data Transfer** button to transfer data of the compilation of the driver’s ELD records. Once tapped, a selection of the supported data transfer options by the ELD will prompt to the user.

- **Select Vehicle** - this option enables the ELD to produce a data file or a series of data files of ELD records for a subset of its vehicles used by the driver.
Tap the **Select Vehicle** menu to show the list of vehicles used by the driver.

The ‘All Vehicles’ option will only display on the list when the driver has already driven multiple vehicles for the day.

- **Transfer via Bluetooth** - this option enables the user to transfer files through Bluetooth. The ELD prompts for an output file comment which the driver may enter (optional). After the input, if Bluetooth is not yet turned on, a prompt will appear asking you to turn it on.
You will then be asked to pick the device to which the data will be transmitted via Bluetooth.

- **Transfer via Email** - this option enables the user to transfer files through email. The ELD output file transferred is encrypted using AES-256 in FIPS Publication 197. Before sending, the ELD prompts for an output file comment which the driver may enter (optional). The device's default email application will then be opened before sending the email to which the data will be transferred.
• **Transfer via USB** - this option enables the user to transfer files through USB (external devices). However, prior to saving the driver’s ELD file to an external storage/device, the ELD re-authenticates the driver account by asking for its password.

If the authentication process is successful, the driver can now select on where to save the ELD file.

After selecting a data transfer option, the ELD prompts for an output file comment which the driver may enter (optional). The ELD accommodates the entry of an output file comment up to 60 characters long.

Upon confirmation, the ELD generates the compliant output file and performs the data transfer.
3.6 Options
Selecting the **Options** button from the **Main HOS Main Screen** will display the **Options** module:

![Options Module](image)

The functions within the Options module will be covered in more detail throughout this document.

3.7 Logs
Selecting the **Logs** button from the **HOS Main Screen** will display the current days log and provide the ability to navigate backwards to view the previous seven logs:

![Logs Module](image)

Scroll the screen to view all of the information, or, tap the log grid to view the log events.
3.8 DVIR
Selecting the **DVIR** button from the **HOS Main Screen** will display the Select DVIR screen:

Note: When switching the vehicles, the equipment’s will be displayed along with their associated forms. Changing the forms used will pop up a message dialog stating “Are you sure you want to use a different form?” with a ‘Cancel’ or ‘Ok’ button.

3.9 Shift/Cycle
Selecting the Shift/Cycle button from the HOS Main Screen will display the total work hours of the driver’s current work shift and the total working hours that the driver can legally accumulate over a certain cycle or a consecutive multi-day period:
4 Check Driver Availability

From the **Hours of Service Main Screen**, tap the **Options** button and then tap the **Gain Time** button, this will then display a date & time of when the driver will gain his/her maximum hours.

5 Driver Logs

The **Driver Logs** allows you to view and update the electronic recording of your duty status events in the HOS app’s online driver logs. This is where you also store shipment data, send the certified logs to its intended recipients and manage other driving duty information.
Scroll the screen to view all of the information, or, tap the log grid to view the log events. The daily log for the current day will be in expanded view by default. The daily driver logs for the previous days will be in collapsed view.

To expand or collapse a daily log, tap the Collapsible Menu Header

*Cycles* and the *Start Hour* time used are also shown in the Log, it is found on the upper right corner just above the *Grid Chart*.

5.1 Using the Driver Logs Bulk/ Multiple Selection Functions

The first part of the Driver Logs user interface feature controls and information for the bulk/multiple selection features. These controls will allow you to perform features for multiple selected driver logs.
<table>
<thead>
<tr>
<th>Function icon</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Selection Button</td>
<td>Tap the button to select all certified logs</td>
</tr>
<tr>
<td>![Log icon]</td>
<td>Selected Logs Counter</td>
<td>This shows the number of selected certified driver logs</td>
</tr>
<tr>
<td>![Reset icon]</td>
<td>Reset Button</td>
<td>This clears/deselects all of the selected driver logs</td>
</tr>
</tbody>
</table>

5.2 The Driver Logs Accordion Header Features

To expand or collapse a daily log, tap the Driver Logs Accordion/Collapsible Menu Header:

- **Note:** Driver Logs title shows the full time range when the **Start Hour** time is not zero. You can change the time by going to Settings > HOS Preferences

5.2.1 Daily Driver’s Log Entry Check-box (Uncertified Log)

Tap the check-box to certify the selected daily log:

5.2.2 Daily Driver’s Log Entry Check-box (Already Certified)

Tap the check-box to uncertify the selected daily log:

5.2.3 Daily Driver’s Title Log (Recertify Log)
When a certified log has been edited in the portal, it prompts the driver to either accept or reject the proposed changes through the “Edit Suggestions” dialog. Once the driver accepts an edit request, it will display a note on the daily driver’s title log stating “Recertify”, which indicates the log needs to be certified again in order to include the records changes.

5.2.4 Recap

Tap the Recap button to bring up the recap information and corresponding cycle data for the specified duty day.

Tapping the Recap button will display a complete recap for the end of the workday including:

- On Duty & Driving Hours,
- Total hours on duty last 7 days (including current day),
- Total hours available tomorrow,
- Total hours On Duty last 8 days (including current day)
5.2.5 Daily Drivers Log Grid

Tap the driver’s log grid to view the log events and edit the log. Scroll up/down the screen to view the Daily Driver’s Form; this is where you can view the other required information that must appear in the driver’s daily log. In addition, not all of the events statuses are displayed on the grid chart. Personal Use and Yard Moves are also displayed on the grid chart as an Amber color line to be visually different with the other event statuses, a **dashed line** represents the Personal Use event and a **dotted line** represents the Yard Moves event. The legends for Personal Use and Yard Moves event will only display when the said events occurred.
5.2.6 Edit Daily Drivers Log Form

Tap the **Edit** button to open the **Driver Log Form**, from here; you can update the other required information that must appear in the driver’s daily log (as listed below)

The following information can be viewed / amended within the **Daily Drivers Log Grid**:

**Driver Information**

a) **Driver Name** – displays the name of the driver

b) **Vehicle Information**

- Vehicle Name – displays the name of the current Vehicle of the driver.
- Trailer Name – displays the name of the current Trailer of the driver.
- SWITCH TRUCK – tap this button to launch the Switch Truck dialog to select another Vehicle or Trailer names.
- Carrier – a non-editable field which displays the Name of the Carrier.
- Carrier DOT Number – a non-editable field which displays the Carrier DOT Number
c) **Shipping Information**

- Shipping docs – displays the bill of lading or manifest number entered by the driver
- Shipper & Commodity – displays the shipper name and the type of commodity which the shipment contains

### 5.2.7 Shipment Details

Data that can be included within the **Shipment Details Form** includes:

#### Shipments on Truck

- Order Number – the order number of the specific shipment item
- Weight – the weight of the shipments
- From – the point of origin of the commercial motor vehicle
- To – the destination of the commercial motor vehicle

#### Shipments Unloaded Today

- Order Number – the order number of the specific shipment item
- Collected or Billed – the preferred payment method
- Amount Collected – the amount collected for the shipment
- Mailed Papers From – the name of the shipment company where the shipping related documents are from

Tap the **Shipments** button to open the **Shipment Details Form**; you can fill in the shipment data that is to be included in the driver’s daily log.

**Note:** the data that can be included in this form is listed on the next page
5.2.8 Miles Driven by State

Tap the **Miles** button to open the **Miles Driven Today by States** dialog. This is where you can fill in the shipment data that is required to be included in the driver’s daily log. Required data includes:

- Code
- State
- Loaded
- Empty
- Routed Number
- Fuel Purchased Tickets Attached
5.2.9 DVIR

This is where you can view a list of the DVIRs conducted during the selected working day.

Tap the icon to open the pane for the email and view options

Tap the **Email** button to send the completed DVIR

Tap the **View** button to view the DVIR

Tap the **Remove** button to remove the DVIR

**Note:**

- Email button will only be enabled if the DVIR Log is already certified
- Certified logs cannot be removed (unless uncertified)
### 5.2.10 Certify a Log

Tap the **Certify** button to certify the selected daily log. If the current status is **Driving**, a pop up dialog will open and you will be asked to confirm changing the status to Off Duty:

- Tap the **Certify Now** button to confirm you wish to go **Off Duty**
- Tap the **Cancel** button to cancel changing the status

Tap the **Agree** button to confirm certifying a daily log.

Tap the **Not Ready** button to cancel certifying a log.
Tap the **OK** button to close the confirmation pop up dialog

Tap the **OK** button if you wish to email the certified log to a selected recipient

Select the **Cancel** button to close the pop up dialog without emailing the certified log.
5.2.11 Edit a Log

Only driver logs that have not yet been certified can be edited, you will have to uncertify a driver log in order to update its contents, to do this, tap the Edit button to uncertify the selected log and reopen it for editing:

If the driver did not certify all the daily logs, the ELD will prompt the driver regarding uncertified logs upon logging in and logging out to the app along with the option to certify the relevant days.
The **Edit Log** screen can update/correct the driver’s or driving duty data entries logged through the app. It can also view the history of an edited log.

Tap the driver’s log grid to start editing it:

You can navigate through the daily driver logs by selecting either back or forward arrows located above the grid.
Create Log Event

To add a new event to the selected log, tap the **Add** button, input the relevant details to create the event, once complete, tap the **OK** button to save the event.

**Note:** Refer to 3.2 Changing the Driver’s Status for ‘Personal Use’

Modify Log Event

Tap the **Edit** button adjacent to any of the existing log events, make any required changes, select a reason for the edit from the drop down list and then tap the **OK** button to save the changes.

**Note:** all log events that have been manually created or amended, will be displayed with an asterisk against it in the log events list depicting that it has been edited. Also scroll down to see check boxes for Personal use and Off Road.

Pending Edit Requests

The Motor Carrier can request edits to the driver’s logs. In the application allows the driver to review the requested edits which requires the driver to take necessary action whether the driver wants to “**confirm**” or “**reject**” the requested edits.
Tap the icon beside the refresh button to display the pending edit request dialog.

The Reject and Accept Event dialog shows the comparison of the Original status vs the changes (requested edits). Also, accepting the edits requested requires the driver to fill in the annotation field **(Required)** to successfully save the changes.
Auto Events

The ELD automatically records the driving time when the vehicle is in motion by setting duty status to driving for the driver unless, before the vehicle is in motion, the driver has sets the duty status to off-duty and indicates personal use of CMV, in which case duty status must remain off-duty until driver’s indication of the driving condition ends;
Events such as Power On, Power Off, Driving and OnDuty are automatically created when connecting to a device. Auto events created were recorded and displayed on the Events history list indicated with a note “Automatic Transition”.

(These events are also displayed in the Portal)

To view all the auto created events (primary or secondary events) when connecting to a device, tap on the ‘Show all events’ checkbox to enable.

To hide all the secondary events, tap back on the checkbox to disable.

**Note:** The graph-grid overlay periods of driver’s indications of authorized personal use of CMV and yard moves using a different style line (such as the dashed or dotted line in amber color).
- ELD Login will be recorded with a note “ELD Connection” to events’ history list when app successfully connected to VBUS Device.
- ELD Logout will be recorded with a note “ELD Disconnection” to events’ history list when driver manually disconnect to VBUS Device by tapping the connect/disconnect icon located at the App header.

- A Remark will be recorded with a note “Authenticate” to the events history list if Driver will login to app.
- A Remark will be recorded with a note “Unauthenticate” if driver will logout from app.
**Crossing Boundaries**

The border crossing calculation uses the VBUS gps coordinates if they are available, and the android coordinates if they are not. The following instances happens when the driver crossed boundaries between Canada and US (vice versa):

a. If the gps coordinates are changed to a different state or province, a remark event will be recorded in the driver log.

b. If the current location is in canada, the driving rules will automatically switched to canadian rules; similarly, if the location is in the US, the driving rules automatically switched to US rules.

c. If there is a co-driver logged in, both the remark and the rules changes will be occurring to be applied for him/her as well.
5.3 Malfunction and Data Diagnostic Events

At each instance when an ELD malfunction or data diagnostic event is detected or cleared by the ELD, the ELD records the event. The recorded malfunctions and data diagnostic events are inconsistencies found while monitoring the app/ELD against FMCSA compliance requirements. These instances are indicated in the application header and in the Android notification toolbar with the letters M and D, respectively.

**Note:** ELD Data Diagnostic status affects only the authenticated user, therefore, the ELD only indicate the active data diagnostics event status applicable to the active driver. Data Diagnostic Event dialog will no longer pop up whenever it occurs hence, the Data Diagnostic “D” icon will be in an accent color (which based on the app’s theme) when data diagnostic events occurred will only turn back to white once the dialog for the Data Diagnostic List is closed.

### Data Diagnostics

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Time</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Thu Aug 04, 2016</td>
<td>02:36:16 PM</td>
<td>Missing: Engine/Hours, Location, Odometer</td>
<td>CLEAR</td>
</tr>
<tr>
<td>3</td>
<td>Thu Aug 04, 2016</td>
<td>02:05:49 PM</td>
<td>Missing: Location</td>
<td>CLEAR</td>
</tr>
<tr>
<td>5</td>
<td>Thu Aug 04, 2016</td>
<td>12:43:18 PM</td>
<td>Unidentified Diagnostic</td>
<td></td>
</tr>
</tbody>
</table>

### Malfunctions

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Time</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Thu Aug 04, 2016</td>
<td>12:45:17 PM</td>
<td>Power Malfunction</td>
<td>CLEAR</td>
</tr>
<tr>
<td>L</td>
<td>Thu Aug 04, 2016</td>
<td>11:08:23 AM</td>
<td>Position Malfunction</td>
<td>CLEAR</td>
</tr>
</tbody>
</table>

The Malfunction and Data Diagnostic events note can also be edited on the edit log screen.

Tap the **Clear button** to clear the malfunction or data diagnostic event detected.

To clear all Data Diagnostic Events, tap the **Clear All** button.
## Malfunction Events

<table>
<thead>
<tr>
<th>Requirement No.</th>
<th>Event Code</th>
<th>Event Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.6.1.1</td>
<td>P / Power MF</td>
<td>Power Malfunction</td>
<td>An ELD must set a power compliance malfunction if the power data diagnostics event described in paragraph 4.6.1.1(a) of this appendix indicates an aggregated in-motion driving time understatement of 30 minutes or more on the ELD over a 24-hour period across all driver profiles, including the unidentified driver profile.</td>
</tr>
<tr>
<td>4.6.1.2</td>
<td>E / Sync MF</td>
<td>Engine Synchronization Malfunction</td>
<td>An ELD must set an engine synchronization compliance malfunction if connectivity to any of the required data sources specified in section 4.3.1 of this appendix is lost for more than 30 minutes during a 24-hour period aggregated across all driver profiles, including the unidentified driver profile.</td>
</tr>
<tr>
<td>4.6.1.3</td>
<td>T / Timing MF</td>
<td>Timing Malfunction</td>
<td>The ELD must periodically cross-check its compliance with the requirement specified in section 4.3.1.5 of this appendix with respect to an accurate external UTC source and must record a timing compliance malfunction when it can no longer meet the underlying compliance requirement.</td>
</tr>
<tr>
<td>4.6.1.4</td>
<td>L / Pos MF</td>
<td>Position Malfunction</td>
<td>ELD records requiring location information must use the last valid position measurement and include the latitude/longitude coordinates and distance traveled, in miles, since the last valid position measurement. An ELD must monitor elapsed time during periods when the ELD fails to acquire a valid position measurement within 5 miles of the CMV’s movement. When such elapsed time exceeds a cumulative 60 minutes over a 24 hour period, the ELD must set and record a positioning compliance malfunction.</td>
</tr>
<tr>
<td>4.6.1.5</td>
<td>R / DR MF</td>
<td>Data Recording Malfunction</td>
<td>An ELD must monitor its storage capacity and integrity and must detect a data recording compliance malfunction if it can no longer record or retain required events or retrieve recorded logs that are not otherwise catalogued remotely by the motor carrier.</td>
</tr>
</tbody>
</table>
4.6.1.7  S / Trans MF  Data Transfer Malfunction  
(a) An ELD must implement in-service monitoring functions to verify that the data transfer mechanism(s) described in section 4.9.1 of this appendix are continuing to function properly. An ELD must verify this functionality at least once every 7 days. These monitoring functions may be automatic or may involve manual steps for a driver.

(c) After an ELD records a data transfer data diagnostic event, the ELD must increase the frequency of the monitoring function to check at least once every 24-hour period. If the ELD stays in the unconfirmed data transfer mode following the next three 90 consecutive monitoring checks, the ELD must detect a data transfer compliance malfunction.

4.6.1.8  O / Other MF  Other Malfunction  
In addition to the required monitoring schemes described in sections 4.6.1.1–4.6.1.7 of this appendix, the ELD provider may implement additional, technology-specific malfunction and data diagnostic detection schemes and may use the ELD's malfunction status indicator and data diagnostic status indicator (described in sections 4.6.2.1 and 4.6.3.1) to communicate the ELD's malfunction or non-compliant state to the operator(s) of the ELD.

Data Diagnostic Events

<table>
<thead>
<tr>
<th>Requirement No.</th>
<th>Event Code</th>
<th>Event Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.6.1.1</td>
<td>1 / Pwd Diag</td>
<td>Power Diagnostic</td>
<td>An ELD must monitor data it receives from the engine ECM or alternative sources as allowed in sections 4.3.1.1-4.3.1.4 of this appendix, its onboard sensors, and data record history to identify instances when it may not have complied with the power requirements specified in section 4.3.1.1, in which case, the ELD must record a power data diagnostics event for the corresponding driver(s), or under the unidentified driver profile if no drivers were authenticated at the time of detection.</td>
</tr>
<tr>
<td>Section</td>
<td>Diagnosis Type</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>4.6.1.2</td>
<td>2 / Sync Diag</td>
<td>Engine Synchronization Diagnostic&lt;br&gt;An ELD required to establish a link to the engine ECM as described in section 4.2 must monitor its connectivity to the engine ECM and its ability to retrieve the vehicle parameters described under section 4.3.1 of this appendix and must record an engine-synchronization data diagnostics event when it no longer can acquire updated values for the ELD parameters required for records within 5 seconds of the need.</td>
<td></td>
</tr>
<tr>
<td>4.6.1.4 (d)</td>
<td>3 / Miss Diag</td>
<td>Missing Data Elements Diagnostic&lt;br&gt;If a new ELD event must be recorded at an instance when the ELD had failed to acquire a valid position measurement within the most recent elapsed 5 miles of driving, but the ELD has not yet set a positioning compliance malfunction, the ELD must record the character “X” in both the latitude and longitude fields, unless location is 88 entered manually by the driver, in which case it must log the character “M” instead. Under the circumstances listed in this paragraph, if the ELD event is due to a change in duty status for the driver, the ELD must prompt the driver to enter location manually in accordance with section 4.3.2.7 of this appendix. If the driver does not enter the location information and the vehicle is in motion, the ELD must record a missing required data element data diagnostic event for the driver.</td>
<td></td>
</tr>
<tr>
<td>4.6.1.7</td>
<td>4 / Trans Diag</td>
<td>Data Transfer Diagnostic&lt;br&gt;(b) If the monitoring mechanism fails to confirm proper in-service operation of the data transfer mechanism(s), an ELD must record a data transfer data diagnostic event and enter an unconfirmed data transfer mode.</td>
<td></td>
</tr>
<tr>
<td>4.6.1.6</td>
<td>5 / Unid Diag</td>
<td>Unidentified Driver Diagnostic&lt;br&gt;(b) If more than 30 minutes of driving in a 24-hour period show unidentified driver on the ELD, the ELD must detect and record an unidentified driving records data diagnostic event and the data diagnostic indicator must be turned on for all drivers logged in to that ELD for the current 24-hour period and the following 7 days.&lt;br&gt;(c) An unidentified driving records data diagnostic event can be cleared by the ELD when driving time logged under the unidentified driver profile for the current 24-hour period and the previous 7 days.</td>
<td></td>
</tr>
</tbody>
</table>
In addition to the required monitoring schemes described in sections 4.6.1.1–4.6.1.7 of this appendix, the ELD provider may implement additional, technology-specific malfunction and data diagnostic detection schemes and may use the ELD's malfunction status indicator and data diagnostic status indicator (described in sections 4.6.2.1 and 4.6.3.1) to communicate the ELD’s malfunction or non-compliant state to the operator(s) of the ELD.

### Actions for Malfunction & Data Diagnostic Events

**Carrier responsibilities regarding malfunctions:**

- Provide drivers with an instruction sheet describing the various ELD malfunction events and recordkeeping procedures (395.22)
- Provide drivers with a supply of 8 days’ worth of blank paper driver records (395.22)
- Repair, replacement, or service
  - Motor carrier must correct the malfunction of the ELD within 8 days of discovery of the condition or a driver's notification to the motor carrier, whichever occurs first (395.34)

**Record keeping responsibilities by the driver:**

- Malfunction events
  - Note the ELD malfunction and provide carrier with written notice within 24hrs (395.34)
  - Reconstruct driving events for the current 24hr period and previous 7 consecutive days using paper logs (unless they can be retrieved from the ELD) (395.34)
  - Continue to manually prepare driving logs until ELD is serviced and brought back into compliance (395.34)
During inspections which take place when a malfunction has occurred:
provide safety official with manually kept driver logs (395.34)

- Data diagnostic events
  - Driver must follow the motor carrier's and ELD provider's recommendations in resolving the data inconsistency (395.34)

**Clearing of malfunction and data diagnostic events:**

- ELD needs to capture when a malfunction or data diagnostic event has been cleared by the driver (4.5.1.7)
- Unidentified driving records data diagnostic
  - Events that drop to 15 minutes or less during the current 24hr period and previous 7 days can be cleared automatically and there is no requirement to record the automatic clear (4.6.1.6)
5.4 DVIR

The **DVIR** feature provides a way for you to create online vehicle DVIR reports while in the field. This helps to ensure that your vehicle confirms to the FMCSA’s safety regulations.

There are a number of ways to access this feature:

5.4.1 DVIR Feature – Main Navigation Menu

1. Slide the screen from left to right to show the **Main Navigation** Menu
   Or
2. Tap the **Main Navigation Hamburger icon** to show the **Main Navigation Menu**

   Tap the **DVIR** option within the **Main Navigation Menu**

5.4.2 DVIR Feature – Hours of Service Main Screen

From the **Hours of Service Main Screen**, tap the **DVIR** button to display the **DVIR screen**
5.4.3 Selecting Your DVIR Type

- **Pre**: A DVIR conducted before driving the CMV
- **Post**: A DVIR conducted after driving a CMV
- **Ad Hoc**: Any DVIR conducted in any other period that the ones specified in points a & b

You can select a **DVIR Form** from the 6 default DVIR forms or you can also select a **Customized DVIR Forms for Asset(s)** also from the list.

Choose the appropriate **DVIR Type** from the following options:

- **Type**: 
  - ☐ Pre
  - ☐ Post
  - ☐ Ad Hoc
Select your Inspector from the following choices:

Inspector: [ ] Driver [ ] Mechanic [ ] Other

a) **Driver**: The person who drives the vehicle  
b) **Mechanic**: The person who repairs vehicle defects  
c) **Other**: Any person that inspects the vehicle and is neither a driver or a mechanic

### 5.4.4 Starting Your DVIR

Tap the **Inspect** button to start the DVIR, you will be directed to the **DVIR screen**.

### 5.4.5 Completing the First DVIR Area

The first **DVIR Area** is selected by default; you can also tap its corresponding tab to display the DVIR items under this area.

You can select the status of each DVIR Item by tapping their respective tri-state check boxes as listed below
Tap the unselected check box once or select the green Thumbs Up icon to specify that the item has passed.

Tap the unselected check box twice or select the red Thumbs Down icon to specify that the item has failed.

Tap the unselected check box three times or select the NA icon if the item is not applicable for the current DVIR.

When failing a DVIR, an option for selecting a severity level will appear with its corresponding color: High – Red ▲, Medium – Yellow ▲, Low – Green ▲.

Tap the Check All button to automatically select all the DVIR items.

5.4.6 Capturing an Image of a DVIR Item

If you wish to capture an image of a DVIR item, you can tap the Camera Button. The Camera app will then appear, proceed to take a picture of the DVIR item. After tapping the Capture Image Button, select the Save button to save the image and add it to your item report. You can also discard the captured image by selecting the Cancel button.
5.4.7 Add a Comment or Remark to a DVIR Item

You may add comments or remarks against a DVIR item by tapping the **Comments** button, enter the relevant comment or remark in the **Enter Report** field, tap the **Camera** button to add more images if required and select the **OK** button to finish adding your images and comments or remarks.
If you add an image and a comment or remark to the DVIR item, the camera button will have a numbered icon over it depicting the number of images that have been attached; also, any comments or remarks that have been added will be displayed and will replace the Comments button.

**Note:** You can also tap the Voice Dictation button (speech to text) to use voice dictation instead of typing your comments or remarks.

### 5.4.8 Finishing / Certifying Your DVIR

To finish / certify your DVIR, select the **Finish** tab, this will display the information detailed on the next page.

#### Summary

- **Start Time** – the date and time the DVIR was started
- **Elapsed Time** – the duration of the current DVIR
- **Items Inspected** – this is a counter for the number of items already inspected
**Items Remaining**

### Items Remaining

Truck - Air Compressor / Compresor de Aire

This will only be displayed if you have not yet updated all of the DVIR items, this will show the item(s) that are still to be inspected.

**Final Items**

### Final Items

<table>
<thead>
<tr>
<th>General Comments</th>
<th>Defects Corrected</th>
<th>Condition Satisfactory</th>
<th>Condition Unsatisfactory</th>
</tr>
</thead>
</table>

**General Comments** – this is where you can enter your general DVIR report comments

One of the following options must be selected before the DVIR can be finished / certified.

- Defects Corrected
- Defects Need Not Be Corrected
- Vehicle Condition Is Satisfactory

**Signature**

**Signature**
Drivers can change their signature by tapping the *Change Signature* button.

Mechanics and other inspectors can create their signatures by tapping the *Change Signature* button.

Selecting the *Change Signature* button will open the *Create Your Signature Here* screen:

![Signature Creation Screen]

Tap the *Done* button to save your signature or tap the *Clear* button to discard the signature.
5.4.9 Submit or Certify the DVIR

Tap the Finish DVIR button to finish / certify the current vehicle DVIR. Finally, after reviewing all of the DVIR details tap the OK button to certify the DVIR. You can also cancel certifying the DVIR by tapping the Cancel button.

5.4.10 Deleting a Vehicle DVIR

Go to the Previous DVIR section. This is where you can view a list of the DVIRs conducted within the Vehicle DVIR screen:

- Tap the Email button to send the completed DVIR to an intended recipient
- Tap the View button to view the DVIR details (once submitted, this cannot be amended)
- Tap the Remove button to remove the DVIR (once submitted, this cannot be removed)
6 Roadside Inspection
The Roadside Inspection feature provides the ability to view the driver daily logs for the past one week. It includes information on the vehicle used, shipments and driving statuses. It also has the ability to send all the logs that have already been certified to an intended recipient.

There are a number of ways to access this feature:

6.1 Roadside Inspection – Main Navigation Menu

1. Slide the screen from left to right to show the Main Navigation Menu
Or
2. Tap the Main Navigation Hamburger icon to show the Main Navigation Menu

Tap the Roadside Inspection option within the Main Navigation Menu
6.2 Roadside Inspection – Options Menu

From the Hours of Service Main Screen, tap the Options button and then tap the Roadside Inspection button.

6.3 Inspection Screen – Start Review

From the Roadside Inspection Screen, tap the Start Review button to view the Driver’s Daily Log screen.

Review logs for the current 24-hour period and the previous 7 consecutive days.

Email logs for the current 24-hour period and the previous 7 consecutive days.
From the Start Review button.
6.4 Roadside Inspection Screen – Email Logs

Tap the Previous button to navigate to the previous log or tap the Next button to navigate to the next log.

From the Roadside Inspection Screen, tap the Email Logs.

Tap Proceed button to send logs.

Note: Only certified logs are able to be sent.
7 Switch Truck
The Switch Truck feature allows a driver to easily ‘switch’ from one vehicle to another. It also assists in monitoring and documenting the vehicles being used as part of their driver logs.

There are a number of ways to access this feature:

7.1 Switch Truck – Main Navigation Menu

1. Slide the screen from left to right to show the **Main Navigation Menu**
   Or

2. Tap the **Main Navigation Hamburger** icon 📌 to show the Main Navigation Menu

Tap the **Switch Truck** option within the **Main Navigation Menu**
7.2 Options Menu

From the **Hours of Service Main Screen**, tap the **Options** button and then tap the **Vehicle/Trailer** button

7.3 Switch Truck – DVIR Screen

1. Slide the screen from left to right to show the **Main Navigation Menu**
   
   Or

2. Tap the **Main Navigation Hamburger** icon to show the Main Navigation Menu
Tap the **DVIR** option within the **Main Navigation Menu**

3. Select the **DVIR** button from the Main Hours of Service Menu and then select the **Switch** button
7.4 Switching Vehicle / Trailer

Select the **Vehicle ID** or **Trailer ID** dropdown list and select the required vehicle or trailer, then tap the **Switch** button to switch to the selected vehicle or trailer.

After tapping the Switch button, you will be asked if you would like to perform a vehicle DVIR, tap the **YES** button to navigate to the **Vehicle DVIR** screen or tap the **NO** button to close the dialog box and continue.

Switch truck can be performed also in the dashboard, by tapping the vehicle/trailer icon.

Vehicles and Trailers can also be filtered through **text entry** on the vehicle/trailer text fields. Text entry availability starts if the total number of trailers/vehicles numbers 250 or more

Switching or selecting a Vehicle with a preconfigured VBUS device enables the app to find and connect on the match device.

*Note: On the VBUS Settings, VBUS Data and Automatic Configuration should be enabled.*
7.5 Managing Vehicles / Trailers

You can add, update and delete vehicles or trailers by tapping the Manage button; this will display the Manage Vehicles/Trailers Screen.

Hence, the ‘Manage’ button is only available to drivers whose user role is Fleetmanager or Assetadmin. Otherwise, the button will not be available on the Switch Truck dialog.

7.5.1 Manage Vehicles / Trailers – Delete

To delete any of the vehicles or trailers listed, tap the X icon.

Vehicles/Trailers made in the portal can be edited or deleted can be in the HOS app and vice versa.
7.5.2 Manage Vehicles / Trailers - Edit

Tap the **DELETE** button within the *Delete Vehicle* dialog to confirm deletion or, tap the **CANCEL** button to return without deleting.

To edit any of the trucks or trailers listed, tap the icon, make any required changes to the selected truck or trailer and then tap the **SAVE** button to save the changes or, tap the **CANCEL** button to return without saving.
7.5.3 Manage Vehicles / Trailers – Add

To add a new truck or trailer, tap the + ADD button, this will open the Add Truck dialog, enter the following details:

**Vehicle Name** – Truck or trailer name

**VIN** – Vehicle Identification Number

**License Plate** – license number

**Vehicle Type** – Vehicle or Trailer

Fill in the **Device Information** section to pre-configure the Vehicle to a specific VBUS device.

**Note:** The connection type defers on the VBUS Device selected

Tap the **ADD** button to save the new truck or trailer or Tap the **CANCEL** button to cancel adding the new truck or trailer

**Note:** When creating/modifying an equipment with a selected type of “Trailer”, the VIN field is disabled and enabled if the equipment type selected is “Vehicle”

**NOTE:** If user selects “Digi WVA” in connection type, then admin password field is required.

Once the new vehicle or trailer has been added, it will be displayed in the **Manage Vehicles/Trailers screen**
8 Documents

The Documents feature provides an easy way to capture, view and email documents related to hours of service activities. This includes documentation such as bill of lading, fuel receipts, accident photos etc.

There are a number of ways to access this feature:

8.1 Documents – Main Navigation Menu

1. Slide the screen from left to right to show the **Main Navigation Menu**
   Or

2. Tap the **Main Navigation Hamburger** icon 📜 to show the Main Navigation Menu

3. Select the **Documents** button from the Main Hours of Service Menu
8.2 Documents – Options Menu

Note: The Documents screen has two views; Grid View or ‘List View’

From the *Hours of Service Main Screen*, tap the Options button and then tap the *Document* button.
8.3 Adding Documents

Tap the *Add* button, the camera app will open and you can then take a picture of the document or damage etc.

After tapping the Capture Image button, tap the Save button to save the image and add it to your document. You can also discard the image if you are not happy with the picture by tapping the Retry button.

Select the type of document you wish to save by tapping the Document Type drop down list and selecting from the available options.

Enter your *Reference Number* and add any *Notes* to support the image.

Tap the *OK* button to save and continue or tap the *CANCEL* button to return without saving.
8.4 Editing / Deleting a Document

Tap the Edit button adjacent to the relevant document, make any required changes.

Tap the OK button to save the changes.

Tap the CANCEL button to return without saving the changes

Tap the DELETE button to delete the document completely
8.5 Emailing Documents

Select the documents you wish to send through email and then tap the Email button, select an option for sending and provide any requested information such as an email address if you’re sending through email.
9 Co-Drovers
9.1 Logon Co-Driver

From the **Hours of Service Main Screen**, tap the **Options** button and then tap the **Logon Co-Driver** button.

Personnel accounts cannot be Co-Drovers. Only authenticated users with a Driver role are allowed to log-in as Co-Driver.

The Co-Driver must enter his/her **Username & Password** and then tap the **Login** button to continue, he/she will then be logged on successfully and the **Hours of Service Main Screen** will display their log details.
**Team Driving**

When in Team Driving, The Co-Driver is allowed to review his/her information by having the “Access Co-Driver Logs” option on the lock screen which allows them to access the HOS dashboard and subsequently select the Logs option while the vehicle is still in motion.

In addition, the Co-Driver’s name is displayed in the daily logs which is placed under the grid chart.
Once the Co-Driver has successfully logged in, the main dashboard is displayed with the co-driver’s information while setting the app in Review Mode with limited capabilities.

**Review Mode**

When in Review Mode the Co-Driver cannot receive or access:

- Driving Notifications and alerts which relates to the Primary Driver
- Lock screen will not display even if the vehicle is in motion
- Cannot switch vehicle
- Cannot change the current event in to Driving event
- Cannot update any preferences related to background services

When in Review Mode the Co-Driver can receive or access:

- Data Diagnostics and Malfunctions pop-up dialogs
- Pending Edit Request(s)
- Allow modifications on previous events
- Can edit current event to OnDuty ND, OffDuty & Sleeper except changing it into Driving

**Notes:** (when the vehicle is still in motion)

- Attempts to change the status to Driving will only display an error stating “Cannot change status while vehicle is in motion.”

- Attempts to Accept or Reject requested driving event is not allowed in a co-driver’s account, instead an error dialog is displayed stating that “Only “Primary Driver” can switch to “Driving” as current status.”
When a Co-Driver is on the Review Mode and that the vehicle is not in motion, an option to make the co-driver to become the Primary Driver is available on the Drivers List.

Once the “Make Primary Driver” button is tap, a confirmation dialog will display:

- If **YES** is tap, the vbus services will restart under the new primary driver’s account
- If **No** is tap, the dialog will close

**Note:** The “Make Primary Driver” button will be disabled when the main driver is in a Driving state, which will then display a label stating “Cannot Change Driver While Driving”.

When the Primary Driver switch to the Co-Driver’s account, in the Authentication dialog an option for the “Make Primary Driver” is available.

**Note:** A driver that is set as the Primary Driver is the one currently using the application while the other one is only in the monitoring state.
Reassign Driving Time

The ELD allows the driver to reassign his driving time to a co-driver.

Tap on the Edit button of the created auto driving event to display the Reassign Driving Time dialog. Select for the co-driver’s name of the list.

Once the OK button is tap, it will display a confirmation dialog whether to proceed to reassign the driving time event.
- If YES is tap, the driving event will recorded as an Inactive Changed (IC) event on the main driver’s log
- If No is tap, the dialog will close and will not reassign the driving time.

Switch to the Co-Driver’s account to check the Reassign Driving Time which will be displayed on the Pending Edit Request dialog.
- If Accepted, the driving event will be reassigned and recorded on the co-driver’s log.
- If Rejected, the driving event will not be recorded under the co-driver’s log. However, it will be displayed as an Inactive Changed Rejected (ICJ) event (both Main and Co-drivers log).

Note: A Co-Driver is not allowed to accept or reject a requested Driving event. Only “Primary Driver” can switch to “Driving” as current status.
9.2 Switch Driver

From the Hours of Service Main Screen, tap the Options button and then tap the Switch Co-Driver button.

From within the Choose Driver dialog, tap the driver’s name who you wish to switch to.

Tap the CANCEL button to return to the Options screen.

The HOS app then asks the co-driver to input the password to authenticate the account.
10 Shipping Documents

From the **Hours of Service Main Screen**, tap the **Options** button and then tap the **Shipping Docs** button.

Enter the **Bill of Lading** or **Manifest Number**

Enter the **Shipper** or **Commodity**

Tap the **OK** button to save the details

Tap the **CANCEL** button to return without saving
11 Add Remark

From the Hours of Service Main Screen, tap the Options button and then tap the Remarks button.

Enter the Location (optional)
Enter the Remark
Tap the OK button to save the remark
Tap the CANCEL button to return without saving.
**12 Exempt Driver**

If the Driver is an **Exempt Driver** or a driver that operates under the short-haul exemption (395.1 (e)), upon *logging in* or *logging out* a dialog will display confirming whether the driver chooses to continue as an exempt driver.

![Image](image_url)

By selecting the OK button, the “**No Logs for Non-CDL-Driver Short-Haul Drivers operating within 150 air-miles**” exception will be enabled. You can enable Exempt Driver through these steps:

*Login to Portal ➔ Go to the Drivers Management page ➔ Select on New Driver button or select the Edit driver button ➔ Enable the Exempt Driver option*
13 Logout

Logout message when status is still ‘On Duty’ or ‘Driving’

Logout message when status is ‘Off Duty’

Note: Once the “Logout and close app” option is checked, all the valid driver that logged into the HOS app will be logged out and the HOS app will be close completely (with no Earthwave Technologies service or VBUS service running in the background)
14 Unidentified Driving Events

Unidentified Driving Events are events that are automatically recorded when a vehicle has been moving for more than 3 minutes while there is no driver logged in. These events are recorded under “Unidentified Driver” account. Unidentified Driving events can be accepted by actual drivers upon logging in to the app (within the Pending Request(s) window).

When the next Authenticated Driver logs in or logs out, this popup will then appear. In order for the Unidentified Driving Events to be reassigned, the logged in driver will be the one to accept the Pending Edit Requests of the Unidentified Driver.

Note:
- Odometer field is displayed for edit request(s) made by the Personnel but it is displayed as Vehicle Miles field for edit request(s) made by the Unidentified Driver.
- The Unidentified Driving Event pending edit request dialog has additional details like: From & Equipment ID compared to that of the Personnel’s pending edit request dialog.
15 Warning Features

Audible and Visible Warning

If the driver logged out from the app and the driver does not log onto the ELD, as soon as the vehicle is in motion, the ELD prompts a visual and audible warning reminding the driver to stop and login to the ELD.

An audible alert is also available that can be heard every couple of seconds.

The visible warning stays on screen which prevents the driver from using any features of the tablet except from accessing it through the driver icon on the notification bar.

Location Services

If the driver logged into the application without the Location Services turned on, a snackbar will display on the main dashboard and to other screens except for the screens navigated through the Settings menu. However, when the Location Services of the device is enabled then the snackbar will no longer display.
16 List of Login Errors
These are the different error messages that appear upon an incorrect login. Follow the steps that follow to determine the cause of the error and to mitigate the problem.

<table>
<thead>
<tr>
<th>Login Errors</th>
<th>Mitigation Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication Failed. Check your network connection.</td>
<td>Ensure that the tablet/mobile phone is connected to a data network or Wi-Fi network.</td>
</tr>
<tr>
<td>Invalid user id or password.</td>
<td>Ensure that the email address and password are correct and valid. The password should match the valid email address.</td>
</tr>
<tr>
<td>A timeout error has occurred.</td>
<td>Ensure that the tablet/mobile phone is connected to a data network or Wi-Fi network with internet access. If issue persists, try again later or contact Earthwave Technologies support at 800-553-0027 or send an email to <a href="mailto:mike.schulz@earthwavetech.com">mike.schulz@earthwavetech.com</a>.</td>
</tr>
<tr>
<td>An unknown error has occurred.</td>
<td>Contact Earthwave Technologies support at 800-553-0027 or send an email to <a href="mailto:mike.schulz@earthwavetech.com">mike.schulz@earthwavetech.com</a>.</td>
</tr>
<tr>
<td>Username is required.</td>
<td>Ensure that the username field is not empty.</td>
</tr>
<tr>
<td>Password is required.</td>
<td>Ensure that the password field is not empty.</td>
</tr>
<tr>
<td>Login timed out.</td>
<td>Ensure that the tablet/mobile phone is connected to a data network or Wi-Fi network with internet access.</td>
</tr>
<tr>
<td>An error has occurred while creating the account. If the error continues please contact Earthwave Technologies for assistance.</td>
<td>Try logging in after a few minutes and if error persists, contact Earthwave Technologies support to 800-553-0027 or send an email at <a href="mailto:mike.schulz@earthwavetech.com">mike.schulz@earthwavetech.com</a>.</td>
</tr>
<tr>
<td>An error has occurred while retrieving account details.</td>
<td>Contact Earthwave Technologies support at 800-553-0027 or send an email to <a href="mailto:mike.schulz@earthwavetech.com">mike.schulz@earthwavetech.com</a>.</td>
</tr>
<tr>
<td>Issue</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>An error has occurred while setting up the account. Please contact Earthwave Technologies for assistance.</td>
<td>Contact Earthwave Technologies support at 800-553-0027 or send an email to <a href="mailto:mike.schulz@earthwavetech.com">mike.schulz@earthwavetech.com</a>.</td>
</tr>
<tr>
<td>Check account configuration</td>
<td>Ensure that the driver and the asset are in the same Visibility Sets and has a role Driver role.</td>
</tr>
<tr>
<td>Error creating unidentified driver account</td>
<td>Try logging in after a few minutes and if error persists, contact Earthwave Technologies support to 800-553-0027 or send an email at <a href="mailto:mike.schulz@earthwavetech.com">mike.schulz@earthwavetech.com</a>.</td>
</tr>
<tr>
<td>A non-driver accounts cannot be login as co-driver.</td>
<td>Ensure that the user account has a role Driver role. Personnel accounts are not allowed to log in as co-drivers.</td>
</tr>
<tr>
<td>Your Earthwave Technologies version is &lt;current build version&gt;. This version is no longer supported. Please upgrade to &lt;latest build version&gt; or greater for stable operation.</td>
<td>Upgrade the Application to the latest version.</td>
</tr>
</tbody>
</table>