© 2018 The Descartes Systems Group Inc. All rights reserved.

Information in this document is subject to change without notice. Descartes makes no warranties, express or implied, in respect of this document or its contents.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of The Descartes Systems Group Inc. ("Descartes").

Descartes may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Descartes, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

Descartes SmartFleet, Descartes FleetCenter, Descartes Global Logistics Network (GLN), Descartes, the phrase "Helping Customers Deliver," and the Descartes logo are either registered trademarks or trademarks of Descartes and/or its affiliates.

The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

The Descartes Systems Group Inc.
120 Randall Drive
Waterloo, Ontario Canada, N2V 1C6
Phone: 519-746-8110
Internet: http://www.descartes.com

Customer Support
In North America: 1-877-786-9339
Outside North America: +800 -7866-3390
e-mail: servicedesk@descartes.com
Table of Contents

Introduction ........................................................................................................................................ 4
  Document Conventions ....................................................................................................................... 4
  Welcome to Descartes Telematics SmartFleet™ ..................................................................................... 5
  Audience ........................................................................................................................................... 5

Starting Your Day .................................................................................................................................. 6
  Login (Tablet Device) .......................................................................................................................... 6
  Login (Smart Device) ........................................................................................................................... 7

On the Road .......................................................................................................................................... 13
  Descartes SmartFleet Main Menu ......................................................................................................... 13
  Work Status......................................................................................................................................... 14
    Automatic Status Changes .................................................................................................................. 17
    Trailer and Shipping Document Assignment .................................................................................... 17
  HOS (Hours of Service) ....................................................................................................................... 22
    HOS Status ....................................................................................................................................... 22
    HOS Chart ......................................................................................................................................... 25
    Reviewing and Certifying HOS Logs .................................................................................................. 27
    Creating a New HOS Log .................................................................................................................... 30
    Reviewing and Certifying Proposed HOS Logs .................................................................................. 34
    Reporting Exceptions ....................................................................................................................... 37
    Viewing Violations ............................................................................................................................. 41
    Personal Conveyance ......................................................................................................................... 42
    Yard Moving ....................................................................................................................................... 45
  Warnings .............................................................................................................................................. 46
  Co-Drivers .......................................................................................................................................... 48
    Login ................................................................................................................................................. 48
    Work Status ....................................................................................................................................... 52
    HOS .................................................................................................................................................. 53
    Swap Drivers ...................................................................................................................................... 53
  Unidentified Driver ............................................................................................................................... 56
  HOS Review ......................................................................................................................................... 58
  Transfer of ELD Records ..................................................................................................................... 64
  ELD Diagnostic ..................................................................................................................................... 65
  ELD Malfunction .................................................................................................................................. 67
  Log-Out ............................................................................................................................................... 68
Introduction

Descartes Telematics is an Federal Motor Carrier Safety Administration (FMCSA) ELD Compliant solution for Hours of Service (HOS) and automatic recording of ELD Diagnostics and Malfunctions.

Document Conventions

This document uses the following conventions:

- Names of windows, frames, dialogs, menus, list boxes, and lists begin with uppercase and are bolded. (Tools menu, Save button)
- Key combinations that you press appear in mixed case. If the keys are joined by a plus sign (+), press and hold the first key simultaneously with the remaining keys (for example, CTRL+ALT+DEL).
- Text that you type appears in Courier New font. (Enter USERID in the login field.)
- Cross-references to other documents, or to sections within the current document, appear in underlined italics. (See Saving a File for details.)
  - Italics are used for emphasis throughout this document.

智造 — Information important to a particular task or function is introduced with the note format and icon.

💡 Tip — Information that may make completing a task easier, but isn't essential to the task, is introduced with the tip format and icon.

⚠️ Warning — This warning format indicates information that you need to pay particular attention to. Ignoring information presented as a warning could lead to damage and unexpected results. Disregarding information presented as a warning may result in damage to your software or data.
Welcome to Descartes Telematics SmartFleet™

The Descartes Telematics SmartFleet application allows drivers to manage and comply HOS rules and exchange information between the driver's vehicle and the back-office system. This information includes the following:

- Vehicle GPS position
- HOS Logs with location and timestamp
- Vehicle performance information:
  - Speed
  - RPM
  - Idling
- Arrival and departure to/from locations and vehicle stops
- Two-way messages
- Input form entries

Additionally, Descartes SmartFleet provides the following features:

- Communication to/from driver and carrier
- Engine monitoring
- Automated fuel tax reporting
- Navigation
- Input forms – electronic forms; e.g. fuel form, pre- and post-trip, etc.

Audience

The intended audience for this document is drivers using Descartes SmartFleet for their HOS and trainers preparing training material for drivers.
Starting Your Day

At the start of your day, turn on the ignition, which also boots up your device. The system takes up to one minute to boot, including the time to successfully establish the connection between the box (LMU) and the screen.

The system is ready for use when the User Interface displays.

Login (Tablet Device)

To login:

1. The SmartFleet Entry menu displays.
2. Tap the Login icon on the SmartFleet Entry menu. The Login screen displays.
3. Enter your PIN number or reference (REF) number in the login field.
4. If configured for ELD Operations the driver can also enter the Shipping Document number on the Login screen.
5. Tap the Login button.
6 Review your settings and tap OK to dismiss the dialog. The Work Status screen is displayed.

**Login (Smart Device)**

To login:

1 Select the Descartes SmartFleet icon on the Home screen. The SmartFleet Entry menu displays.
2 Tap the **Login** icon on the **SmartFleet Entry** menu. The **Login** screen displays.

3 Enter your PIN number or reference (REF) number in the login field.

4 If configured for ELD Operations the driver can also enter the Shipping Document number on the Login screen.

5 Tap the **Login** button.
6 Review your settings and tap OK to dismiss the dialog. The **SmartFleet Main Menu** is displayed.

7 Tap the Tether icon on the **SmartFleet Main Menu** to connect your Smart Device to the appropriate vehicle.
8 Tap **Find** to discover the available assets.

9 The available assets truck numbers are displayed on the left side.
10 Select the truck that you will be driving and press Connect.

11 Your Smart Device will pair over Bluetooth to the device in the truck. You can see it is successfully paired, because the top line will color green and the details of
the device in your truck will be displayed. If you have not paired to the correct vehicle, tap Disconnect and repeat the process.

<table>
<thead>
<tr>
<th>Tether</th>
<th>16218482</th>
<th>11/14/17</th>
<th>DESCARTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATL 30 LMU</td>
<td>LMU ESN</td>
<td>DSG_4865009766</td>
<td></td>
</tr>
<tr>
<td>Vehicle ID</td>
<td>ATL 30 LMU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current status:</td>
<td>Connected</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oh 0min</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12 Select Back to return to the SmartFleet Main Menu.
On the Road

Descartes SmartFleet Main Menu

The icons displayed in the main SmartFleet menu are subject to your company’s settings. The actual layout on your device may differ from the one provided below.

The HOS, HOS Review, Work Status, Events and Co-Driver icons are always displayed. The Trip Orders, Input Forms, Messages and Navigation icons may also be displayed depending on your company’s configuration.

The options available from the main menu are summarized below:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="work_status" alt="" /></td>
<td>View current duty status, switch to new duty status</td>
</tr>
<tr>
<td><img src="hos_review" alt="" /></td>
<td>Allows an authorized safety official to review and receive (by email or Web Service) HOS reports</td>
</tr>
<tr>
<td><img src="hos" alt="" /></td>
<td>Review and certify HOS logs</td>
</tr>
<tr>
<td><img src="co_drivers" alt="" /></td>
<td>Allows co-driver to login</td>
</tr>
<tr>
<td><img src="unidentified_logs" alt="" /></td>
<td>View Unidentified Driver Logs</td>
</tr>
<tr>
<td><img src="messages" alt="" /></td>
<td>Read messages sent from the back-office, send messages to the back-office</td>
</tr>
<tr>
<td><img src="input_forms" alt="" /></td>
<td>Collect information while progressing your route, signature, pictures, etc.</td>
</tr>
<tr>
<td><img src="trip_orders" alt="" /></td>
<td>View stops on route and confirm Stop completion. (POD)</td>
</tr>
<tr>
<td><img src="navigation" alt="" /></td>
<td>Invoke navigation to provide voice guided driving directions and maps.</td>
</tr>
<tr>
<td><img src="tether" alt="" /></td>
<td>Allows the driver to connect his Smart Device to the vehicle (via Bluetooth) This option is available on the Descartes Telematics Smart Device only.</td>
</tr>
</tbody>
</table>
**Work Status**

The **Work Status** screen displays available Work Status options. Drivers can select from different statuses listed on the screen. The following statuses are always available:

- Off Duty
- Sleeper Berth
- Driving
- On Duty Not Driving

The following statuses may also be available if configured.

- Yard Moving
- Personal Conveyance

芟 Note—The “Personal Conveyance” and “Yard Moving” statuses are always displayed, but will appear grayed out if they are not configured to be available.

Once you log in, if you do not select a Duty Status within a configured time period, your Duty Status will be set to the Descartes FleetCenter default status configured for your company. This status is highlighted on the **Work Status** screen.
Based on your configuration, there may be multiple “On Duty Not Driving” statuses. In the example above, the driver has an additional “On Duty Not Driving” status configured:

- Pre Trip (ON DUTY)
- Post Trip (ON DUTY)

The **Work Status** screen also displays key details about you and your company:

![Work Status Screen](image)

Drivers can manually change their duty status, but only when the vehicle is stationary.

To manually change duty status:

1. Navigate to the **Work Status** screen.
2 Select the appropriate status from the list on the left pane.

Note—Drivers cannot manually change status to "Driving".

The status change notification appears briefly and the selected duty status is assigned.
Automatic Status Changes

Status changes to or from “Driving” status are automatic. Descartes SmartFleet automatically sets the duty status to “Driving” when the vehicle exceeds a set speed threshold of greater than five miles per hour.

When the duty status is set to “Driving” and the vehicle has not been in motion for five consecutive minutes, the driver is prompted to respond to a confirmation dialog to continue in “Driving” status or enter the proper duty status.

If the driver does not respond to this dialog within 60 seconds, then his duty status is automatically set to “On Duty”.

Trailer and Shipping Document Assignment

Drivers can assign trailers and shipping documents from the Work Status screen.

To assign a trailer:

1. Tap the Work Status icon on main menu. The Work Status screen opens. Tap the Assignments button.
2 The **Assignments/Trailer** screen appears.

![Assignment/Trailer Screen]

3 Enter the applicable trailer ID.

![Assign trailer field]

**Assign trailer**

3450
4 Tap Confirm button. The trailer is assigned (viewed in HOS Status).

If there is already a trailer ID assigned, but you want to change it manually, follow the same procedure as described above except on the Assignments/Trailer screen first tap the Checkout button.

To assign a shipping doc:

1 Tap the Work Status icon on main menu. The Work Status screen opens. Tap the Assignments button.
The Assignments/Trailer screen appears.

2 Tap the Shipping document tab.
3. Enter the applicable shipping document number.

4. Tap the Confirm button. The shipping doc is assigned (viewed in HOS Status).

If there is already shipping doc number assigned, but you want to change it manually, follow the same procedure as described above except on the Assignments/Shipping screen first tap the Checkout button.
HOS (Hours of Service)

The HOS option allows you to view the hours of service (HOS) for the current day and previous 7 days and certify your logs.

Upon selection of the HOS option, the HOS Status screen is displayed.
The **HOS Status** screen displays the following information:

1. The currently active HOS status
2. The Max Allowed Time as defined by the applied HOS rule. From left to right, the displayed values are defined as follows:
   - Maximum allowed daily driving time
   - Maximum allowed daily on duty time
   - Maximum allowed weekly on duty time
3. Spent Daily Time. From left to right, the displayed values are defined as follows:
   - Spent daily driving time
   - Spent daily on duty time
   - Spent weekly on duty time

If you have less than one hour daily driving, daily on duty or weekly on duty time left, the time counters will be colored orange.
If you are in violation of on duty and/or driving time and/or weekly on duty time, time counters will be colored red.

The currently applied HOS rule
HOS Chart

Tap the Chart button to display a graphical representation of HOS status changes with the total number of hours in each Duty Status:

- **OFF** – Off Duty
- **SB** – Sleeper Berth
- **D** – Driving
- **ON** – On Duty Not Driving

Remarks and annotations are represented by black dots on the chart. The portions of the chart that are shaded in red represent violations of “On Duty” or “Driving” status.

In the section below the chart, drivers can view additional information, including remarks/annotations, locations and timestamp. The remark/annotation currently displayed is represented by the black dot on the chart. Scroll through the remarks by tapping the left or right side of the screen.

The portions of the chart that are shaded in blue represent the period of a 34-hour restart.
Tap the plus and minus icons to zoom in and out of the chart, respectively. Tap the carat (^) icon to display additional navigation options.
Reviewing and Certifying HOS Logs

Drivers can review HOS logs in Descartes SmartFleet to certify and enter remarks. To review HOS logs, on the HOS Status screen, tap the Log button. The HOS Log screen appears, listing all available days.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Driving</th>
<th>Time Duty</th>
<th>Distance</th>
<th>Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/03/17</td>
<td>2:54</td>
<td>0:00</td>
<td>0:00mi</td>
<td>8/9</td>
</tr>
<tr>
<td>10/02/17</td>
<td>0:00</td>
<td>0:00</td>
<td>0:00mi</td>
<td>0/0</td>
</tr>
<tr>
<td>10/01/17</td>
<td>0:00</td>
<td>0:00</td>
<td>0:00mi</td>
<td>0/0</td>
</tr>
<tr>
<td>09/30/17</td>
<td>0:00</td>
<td>0:00</td>
<td>0:00mi</td>
<td>0/0</td>
</tr>
<tr>
<td>09/29/17</td>
<td>0:00</td>
<td>0:00</td>
<td>0:00mi</td>
<td>0/0</td>
</tr>
</tbody>
</table>

An HOS log summary is listed for each day. The number of Certified logs are listed against the total for each record. The records are color-coded to indicate the certification status of each day's logs:

- Green log field if all logs for the day are certified by driver
- Red log field if none or part of the log is certified
- White log field if there are no records for that day

Viewing HOS Logs

On the HOS Log screen, tap View to display all logs for a given day.
The HOS Log screen displays the following details for each log on the selected day:

- Status changes organized by time
- Location and timestamp of every status change
- Remarks and annotations, if available:
  - Remarks entered by driver
  - Annotations entered by the system:
    - When driver reports exception
    - When driver reports personal conveyance
    - When vehicle crosses state border
### HOS Log - Driver Test

<table>
<thead>
<tr>
<th>Location: 5mi SW GA Sandy Springs</th>
<th>16218482</th>
<th>10/03/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annotations:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**STATE CHANGE: 10/03/17 1:18:01PM**

**OFF DUTY**

<table>
<thead>
<tr>
<th>Location: 5mi SW GA Sandy Springs</th>
<th>10/03/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
<tr>
<td>Annotations:</td>
<td></td>
</tr>
</tbody>
</table>

**MANUAL ENTRY: 10/03/17 11:30:00AM**

**DRIVING**

<table>
<thead>
<tr>
<th>Location:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
<tr>
<td>Annotations:</td>
<td></td>
</tr>
</tbody>
</table>

**STATE CHANGE: 10/03/17 10:53:25AM**

**ON DUTY**

<table>
<thead>
<tr>
<th>Location: 5mi SW GA Sandy Springs</th>
<th>10/03/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
<tr>
<td>Annotations:</td>
<td></td>
</tr>
</tbody>
</table>

**STATE CHANGE: 10/03/17 10:49:23AM**

**ON DUTY**

<table>
<thead>
<tr>
<th>Location: 5mi SW GA Sandy Springs</th>
<th>10/03/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
<tr>
<td>Annotations:</td>
<td></td>
</tr>
</tbody>
</table>

- Uncertified HOS logs are highlighted in white
- Certified HOS logs are highlighted in green
- Proposed (edited) logs are highlighted in yellow
- Original HOS logs are highlighted in gray
- HOS Logs recorded during a diagnostic are highlighted in orange
- HOS Logs recorded during a malfunction are highlighted in red

**Note**—Drivers should certify logs before logging out. See section Reviewing and Certifying HOS Logs.
Creating a New HOS Log

To create a new HOS log:

1. Tap the Options button at the bottom of the HOS Status screen. The HOS Options screen appears.

3. Current time, "Off Duty" status and Rule are automatically populated. Make any edits if necessary.

4. Tap the Save button to complete the new log. You can view the logs on the HOS Log screen.

5. Tap Log on the HOS Status screen.
6 The **HOS Log** screen is displayed. Tap on the **HOS LOG** to select the day for which you want to check the log. Then tap **View**.

![HOS Log Screen](image)

7 Individual logs for that day are presented and can be edited, by selecting the **Edit** button.

![Individual Log Edit](image)
Certifying Logs

To certify logs for the entire day, tap the **Certify All** button on the initial **HOS Log** screen.

Tap **Agree** on the confirmation dialog to continue.
Reviewing and Certifying Proposed HOS Logs

In Descartes FleetCenter, when a supervisor proposes a new HOS log or edits an existing one in Descartes FleetCenter, the driver is notified in Descartes SmartFleet.

1. Tap OK to dismiss the notification and view the proposed logs. Tap the View button to display all logs for the selected day.

2. The HOS Log screen appears. Find the Proposed Log.
3 Tap the **Edit** button to review the log and make any necessary changes. The **HOS Review** screen appears.

<table>
<thead>
<tr>
<th>Vehicle ID</th>
<th>Test Truck / Test Truck</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>10/03/17 8:00:00AM</td>
</tr>
<tr>
<td>Status</td>
<td>ON DUTY</td>
</tr>
<tr>
<td>Location</td>
<td>2030 ABC street, Atlanta, GA 30339</td>
</tr>
<tr>
<td>Remarks</td>
<td>Forgot to Login</td>
</tr>
<tr>
<td>Rule</td>
<td>US 7 Day</td>
</tr>
</tbody>
</table>

4 Tap **Save** to save your edits or tap **Refuse** to refuse the log. When the log is saved, you can then certify the log.
5 To certify logs for the entire day, tap the **Certify All** button.

Select **Agree** from the confirmation dialog. You can also postpone certification from this dialog by selecting **Not ready**.
At the end of your day, if logs are not certified, you will receive a notification to certify all logs before logging out.

### Reporting Exceptions

Users can report exceptions such as Adverse Condition or a 16-hour Exception from within the **HOS** screen.

1. Tap the **Options** button at the bottom of the **HOS Status** screen. The **HOS Options** screen appears.

<table>
<thead>
<tr>
<th>HOS Status - Driver Test</th>
<th>16218482</th>
<th>10/03/17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ON DUTY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 hour</td>
<td>14 hour</td>
<td>7 day</td>
</tr>
<tr>
<td>0:00</td>
<td>0:42</td>
<td>0:38</td>
</tr>
<tr>
<td>Log sync:</td>
<td>10/03/17 10:36:58AM</td>
<td>DRIVE time left: 11:00</td>
</tr>
<tr>
<td>Shipping doc.:</td>
<td>A1234B</td>
<td>Time from last rest break: 0:42</td>
</tr>
<tr>
<td>Trailer ID:</td>
<td>3450</td>
<td>Consec. time off: 0:00</td>
</tr>
<tr>
<td>Daily distance:</td>
<td></td>
<td>0.00mi</td>
</tr>
<tr>
<td>Weekly distance:</td>
<td></td>
<td>0.00mi</td>
</tr>
</tbody>
</table>

BACK | CHART | LOG | OPTIONS | BLACKBOX | WORK STATUS | TRIP ORDERS
2 Tap **Report Exception**.

3 Tap the applicable exception from the **Report Exception** screen and enter appropriate Remarks.

4 You are asked to confirm the selection. Please tap to **Engage** or tap **Cancel** if you have made a mistake in selection.
If Adverse Condition is selected, the **HOS Status** screen displays the message “Adverse Condition engaged”.

The **HOS Chart** screen displays the Adverse Condition in red text.
 addUserNote— Users cannot enter a Remark associated with the Adverse Condition. If 16-hour exception is selected, the exception is displayed in both the HOS Status screen and the HOS Chart screen.
Viewing Violations

To view HOS violations in the system:

1. Tap the HOS icon from the main menu.
2. Tap Options button at the bottom of HOS Status screen. HOS Options dialog appears.
3. Tap View Violations. A list of recorded HOS violations appears.

HOS rules violations can also be viewed on the HOS Chart screen. The portions of the chart that are shaded in red represent violations of “On Duty” or “Driving” status.
Personal Conveyance

If the "Personal Conveyance" status is configured, the Work Status screen displays the Personal Conveyance option. To identify Personal Conveyance use, select the Personal Conveyance option.
Users must enter a Remark associated with the Personal Conveyance Duty Status.

When Personal Conveyance is activated, it is highlighted and all other Duty Statuses are disabled.

Even when driving, the Personal Conveyance status remains engaged.
Descartes SmartFleet continues to record HOS while “Personal Conveyance” status is engaged and will identify Personal Conveyance in the HOS screen.

Note that the Personal Conveyance is indicated as “Off Duty” with a dotted line. In addition, the driver location associated with the HOS is recorded but offset to about 10 miles from the actual location.

If the engine goes through a Power Off cycle while Personal Use is activated, Descartes SmartFleet will ask the driver to confirm Personal use.
Yard Moving

If the “Yard Moving” status is configured, the Work Status screen displays the Yard Moving option. To identify Yard Moving use, select the Yard Moving option.

Users must enter a Remark associated with the Yard Moving Duty Status.
When Yard Moving is activated, it is highlighted and all other Duty Statuses are disabled.

<table>
<thead>
<tr>
<th>Work Status</th>
<th>Driver Name</th>
<th>Driver ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rest Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post Trip</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OFF Duty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleeper Berth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yard Moving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal Conveyance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Even when driving, the Yard Moving status remains engaged.

Descartes SmartFleet continues to record HOS while “Yard Moving” status is engaged and will identify Yard Moving in the HOS screen. Note that the Yard Moving is indicated as “On Duty” with a dotted line.

The user should disengage **Yard Moving** when finished this activity. To disengage Yard Moving, select the Yard Moving disengage option.

If the engine goes through a Power Off cycle while Yard Moving is activated, Descartes SmartFleet disengages Yard Moving.

**Warnings**

Warning messages will display to notify the driver of possible HOS rule violations such as:

- Daily driving time
- Daily on duty time
- Weekly on duty time
- 30-minute rest break
Once the driver enters the last hour of a certain available status, a warning will display. Rest Break warnings are described below.

**Rest Breaks**

After seven hours from going On Duty, if the driver is driving and has taken no breaks since going On Duty, the system will issue warnings (pop-up messages) to the driver. An audible alert is also emitted.

These warnings are received 60, 30, and 10 minutes before the actual violation occurs.

---

**Note**— Warnings are not displayed if you are in “On Duty” status.
If you do not take a break or start driving without having taken a break in the previous eight hours, the system displays a violation alert.

**Power Warning**

The system warns the driver if the battery level on the tablet device is becoming low.

The driver should place the device in the docking station to re-charge the device. If the driver does not, the system will safely shutdown when the battery level is critically low.

**Co-Drovers**

**Login**

The co-driver must login *before* the vehicle is in motion. To add one or more co-driver(s):
1. Tap the **Co-Driver** icon on the Descartes SmartFleet Main Menu.

Or,

Tap the **Co-Driver** button on the **Work Status** screen.
The **Co-Driver** screen opens. If there are no Co-Driver logged in then the **Co-Driver** screen is empty.

2. Tap **Add**.
3 The co-driver can enter his or her PIN or reference number in the Login field and tap the **Login** button.

Only co-drivers with a valid PIN or reference number can login; otherwise the following notification appears.

Upon successful login, the **Co-Drivers Status** screen is displayed.
The solution will not allow a co-driver to login while vehicle is in motion. When the vehicle is in motion the screen is locked and does not permit user interaction.

**Work Status**
As a minimum, the following Work Status options are available to the co-driver:

- Off Duty
- Sleeper Berth
- On Duty Not Driving

The co-driver may also have the following statuses if configured:

- Yard Moving
- Personal Conveyance

The “Driving” status is not available to the co-driver at this point. The co-driver must swap with the Driver and become the Driver before “Driving” status is available. This is described in the *Swap Drivers* section.

To use the **Work Status** screen:

1. The co-driver taps the applicable status.
2. The co-driver’s **Work Status** screen opens listing co-driver(s) with the current Duty Status.
3. Additional co-drivers can be added by selecting the **Add** button and repeating the steps listed in the previous section.
HOS

Co-drivers can review their HOS logs and make edits.

1. Select the HOS icon.
2. Select the applicable driver/co-driver name listed in Logged in Users (applies only if co-driver(s) are logged in). The selected driver’s HOS Status screen appears.

3. The co-driver can view and certify logs as described in the Reviewing and Certifying Proposed HOS Logs section.

   If the vehicle is in motion, Descartes SmartFleet prevents the co-driver from viewing/editing/certifying his logs.

Swap Drivers

Drivers and co-drivers can switch role so that the Driver becomes the co-driver and vice versa. This swap is only permitted when the vehicle is not in motion.

1. To swap the driver tap on the co-driver’s name in the Work Status menu
### 2 Tap on the Driver Swap

<table>
<thead>
<tr>
<th>Work Status</th>
<th>16218482</th>
<th>10/04/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre Trip</td>
<td>ON DUTY</td>
<td></td>
</tr>
<tr>
<td>Driver Name</td>
<td>Driver Test</td>
<td></td>
</tr>
<tr>
<td>Driver ID</td>
<td>12345</td>
<td></td>
</tr>
<tr>
<td>Carrier</td>
<td>Test Driving Company</td>
<td></td>
</tr>
<tr>
<td>DOT number</td>
<td>987654321</td>
<td></td>
</tr>
<tr>
<td>Exempt from ELD</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Vehicle ID</td>
<td>Test Truck</td>
<td></td>
</tr>
<tr>
<td>Rest Break</td>
<td>OFF DUTY</td>
<td></td>
</tr>
<tr>
<td>Current status:</td>
<td>ON Duty 0h 35min</td>
<td></td>
</tr>
<tr>
<td>Logged in since</td>
<td>9:29:28AM</td>
<td></td>
</tr>
<tr>
<td>Post Trip</td>
<td>ON DUTY</td>
<td></td>
</tr>
<tr>
<td>Co-Driver</td>
<td>Driver1 Test</td>
<td></td>
</tr>
<tr>
<td>Driver Swap</td>
<td>Back</td>
<td></td>
</tr>
<tr>
<td>Off Duty</td>
<td>OFF DUTY</td>
<td></td>
</tr>
</tbody>
</table>

**Go to**
- Info
- Driver Swap
- Back
The co-driver now becomes the main driver and the previous main driver is now a co-driver.

After the swap, the Driving Duty Status will be available to the initial co-driver (now Driver) and no longer available to the initial Driver (now co-driver).

The ELD does not allow co-drivers to switch driving roles when the vehicle is in motion.
Unidentified Driver

Descartes SmartFleet detects the vehicle in motion. If the vehicle is in motion and a Driver has not logged in, Descartes SmartFleet informs the user of the following and an audible tone is emitted:

![Unauthorized Trip Event]

The driver must dismiss the dialog and login in. If the Driver does not login, HOS Logs are recorded against an Unidentified Driver. Unidentified Driver Logs can be proposed to a driver by a back-office staff and the driver has the option to Accept those HOS Logs or Refuse them.

The Proposed Logs are automatically annotated to inform that they are Proposed from Unidentified Driver.
If the HOS Logs are accepted, the driver will still need to review and certify his logs as described in the *Reviewing and Certifying Proposed HOS Logs* section.

Additionally, Unidentified Driver Logs can be viewed and claimed by the driver by selecting the **Unidentified Logs** icon on the Main Menu.

The **Unidentified Logs** view is presented.
The driver can **Claim Record** for each log that he wishes to be associated to himself. When finished the driver selects the **Back** button to return to the main menu.

If the HOS Logs are claimed, the driver will still need to review and certify his logs as described in the **Reviewing and Certifying Proposed HOS Logs** section.

**HOS Review**

The **HOS Review** option allows an authorized safety official to review HOS reports and receive HOS reports via email for the selected driver or an unidentified driver for the current 24-hour period and/or any of the previous seven consecutive days, irrespective of the vehicle operated by the driver and without entering the commercial motor vehicle; the display may be untethered from its mount and passed outside of the vehicle for a reasonable distance.

Depending on tablet device and installation, the driver may also need to unplug the cable from the tablet device. During this process the driver will be asked to confirm that he really does wish to unplug the ELD from the engine. Following driver confirmation, the top line color in Descartes SmartFleet will be Red to indicate that the device is no longer connected to the vehicle.
The display device should be handed to the Safety Official with the Cab Card that provides instructions on how the HOS reports can be viewed.

To use this functionality:

1. Select the **HOS Review** icon on the **Main Menu**.
2  Select the driver reference number or the **Unidentified Driver** option.
3 Select the date for records that you wish to view. The current 24-hour period can be selected (Today) or one of the previous seven days.

A header is displayed with the following information:

- Record Date
- Carrier DOT number
- Driver Name
- Driver License number
- License Issuing State
- Start and End Odometer
- Miles Today
- Start and End Engine Hours
- ELD Manufacturer
- Shipping Document Number
- Trailer Id
- Tractor VIN
- Carrier Name
Depending on the size of the device’s screen, the Safety Official may need to swipe left to view all this information.

Below the header, view the **HOS Graph**. The following is overlaid on the graph:

- **Total hours** - Total Hours in working day so far
- **Off duty** – Total Hours logged with “Off Duty” status
- **Sleeper Berth** - Total Hours logged with Sleeper berth status
- **Driving** - Total Hours logged with Driving status
- **On duty not driving** - Total Hours logged with On Duty not driving status
- **Miles Today** – Vehicle Miles Driven today
Swipe up to view the details of each HOS Record. The following is displayed for each record in driver’s report:

- Vehicle
- Driver
- Time
- Location
- Odometer
- Engine Hours
- Event Type
- Status
- Origin
- Remark/Annotation
Depending on the size of the device’s screen, the Safety Official may need to swipe left/swipe right to view all this information.

**Transfer of ELD Records**

The Safety Official can transfer the records via email or Web Service to the FMCSA. To transfer the records:

1. Select the **Transfer RODS** button.
2. The Safety Official is prompted to select the method of transfer and enter an optional comment:

   ![Set Method and Comment](image)

   The comment entered will be included with transferred HOS Logs when they are transferred.
3 The Safety Official is prompted to confirm the transfer:

![Transfer RODS](image)

4 If there is no internet connection then the following message is displayed:

![No connection](image)

The data transfer request is stored in the system and will be sent when an internet connection is available.

**Note**—For the tablet device the Officer must hand the terminal to driver. Driver must place the terminal back in the docking station and wait for a successful internet connection.

**ELD Diagnostic**

Descartes SmartFleet continuously monitors data using a set of parameters defined by the FMCSA and alerts users of ELD Diagnostic events as they occur. An orange square icon is displayed in the notifications bar of the mobile device to indicate an ELD Diagnostic Event.
Swipe down from the notifications bar to view additional information regarding the Diagnostic Event.
Your back-office will also be alerted of this Diagnostic Event and will contact you to help resolve the issue.

**ELD Malfunction**

Descartes SmartFleet monitoring may detect an ELD malfunction. Users are informed when an ELD malfunction occurs. A red square icon is displayed in the notifications bar of the mobile device to indicate an ELD malfunction.

Swipe down from the notifications bar to view additional information regarding the ELD malfunction.
Your back-office will also be alerted of this Malfunction event and will contact you to help resolve the issue.

**Log-Out**

At the end of your Duty Period you must log out of Descartes SmartFleet. To log out:

1. Tap the **Logout** button from the main Descartes SmartFleet menu.
2 HOS Logs should be certified before you log out. If you attempt to log out with uncertified logs, the system will prompt you to certify your logs. This process is described in the Reviewing and Certifying Proposed HOS Logs section of this document.
3 Once all logs have been certified, the Logout process continues and the system will prompt you to confirm your Duty Status.

If you are going off duty then you should indicate “Off Duty” status.

4 If co-drivers are logged in, a notification will appear and the co-driver is guided through the log certification and log-out process.