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Coretex DRIVE: ELD Driver Guide

Coretex DRIVE v1.7+/Coretex 360 v19.1



CORETEX
Driving Intelligence

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About this guide

This *Coretex DRIVE: ELD Driver Guide* is a reference to using the **Coretex DRIVE** application with integrated **ELD** and **Vehicles Inspections** (DVIR) on an Android mobile device (tablet or suitable smartphone), and is intended to allow drivers to follow the most common step-by-step procedures they need to do.

Intended audience

This *Coretex DRIVE: ELD Driver Guide* is for Coretex customers (drivers) making use of **Coretex DRIVE** on their mobile devices “in cab” with their delivery trips.



ELD and Driver Hours functionality, as described in this guide is specific to North America.



Related documentation

This guide is intended to be used in conjunction with the following documents:

| Guide Title | Category | Description |
|--|---------------|--|
| Coretex 360: ELD Administration Guide | Admin | Administration guide for supervisors/administrators configuring the Coretex ELD solution in Coretex 360 . |
| Coretex 360 - DVIR: Administration Guide | Admin | Administration guide for supervisors/administrators using Coretex 360 to configure DVIR for drivers and users |
| Coretex DRIVE: DVIR – User Guide | User | More detailed User Guide for use of Vehicle Inspections or DVIR (<i>Driver Vehicle Inspection Reports</i>) within Coretex DRIVE |
| Quick Reference Coretex DRIVE: Driver In-cab Guide (General Operations) | User (Driver) | <ul style="list-style-type: none"> Quick Reference guide for drivers to keep in their vehicles for use of the Coretex ELD Solution with Coretex DRIVE Spanish version available also |
| Quick Reference Coretex DRIVE: Driver In-cab Guide (Data Diagnostics/Malfunctions) | User (Driver) | Summary user guide to refer to Data Diagnostic and Malfunction codes that can be encountered with Coretex ELD solution (content is also in this guide). |
| Quick Reference Coretex DRIVE: ELD Visor Card | User (Driver) | For drivers to refer to summary dashboard features, Roadside Inspection procedures and Data Diagnostics/Malfunctions |
| Coretex DRIVE: TMU Installation Guide | Install | Installation Guide for installers pairing vehicle and TMU for use with Coretex 360/Coretex DRIVE . |

Revision history

This following table provides the revision history of this guide:

| Guide Version | Date | Description |
|---------------|----------|---|
| v1.0 | Dec 2017 | First release. |
| v1.2 | Jan 2018 | Latest release with new features. |
| v1.3 | Mar 2018 | Latest release with new features. |
| v1.4 | Jul 2018 | Revisions for violations for HOS and ELD for Canada. |
| v1.5 | Oct 2018 | Minor enhancements and provisions for customer device integration/support |
| v1.6 | Dec 2018 | Revisions for release of Coretex 360 v18.4 |
| v1.7 | Apr 2019 | Revisions for release of Coretex 360 v19.1 |

Contact Coretex



Local in-country support is available within Australia, New Zealand and North America.



Please visit coretex.com for support and contact details.



Coretex ELD solution

| | |
|---|--|
|  | <p>ELD mandate The USA ELD mandate was published by the FMCSA in 2015 with a goal to increase safety and accountability in the trucking industry. It is a set of detailed guidelines on operation of trucks for trucking companies and their fleets and drivers. It was legislated for all drivers in the USA to comply by Dec.2017 or face prosecution.</p> |
|  | <p>The Canadian ELD mandate was published as a final draft by the CCMTA in 2017. It adopts many of the provisions of the USA regulations, but with some differences and it is expected a compliance date in the fourth quarter of 2019 will be instigated.</p> |

Organizations can choose to see ELD as a tax and attempt to minimize the cost, or they can see it as an opportunity to drive competitive advantages.

Coretex has built its ELD solution from the ground-up and created one of the few fully integrated solutions on the market today. For organizations that want a fully featured, fully integrated **ELD solution Coretex** is best in class!

The **Coretex ELD solution** is tightly integrated with the **Coretex 360** application suite. The easy-to-use interface has been developed in partnership with a number of large fleet operators in North America.






The **Coretex ELD solution** supports:

- all North America driver rulesets, including interstate rules
- team, exempt and short haul drivers
- permanent and temporary vehicles installations
- ELD compliance for rental vehicles



- the **Coretex ELD solution** is in full compliance with USA ELD mandate defined by the *Federal Motor Carrier Safety Administration (FMCSA)*
- the **Coretex ELD solution** is in full compliance with Canada ELD mandate defined by the *Canadian Council of Motor Transport Administrators (CCMTA)*

ELD functionality

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| Mobile device | Add additional | Control your data usage | FMCSA registered ELD | Fully integrated into back office |
| ✓ | ✓ | ✓ | ✓ | ✓ |

For drivers

The **Coretex ELD solution** allows drivers to:

- set their driver duty status during a trip and interact with co-drivers
- process **Information Cards** on their **Coretex DRIVE** dashboard for dealing with tasks like *Vehicle Inspections (DVIR)* and *Shipment number entry*
- display/edit their daily driver logs and the vehicle's unidentified driving records
- certify their daily logs
- deal with *Data Diagnostic/Malfunction* events
- review and accept/reject edits proposed by their supervisor
- change ruleset when appropriate to comply with applicable jurisdiction
- allow a *Roadside Inspection* to be performed on their mobile device, and for uploads of driver log data to FMCSA



For drivers, compliance couldn't be easier – all they need to do is log in at the beginning of the day, even outside cellular coverage. They can also view their drive time availability in multiple rulesets prior to log in.

For Supervisors/Administrators

The **Coretex ELD solution** allows a supervisor/administrator to:

- review the daily logs of all drivers under their administration
- propose edits to drivers daily logs and unidentified driving records to be sent down to a driver's mobile device for them to consider
- configure drivers for ELD via **Driver Manager**
- upload drivers log data to FMCSA
- analyse drivers daily logs with a suite of *Driver Hours* reports



Dispatchers or supervisors/administrators can readily track and manage compliance in **Coretex 360** via a dashboard which offers easy access to driver availability data, and interactive graph and multi-edit features for easy log editing.

Coretex ELD: it's your path to increased efficiency, slashing paperwork for drivers by up to 63 percent and for office staff by 14 percent. Manual logging is so yesterday!



Access to ELD functionality is determined by:

- account is configured for use of the **Coretex ELD** solution
- a hierarchy of carrier, divisions and terminals is configured – at least one carrier and division must be setup and a driver/user assigned to that division
- the Android mobile device operating **Coretex DRIVE** must be configured for use of the same division in order to be able to select from vehicles in that division



Full details of ELD administration for supervisors/administrators via **Coretex 360** can be found in:

- Coretex 360: ELD Administration Guide

Overview of Coretex DRIVE



Coretex DRIVE is primarily a purpose-built, mobile device (tablet/mobile smartphone)-based in-cab system that links drivers to vehicles, and vehicles to dispatchers. Working in harmony with **Coretex 360**, **Coretex DRIVE** gives drivers the information they need to do their jobs efficiently and safely.



Built around a familiar modular app framework, **Coretex DRIVE** offers single pane of glass access to turn-by-turn trucking navigation, messaging, jobs, vehicle inspections (DVIR), checklists, fatigue information, the **Coretex ELD solution**, real time driver feedback as well as your choice of custom applications.

Coretex DRIVE makes it easy to roll out Android-based mobile apps to drivers quickly and securely; and is optimized to run on Coretex-approved mobile devices.

With **Coretex DRIVE** the user interface is the mobile device used by the driver of the vehicle and functionality is integrated into a backend **Coretex** system (e.g. **Coretex 360**).

Coretex DRIVE features:

- integrates all your apps in one place on one screen in an easy-to-use format for drivers – the driver sees important information on a single screen and is alerted with notifications' called **Information Cards**
- links any third party applications, such as email or *Google Maps*
- features single sign-on for integrated applications
- displays driver messages, directed job workflows, driver initiated forms, *Electronic Logging Devices* (ELD functionality), *Driver Vehicle Inspection Reports (DVIR)* and much more
- device home button can take you back to the dashboard - this can be configured to happen just while working

Example with driver friendly single dashboard view on an in-cab Android tablet (shown together with telematics unit):



Not only a mobile app

Coretex DRIVE (or “DRIVE”) is also:

- a cloud of online services, the so called *microservices* and comes with complete API access and a portal is available for administrators to configure functionality and view the data
- providing access to a **Coretex installation application** for installers to use to pair and configure a vehicle to it's TMU

Mobile device hardware

Coretex DRIVE is installed onto an Android mobile device with the intended use being for drivers to manage their delivery schedules (from within their vehicles during their trips).

This example is with an Android tablet, but mobile smartphones that meet the minimum requirements are also supported.



Some common access keys:

| | |
|---|--|
| Home key <ul style="list-style-type: none"> takes you to the Coretex DRIVE dashboard wakes up the mobile device | Back key <ul style="list-style-type: none"> takes you to the previous window removes keyboards from the screen closes dialog boxes |
|---|--|



Refer to the mobile device manufacturer's documentation for detailed information about the device you are using



It is recommended you keep your mobile device connected to the in-cab charger to ensure it does not run out of battery power during the trip.

Mobile device minimum system requirements

Tablet and mobile smartphone devices for running **Coretex DRIVE** need to comply with the minimum hardware and operating system specifications needed to support the operation of the system. From 2019 Coretex will support customers' BYOD ("bring your own device") which will greatly broaden the make/model base of devices employed with **Coretex DRIVE**.

For compliance with using **Coretex DRIVE**, all devices should meet the following minimum requirements:

| | |
|---|---|
| <ul style="list-style-type: none"> Google Android operating system, version: level 22, version 5.0 (Android official version or a customised Android build that has been assessed by Coretex) | <ul style="list-style-type: none"> Wi-Fi and 3G (or higher) available |
| <ul style="list-style-type: none"> CPU: Quad-core 1.3 GHz or similar | <ul style="list-style-type: none"> RAM: 1 GB |
| <ul style="list-style-type: none"> Screen: 5" HDPI (720 x 1280) or 7" MDPI (600 x 1024) | <ul style="list-style-type: none"> Internal storage: 8 GB |

Mobile device procedures

Typical workflow will be:

- powering your mobile device on/off
- starting and *Sign In* to **Coretex DRIVE**
- setting your driver duty status
- setting your vehicle/trailers for the trip
- performing any DVIR tasks (if configured)
- entering any Shipment numbers
- *Sign Out* of **Coretex DRIVE**
- understanding safety lockdown and co-driver features

Starting your trip with Sign In

At the start of every trip you need to ensure the mobile device is up and running, **Coretex DRIVE** is started, and that you sign in to the application.

Power On

To turn the mobile device on:

- press and hold the **Power** button
- the mobile device will vibrate briefly when power up starts



Dependent on your actual mobile device. Some models may behave slightly differently.

Sign In



- normal *Sign In* procedure described here (variations include skipping selection of a vehicle, deferring DVIR inspections etc.)
- your administrator will allocate you a PIN to sign in with, and, if applicable, a *Sign In* password

➤ At the start of every trip, after powering the mobile device on you will need to:

1 Start up Coretex DRIVE

Start the **Coretex DRIVE** app on your mobile device by clicking the **Dashboard** tile/icon (installed and available from your installed apps).



Dashboard

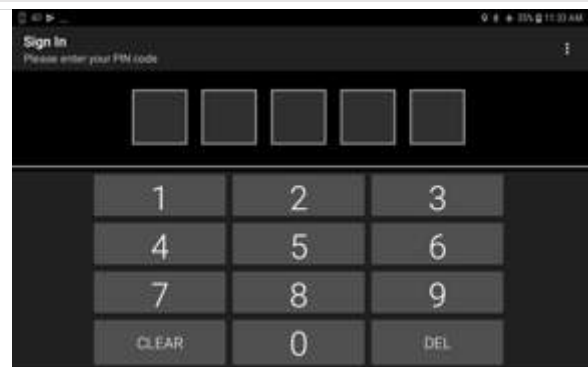
PIN entry

2 The Coretex DRIVE Sign In – PIN screen will be displayed

- enter your PIN number (4 to 8 digits)
- this will sign you in to **Coretex DRIVE** and the **Coretex DVIR** app



For sites configured for keypad access this PIN corresponds to your **Driver ID** code on your driver entry in **Coretex 360**.



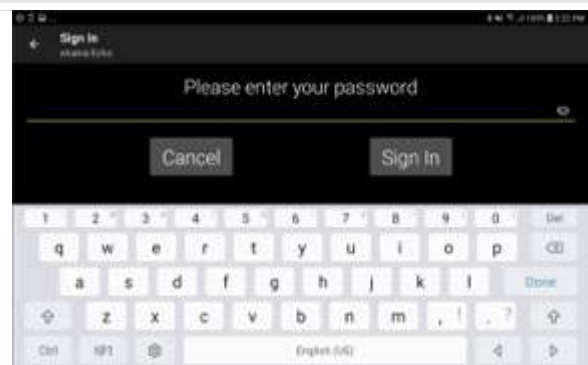
Password entry

3 For sites configured for password access, the Sign In – Password screen appears:

- enter your **Sign In** password

If you have been allocated an initial password, you will be prompted to change it after first time use.

If you have not been allocated a password, click **Sign In** to proceed (i.e. access without a password allowed)

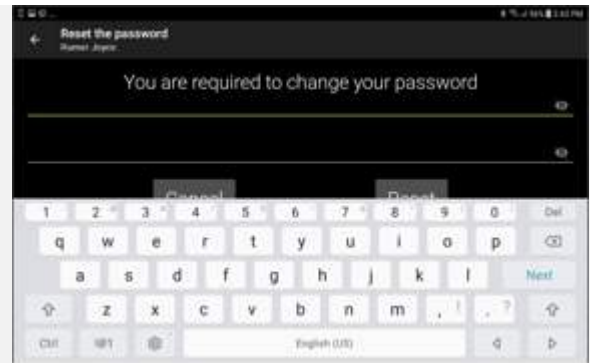



Your Sign In – Password can be changed by:

- your administrator in **Coretex 360**
- yourself via this screen, or via the **DRIVER PORTAL** in **Coretex 360**

3a If your password has been reset by someone other than yourself, you are allowed a one time use of it. Then you are prompted to enter a new password of your choosing.

- enter a new password
- confirm the password on the line below
- tap **Reset**



 You cannot manually change your password within **Coretex DRIVE**, other than this automatic facility. If you wish to explicitly change it please request your supervisor/administrator to do so via **Coretex 360**.


Your new password will be synchronised with **Coretex DRIVE** and **Coretex 360**.

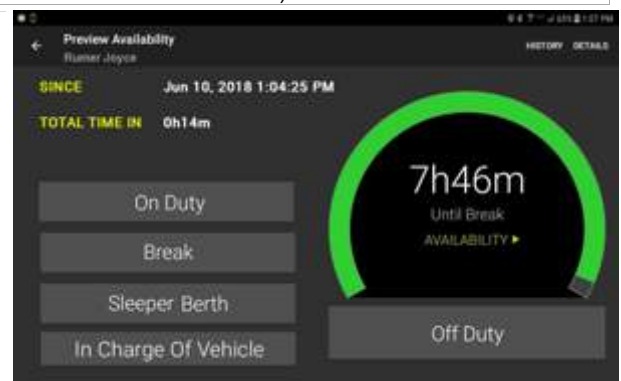
This allows you to use it for:

- signing in to **Coretex DRIVE** on your mobile device/s
- signing in to the **DRIVER PORTAL** in **Coretex 360** (first time use here is triggered also and will prompt you to change your password in **Coretex 360**)

4 select a status from *Preview Availability* screen by tapping a status bar (e.g. **On Duty**)

The purpose of this it to assess your current status with respect to available *driving time* to see if you have enough time left to embark on your trip! If not, perhaps your co-driver can do most of the driving today.

 For details refer to section *Preview Availability* section under *Rules and Availability*.

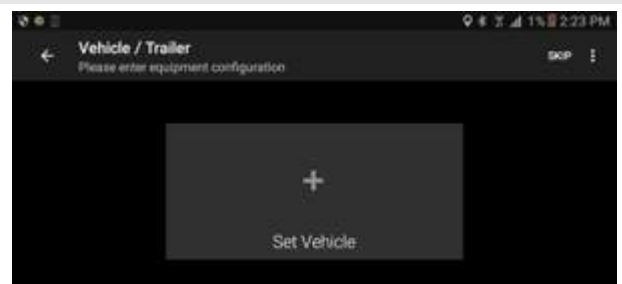


Selecting a Vehicle

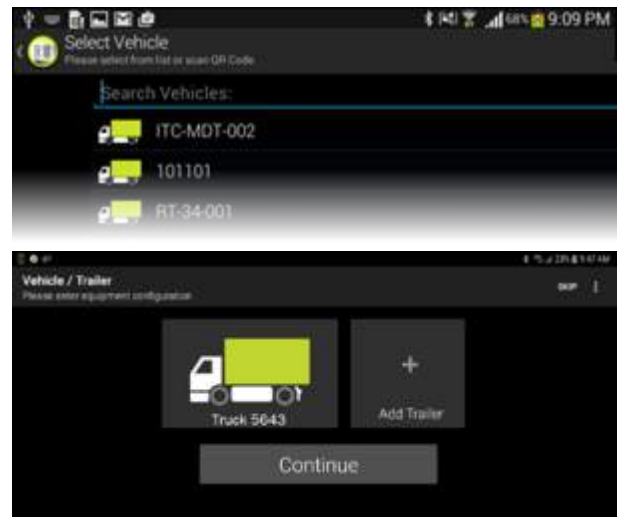
5 If no vehicle is already selected, you are prompted to specify one:

- tap the **Set Vehicle** tile to select your vehicle for the trip

- if you have no assigned vehicle as yet, tap **SKIP** on the toolbar (and you can select it later)
- some sites have a mobile device tied to a vehicle by policy, hence the vehicle will be pre-selected – in this situation tap **Continue**



- type in characters from the vehicle ID or Vehicle Name in the **Search Vehicles** filter textbox to present a filtered list of vehicles to choose from (to speed up finding the vehicle you want)
- tap a vehicle from the list to select it and it appears as a tile on the **Select Vehicle** screen



Selecting Trailer/s

6

- (optionally) add one or more trailers by tapping **Add Trailer** (another type of vehicle)
- search and select from a list of vehicles/trailers – they appear as tiles on the **Select Vehicle** screen
- tap **Continue** or **Save** to use the selected vehicle/trailer combination



Set by policy will be the maximum number of trailers you can attach (e.g. 3 in North America).



Deselect a trailer simply by tapping on its tile.

Selecting a trailer already assigned

If the selected trailer is already assigned to another vehicle, you can return to select another trailer; or you can take over the assignment of your selected trailer.

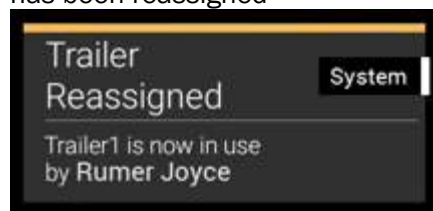
When an assigned trailer is selected, a prompt appears inviting you to change or confirm:

- tap **Change Trailer** to return
- tap **Confirm Trailer** to take over the trailer

Taking over a trailer

If you confirm then the prior assignment of this trailer needs to be disconnected by:

- having an automatic notification sent to the prior driver and alerting them that the trailer has been reassigned



- presenting a message informing them who has taken it and inviting them to select another trailer

7 Driver Vehicle Inspection Reports (DVIR)



If you are configured for automatically instigating *Pre-trip* DVIR inspections this will activate at this point (for the currently selected vehicle and for each trailer attached).



Summary of steps below, but for full details of using DVIR refer to separate *Coretex DVIR: User Guide*.



You can defer performing the DVIR inspection/s by tapping **LATER**. The required inspections will appear as **Information Cards**.

- attend to any **Coretex DVIR Information Cards** on your dashboard
- tap on each inspection in turn to process



Any previous inspections left in an **unsatisfactory** state must be dealt with before proceeding with today's inspection/s – they are displayed when you tap on the first inspection card.

➤ *Tap each inspection card in turn:*

- perform your vehicle inspection by checking each inspection item and process the checks and defects with tapping on response options
- upon completion of all inspections, tap the **COMPLETE INSPECTION** menu bar link
- a certification screen appears inviting you to determine if the overall inspection is

satisfactory

or

unsatisfactory

7 Shipments (or Manifest)

Shipments are a specific consignment of goods associated with an asset (e.g. the contents of the trailer).



Some sites are configured to call these **Manifest** throughout **Coretex DRIVE**.

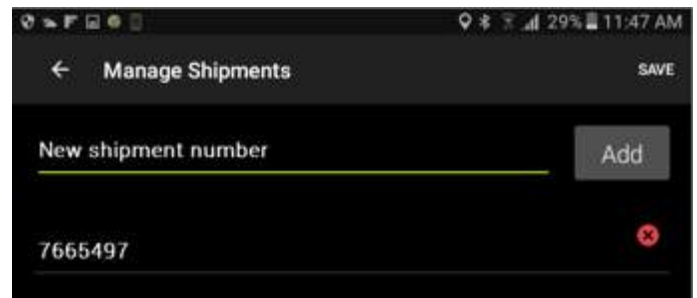
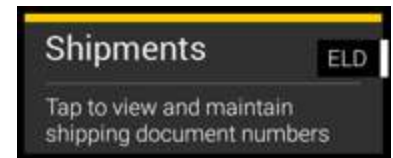
*They are assigned a **Shipment number** and this number should be:*

- entered as a **Shipment number** whenever the shipment is being carried by the asset
 - removed as a **Shipment number** whenever the shipment is removed from the asset
- you may be configured (by account/carrier/division) to have a **Shipment number** automatically determined and assigned to your vehicle by default
 - you may be configured to receive notifications to enter **Shipment numbers**, and these will appear as an **Information Card** on your dashboard

- tap on any *Shipments* cards on your dashboard

Optionally, one or more **Shipment numbers** may be entered:

- enter **Shipment number**
- tap **Add**
- tap **Save** to save changes and return to the dashboard



- you can defer entry of Shipment numbers until later in the day, but note that at least one Shipment number should be entered per trip
- in addition to access from tapping a Shipments **Information Card** you can explicitly access shipments from your **ELD MENU**

Add Shipment number/s (or Manifest numbers)

In addition to access from tapping a Shipments Information Card you can explicitly access shipments from the **ELD MENU**.

To add shipment number/s:

- in normal operation, simply tab the **Home** key to return to the dashboard
- tap **MENU** to present the **ELD MENU**
- tap **Shipments** to present your *Shipment numbers* entry screen (as above)

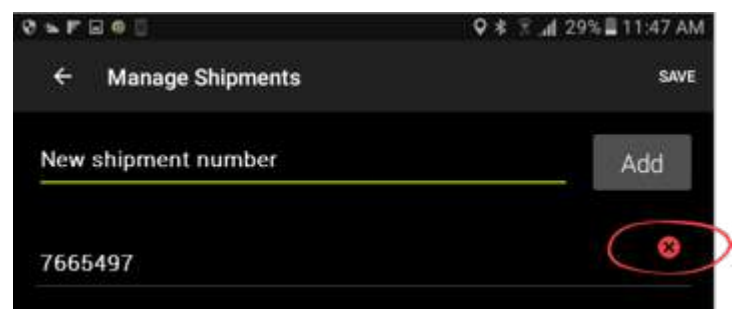


Remove Shipment number/s

You should remove selected Shipment number/s when they are no longer valid as being associated with the vehicle, e.g. you change trailer, or sign out at the end of a trip.

To remove shipment number/s:

- in normal operation, simply tab the Home key to return to the dashboard
- tap **MENU** to present the **ELD MENU**
- tap **Shipments** to present your Shipment numbers entry screen (as above)



- tap **X** to the right of the shipment number to be removed
- tap **Save** to save deletion changes



When you Sign Out, all Shipment numbers are automatically removed.

Sign Out at the end of your trip

At the end of every trip you need to ensure that you sign out of **Coretex DRIVE**, and (optionally) that you power down the mobile device.

Sign Out



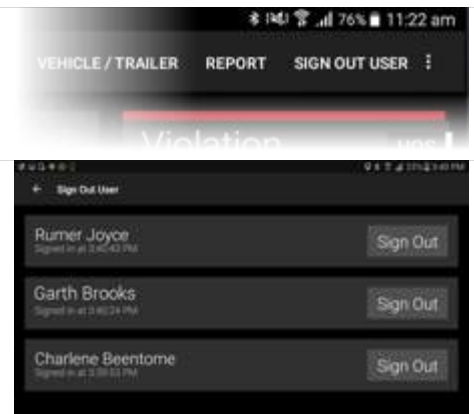
There are two links to sign out of **Coretex DRIVE** from:

- the **SIGN OUT USER** option from the **Dashboard menu** – here you can sign out any currently signed in users
- the **SIGN OUT** link at the bottom of the **CHANGE STATUS menu** – here you can only sign yourself out!

➤ At the end of every trip, the current driver and signed-in co-drivers will need to sign out:

1 Dashboard menu

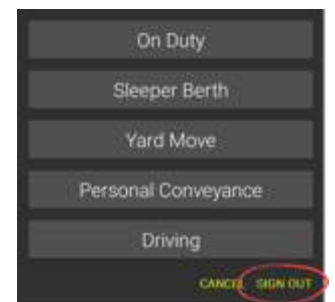
- in normal operation, simply tap the **Home** key to return to the dashboard
- tap the **action** link (top right of dashboard) called **SIGN OUT USER** - this presents a list of all currently signed in users
- tap **Sign Out** against the user you wish to have signed out (either yourself or one of the co-drivers)



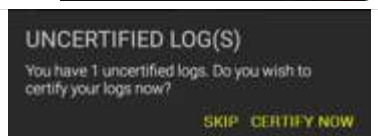
~ or ~

CHANGE STATUS menu

- tap **SIGN OUT** below the **CHANGE STATUS** menu to directly sign yourself out



- 2
- if you have any uncertified logs (for days prior to today) you will be prompted to review and certify them



- 3
- signing out will force a change of your duty status to a status of **Off Duty** – confirm that that is your intention



- 4
- Depending on your current status and if you are configured for **Coretex DVIR Post-trip** inspections, the first post-trip inspection will activate:

- perform each inspection in the same manner as for *Pre-trip* inspections detailed earlier
- this will be done for the vehicle (and all attached trailers) before deselecting the vehicle and any trailers



Your status is changed to **OFF DUTY**

- 5
- You are returned to the **Coretex DRIVE Sign In** screen.

Power Off

- To power down your mobile device:
 - follow the *Sign Out* procedure to sign out of **Coretex DRIVE**
 - press and hold the **Power** button
 - tap **Power Off** from the *Options* dialog that appears
 - tap **OK** from the confirmation dialog to confirm power off
 - the mobile device will power off and shut down

Safety Lockdown

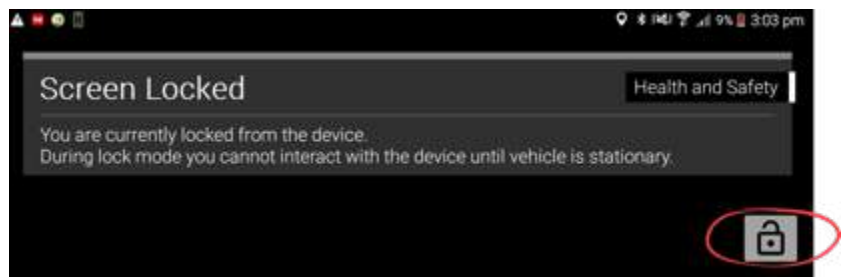
The **Coretex DRIVE** application on your mobile device is designed to operate when the vehicle is stationary. This is for safety concerns to help ensure the driver is just driving!



A tablet is a mobile device and, as with a mobile phone, should **not be used** by the driver in charge of the vehicle while driving.

If you have been using **Coretex DRIVE** and you start to drive the vehicle:

- an automatic sensor on the mobile device will detect this and present a lockdown screen
- when the vehicle stops, the application returns to the previous screen that was active



A motion sensor is tied to the TMU in the vehicle (if connected to a TMU) and any vehicle motion will trigger it. If not connected to a TMU, motion is determined from the mobile device motion and GPS readings.

Co-driver usage

Any co-drivers that are signed in to **Coretex DRIVE** are allowed to use the application whilst the vehicle is in motion (because they are not in charge of driving the vehicle).

When the driver is about to start driving they can hand the mobile device over to a co-driver and if the vehicle is moving the lockdown screen will be active. The co-driver can tap on the padlock icon and enter their PIN ID to unlock the screen.



A co-driver can use the application with the following restrictions:

- a driver duty status can not be changed, and the dashboard will display a **VEHICLE IN MOTION** status



Looking at the dashboard

In this section:

- examining the **Coretex DRIVE** dashboard
- available driver duty statuses
- changing your driver duty status
- changing the current driver in charge
- Information Cards
- card types

Sample Coretex DRIVE dashboard screen (on an Android tablet):




Main features

| Dashboard option | Description |
|--------------------------------|---|
| Dashboard tiles | Co-driver and app tiles to tap on appear on left hand side. |
| Vehicle | Currently signed in vehicle. |
| Driver | Current driver in charge of the vehicle. |
| Burndown gauge | Burndown gauge of driving time left for the driver before a break is due. |
| ELD MENU | Access to current driver's logs, adding of remarks and shipping numbers. |
| Dashboard menu bar | Tap menu bar links to change vehicle. |
| Dashboard menu | Dropdown menu of system menu options (including Sign Out User). |
| Co-driver/s | Currently signed in co-driver's listed as tiles. |
| Add to Dashboard apps | Commonly used other apps can be added to dashboard and appear as tiles here on dashboard and spilling over to popup screen. |
| Access to Apps | Tap on this tile to manage other Coretex and Android apps on popup screen. |
| CHANGE STATUS menu | Tap on this bar to change driver's duty status, and signing yourself out. |
| Access to Rules & Availability | View and set rulesets and availability. |
| Information Cards | Scrollable list on the right of incoming ELD alert notifications, called Information Cards . |
| Card type | Every Information Card is defined under a Card type |

Driver duty status

There are four standard driver or duty status options in **Coretex DRIVE** for drivers to select from. These are applicable for the current driver in charge and for any signed in co-drivers:

| | | | | | | | |
|----|---------|----|---------------|-----|----------|---|---------|
| ON | On Duty | SB | Sleeper Berth | OFF | Off Duty | D | Driving |
|----|---------|----|---------------|-----|----------|---|---------|

 What actually is available for driver duty statuses is dependent on the ruleset applicable. For example, some rulesets define a **Break** status. This is used to indicate a temporary break during the day rather than signing off as **Off Duty** at the end of the day. Other rulesets may allow drivers simply to select **Off-Duty** for breaks and stops.

Additional driver duty statuses


There are two additional driver or duty status options.

These become available only if:


- one driver is signed in to **Coretex DRIVE**
- you, as a driver, are configured by your supervisor/administrator to make use of them

| | | | |
|----|-----------|----|---------------------|
| YM | Yard Move | PC | Personal Conveyance |
|----|-----------|----|---------------------|

When you change status to **YM** (Yard Move) or **PC** (Personal Conveyance) you are prompted to enter an annotation or comment about it. It is mandatory for **PC** and optional for **YM**.

 Refer to the section *Remarks: Adding a remark or annotation* for details.

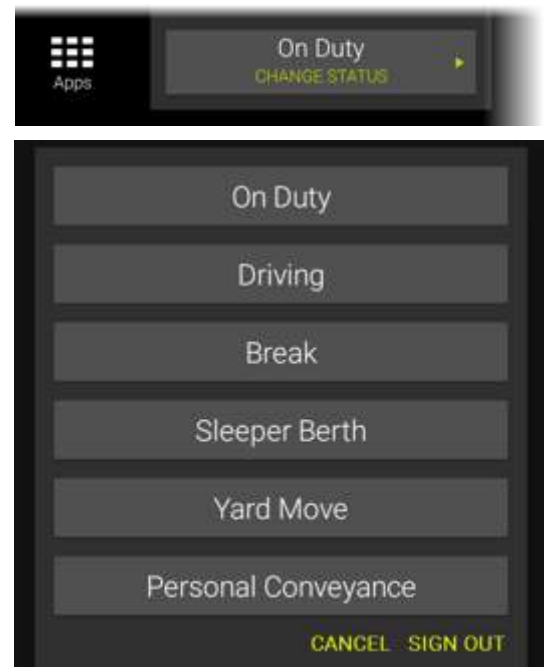
Changing your driver duty status

 What options that are presented on the **CHANGE STATUS** menu varies and is dependent on:

- what you are configured to have by your **Coretex DRIVE** administrator
- whether you are the driver in charge of the vehicle, or a co-driver
- what driver duty status you are currently at

- tap on your **CHANGE STATUS** bar on the dashboard to see the status selection screen:

The options that appear depend on whether you are the first or subsequent drivers to sign on, but will include applicable duty status selection bars.



Forced duty status changes

You change your duty status through the day as you drive, take a break and go off duty at the end of the day.

In some situations, there are forced status changes that occur automatically, and will show in your driver logs with an **Auto** origin.

For example:

1. You are driving the vehicle with duty status: **Driving** and you stop the vehicle for 5 minutes (as detected by vehicle motion from the TMU). A banner **Information Card** will appear to ask you if you wish to remain in **Driving** status. Tap the card to dismiss and continue in **Driving** status. If you do not respond for one minute, then you are automatically changed to a duty status of **On-Duty**.
2. You are in On-Duty or a non-working duty status and the vehicle starts in motion. Coretex DRIVE will detect this and change the duty status to **Driving**.

Driver in charge

Multiple drivers may be signed-in to **Coretex DRIVE** during a trip, but only one may be designated as the driver in charge at any one time.

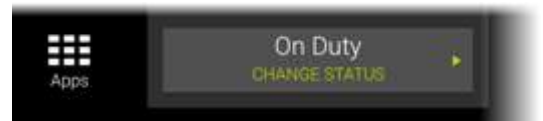
Only the driver in charge can change their driver duty status to *Driving*.

When you sign in as the first driver, you are the designated driver in charge of the vehicle (by default) and you choose your initial driver duty status.



The steering wheel icon indicates you are the designated driver in charge.

Co-drivers may then sign in also and select their driver duty status in the same way.



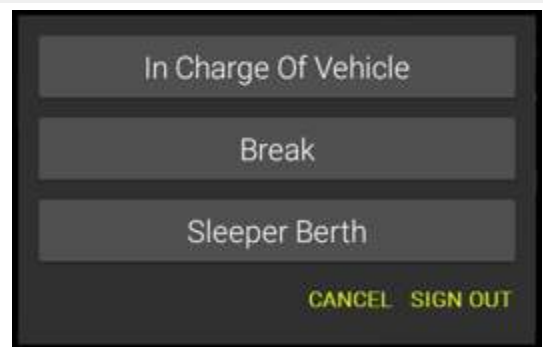
Taking over as driver in charge

Co-drivers can change their driver duty status and have an additional option available to select from:

In Charge of Vehicle

Taking charge of the vehicle is a prerequisite if you are about to start driving (as the status *Driving* is only available if you are in charge).

- tap **In Charge of Vehicle** if you are taking over as the driver in charge



Your driving duty status is automatically changed to **On-Duty** when you select **In Charge of Vehicle**.

Information Cards

Information Cards are to be displayed on the right of your dashboard.

This is a scrollable list of cards for drivers to tap in turn, and attend to.

- they will also pop up over any app that is on the screen
- tapping on an **Information Card** will take you to the appropriate app, or display more information, or remove the card

Sorting and priorities

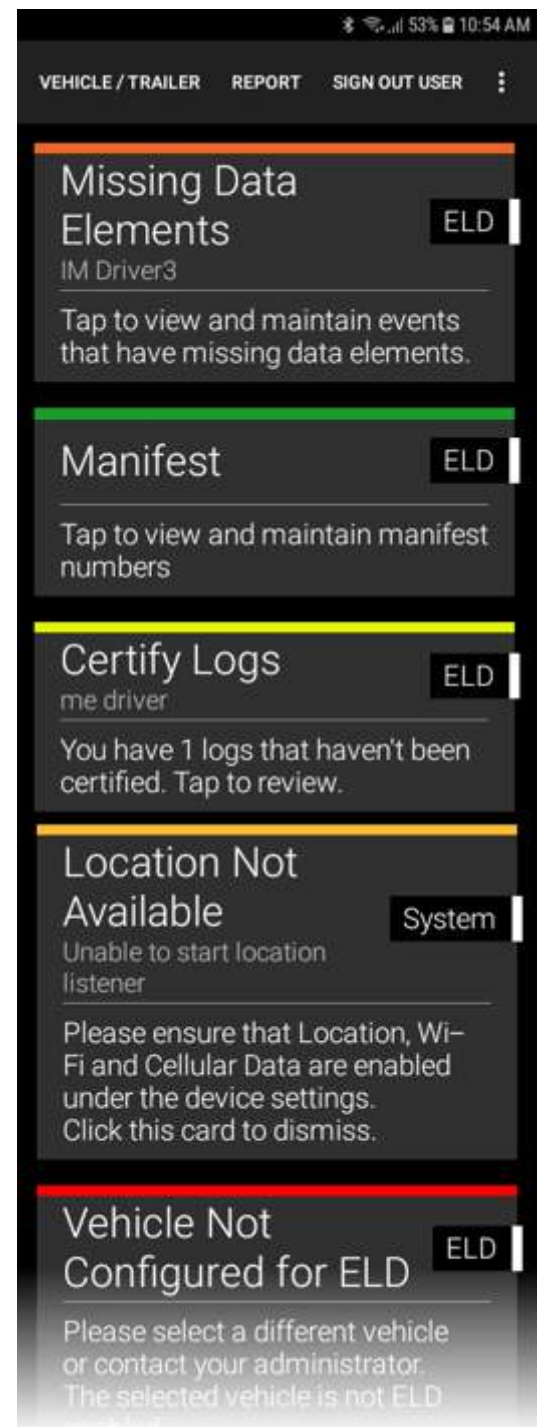
When **ELD Information Cards** are displayed they are inserted according to the following sort criteria:

- 1 Priority of the **ELD Information Cards** (refer to section below) – high priority cards appear uppermost
- 2 Date/time the card was issued – most recently generated cards appear uppermost

Information Card Types: ELD

ELD card types appear with the following bar colors and priorities:

| Card Type Description | Card Type | Priority | Card Type bar color |
|----------------------------|-----------|----------|---------------------|
| Malfunctions | ELD | HIGH | RED |
| Searching for ELD | ELD | HIGH | RED |
| Assign Vehicle | ELD | HIGH | RED |
| ECM Not Connected | ELD | HIGH | RED |
| ELD Exemption | ELD | HIGH | RED |
| Confirm Driving | ELD | HIGH | RED |
| Data Diagnostics | ELD | MEDIUM | ORANGE |
| Unidentified Driver | ELD | MEDIUM | ORANGE |
| Certify Logs | ELD | LOW | YELLOW |
| Proposed Edits | ELD | LOW | GREEN |
| Shipping/Manifest | ELD | LOW | GREEN |
| Personal Conveyance | ELD | LOW | GREEN |



Information Card Types: Other

All ELD Information Card types have an **ELD** tag shown in the **Information Card**, but there are many other types of cards that can appear on your dashboard, for general operation, DVIR and other purposes.

Some of the other card types that are important and relevant to operating **Coretex DRIVE** are:

- System errors (mostly relating to communication errors)
- Sign In cards

For example:

If you tap **SKIP** when selecting a vehicle, during the *Sign In* process, then you are immediately notified via a *Vehicle/Trailer Sign In* Information Card.



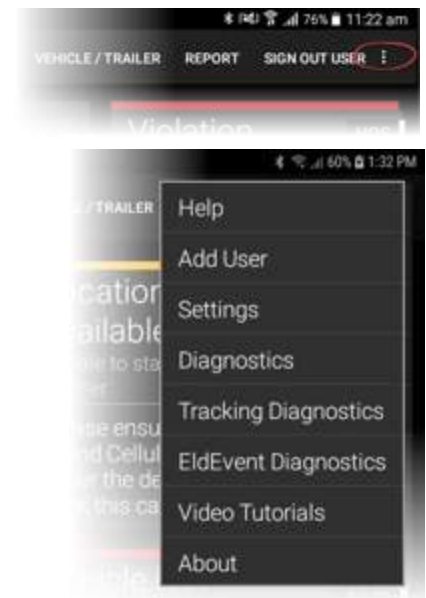
Dashboard menu (off main dashboard)

Coretex DRIVE provides a number of options from a **Dashboard menu**. This can be activated by tapping the vertical ellipsis icon in the top right of the main dashboard or **Home** screen.

They are mainly options to examine diagnostics and useful in investigation of connection and other problems.



- details of use of the **Dashboard menu** is provided in *Appendix:B – Coretex DRIVE Dashboard menu*
- a different menu is presented when accessed from the *Driver Logs* screen (details in above appendix)



Changing your vehicle/trailer for the trip

If you did not set your registered vehicle (and/or trailer/s) during *Sign In*, or if you wish to change your registered vehicle (and/or trailer/s) for the imminent trip then you can by:

- tapping the **VEHICLE / TRAILER** menu bar link at the top of the dashboard screen
- tap on the existing registered vehicle to deselect that and proceed to select another vehicle
- if you are configured for DVIR you may be prompted for Post-trip and Pre-trip inspections for each asset you deselect and select



Refer to *Sign In* section for details of vehicle/trailer section.

Driver Logs

In this section:

- | | |
|--|--|
| <p>Viewing your driver logs from the dashboard:</p> <ul style="list-style-type: none"> ○ examining the logs in list and graph formats ○ driver log edits ○ adding a new status entry to your log ○ adding remarks and shipment numbers | <ul style="list-style-type: none"> • supervisor proposed edits sent to your logs • dealing with unidentified driving records • certifying your driver logs • data diagnostic and malfunction events • roadside inspection procedures • co-driver functions |
|--|--|

Your driver logs are a list of events from your driving activity and are available from the *Driver Logs* screen.

Driver Log View

This displays log information for a single day from midnight to midnight (in 24-hour format) as:

- a graph of driver duty status through the day showing the total time the driver was in each status (e.g. *On Duty*, *Sleeper Berth*)
- view a list of all driver events for the day

Access from ELD MENU

At any time, you can access your driver logs from your **ELD MENU**.

To access your *Driver logs*:

- in normal operation, simply tap the **Home** key to return to the dashboard
- tap **MENU** to present the **ELD MENU**
- tap **View Logs** to present your *Driver Log View* screen



Your driver logs can also be accessed from the DRIVER PORTAL in Coretex 360. For details refer to *Appendix:C – ELD DRIVER PORTAL in Coretex 360*.

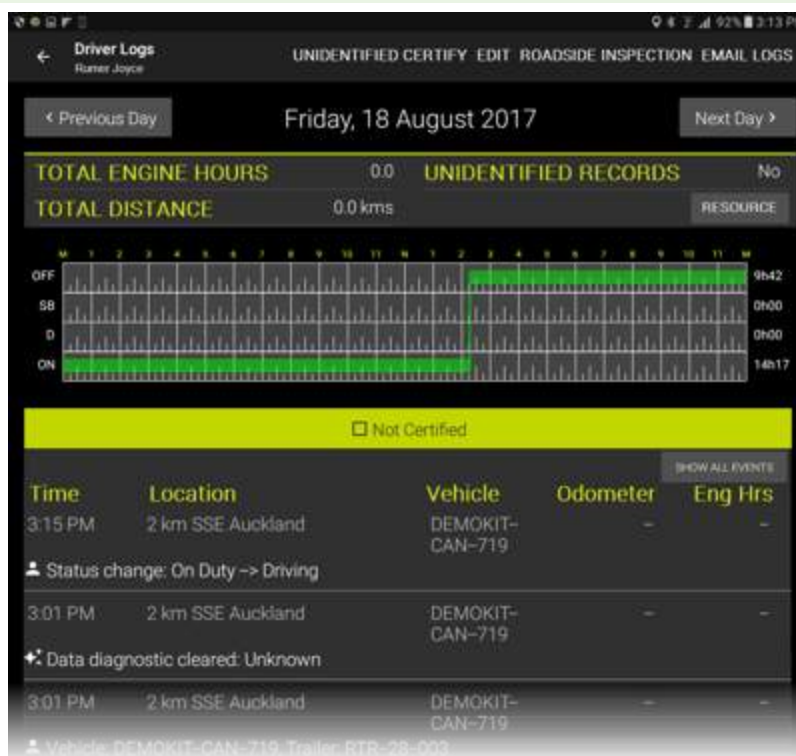
Driver Logs screen

From the *Driver Log View* screen, you can:

- view a day's logs as a duty status graph and as a list
- view your driver logs for today and any of the previous seven days
- view resources used on this trip
- toggle **SHOW ALL EVENTS** button to show all events, or filter and only show status events (i.e. entries with an **Event Type** of *On Duty* or *Off Duty*)

Driver Log Menu bar links:

- access your *Unidentified Driving Records* screen
- certify your logs
- access the *Driver Log Edit* screen
- access the *Roadside Inspection* screen



For details of the menu bar links refer to *Driver Logs menu bar links*.

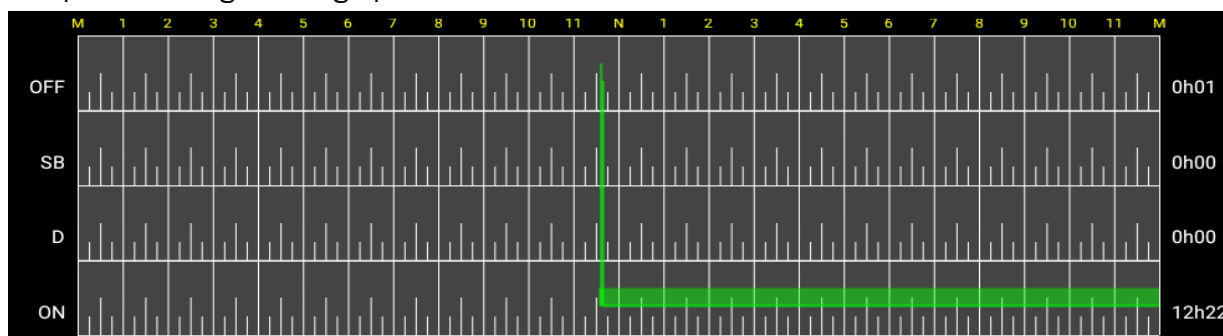
Driver Log graph

Each day's log of entries is presented in a graph with:

- x-axis showing the 24 hours of the current day
- y-axis is split into four segments, one for each of the standard driver duty statuses

The line in green shows the amount of time the current driver has spent time on that status. To the right of each segment is a total time (hh:mm) spent in that status.

Sample Driver Log screen graph:



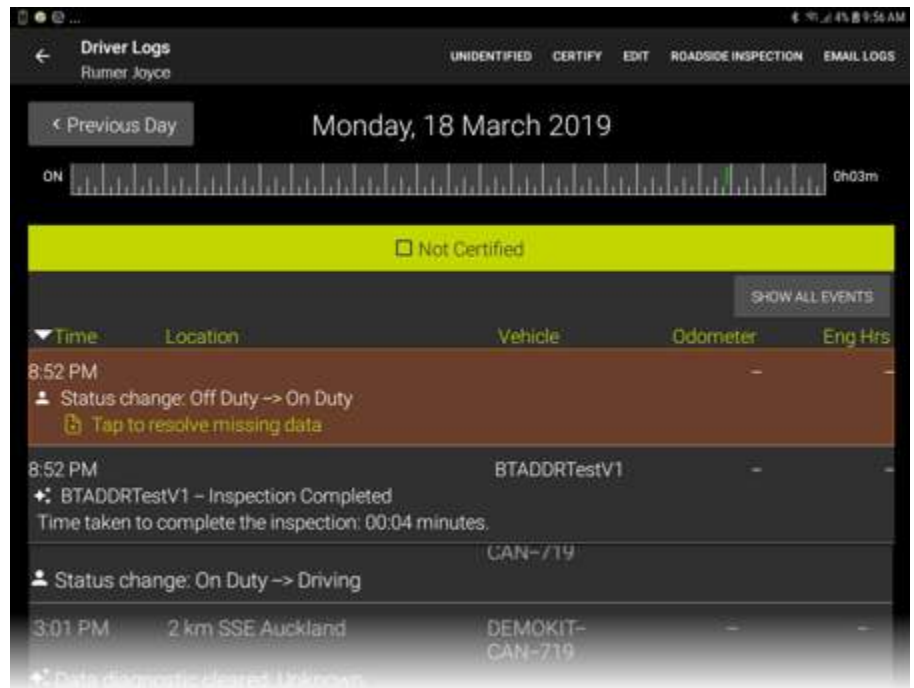
Additional status displays

- if a driver has spent time in **YM** (Yard Move) status, this is displayed in yellow in the **ON** (On Duty) segment
- if a driver has spent time in **PC** (Personal Conveyance) status, this is displayed in yellow in the **OFF** (Off Duty) segment

Driver Log list data

The list of driver log records has a header clearly stating if the days' logs have been certified or not yet.

Entries in red/brown indicate mandatory data cannot be verified at time of loading (e.g. Location)



The Driver Logs list presents the following fields of data:

| Field | Description |
|--------------|--|
| Time | Local time the event occurred |
| Location | Most recently recorded location when the event occurred |
| Vehicle | Vehicle ID of vehicle that recorded the event |
| Odometer | Odometer reading at the time of the event (if available) |
| Engine Hours | Engine Hours reading at the time of the event (if available) |

| Event/Status Origin | Event icon and the Drivers duty status |
|---------------------|--|
| | The origin of the event is shown with an icon: |
| | Driver |
| | Auto generated |
| | Auth.User (submitted by an administrator, supervisor or authorized user) |
| | Assumed (origin is unidentified) |

Remarks: Adding a remark or annotation


You can add a remark or comment into your driver log whenever you feel like an explanation is needed during your working day.

To add a remark:

- in normal operation, simply tap the **Home** key to return to the dashboard
- tap **MENU** to present the **ELD MENU**
- tap **Remarks** to present your *Annotation Comment* entry screen – refer to example of use in the *Sign In* section for details
- add a remark (annotation/comment) of between 4-60 characters

The entry will appear in your driver log list for current day.




 Sometimes an annotation is mandatory (e.g. changing status to **Personal Conveyance**), sometimes it is optional (e.g. changing status to **Yard Move**)

Shipments: Adding shipment number/s

Shipment numbers are usually entered during the *Sign In* procedures but you can enter them later on during the working day.

You may be configured to have a shipment number automatically assigned, but if not and if you have your shipment number/s to hand, tap the Shipments **Information Card** to access the *Shipment number* entry screen.

 For details of shipments refer to example in the *Sign In > Shipments* section.

Driver Log Edits

You can make changes to your driver log entries (e.g. where you wish to make a comment, or change your status for a period of time) via the *Driver Log Edit* screen.

Drivers Logs menu bar links:

UNIDENTIFIED – access unidentified driving records for the current vehicle.

EDIT – edit the driver logs.

CERTIFY – certify any previous days logs for the current vehicle.

ROADSIDE INSPECTION – provide access to the driver logs for an FMCSA agent.

EMAIL LOGS – have your daily logs sent directly from your mobile device to your email *InBox* for further review.

RESOURCE

RESOURCE – examine a trail of Vehicles, Trailers, Shipments and Co-Drivers that have used the mobile device on the currently selected day.


From your *Driver Logs* screen:

- tap **EDIT** to present your *Driver Log Edit* Listing screen




This is a list of the current day's driver log entries with:

- an **Edit** button to the right to allow a Driver Log record to be edited
- an **ADD STATUS** link to allow a new status event entry to be generated by the driver

 Adding a new log entry for a change in driver status is the only ELD event you can create.



Editing a log entry

 In normal circumstances driver log entry fields will only be editable for the **Annotation** field. All other fields will be pre-filled from information from the TMU

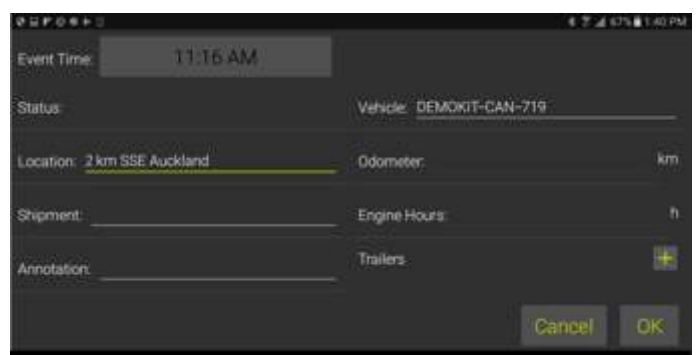
To edit one of your log entries:

- tap the **Edit** button to the right of the log entry to present a *Driver Log Edit* screen




To edit one of your log entries:

- tap **EDIT** to present your *Driver Log Record Edit* screen
- update the status, odometer or other relevant fields (if they are enabled)
- enter a note or annotation describing why it was edited
- tap **OK** to update the entry



Adding a status log entry

If your logs for a particular day are missing one or more entries (to cover a specific time period) then you can add these events from your *Driver Logs Edit* screen. You may need to do this for a different vehicle than for the one you are driving today.

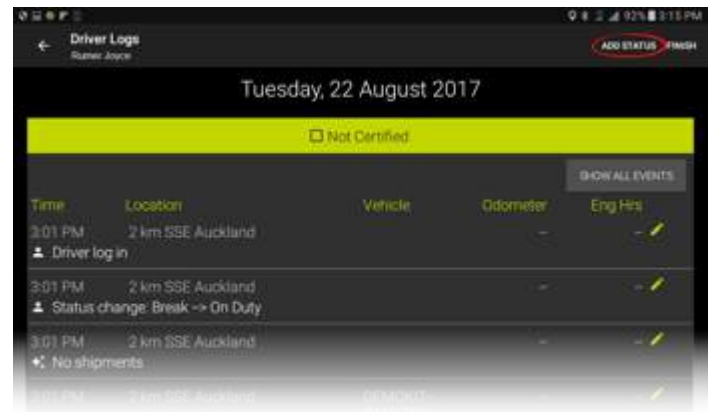
 Adding a new log entry for a change in driver status is the only ELD event you can create.


From your *Driver Logs Edit Listing* screen:

- tap **ADD STATUS**

You need to specify the start of the period of time when the driving event occurred.


You are prompted with a time selection control that defaults to show the current time.



 Any time in the day that is already lodged against driving time (i.e. time when driver in charge was in duty status *Driving*) will be disabled on the entry field. All fields that are greyed out are ones that can not be edited.

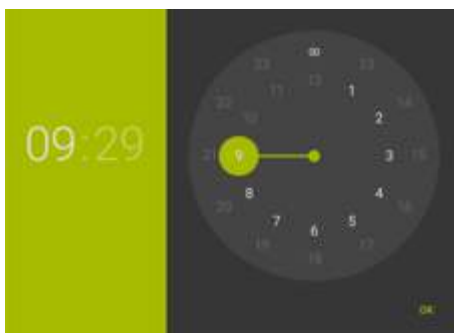
Setting the start time of the event

You need to specify the start time of the event when you changed your driver duty status. A clock control is used as a quick way to easily select the **HH:MM** of the start of the event. It defaults to today's current time and date.

 In most cases you will be wanting to add a log entry for a *previous* days trip – hence, ensure you have set the correct date on the *Driver Log View* screen before drilling down to add a new status log entry.

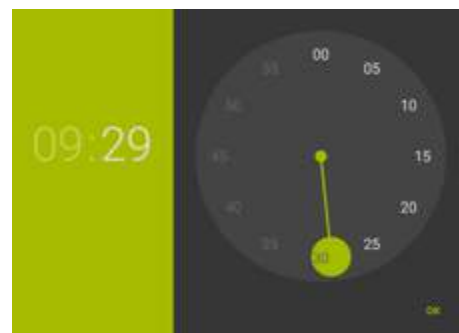
Setting the hour of the day

- drag the hours clock hand to select the hour of the start of the event, or tap on a minute setting
- tap **OK** or anywhere on control to proceed to minutes



Setting the minutes of the day

- drag the minutes' clock hand to select the minutes of the start of the event
- tap **OK** to proceed to **ADD STATUS** screen



You are presented with the **ADD STATUS** screen:

- tap **Copy Previous** or **Copy Next** to copy fields from the previous or next log entry, and edit as appropriate

The screenshot shows the 'ADD STATUS' screen in the Coretex DRIVE app. At the top, there's a status bar with signal, battery, and time (2:13 PM). Below it, the 'Event Time' is set to '12:08 AM'. To the right are 'Copy Previous' and 'Copy Next' buttons. The main form has several rows: 'Status' with a dropdown menu showing 'On Duty'; 'Location' with a dropdown menu showing 'Driving'; 'Break' with a dropdown menu showing 'Break'; 'Shipments' with a dropdown menu showing 'Sleeper Berth'; 'Annotation' with a text input field; 'Odometer' with a text input field and a unit selector set to 'km'; 'Engine Hours' with a text input field and a unit selector set to 'h'; and 'Trailers' with a text input field and a '+' button to add more trailers. At the bottom right are 'Cancel' and 'OK' buttons.

or enter the following fields manually (if they are enabled):

- select the driver duty **Status** from a dropdown of available standard driver duty statuses
- the **Location** of the vehicle at the time of the event
- any relevant **Shipment** numbers
- an **Annotation** or comment about the event
- the **Vehicle** ID of the vehicle whose event is being described
- the **Odometer** reading of the vehicle at the time of the event
- the Engine Hours reading of the vehicle at the time of the event
- a comment about one, two or three trailers that may have been attached to the vehicle at the time of the event
- tap **OK** to save the new status entry in your driver's log



Often you will be entering log entries for a different vehicle than the one you are using today. Hence all relevant fields need to be entered.

Reassigning automatically assigned driving time


A common situation is where a driver has one or more co-drivers and they are on a daily trip. After a break a co-driver swaps with the driver to drive the vehicle on the next leg. The driver should always register this in **Coretex DRIVE** to ensure the driving time is lodged against the right person (and before the vehicle sets off with a different driver in charge).

However, if they simply drive off then the driving time is automatically lodged against the first driver (signed in as the driver in charge) and not the co-driver (who is now actually driving the vehicle). This needs to be rectified at the next stop, by reassigning that portion of driving time from, say, **Driver:A** to **Driver:B**.

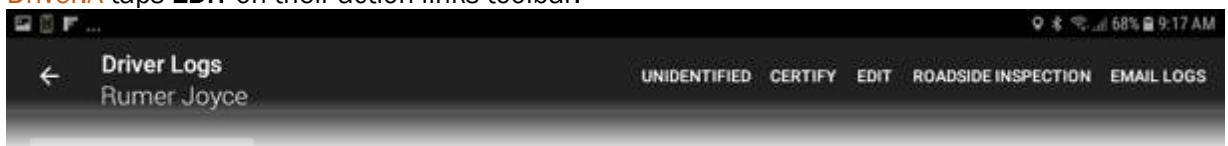
To reassign a portion of driving time from **Driver:A** to **Driver:B**:

- Driver:A** takes the mobile device to access their **Driver Logs**, and finds the entry that has a portion of the daily trip that needs reassigning to **Driver:B**

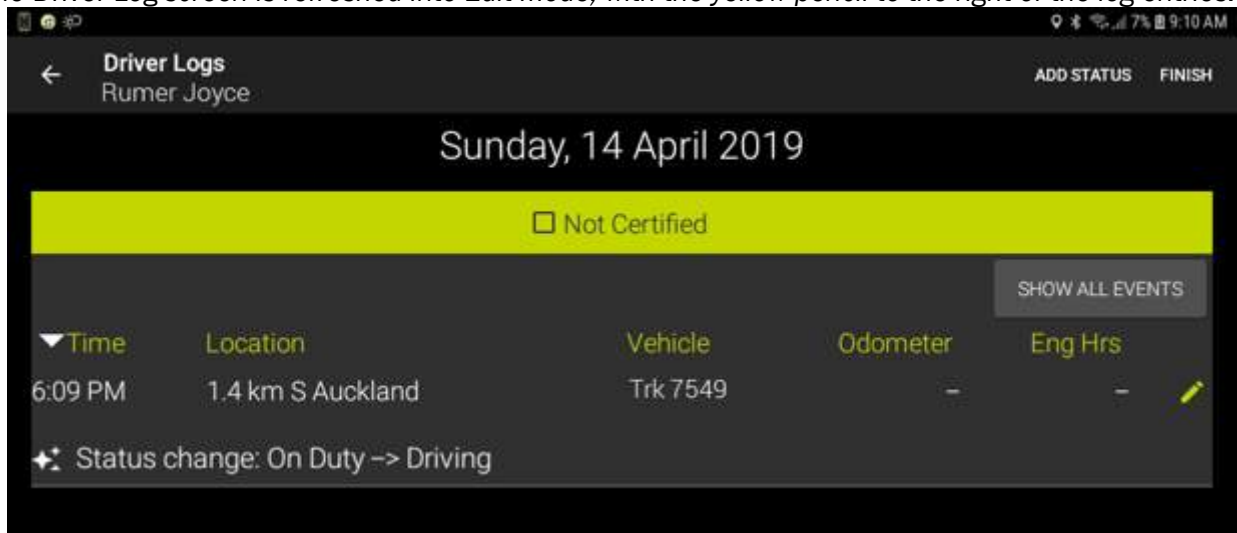


Such entries are always auto-generated  and indicate a status change of **On Duty** → **Driving**

- Driver:A** taps **EDIT** on their action links toolbar:



The Driver Log screen is refreshed into Edit mode, with the yellow pencil to the right of the log entries:



- **Driver:A** taps the yellow pencil on the log entry to edit the entry and the log edit screen appears with a **Reassign** button



Reassign only appears for log entries for automatically assigned driving time and when one or more co-drivers are signed in.

- **Driver:A** must enter an annotation, a short note as the purpose of the reassignment (e.g. *Wrong Driver!*)
- **Driver:A** taps **Reassign** to present a popup menu of all co-drivers currently signed in to the mobile device
- **Driver:A** taps the appropriate co-driver option
- **Driver:A** explains the situation to **Driver:B** and passes the mobile device over to **Driver:B**, for them to enter their *Sign In* PIN

In doing this **Driver:B** is authorising this reassignment of driving time from **Driver:A** to **Driver:B**.

The screenshot shows the 'Status change: On Duty -> Driving' screen for Thursday, 11 April 2019. The event time is 10:24 PM. The status is 'Driving'. The vehicle is 'GenX LTE 2579'. The location is '1.3 km S Auckland'. The odometer is '19217 km'. The shipment is empty. The engine hour is '10000 h'. The annotation is 'Wrong Driver!'. The 'Reassign' button is circled in red, along with 'Cancel' and 'OK' buttons.

The screenshot shows the same log edit screen as above, but with a popup menu displayed over the center. The popup menu lists two co-drivers: 'Rumer Joyce' and 'Garth Brooks'. A 'CANCEL' button is at the bottom right of the popup. The 'Reassign', 'Cancel', and 'OK' buttons are visible at the bottom of the screen.

The screenshot shows the same log edit screen as above, but with a numeric keypad displayed over the center. The keypad has digits 1-9, 0, and a 'DEL' button. There are also 'CLEAR', 'CANCEL', 'Cancel', and 'OK' buttons at the bottom of the screen.

- the log entry disappears from **Driver:A** logs and now appears as an entry in **Driver:B**'s logs.



Ideally, this should be fixed up as soon as the error is detected but can be done at a subsequent session (e.g. the next day). However, it has to occur at a session where both **Driver:A** and **Driver:B** are signed into the same mobile device.

Violations and Warnings (for Hours of Service)

The **Coretex ELD Solution** has been enhanced to incorporate violations and warnings. These present as **Information Cards** to drivers and supervisors to help improve safety and ensure compliance with driving time rules and limits.



- they are only issued to drivers with a status of *Driving*
- only Hours of Service (HOS) violations and warnings are provided in this release

Scenario of operation

A driver is operating a vehicle under a ruleset that determines that a driver can drive for no longer than 14 hours and the drivers ELD dashboard is displaying the burndown gauge of *On Duty Remaining (Shift)* time. Refer to following sections for details on violations and warnings.

An example of how violations/warnings will operate:

When the driver started his journey the burndown gauge started with 14 hours and as the day progresses burns down gradually towards zero hours ...

- when 13 hours have been exceeded this generates a **Warning Information Card** on their dashboard to alert them to the fact they are 1 hour away from a drive time violation
- when 13 hrs 30 mins have been exceeded this generates a **Warning Information Card** on their dashboard to alert them to the fact they are 30 mins away from a drive time violation, and this replaces the previous warning (if the driver hasn't already dismissed it)
- when 13 hrs 45 mins have been exceeded this generates a **Warning Information Card** on their dashboard to alert them to the fact they are 15 mins away from a drive time violation, and this replaces the previous warning (if the driver hasn't already dismissed it)
- when 13 hrs 55 mins have been exceeded this generates a **Warning Information Card** on their dashboard to alert them to the fact they are 5 mins away from a drive time violation, and this replaces the previous warning (if the driver hasn't already dismissed it)
- when 14 hrs have been exceeded, and the driver is still driving, this generates a **Violation Information Card** on their dashboard to alert them to the fact they are violating the driving time ruling, and this replaces the previous warning (if the driver hasn't already dismissed it)

Warning Information Cards

Prior to issuing violation cards you will be issued with warning cards alerting you to the fact that a particular timeframe is getting close to being exceeded.

For each of the current US, Canada, AU and NZ rulesets, warning thresholds are configured and warning cards issued at defined times before a violation is due. Warning cards are of **HOS** (Hours of Service) type and can be tapped on to dismiss.

Warning time thresholds may be configured, and include several timed warnings for each output. e.g. 1 hour, 30 min, 15 min, 5 min warnings.

A warning card is issued and if an existing card for the same issue exists on your dashboard it is replaced by the new one.

When the violation threshold is exceeded the warning card is replaced with a violation card.



Violation Information Cards

Drivers operate **Coretex DRIVE** and ELD under a particular ruleset. Rulesets are configured by Coretex to comply with legislation at a federal or national level, or intrastate (for USA).

When you are operating a vehicle and a particular rule time threshold is exceeded then this generates a violation **Information Card** that appears on your dashboard. Violation cards are of **HOS** (Hours of Service) type and can be tapped on to dismiss.

A violation card replaces any existing warning card for the same issue.

Violations are generated and seen by you and your supervisor. They are not visible to *Roadside Inspections*.

For example: if a ruleset states a driver cannot be on duty for more than 14 hours then any driving time exceeding this limit is flagged as a violation.



Drivers Logs – Violation entries


When you examine your own logs any violation entries are listed, with an alert icon.

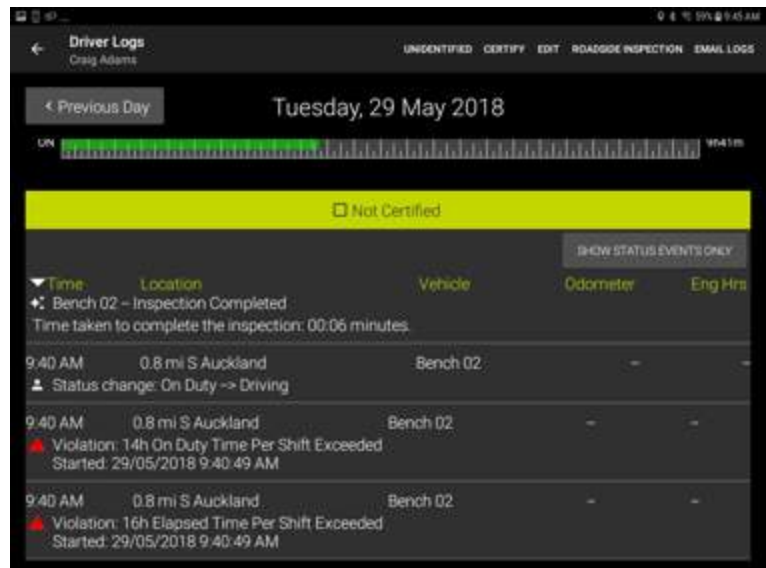


- tap **SHOW ALL EVENTS** to see violation entries in the list.

Any notes made against the violation by a supervisor will also appear here.

If you believe a violation is in error, you must edit your logs, or contact your supervisor should it need to be deleted.

 Violation entries are shown in the logs but are not shown in *Roadside Inspection* mode.

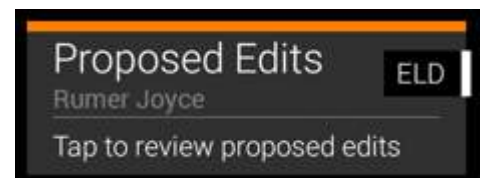


Supervisor Proposed Edits

In addition to you being able to make edits to your own driver logs your administrator or supervisor can review the logs of drivers under their administration. If they think that one or more driving events should be assigned to you they can create proposals in the backend **Coretex 360** system that will come down to your mobile device.

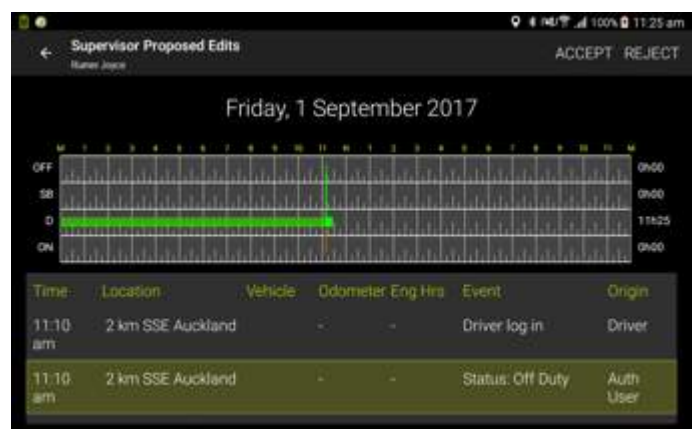
You are alerted to a *Supervisor Proposed Edits* with an **Information Card** on your dashboard:

- tap on the card to proceed to present the *Supervisor Proposed Edits* listing screen



Review the log entry proposals for a particular day and:

- tap **ACCEPT** to have all proposed entries assigned to you (as the driver in charge of the vehicle at the time)
- tap **REJECT** to have all entries for the day rejected for the supervisor to further assess



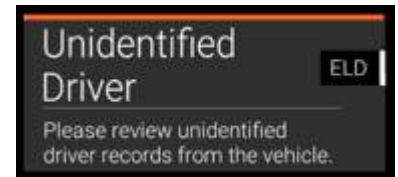
No individual log entry selection is permissible. A driver must either **ACCEPT** or **REJECT** all log proposals for the current day.

Unidentified driving records

The ELD automatically records all driving time in the vehicle, and regulations require that all ELD driving events must be assigned to a driver. Any periods of time that the vehicle is driven without a signed in driver, will generate an unidentified driving event.

If a period of unidentified driving time is detected this presents as an Information Card (to alert you to review it).

- tap on the card to proceed to present the *Unidentified Driving Records* screen

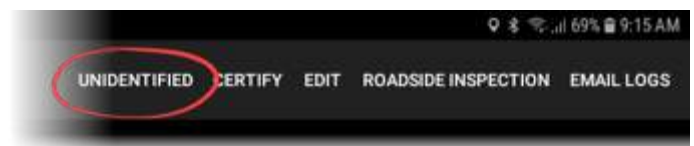


Only when all periods of unidentified driving time have been accepted or rejected will the card be cleared.

Accessing unidentified driver records from your dashboard

At any time, you can review the unidentified driver records (associated with your current vehicle) from your *Driver Logs View* screen:

- tap **UNIDENTIFIED** to present your *Unidentified Driving Records* screen:



Reviewing your unidentified driving records

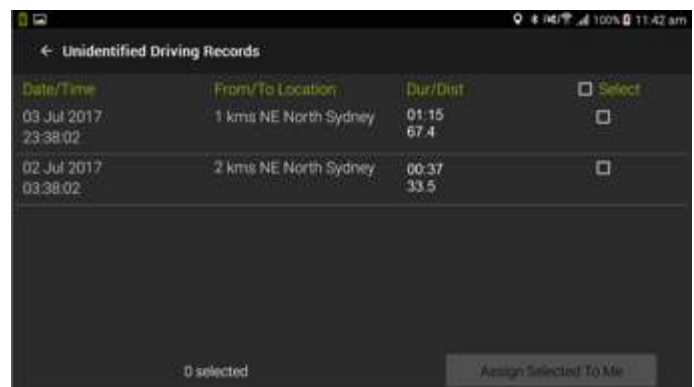
These events can be viewed as records in a list on the *Unidentified Driving Records* screen.

Here you can review your periods of unidentified driving time.

Claiming time

Some periods of time you can claim, if, for example you forgot to sign-in at the start of your daily trip:

- tick the time entries under the **Select** column (or tick next to column header to select all entries)



- tap **Assign Selected To Me** to have those entries assigned as driving time to you (as the driver in charge of the vehicle at the time)

Rejecting time

Some periods of time another driver (e.g. a co-driver) was driving at the time and so you can reject these entries:

- leave all such time entries unselected under the **Select** column
- tap **Back** to have those entries rejected



Your supervisor will assess these records later on (from the DRIVER PORTAL in **Coretex 360**), and assign to the appropriate driver.



You only need to accept Unidentified Driving Records that are applicable to you. When you sign out of **Coretex DRIVE**, any outstanding unidentified driving records will automatically be rejected and sent back for the supervisor/administrator to assess.

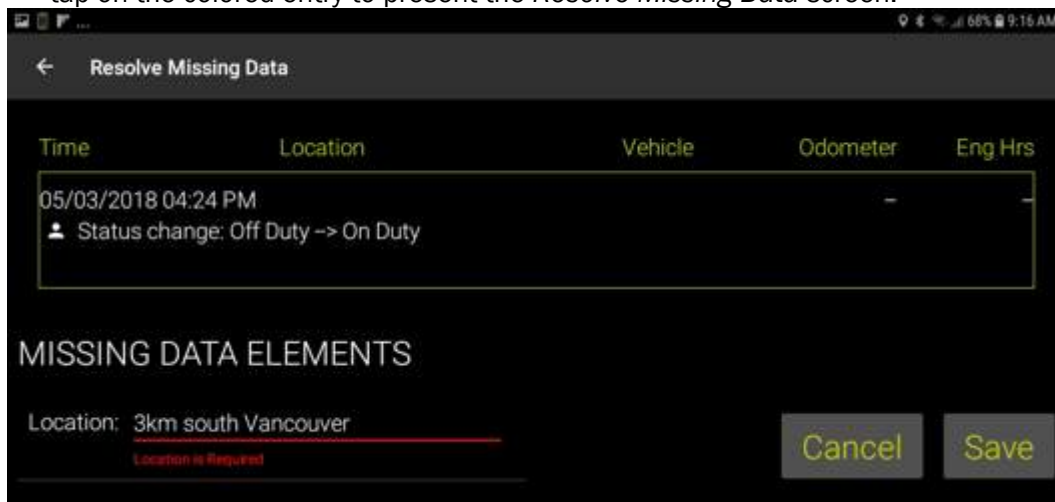
Resolving missing data

Generally, the drivers' log list is a trail of events that have occurred, although a driver can highlight an entry and tap the **EDIT** link to edit certain details.

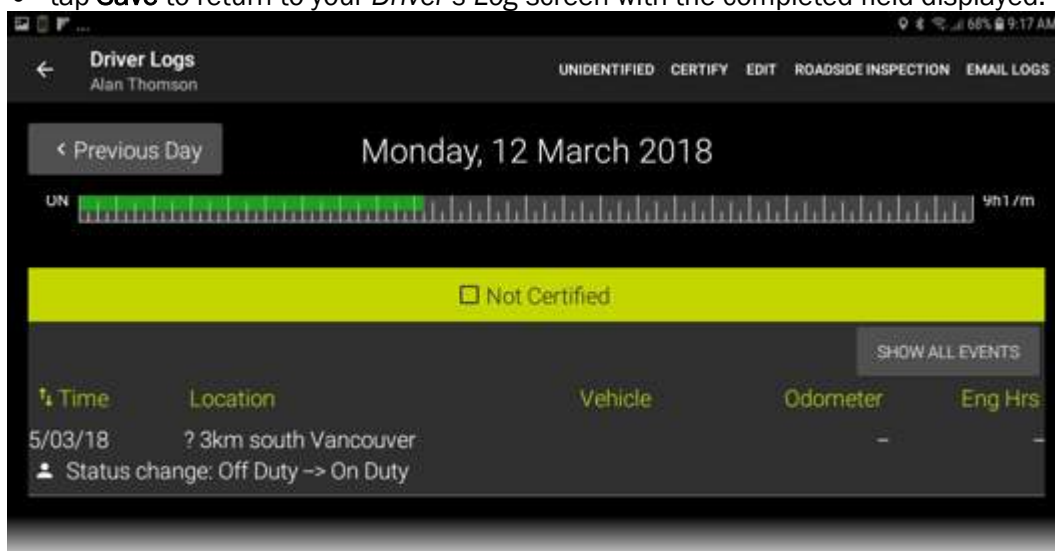
If an important field of data is missing from an entry this is displayed in a highlight color with a link **Tap to resolve missing data**:



- tap on the colored entry to present the *Resolve Missing Data* screen:



- with this example, the driver's location at the time of the event is missing so you can enter a description of the location at that time
- tap **Save** to return to your *Driver's Log* screen with the completed field displayed:



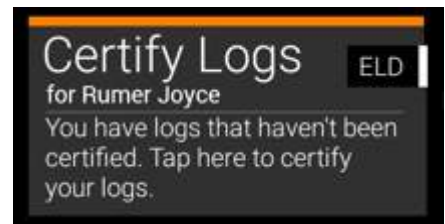
Certify your logs

During a daily trip your driver logs are recorded and these must be certified by yourself as a true record of the driving activity for that day.

You are required to certify your logs on a day by day basis.

When you sign in to **Coretex DRIVE** if there are any previous day's logs that have not been certified you will be alerted to the fact with an **Information Card** on your dashboard.

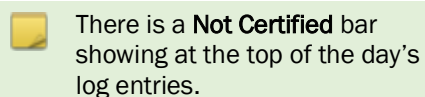
- tap on the card to dismiss it and present your *Drivers Log* screen for review of your historical drivers logs (your logs are available for the current date and the previous seven days)



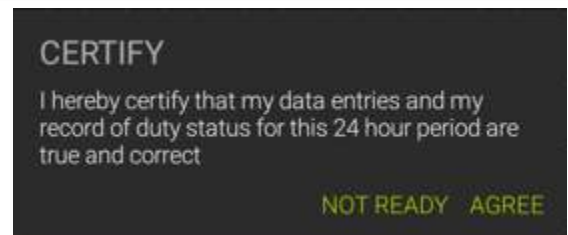
Reviewing your logs

From your *Driver Logs* screen:

- navigate to one or more of the previous days that requires certification for the day's log entries




- tap **CERTIFY** to confirm the current days' logs are a true record of driving activity
- tap **AGREE** to certify the days logs



All driver logs for a particular day that have been certified are clearly marked on the *Driver Log Edit/View* screen:



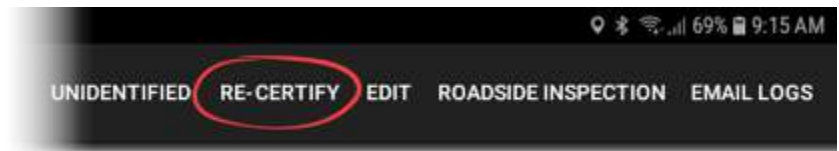
 Your driver logs can also be certified from the DRIVER PORTAL in **Coretex 360**. For details refer to *Appendix:C – ELD DRIVER PORTAL in Coretex 360*.

Re-certifying your logs

If you have already certified your logs for a particular day and then you make a change – you will need to re-certify. The *Driver Logs Edit/View* screen will detect this and change the **CERTIFY** menu bar link to appear as **RE-CERTIFY**.

From your *Driver Logs* screen:

- navigate to one or more of the previous days that has already been certified for the day's log entries
- make one or more changes to the entries, save and the menu bar link changes to **RE-CERTIFY**
- re-certify in the same way as certification



Data diagnostics and malfunctions

ELD functionality in **Coretex DRIVE** caters for a number of error conditions that are flagged as data diagnostic or malfunction events. You are alerted to them with cards that appear on your dashboard.

For example:

If your vehicle is driven without being signed-in (for more than 30 mins. of driving in a 24 hour period) then this is recorded as a period of unidentified driving. It is recorded as an *unidentified driving record data diagnostic* event.

It shows up as a card or alert on your dashboard.

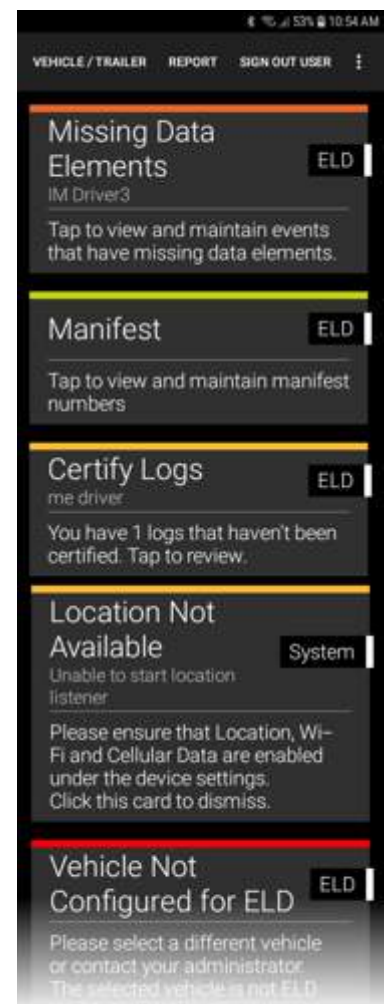


For details refer to *Appendix:A - Dealing with connection and Data Diagnostic/Malfunction events*



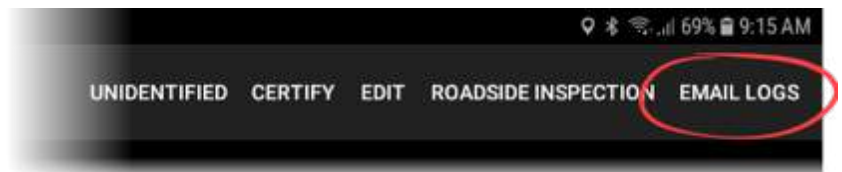
These events are also available in the separate:

- Quick Reference: ELD Data Diagnostics/Malfunctions In-cab Guide
- ELD Visor Card (for reference in-cab by drivers)



Emailing your logs to yourself

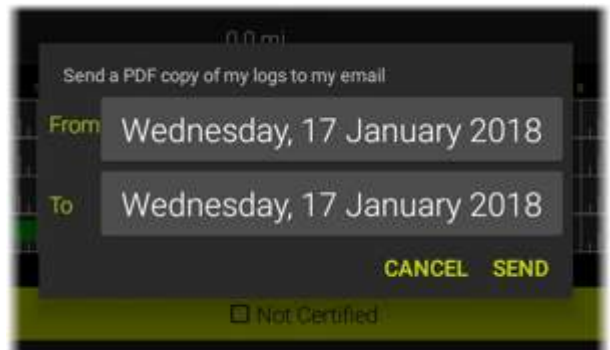
Drivers can access and print their own daily logs from the DRIVER PORTAL within **Coretex 360**.



However, it is useful for drivers to be able to directly access a trail of their daily logs by having them sent directly from their mobile device to their email *InBox* for further review.

To email your daily driver logs to yourself:


- from your *Drivers Log* screen tap the menu bar link **EMAIL LOGS** to present a date range popup (defaults to the currently selected date)
- tap the **From** or **To** date bar selection to present a calendar control to allow selection of any other date



Once the date range is selected tap **OK** to generate the sending of the email event. A report of your daily logs is prepared in PDF format and emailed to your registered email address. This appears as an entry in your daily logs.

Sample Email Logs event generated:

| | | | |
|----------------|-----------------|---|---|
| 10:03 AM | Alan's Mercedes | | |
| End Inspection | | | |
| 10:08 AM | Alan's Mercedes | - | - |
| emailLogs | | | |
| 10:25 AM | Alan's Mercedes | - | - |

 The email address used to send the PDF of the logs is the address set up against your Driver entry in **Coretex 360**

Reviewing resources used

The current driver in focus using the mobile device can examine their drivers log entries and then access an audit trail of the other resources that have been used.

These are the vehicles, trailers, co-drivers and shipment numbers that have been used, showing when they were selected or specified and when they were removed.



These are listed, grouped by resource type with respect to the current selected date on the *Drivers Log* screen and the current driver in focus (whose details are not listed).

To access your *Resource trail* screen:

- from your *Drivers Log* screen tap the **Resource** button to present your *Resource* screen:

This presents a summary page of the resources used for the trip grouped by Vehicles and trailers used, co-drivers that logged in and all Shipment numbers.

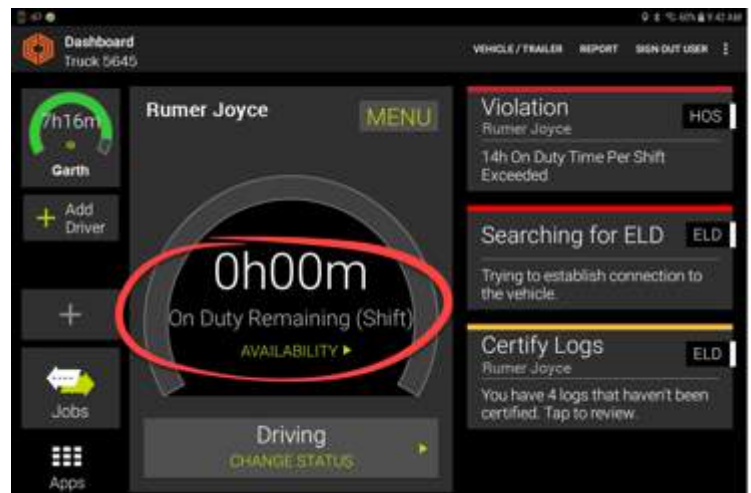
| Resource | | |
|---------------------|----------------------|----------------------|
| Resource | Time From | Time To |
| Vehicles | | |
| Alan's Mercedes | 7/11/2017 1:51:25 PM | 7/11/2017 3:35:56 PM |
| TRUCK: 7435 | 7/11/2017 3:38:24 PM | 7/11/2017 3:39:36 PM |
| Alan's Mercedes | 8/11/2017 9:20:02 AM | |
| Trailers | | |
| Mitsubishi Test3 B6 | 8/11/2017 9:26:38 AM | |
| Co-Drivers | | |
| Garth Brooks | 7/11/2017 1:51:26 PM | 7/11/2017 3:13:12 PM |
| Charlene Beentome | 7/11/2017 1:51:26 PM | 7/11/2017 1:52:05 PM |
| Garth Brooks | 7/11/2017 3:22:48 PM | 7/11/2017 3:35:40 PM |
| Shipments | | |
| 454344 | 8/11/2017 9:41:56 AM | |
| 996754 | 8/11/2017 9:42:17 AM | |

Burndown gauge on your dashboard

While on duty, your dashboard displays a burndown gauge showing the rule that is most limiting to your duty status.

In the example here the driver has exceeded their *On Duty Remaining (Shift)* time and so the burndown gauge highlights this showing zero time left!

Beneath, is the link to your **AVAILABILITY** screen.

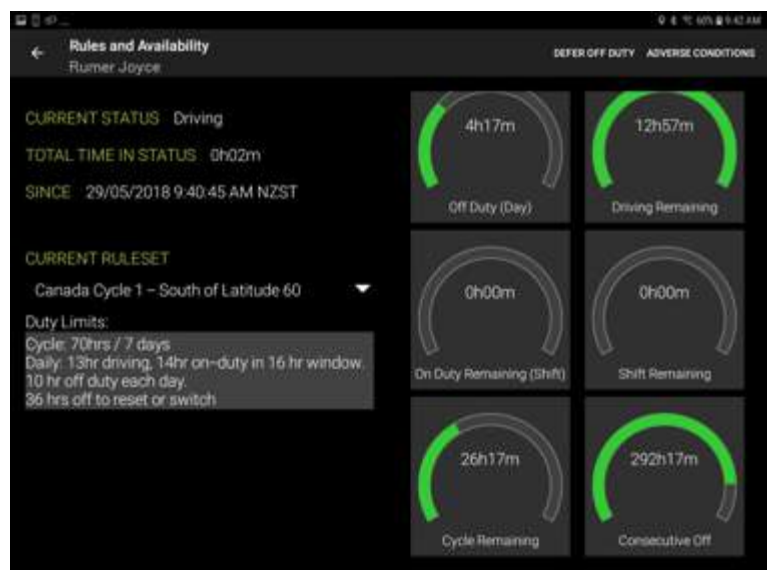


Gauges showing core metrics of duty status (AVAILABILITY)

Determination of the most limiting rule is calculated by examining the various rules that are active in the CURRENT RULESET.

From the driver's dashboard a driver can tap on **AVAILABILITY** to access the *Rules and Availability* screen.

This is used to select a CURRENT RULESET and in addition to view the various timeframes available from applying rules from the selected ruleset.



In this example, the rule for **On Duty Remaining (Shift)** gauge has reached zero and this is the most limiting for the driver as it directly tells them they can't drive at present! Hence this is the one selected to show on the main dashboard.



For details refer to section *Rules and Availability*.

Available Drive time

The dashboard burndown gauge displays in green what their remaining available driving time is.

In this example, a driver has been working (but not driving) and has set their duty status to **On-Duty**.

The green portion of their dashboard burndown gauge winds down and indicates there is 59 mins left before a break must be taken.



For a definition of what driver duty statuses are working duty statuses refer to the *ELD Glossary*.



Gain time on the dashboard

A contrasting blue *Gain Time* burndown gauge will be displayed whenever a driver is in a non-working status. Gain time is displayed and is the combination of time consumed when the driver is in a non-working status.

As soon as a driver sets their status to a non-working status the dashboard burndown gauge will switch to show in blue and display the Gain time winding down.

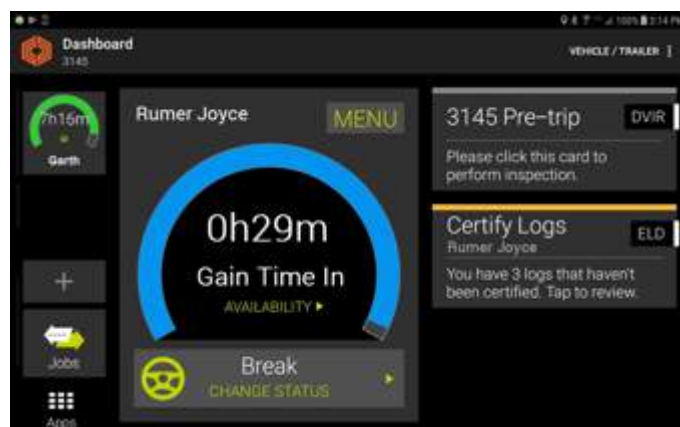


For a definition of what driver duty statuses are non-working duty statuses refer to the *ELD Glossary*.

A countdown will indicate how long they must remain in this status to gain additional driving time.

For example:

Driver changes to **Break** status and the blue gauge winds down from 30 to 0 minutes. Here 29 mins of their break are remaining.



In the USA this will automatically cycle from a 30-minute break, a 10-hour restart, and a 34-hour cycle restart (depending on the next available gain time and the current rule set assigned).

Details of drive time remaining on a burndown gauge can be seen (without changing status) by tapping on **AVAILABILITY**.

Roadside Inspections



From time to time you may be approached by an FMCSA agent (safety officer) and asked to present your driver logs. You need to be prepared to assist to allow the safety officer to operate the mobile device to examine and/or transfer the logs directly (in bespoke FMCSA format) to FMCSA for further analysis.



From time to time you may be approached by an CCMTA agent (safety officer) and asked to present your driver logs. You need to be prepared to assist to allow the safety officer to operate the mobile device to examine and/or transfer the logs in PDF format via email to an email recipient of the safety officer's choosing.

The Safety Officer is only required to **see log data** as displayed via the **ROADSIDE INSPECTION** screen and logs cannot be edited during this process.

To access your Driver logs:

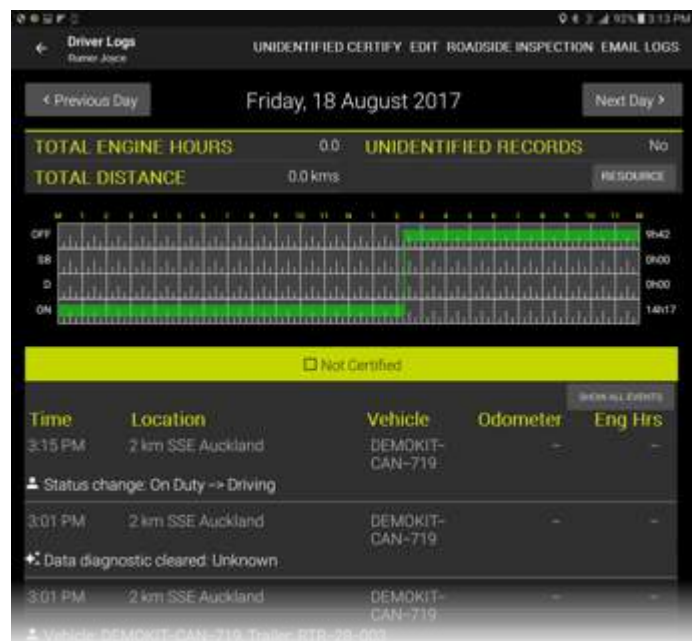
- in normal operation, simply tap the **Home** key to return to the dashboard.
- tap **MENU** to present the **ELD MENU**
- tap **View Logs** to present your *Driver Log View* screen



Driver Logs screen

A graph of your status through the current day is drawn on the default graph (by status/hour).

Log data is presented in a scrollable list (below the graph), and is available for today's date and the seven days prior to today.



To access your Roadside Inspection screen:

- tap **ROADSIDE INSPECTIONS** to present your *Roadside Inspection* screen
- **hand the mobile device over to the safety officer for them to use the mobile device (to perform the inspection)**

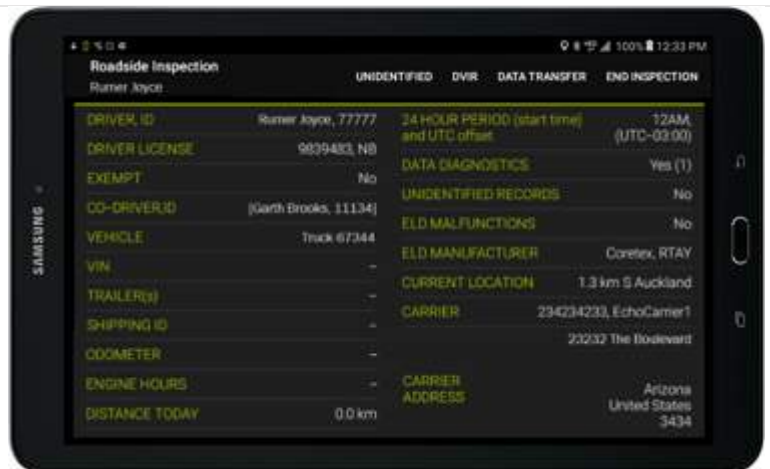


The Safety Officer can examine all the required statistics from the *Roadside Inspection* screen. This displays data for the current driver and their available logs (covering today's date and the previous number of days available).

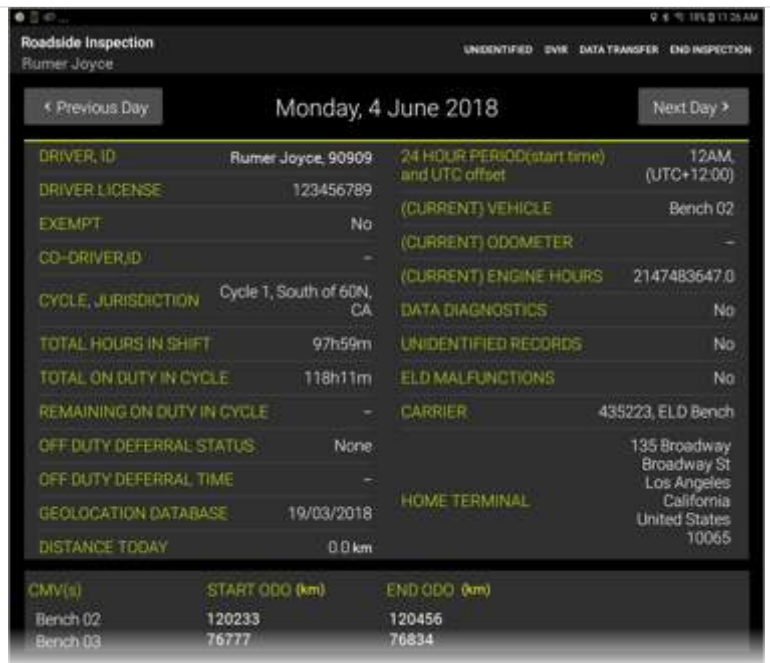
What information they need to see is determined by the ELD mandate and this is different for USA and Canada. The *Drivers Log list* lists the same fields but the headers have different requirements:



In the USA, FMCSA safety officers need to see this information on the *Roadside Inspection* header:



In Canada, CCMTA safety officers need to see this information on the *Roadside Inspection* header:



USA or Canadian ELD requirements will be met, dependent on the current ruleset selected.

Viewing different days

- the safety officer can navigate to the log date/s they want to inspect using the **Previous Day** or **Next Day** buttons

How many days of data is available?



FMCSA Safety Officers can review a drivers logs for today and the previous 6 days.



CCMTA Safety Officers can review a drivers logs for today and the previous 13 days.

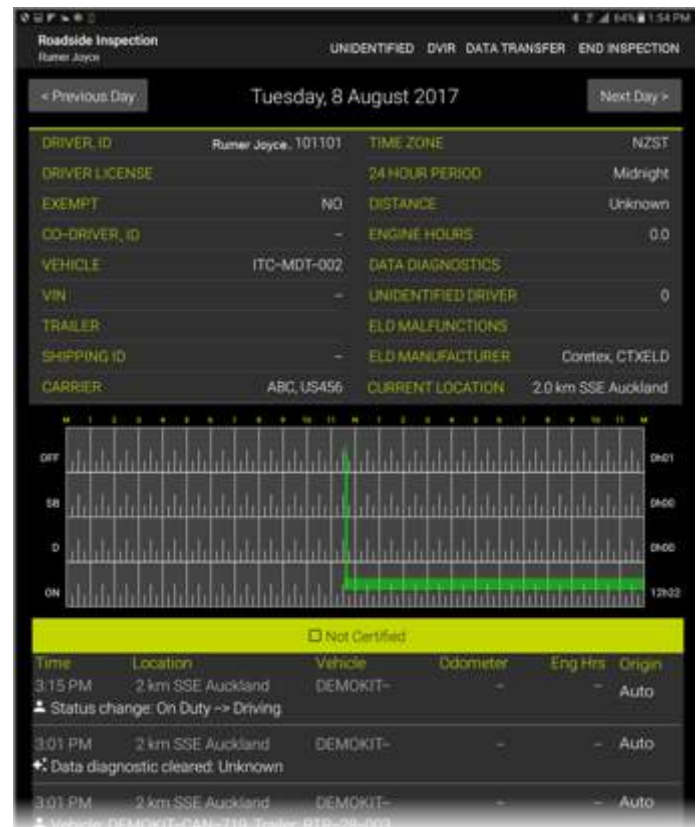


Driver log records are shown as in the *Driver Log View* screen but with the addition of the *Origin* column.

Origin of Drivers Log entry

The **Origin** column shows how the log entry was submitted i.e. by the driver, auto-generated, by an authorized user or assumed. For details refer to section *Driver Log list data*.

Sample Roadside Inspection (USA) screen:



Menu bar links

A Safety Officer can access the *Roadside Inspection* screen and tap the following menu bar links:

Roadside Inspection menu bar links:

UNIDENTIFIED – safety officer can access unidentified driving records for the current vehicle.

DVIR – safety officer can view DVIR (Driver Vehicle Inspection Report) inspections submitted by current vehicle in last 10 days.

DATA TRANSFER – safety officer can have all available driver logs (for today and previous seven days) sent to the FMCSA organization for analysis.

END INSPECTION – safety officer can complete inspection and hand mobile device back to driver

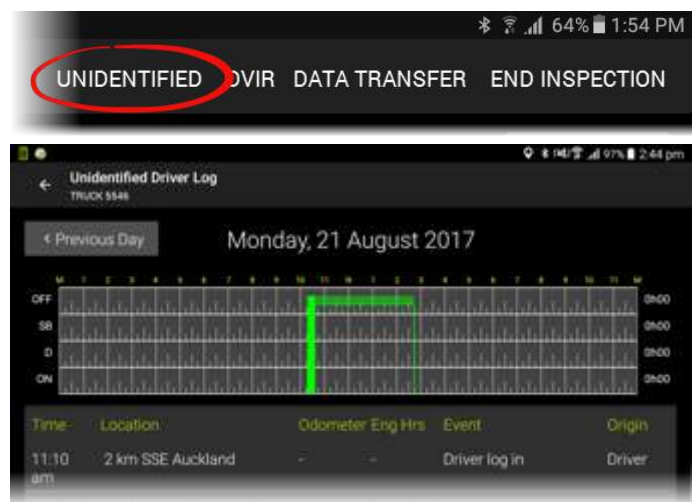
Unidentified Driving Records

From the *Roadside Inspection* screen the safety officer has the option to view any unidentified driving records. The option **UNIDENTIFIED** only appears if there are unidentified driving records detected for the current vehicle.

- tap **UNIDENTIFIED** to view the *UNIDENTIFIED DRIVING RECORDS* listing screen

By default the safety officer is presented with a listing for the latest day, in the last week for which unidentified driving records were found for the vehicle.

- tap **Previous Day** to step back to an earlier date in the previous week (if records are available to view)



Driver log records are specific to and listed by driver. *Unidentified Driving* records are linked to the vehicle. Hence here are listed all unidentified driving records by the driver and any co-drivers on the selected day.

DATA TRANSFER initiated by Safety Officer



During a *Roadside Inspection* a safety officer can request to have an output file of a driver's logs prepared and sent electronically to the regulatory agency or appropriate recipient.

The safety officer has the option to have all available driver logs (for today and previous available days) submitted electronically for the purposes of further analysis.

The methods of dispatch and recipient are different in the USA and Canada.

Via the *Roadside Inspection* screen:



In the USA the output file prepared will automatically gather the driver's logs data:

- for today and the previous 7 days
- send them in bespoke FMCSA format (either by Web Service or email) to the predetermined recipient at the FMCSA

FMCSA

Federal Motor Carrier Safety Administration are the lead federal government agency responsible for regulating and providing safety oversight of commercial motor vehicles (CMVs), FMCSA's mission is to reduce crashes, injuries, and fatalities involving large trucks and buses. For details refer to: <https://www.fmcsa.dot.gov/>



In Canada the output file prepared will automatically gather the driver's logs data:

- for today and the previous 14 days
- send a csv output file and driver log in PDF format to an email address specified by the CCMTA Safety Officer

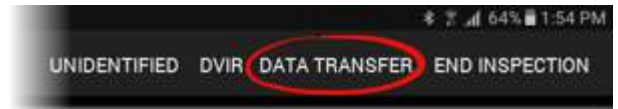
CCMTA

Canadian Council of Motor Transport Administrators (CCMTA) coordinates all matters dealing with the administration, regulation and control of motor vehicle transportation and highway safety in Canada. Membership includes representation from provincial and territorial governments as well as the federal government of Canada. For details refer to: <http://www.ccmta.ca/en/>



To access the *Roadside Inspection* screen (for the Safety Officer to view):

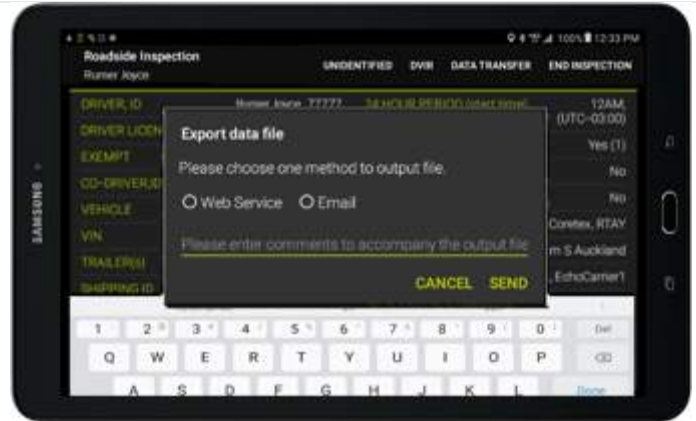
- tap **ROADSIDE INSPECTIONS** to present the *Roadside Inspection* screen
- hand the mobile device over to the safety officer to proceed
- they will tap **DATA TRANSFER** to present the *EXPORT DATA FILE* dialog:



USA: To export and transfer the driver's log data, the safety officer:

- taps either **Web Service** or **Email** as the preferred delivery protocol
- enters a relevant comment for inclusion in the output file
- taps **SEND** to export and transfer the file

The export and transfer is done and you are returned to the *Roadside Inspection* screen.

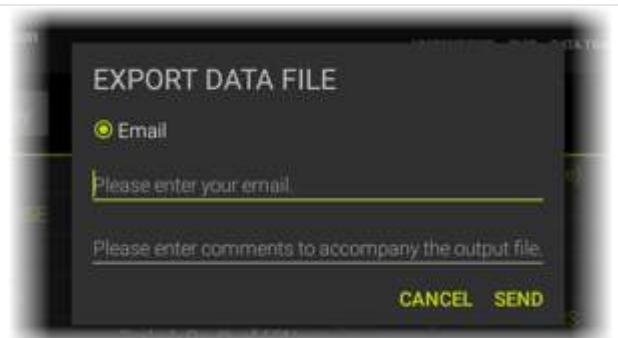


Destination address is configured into the application so tapping **SEND** will send the export file (and comment) to the correct recipient at FMCSA.



Canada: To export and transfer the driver's log data, the safety officer:

- enters the valid recipient email address (where the Safety Officer sends their submitted output files to)
- enters a relevant comment for inclusion in the output file
- taps **SEND** to submit the file by email



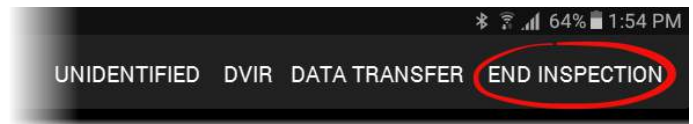
END INSPECTION

- the Safety Officer taps **END INSPECTION** to complete examination and return the mobile device to you, the driver

DRIVER PIN re-entry

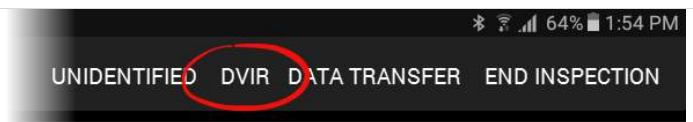
For security purposes you are now required to re-entry your **Sign In PIN** in order to return to the access you had before.

This returns you to the current driver's *Driver Log View* screen.

**DVIR Inspection history**

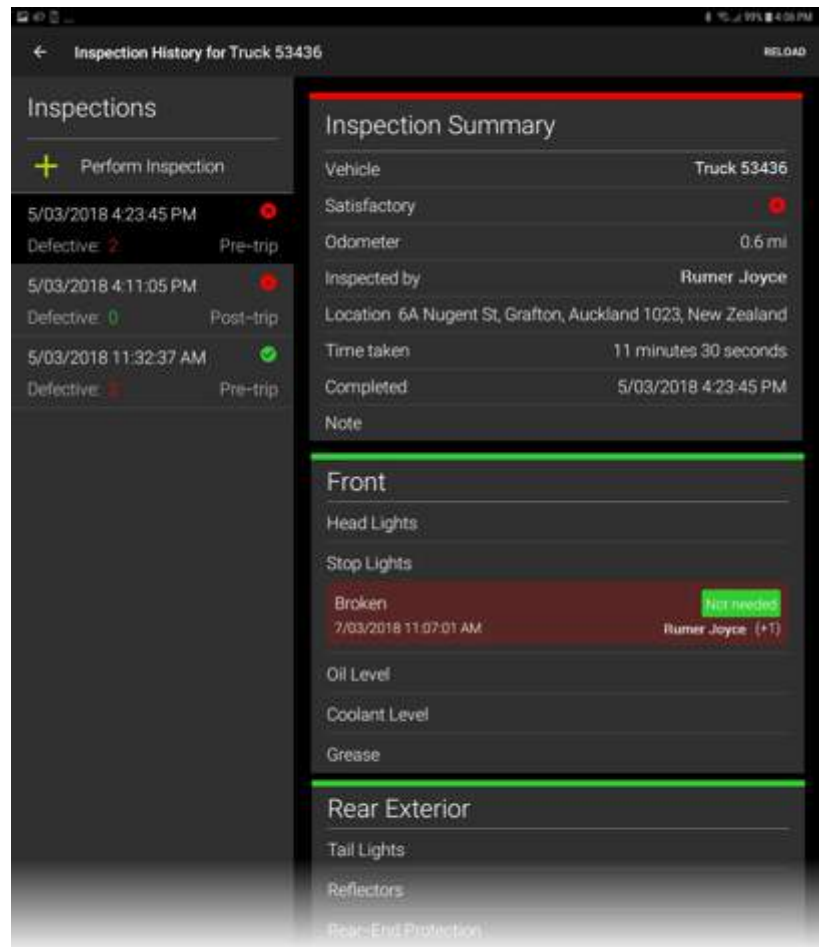
From the *Roadside Inspection* screen the safety officer has the option to view any vehicle inspections or DVIR (Driver Vehicle Inspection Reports) submitted by the driver/s of the vehicle over the last ten days.

- tap **DVIR** to view the DVIR history trail for the current vehicle



This screen serves two purposes:

- a history of the submitted inspections of the current vehicle; essentially an audit trail of the vehicles pre-trip and/or post-trip DVIR inspections
- allows an ad hoc or explicit run of either a Pre-trip or Post-trip inspection, by your tapping on the + **Perform Inspection** link in the left panel



- any inspection entry can be tapped to present details of the inspection in the right pane
- scroll down in the right pane to view the defect details



- **Coretex DRIVE** may be configured to access this directly by tapping a tile **Inspection History** on your *Installed Apps* page
- a history trail of DVIR inspections provides access to inspections done in the last 10 days
- for details on performing a DVIR inspection refer to *Coretex DRIVE: DVIR – User Guide*

RELOAD

The display of DVIR information can be refreshed to ensure you are looking at the most up to date data:

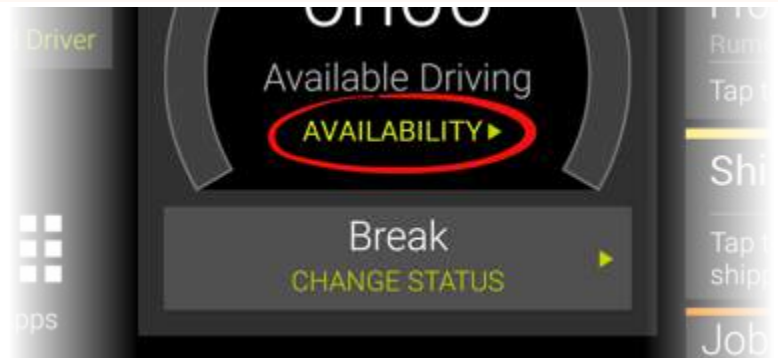
- tap the menu bar link **RELOAD** to refresh the vehicle inspection or DVIR display

Rules and Availability

Rulesets will be applied to a driver for determining parameters for rules to comply with and for calculating break intervals, drive time and methods of data transfer.

On the **Coretex DRIVE** dashboard:

- tap **Availability** to present the *Rules and Availability* screen



From the Rules and Availability screen you can:

- easily view your **CURRENT STATUS**, **TOTAL TIME IN STATUS**
- select a different ruleset to activate as your **CURRENT RULESET**
- view the timeframe gauges of the rules in the current ruleset (that are then used to determine the gauge to display on your dashboard). For details refer to section *Gauges showing core metrics of duty status*
- perform rule based functions like adding an **ADVERSE CONDITIONS** comment to your log, or **DEFER OFF DUTY** time (Canada rulesets only)



If you always drive under a single jurisdiction, e.g. always in the same state or country you may not need to change ruleset. Your administrator will instruct you if you need to change ruleset, e.g.

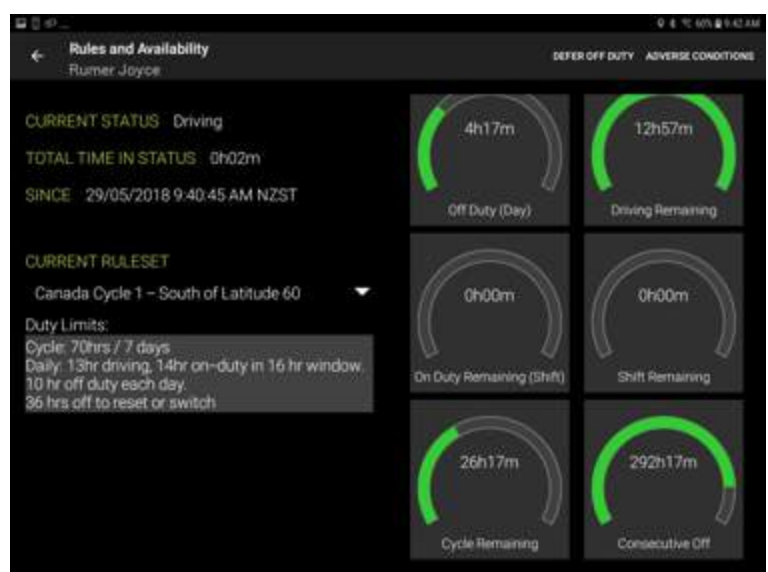
- if you drive in different intrastate **you may** need to change ruleset
- if you drive over the border between Canada and the USA (or vice versa) **you will** need to change ruleset

Selecting a current ruleset

- select a ruleset to work from by tapping the dropdown under **CURRENT RULESET**

The primary rule limits are displayed as *Duty Limits* underneath for your information.

Various action links will appear on the toolbar. These provide access to functionality dependent on the particular ruleset selected.



Dealing with ruleset exceptions

Having selected a ruleset to work with the driver must from time to time choose options, dependent on the currently active ruleset.

The following describes functions that may be available, if the following action links appear in the toolbar (top right).

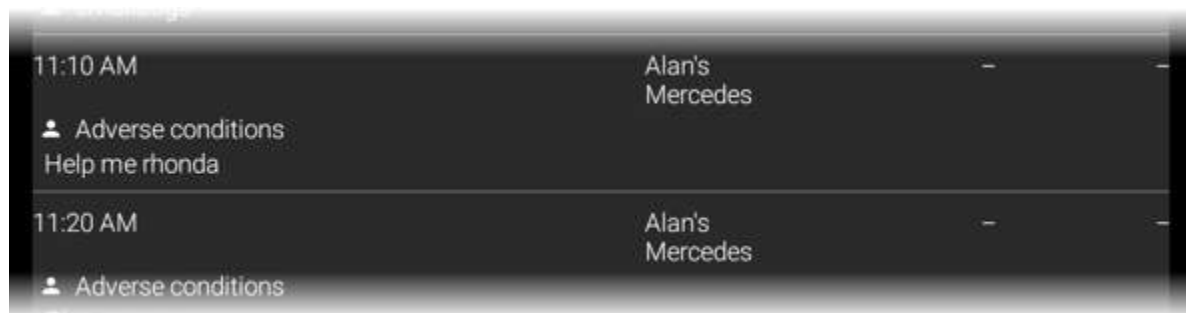
ADVERSE CONDITIONS

Drivers can add an annotation comment to their log to explain for delays and adverse conditions affecting their daily trip.

- tap **ADVERSE CONDITIONS** menu bar link
- enter a free format comment to document the adverse conditions you want to add to your log
- tap **OK** to save the comment



The Adverse Condition event is added as an entry to your daily log:



DEFER OFF DUTY (Canada only)

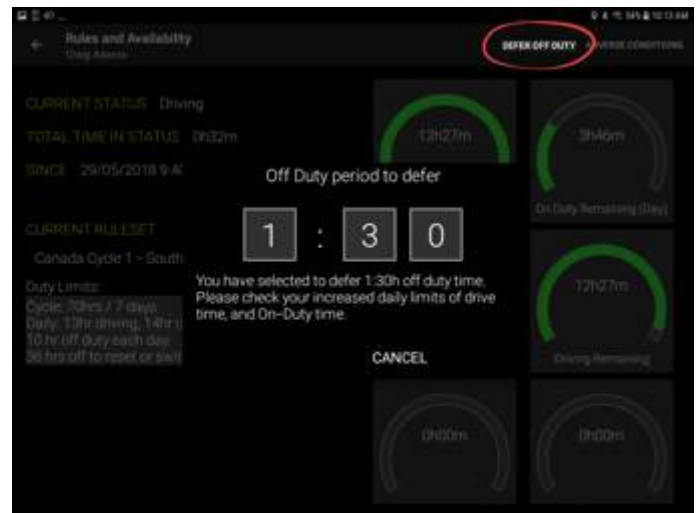


In Canada only, drivers can have the option to defer up to 2 hours of *Off Duty* time from **today** to **tomorrow**.

When a Canadian ruleset is selected a new menu bar link option appears in the top right **DEFER OFF DUTY**

- tap this link to specify the period of time to defer from today to tomorrow

Once specified, *Hours of Service* calculations are revised automatically



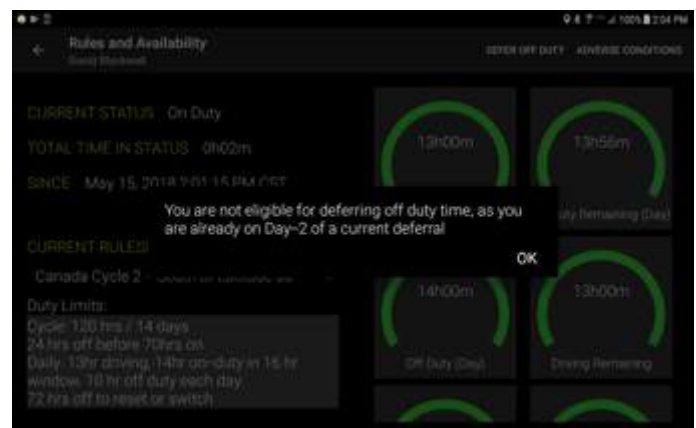
An **Information Card** called **Off-Duty Time Deferral** will be displayed to the driver. It confirms off-duty time was deferred to tomorrow.

A driver taps the card to dismiss and shown the *Rules and Availability* screen to review the available hours for tomorrow.



Note that a subsequent attempt to defer **Off-Duty hours** on tomorrow will not be allowed.

A message is displayed if the driver attempts to defer Off-Duty time when it is not permitted.



In addition to **DEFER OFF DUTY** other menu items may appear on the *Rules and Availability* toolbar dependent on the ruleset selected. When this occurs for a ruleset, selecting the new option will present a self explanatory dialog.

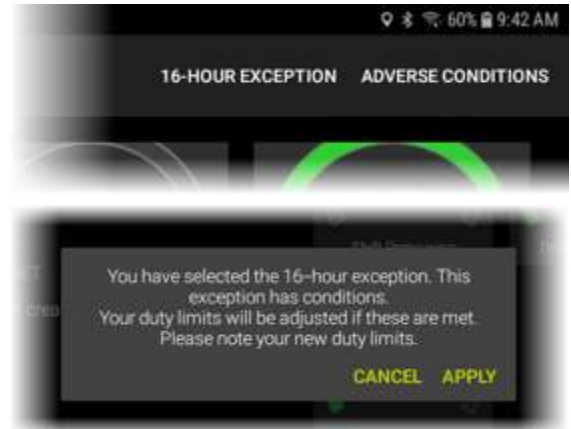
16-HOUR EXCEPTION

If a driver meets certain criteria (e.g. driving more than 100 miles a day on a daily route and returning to base) then they are allowed to start up to two hours late for one day in every four.

For USA federated rulesets the **16-HOUR EXCEPTION** link will appear in the toolbar.

The driver must take this option in order for their Duty limits to be re-calculated.

- a confirmation prompt appears and you should click **APPLY** if the “big day” exception ruling needs to be applied

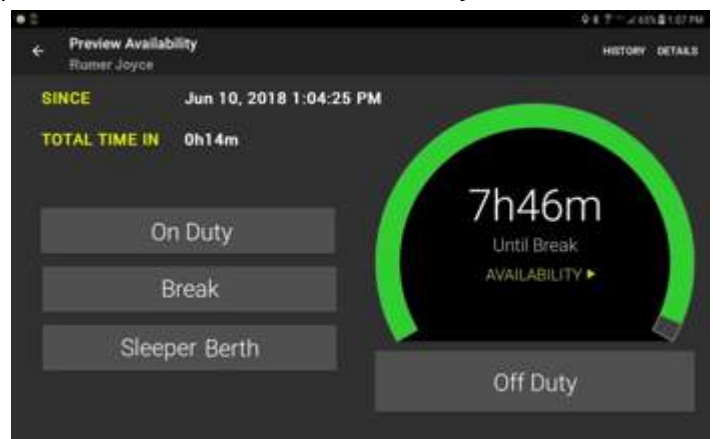


Preview Availability screen

During a driver's *Sign In* procedure the driver is presented with the *Preview Availability* screen:

The purpose of this it to assess your current status with respect to available *driving time* to see if you have enough time left to embark on your trip! If not, perhaps your co-driver can do most of the driving today.

- to proceed with you as the driver for this upcoming trip tap on your current status (e.g. *On Duty*)



There are two menu bar links available from this screen:

HISTORY

- tap **HISTORY** as a short cut to access your *Driver Log View* screen

DETAILS

- tap **DETAILS** as a short cut to your *Rules and Availability* screen

Co-drivers

Coretex DRIVE allows for one driver to be in charge of the vehicle and for any number of co-drivers to be signed in at the same time.

A co-driver can:

- operate the mobile device whilst the driver in charge is driving the vehicle (and the driver in charge is locked out of using the mobile device)
- switch to take charge of the vehicle (and the previous driver in charge is set to be a co-driver)

*On the left hand side of the **Coretex DRIVE** dashboard are tiles to tap to:*

- switch to make a signed-in co-driver be the driver in focus of the dashboard
- add a new co-driver to be signed in

Driver in focus

When a driver is in focus on the dashboard:

- the central section (with the burndown gauge) has their name shown prominently
- the **ELD MENU** and **CHANGE STATUS** options are relevant to the driver in focus
- the **Information Cards** on the right are relevant to the driver in focus



This does not affect the status of the current driver in charge of the vehicle.



Add a new co-driver

To add a co-driver to today's session:

- tap the **Add Driver** tile to present the *Sign In* screen
- the co-driver signs in by entering their PIN number
- (if configured for password entry) the co-driver signs in by entering their password
- the co-driver selects their initial status and the dashboard presents with them as a co-driver tile on the left
- tap the new driver tile to make them the driver in focus

Switch a co-driver to be the current driver in charge

When the co-driver is ready to take over as the current driver on trip:

- tap on the co-driver's tile on the left panel (to take focus of the dashboard)
- tap **CHANGE STATUS**
- select **In Charge of Vehicle** from the **CHANGE STATUS** menu
- the co-driver becomes the current driver in charge (along with display of the steering wheel icon) and their details shown to the right

Accessing Apps

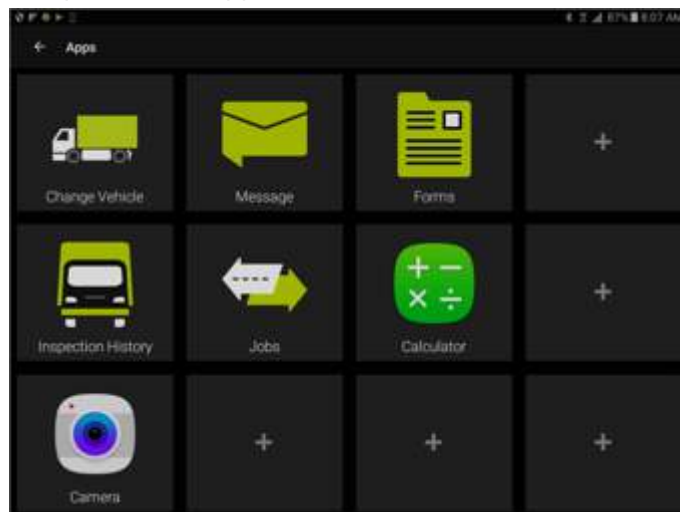
Coretex DRIVE is packaged with some separate applications and you can also configure shortcuts to launch independent apps installed on the mobile device.

To access apps:

- tap the **Apps** icon to access the *Loaded Apps shortcut* screen:



Sample Loaded Apps shortcut screen:



Coretex DRIVE is installed with the following applications:

| | |
|---------------------------|---|
| Jobs | Access to manage your list of jobs in Coretex DRIVE |
| Message | Access to the <i>Message Center</i> |
| Forms | Access to design interactive forms for use with Coretex DRIVE |
| Change Vehicle | Access to change the vehicle or trailer for use in the next trip |
| Inspection History | Access to your history of DVIR submitted inspections. Refer to section Roadside Inspections > <i>DVIR inspection history</i> for details. |



By default, no applications are loaded on the dashboard so you have to perform a one off exercise to install them on your personal dashboard.

Loading installed apps

Your **Coretex DRIVE** dashboard can be configured to present app tile shortcuts to any other apps installed on the mobile device (to provide easy access from **Coretex DRIVE**).

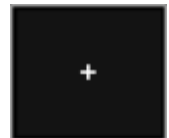
These apps can be customized apps designed for **Coretex DRIVE** (as above) or independent apps.

For example:

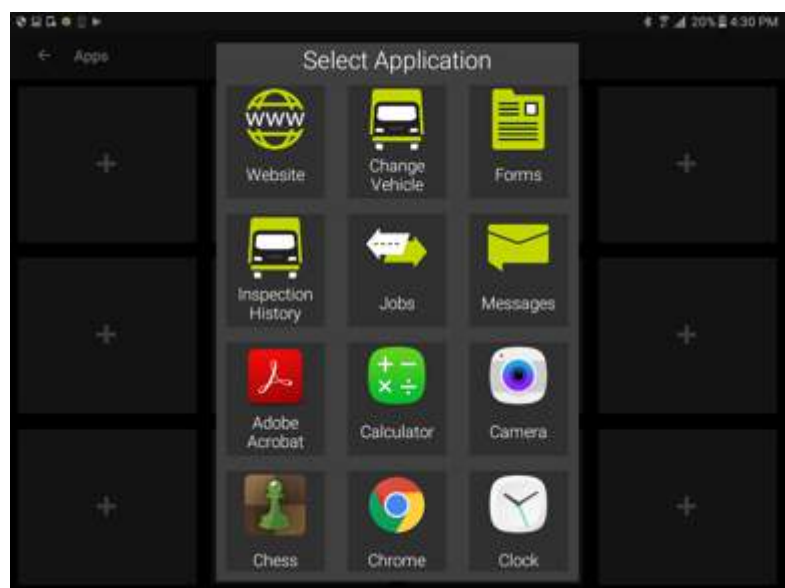
- Camera
- Calculator

To add a new shortcut to the Loaded Apps shortcut screen:

- tap any vacant app tile to present a scrollable list of installed mobile device apps:



- tap selected app to have a shortcut added to the *Loaded Apps shortcut* screen



Dashboard Quick Apps

Provision is made for two apps to be accommodated with shortcut tiles on the main dashboard.

Simply tap either of the two quick app tiles on the left panel of the dashboard and then load up to two of your most useful apps to have them accessible directly with a single tap.

These can be **Coretex DRIVE** supplied apps or independent apps (e.g. the camera built in to the mobile device).



DVIR Inspection History

One of the most useful of the **Coretex DRIVE** apps available is access to your DVIR Inspection History.

You can inspect your submitted DVIR inspections by tapping on the **Inspection History** tile on the *Loaded Apps shortcuts* screen. This will present the view screen of DVIR (*Driver Vehicle Inspection Report*) inspections submitted over the last ten days.

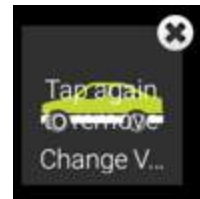


- for details refer to section *Roadside Inspections > DVIR inspection history*
- for full details of using DVIR refer to separate *Coretex DVIR: User Guide*

Removing tile associations

➤ *To remove any tile association:*

- remove any tile association by tapping on it for a second or more
- after the removal confirmation message appears tap the X to remove it



Appendix:A - Dealing with connection and Data Diagnostic/Malfunction events

In this section:

- Problems with internet connection
- Data Diagnostic codes
- Malfunction codes

Problems with internet connection

An internet connection is required for Coretex DRIVE to function correctly.

No Internet detected

If this is not detected an **Information Card** will appear on your dashboard. This will be dismissed automatically when internet connection is restored.

Airplane mode detected

If the mobile device is placed into *Airplane mode* then this affects connectivity and a card to this effect appears on your dashboard. This will be dismissed automatically when internet connection is restored.



An ELD connection between your **Coretex DRIVE** mobile device and the vehicle's TMU must be able to monitor full compliance with requirements defined by the *Federal Motor Carrier Safety Administration* (FMCSA). It will ensure that all events relating to data inconsistencies and malfunctions are detected, recorded and submitted.

ELD functionality in **Coretex DRIVE** caters for a number of error conditions that are flagged as data diagnostic or malfunction events. These are detailed here describing the codes, their descriptions, likely causes and response or resolution.



Refer to Subpart B, Section 4.6 of the FMCSA regulations.

Data Diagnostic events

These events are when your ELD detects a data inconsistency. You must follow the recommendation of the motor carrier and ELD provider (i.e. Coretex) to resolve the inconsistency.



Refer to Section 49 CFR 395.34(c) of the FMCSA regulations.

In this section:

1 - Power data diagnostic

2 - Engine synchronization data diagnostic

3 - Missing required data elements data diagnostic

4 - Data transfer data diagnostic

5 - Unidentified driving records data diagnostic

Data Diagnostic codes

| Code | Event Description |
|--------------------------|---|
| 1 | Power data diagnostic |
| Description | ELD is not fully functional within one minute of turning the engine on, or within one minute of selecting a vehicle in Coretex DRIVE . |
| Causes | <ul style="list-style-type: none"> ELD was unable to connect to vehicle within 60 seconds The vehicle has ignition off and the TMU is in sleep mode Bluetooth is not enabled or Airplane mode is enabled |
| Troubleshooting | <ul style="list-style-type: none"> verify correct vehicle is selected and ignition shows ON verify Bluetooth is enabled from the Coretex DRIVE dashboard, tap the Dashboard Menu > <i>Diagnostics</i> and verify the TMU is configured AND connected on the <i>Diagnostic</i> screen, verify ignition shows ON |
| Corrective Action | <ul style="list-style-type: none"> tap on the Information Card to dismiss verify your logs are complete and correct for the current and previous seven days if error persists contact Coretex Support |

| Code | Event Description |
|--------------------------|---|
| 2 | Engine synchronization data diagnostic |
| Description | An ELD is required to establish a link to the engine ECM, and must record an engine synchronization diagnostic event (when it loses that link for more than five seconds). |
| Causes | <ul style="list-style-type: none"> TMU is not correctly configured to read ECM data there is an ECM malfunction |
| Troubleshooting | <ul style="list-style-type: none"> from the Coretex DRIVE dashboard tap the Dashboard menu > <i>Diagnostics</i> and verify the TMU is configured AND connected on the <i>Diagnostic</i> screen, verify ignition shows ON and Odometer is displayed |
| Corrective Action | If the error persists, contact Coretex Support . There may be a Bluetooth issue, or a wiring/configuration issue related to the TMU/ECM connection. |

| Code | Event Description |
|--------------------------|--|
| 3 | Missing required data elements data diagnostic |
| Description | An ELD must monitor the completeness of the ELD event record information in relation to the required data elements for each event type. It must record a missing required data element data diagnostic event for you (if any required fields are missing at the time of recording). |
| Causes | <ul style="list-style-type: none"> • GPS antenna failure • ELD <i>Sign In</i> attempt while in a building and unable to get a GPS lock • TMU recorded a status event while the vehicle was selected but is unable to read the Odometer or Engine Hours |
| Troubleshooting | Go to ELD menu > <i>View Logs</i> and verify that recent events show a Location, an Engine Hours and an Odometer value. |
| Corrective Action | <ul style="list-style-type: none"> • tap on the card to navigate to event with missing data (the event will be highlighted in a different color) • tap on the event to add the missing information and resolve the event |
| Code | Event Description |
| 4 | Data transfer data diagnostic |
| Description | The ELD will automatically test the data transfer mechanism every seven days. A data transfer data diagnostic event is triggered when the automatic test fails. |
| Causes | <ul style="list-style-type: none"> • poor or no cellular coverage when on a trip • Airplane mode is enabled |
| Troubleshooting | <ul style="list-style-type: none"> • verify the cellular signal is available • verify that Airplane mode is disabled |
| Corrective Action | <ul style="list-style-type: none"> • enable Bluetooth • disable Airplane mode • restart the mobile device • Sign out and Sign in • if the error persists contact Coretex Support |
| Code | Event Description |
| 5 | Unidentified driving records data diagnostic |
| Description | If more than 30 mins. of driving in a 24 hour period shows as 'unidentified driver' on the ELD, it must detect and record an <i>unidentified driving record data diagnostic</i> event. The data diagnostic indicator must be turned on for all drivers logged into that ELD for the current 24 hour period and the following seven days. |
| Causes | <ul style="list-style-type: none"> • vehicle was used by driver without the driver signing into Coretex DRIVE • Bluetooth connection failed • Coretex DRIVE app failed |
| Troubleshooting | Always sign in and select the vehicle in Coretex DRIVE before using the vehicle. |
| Corrective Action | <ul style="list-style-type: none"> • tap on the Unidentified Driver card to review • accept all records that belong to you <p>The Information Card will clear when all records have been either accepted by yourself, or rejected (outstanding unidentified driving records will automatically be rejected after you <i>Sign Out</i>).</p> |

Malfunction events

Malfunction events are when the ELD detects technical compliance issues.

You must:

- notify the motor carrier within 24 hours
- if the malfunction persists, reconstruct a paper record duty status for the current 24 hours and the last seven days
- keep paper logs until the ELD is serviced and brought back into compliance



The motor carrier **MUST** repair, replace, or service the ELD unit within eight days.



Refer to Section 49 CFR 395.34(c) of the FMCSA regulations.

In this section:

P – Power compliance

L – Positioning compliance

E – Engine synchronization compliance

R – Data recording compliance

T – Timing compliance

S – Data transfer compliance

Malfunction codes

| Code | Event Description |
|--------------------------|---|
| P | Power compliance |
| Description | An ELD must monitor the data it receives from the engine ECM and set a <i>power compliance malfunction</i> event to identify instances when it may not have complied with the power requirements. |
| Causes | <ul style="list-style-type: none"> • Loose or faulty TMU connection to vehicle power • TMU was disconnected for vehicle maintenance |
| Troubleshooting | <p>Before leaving the yard, ensure the TMU is connected by:</p> <ul style="list-style-type: none"> • from the Coretex DRIVE dashboard, tapping Dashboard menu > Diagnostics and verify the TMU is configured AND connected |
| Corrective Action | Contact Coretex Support . The TMU is likely to be offline or was unplugged for service. |
| Code | Event Description |
| E | Engine synchronization compliance |
| Description | An ELD must set an <i>engine synchronization compliance malfunction</i> , if connectivity to any of the required data sources is lost for more than 30 mins during a 24 hour period (aggregated across all driver profiles). |
| Causes | <ul style="list-style-type: none"> • TMU not correctly configured to read ECM data • vehicle does not support CAN protocols |
| Troubleshooting | <ul style="list-style-type: none"> • from the Coretex DRIVE dashboard tap the Dashboard menu > Diagnostics and verify that the TMU is configured AND connected. • on the <i>Diagnostic</i> screen, verify that Ignition shows ON and that Odometer is displayed |
| Corrective Action | <ul style="list-style-type: none"> • verify Airplane mode is disabled • verify Bluetooth is enabled • restart the mobile device • if the error persists, contact Coretex Support |

| Code | Event Description |
|--------------------------|---|
| T | Timing compliance |
| Description | The ELD must periodically cross-check its time with an external UTC source, and must record a timing compliance malfunction when it can no longer meet the underlying timing requirement of less than 10 minutes of time deviation. |
| Causes | <ul style="list-style-type: none"> mobile device is not set to automatic time synchronization GPS signal is unavailable |
| Troubleshooting | <ul style="list-style-type: none"> always set the mobile device to use automatic time synchronization from the Coretex DRIVE dashboard tap the Dashboard menu > Diagnostics and verify that the TMU is configured AND connected on the Diagnostic screen, valid Latitude and Longitude co-ordinates are displayed for Position (indicating GPS signal) |
| Corrective Action | <ul style="list-style-type: none"> go to the mobile device Android Settings and ensure that date/time is set to automatic time synchronization if the error persists, contact Coretex Support |

| Code | Event Description |
|--------------------------|--|
| L | Positioning compliance |
| Description | An ELD must monitor elapsed time during periods when the ELD fails to acquire a valid position measurement within five miles of the vehicle's movement (when such elapsed time exceeds a cumulative 60 mins over a 24 hour period, the ELD must set and record a <i>Positioning compliance</i> malfunction). |
| Causes | Antenna failure. |
| Troubleshooting | <ul style="list-style-type: none"> from the Coretex DRIVE dashboard tap on Dashboard menu > Diagnostics from the ELD dashboard and verify Position shows valid Latitude/Longitude co-ordinates |
| Corrective Action | Replace the antenna or contact Coretex Support . |

| Code | Event Description |
|--------------------------|--|
| R | Data recording compliance |
| Description | An ELD must monitor its storage capacity and integrity, and must detect a <i>data recording compliance</i> malfunction, if it can no longer: <ul style="list-style-type: none"> record or retain required events retrieve recorded logs that are not otherwise cataloged remotely by the motor carrier |
| Causes | Memory or ELD performance issues |
| Troubleshooting | Contact Coretex Support |
| Corrective Action | Contact Coretex Support |

| Code | Event Description |
|--------------------------|---|
| S | Data transfer compliance |
| Description | <p>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.</p> <p>If the ELD stays in the unconfirmed data transfer mode following the next three consecutive monitoring checks, the ELD must detect and record a <i>data transfer compliance</i> malfunction. This fault auto-resolves when the device begins to communicate successfully.</p> |
| Causes | <ul style="list-style-type: none"> • poor or no cellular coverage when on a trip • Airplane mode is enabled |
| Troubleshooting | <p>Verify that:</p> <ul style="list-style-type: none"> • cellular signal is available • Airplane mode is disabled |
| Corrective Action | <ul style="list-style-type: none"> • disable Airplane mode. • restart mobile device • if the error persists, contact Coretex Support |

Appendix:B - Dashboard menu

The **Dashboard menu** refers to a dropdown menu that is available by tapping the vertical ellipsis icon in the top right of the screen.

The Dashboard menu is available from the:

- main **Coretex DRIVE** dashboard or *Home* screen

Off the main dashboard screen

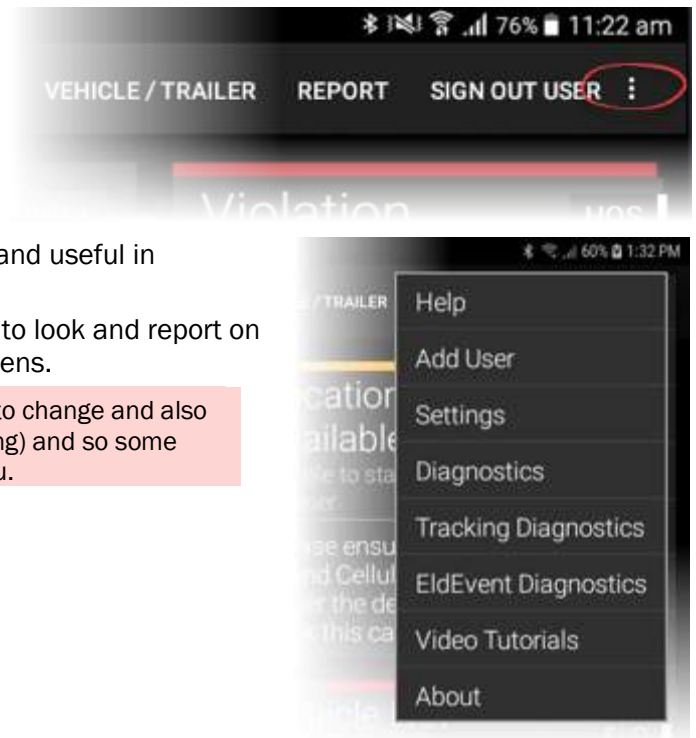
Coretex DRIVE provides a number of options from a **Dashboard menu**. This can be activated by tapping the vertical ellipsis icon in the top right of the **Home** screen.

They are mainly options to examine diagnostics and useful in investigation of connection and other problems.

As a driver you may be asked by your supervisor to look and report on some of the information in these diagnostic screens.



Options on this **Dashboard menu** are subject to change and also configurable on an account basis (policy setting) and so some options described may not be available for you.



Help (configurable by policy)

Not shown on the example menu above. **Help** is an option configurable by policy and can be customised to point to a URL of your choice, for customised online documentation and/or video training.

At present, built in online help documentation is not provided by default.

Add User

Provides access to add a co-driver into the current session. An alternative access to tapping the **Add Driver** tile.

Settings (System)

System settings:

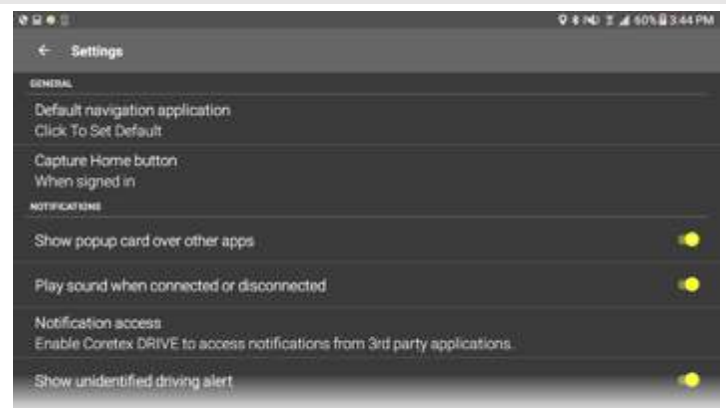
GENERAL

Default navigation system

Non-ELD setting for specifying default application to use in Jobs module address identification function.

Capture Home button

Non-ELD setting to set when you tap the **Home** key where it directs flow. It can return you to the main mobile device desktop screen under conditions you specify here.



System settings:

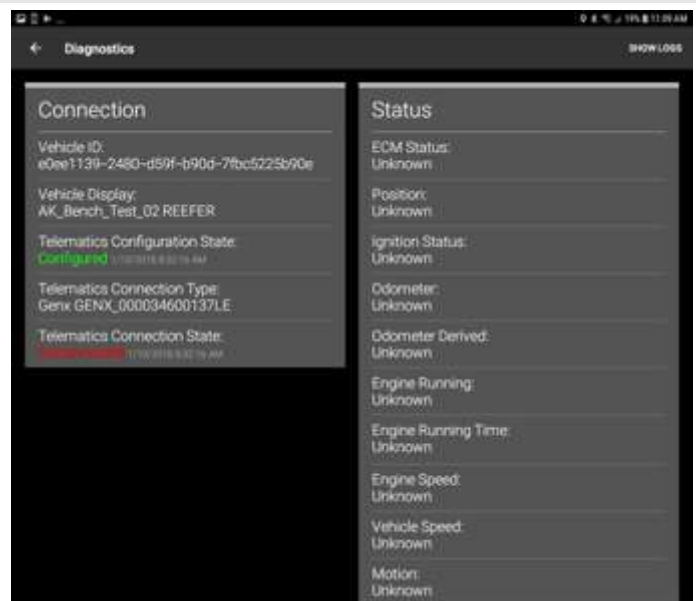
NOTIFICATIONS

| | |
|--|---|
| Show popup card over other apps | <p>Set this slider control on to:</p> <ul style="list-style-type: none"> allow Information Cards when issued, to popup in a window, above any other running apps |
| Play sound when connected or disconnected | <p>Set this slider control on to:</p> <ul style="list-style-type: none"> have a sound be emitted when connecting/ disconnecting to/from the TMU |
| Notification access | <p>Accesses Android settings and the following notification access needs to be enabled in a one off procedure:</p> <ul style="list-style-type: none"> enable Coretex DRIVE to access notifications from 3rd party applications |
| Show unidentified driving alert (ELD specific) | <p>Set this slider control on to:</p> <ul style="list-style-type: none"> ensures that Information Cards are issued to the mobile device during periods of unidentified driving |

Diagnostics

Tap on **Dashboard menu** > Diagnostics to present a view screen with:

- recorded useful telemetric connection data with regards to the vehicle and TMU (incl. GenX and V301)
- currently accessible status of the ECM, Ignition, Odometer and other useful settings
- tap **SHOW LOGS** menu bar link to present a window feeding the raw logs coming from the TMU



Connection

Latest useful diagnostics current connection status tells you:

| | |
|--------------------------------|--|
| Vehicle ID | Unique Vehicle ID |
| Vehicle Display | Registered name of the vehicle |
| Telematics Configuration State | If a Bluetooth 48-bit MAC address is detected as being configured and ready for use with the TMU, this entry highlights Configured in green. Conversely, it highlights Not Configured in red to alert you to connection problems to resolve. |
| Telematics Connection Type | Type of TMU connection detected (make/model of TMU). |
| Telematics Connection State | Overall connection status with regards to the Bluetooth communications from the TMU. When connected and transmitting readings it displays Connected in green. Conversely, it highlights Disconnected in red when a connection is not operating. |

Status

Latest useful diagnostics status readings being received:

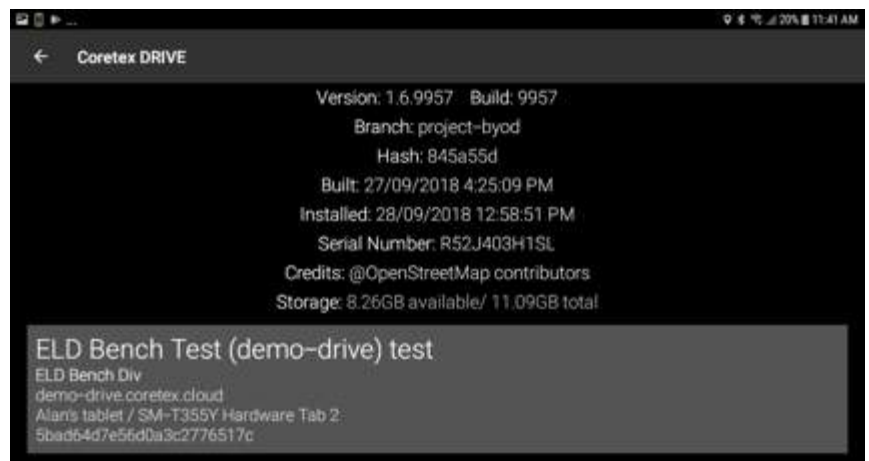
| | |
|---------------------|--|
| ECM Status | Latest status of the <i>Engine Control Module</i> unit in the vehicle, On/Off/Unknown. |
| Position | Latest Longitude/Latitude co-ordinates received from vehicle. |
| Ignition Status | Latest status of ignition received from vehicle, On/Off/Unknown. |
| Odometer reading | Latest odometer reading submitted. |
| Odometer Derived | If the vehicle supports derived odometer readings the latest received is displayed here. |
| Engine Running | Latest On/Off/Unknown status of the operation of the engine. |
| Engine Running Time | Latest Overall Engine Hours determined for the vehicle. |
| Engine Speed | Latest recorded speed (RPM) of the vehicle. |
| Vehicle Speed | Latest recorded speed (mi/hr or km/hr) of the vehicle. |
| Motion | Latest recorded motion status. Moving/Stationary/Unknown. |

About Coretex DRIVE

Tap on **Dashboard menu** >

About to present a view screen with:

- a page listing useful system information on the account used, version and build numbers of the **Coretex DRIVE** application, when it was installed and the storage capacity and serial number of the mobile device



Appendix:C - ELD DRIVER PORTAL in Coretex 360

Driver access to ELD DRIVER PORTAL



For customers configured for use of ELD (*Electronic Logging Device*) then drivers use Android mobile devices and the **Coretex DRIVE** application to manage their daily trips, with two-way integration with **Coretex 360**. Some drivers may also wish to sign in to **Coretex 360** directly to work with their daily driver logs.

Drivers signing in to Coretex 360

Drivers have the facility to sign in to **Coretex 360** itself and access a **DRIVER PORTAL**. This provides restricted access to the system with the objective of:

- allowing a driver to view and report on only their own driver logs
- allowing a driver to certify their previous days' logs
- allowing a driver to make driver edits in their own driver logs

From the Sign-in screen for Coretex 360:

- sign-in with your **Driver** credentials to directly present the DRIVER PORTAL

ELD DRIVER PORTAL



For customers configured for use of ELD (*Electronic Logging Device*) then drivers use Android tablets and the **Coretex DRIVE** application to manage their daily trips, with two-way integration with **Coretex 360**. Some drivers may also wish to sign in to **Coretex 360** directly to work with their daily driver logs.

Drivers access

Drivers have the facility to sign in to **Coretex 360** itself and access a **DRIVER PORTAL**.

This provides restricted access to the system with the objective of:

- allowing you to view and report on only your own driver logs
- allowing you to certify your previous days' logs
- allowing you to make driver edits in your own driver logs

From the Sign-in screen for Coretex 360:

- sign-in with your **Driver** credentials to directly present the **DRIVER PORTAL**



You can only access your own driver logs.

Supervisor/Administrator access

Supervisors/Administrators can access daily logs for all drivers under their administration via a facility in **Coretex 360**. This is for the purposes of examining the logs and making *Supervisor Proposed Edits*. These get sent down to the driver for their consideration.



A Supervisor/Administrator accesses ELD functionality only in **Coretex 360**. For details refer to:

- Coretex 360: ELD Administration Guide

DRIVER PORTAL – Driver Hours

After sign-in you are presented with the **DRIVER PORTAL – Driver Hours** screen:

| Date | Driver ID | Driver | Vehicle | Violations | Hours Worked | Driving | On Duty | Sleeper | Off Duty | Distance |
|------------|-----------|-------------|---------|------------|--------------|---------|---------|---------|----------|----------|
| 04/09/2018 | 102345 | Rumer Joyce | AJ785 | | 00:56 | 00:05 | 00:51 | 00:00 | 13:38 | 0.6 mi |
| 04/08/2018 | 102755 | Rumer Joyce | AJ785 | | 02:33 | 01:11 | 01:22 | 00:00 | 12:01 | 0.1 mi |
| 04/07/2018 | 102222 | Rumer Joyce | AJ785 | | 10:06 | 03:07 | 06:59 | 00:00 | 04:28 | 89.5 mi |
| 04/06/2018 | 102779 | Rumer Joyce | AJ785 | | 04:07 | 04:07 | 00:00 | 00:00 | 10:26 | 0.0 mi |

These are your daily logs for your recent trips and by default are sorted with the most recent first. Here you can filter by date range and toggle the date sorting from descending to ascending date.

Toolbar - Driver Logs

The main screen can fill with hundreds of drivers' log entries and so, as an administrator you will want to filter to narrow down to the entries you want to work with.

Search for Word(s)

You can search and filter on the list to narrow down the selection to find a specific driver's records.

Search for specific log entries for drivers by:

- specifying characters from their **Driver ID**, **Driver** name/s and/or **Vehicle**'s in **Search for Word(s)**

Filter by Log Event

Filter drivers' logs displayed in the list by:

- selecting event types (using the multi-select dropdown) for all events you want to filter for

Filter by Date From/To

Filter drivers' logs displayed in the list by:

- selecting entries with event dates in your specified range



Sample filter toolbar:

Some log entries may require urgent attention (such as violations).

Violations in Driver Logs

For both drivers' accessing their drivers' logs in the **DRIVER PORTAL** and for supervisors reviewing drivers' logs, violations come through and are indicated for a particular driver/date with a *Violation (awaiting review)* icon in a column called **Violations**:

Violation icons in Driver Logs

| Icon | Description |
|---|--|
|  | Violation (awaiting review) is outstanding and requires attention by supervisor and driver. |
|  | Violation (reviewed) has been reviewed by a supervisor. |

Sample Driver Log list screen (with unreviewed violation entries):

| Date | Driver ID | Driver | Vehicle | Violations | Hours Worked | Driving | On Duty | Sleeper | Off Duty | Distance |
|------------|-----------|-------------|---------|---|--------------|---------|---------|---------|----------|----------|
| 04/09/2018 | 102345 | Rumer Joyce | AJ785 | | 00:56 | 00:05 | 00:51 | 00:00 | 13:38 | 0.6 mi |
| 04/08/2018 | 102755 | Rumer Joyce | AJ785 |  | 02:33 | 01:11 | 01:22 | 00:00 | 12:01 | 0.1 mi |
| 04/07/2018 | 102222 | Rumer Joyce | AJ785 | | 10:06 | 03:07 | 06:59 | 00:00 | 04:28 | 89.5 mi |
| 04/06/2018 | 102779 | Rumer Joyce | AJ785 | | 04:07 | 04:07 | 00:00 | 00:00 | 10:56 | 0.0 mi |

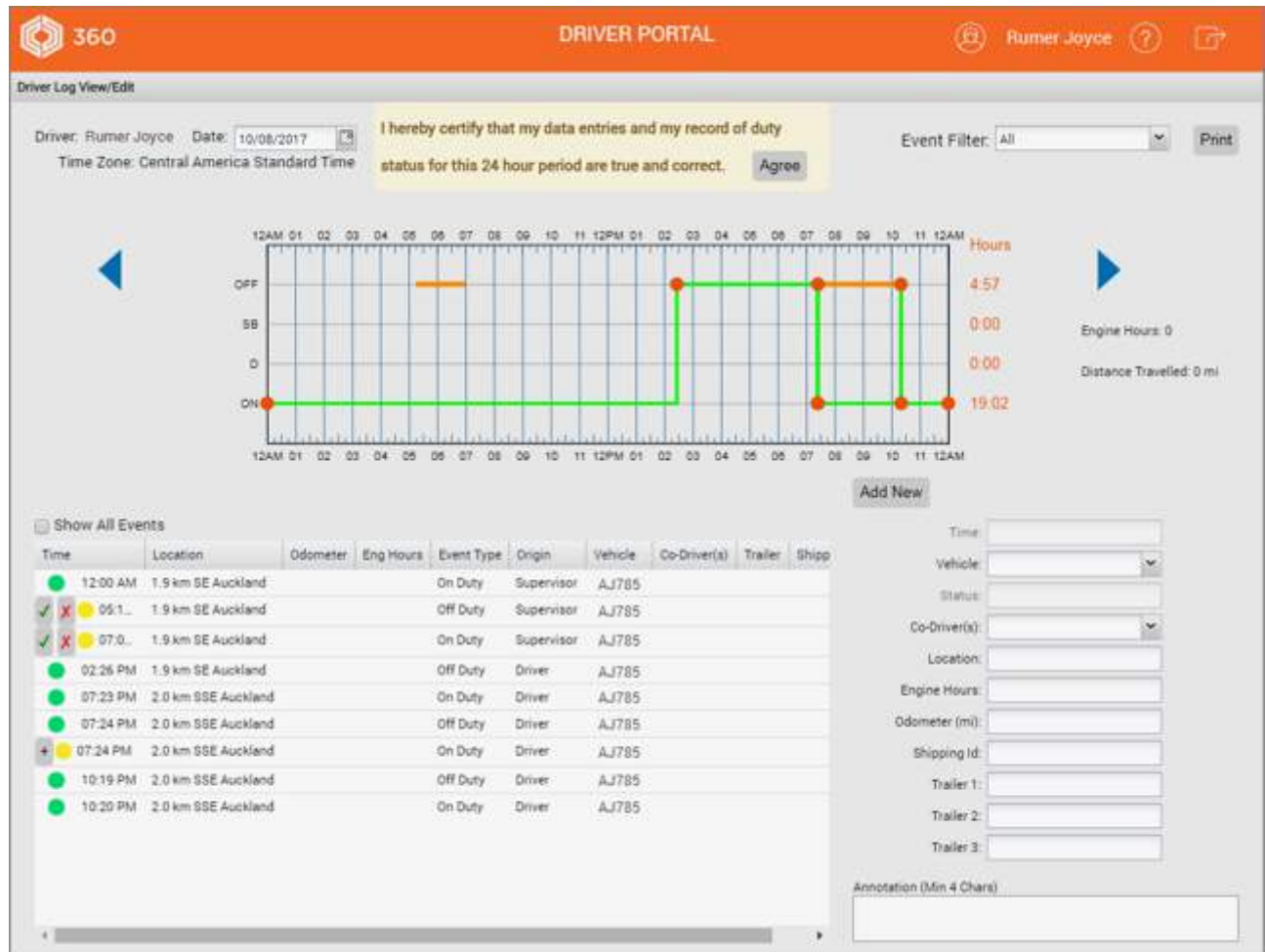
Appearance of the violation icon (for a given driver/date) indicates that one or more of the daily entries beneath it, are unreviewed violation entries.

DRIVER PORTAL – Driver Log View/Edit

To access the Driver Log View/Edit screen:

- double-click on one of your log entries (or single-click and click **View/Edit Log** button)

Sample Driver Log View/Edit screen:



The **DRIVER PORTAL** allows you to:

- examine your driver log entries for the current day, and clicking on the blue arrows to allow you to navigate to the previous seven days' worth of entries (or select a date from the Date calendar control)
- use the **Event Filter** dropdown to apply filters on the display in the graph
- use the **Show All Events** checkbox to filter the events list and more easily find events you want to edit
- editing your existing driver log status entries and add new ones (if needed to add to a day's records)
- certify a day's logs as being true and correct for the currently selected day

Violations in the Driver log View/Edit

Violations in your driver's log require special attention from a supervisor and yourself!

Double-click on the violation list entry to present the detail Driver Log View/Edit for the date:

- to present the *Drivers Log View/Edit* screen
- violation entries are listed with a red dot icon to the left

Sample Driver Log View/Edit screen:

The screenshot shows the 'Driver Log View/Edit' interface. At the top, there's a timeline from 12 AM to 12 AM. Below it, a table lists events. The first column 'Time' shows times from 12:00 AM to 09:40 AM. The second column 'Location' shows 'Dertth' and '0.8 mi S Auckland'. The third column 'Odometer' and 'Eng Hours' are empty. The fourth column 'Event Type' lists 'On Duty', 'Ruleset Change - On Duty', 'Bench 02 Inspection Complete', 'Driving', '14h On Duty Time Per Shift Exceeded', and '16h Elapsed Time Per Shift Exceeded'. The fifth column 'Origo' shows 'Driver' and 'Auto'. The sixth column 'Vehicle' shows 'Bench 02'. The seventh column 'Co-Driver(s)' is empty. The eighth column 'Trailer' is empty. The ninth column 'Shipping Id' shows 'DEANOS CARGO'. The last column 'Shipping Id' is empty. To the right of the table is a form with fields for 'Time', 'Vehicle', 'Status', 'Co-Driver(s)', 'Location', 'Engine Hours', 'Odometer (km)', 'Shipping Id', 'Trailer 1', 'Trailer 2', 'Trailer 3', and 'Annotation (Min 4 Char)'. The 'Time' field is set to 09:40 AM. The 'Vehicle' field is set to 'Bench 02'. The 'Status' field is set to 'On Duty'. The 'Co-Driver(s)' field is set to 'DEANOS CARGO'. The 'Location' field is set to '0.8 mi S Auckland'. The 'Engine Hours' field is set to '0.8 mi S Auckland'. The 'Odometer (km)' field is set to '0.8 mi S Auckland'. The 'Shipping Id' field is set to 'DEANOS CARGO'. The 'Trailer 1' field is set to 'DEANOS CARGO'. The 'Trailer 2' field is set to 'DEANOS CARGO'. The 'Trailer 3' field is set to 'DEANOS CARGO'. The 'Annotation (Min 4 Char)' field is empty.

| Time | Location | Odometer | Eng Hours | Event Type | Origo | Vehicle | Co-Driver(s) | Trailer | Shipping Id |
|----------|-------------------|----------|-----------|-------------------------------------|--------|----------|--------------|---------|--------------|
| 12:00 AM | Dertth | | | On Duty | Driver | | | | |
| 09:25 AM | 0.8 mi S Auckland | | | On Duty | Driver | | | | DEANOS CARGO |
| 09:26 AM | 0.8 mi S Auckland | | | Ruleset Change - On Duty | Driver | | | | DEANOS CARGO |
| 09:26 AM | 0.8 mi S Auckland | | | Ruleset Change - On Duty | Driver | | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | Bench 02 Inspection Complete | Auto | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | Driving | Driver | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | 14h On Duty Time Per Shift Exceeded | Auto | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | 16h Elapsed Time Per Shift Exceeded | Auto | Bench 02 | | | DEANOS CARGO |

Supervisor changes to violation entries

Supervisors have access to make the following changes to a driver's violation daily log entry:

- review the entry by selecting it and adding an annotation or comment
- delete the entry if it is not relevant to the driver

Reviewing the violation

Supervisors can click on a driver's violation entry to present an edit panel to the right:

- enter a comment (4 characters or more)
- click Save to register it has been reviewed

Supervisors will want to comment on driver's violations as evidence of managing their behaviour with comments such as:

- Short term one off. Spoke to driver about it
- 3rd warning given to driver

Sample edit screen for a violation entry:

Driver Log View/Edit

12:00 AM 01 02 03 04 05 06 07 08 09 10 11 12 PM 01 02 03 04 05 06 07 08 09 10 11 12 AM

Show All Events

| Time | Location | Odometer | Eng Hours | Event Type | Origin | Vehicle | Co-Driver(s) | Trailer | Shipping Id |
|----------|-------------------|----------|-----------|-------------------------------------|--------|----------|--------------|---------|--------------|
| 12:00 AM | Dertbw | | | On Duty | Driver | | | | |
| 09:25 AM | 0.8 mi S Auckland | | | On Duty | Driver | | | | DEANOS CARGO |
| 09:25 AM | 0.8 mi S Auckland | | | Ruleset Change - On Duty | Driver | | | | DEANOS CARGO |
| 09:26 AM | 0.8 mi S Auckland | | | Ruleset Change - On Duty | Driver | | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | Bench 02 - Inspection Complete | Auto | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | Driving | Driver | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | 14h On Duty Time Per Shift Exceeded | Auto | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | 15h Elapsed Time Per Shift Exceeded | Auto | Bench 02 | | | DEANOS CARGO |

Add New

*Violation Review Comment (Min 4 Chars)

Delete Violation
Check to remove this violation from all screens and reports.
This action cannot be reversed.

Save Cancel

Deleting the violation

To delete the violation from the driver's log:

- click the **Delete Violation** checkbox
- click **Save** to remove it from the list

Deleting a violation entry:

Driver Log View/Edit

12:00 AM 01 02 03 04 05 06 07 08 09 10 11 12 PM 01 02 03 04 05 06 07 08 09 10 11 12 AM

Show All Events

| Time | Location | Odometer | Eng Hours | Event Type | Origin | Vehicle | Co-Driver(s) | Trailer | Shipping Id |
|----------|-------------------|----------|-----------|-------------------------------------|--------|----------|--------------|---------|--------------|
| 12:00 AM | Dertbw | | | On Duty | Driver | | | | |
| 09:25 AM | 0.8 mi S Auckland | | | On Duty | Driver | | | | DEANOS CARGO |
| 09:25 AM | 0.8 mi S Auckland | | | Ruleset Change - On Duty | Driver | | | | DEANOS CARGO |
| 09:26 AM | 0.8 mi S Auckland | | | Ruleset Change - On Duty | Driver | | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | Bench 02 - Inspection Complete | Auto | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | Driving | Driver | Bench 02 | | | DEANOS CARGO |
| 09:40 AM | 0.8 mi S Auckland | | | 14h On Duty Time Per Shift Exceeded | Auto | Bench 02 | | | DEANOS CARGO |

Add New

*Violation Review Comment (Min 4 Chars)
Invalid violation, to be deleted

☒ Delete Violation
Check to remove this violation from all screens and reports.
This action cannot be reversed.



Save Cancel

Reviewed violations

When all violation entries have been reviewed or deleted then upon return to the *Driver Log list* screen the *Violation (awaiting review)* icon is replaced with an *Violation (reviewed)* icon:



Sample *Driver Log list* screen (with violations all reviewed or deleted):

| Date ▼ | Driver ID | Driver | Vehicle | Violations | Hours Worked | Driving |
|------------|-----------|-------------|---------|--|--------------|---------|
| 04/09/2018 | 102345 | Rumer Joyce | AJ785 |  | 00:56 | 00:05 |
| 04/08/2018 | 102755 | Rumer Joyce | AJ785 |  | 02:33 | 01:11 |
| 04/07/2018 | 102222 | Rumer Joyce | AJ785 | | 10:06 | 03:07 |
| 04/06/2018 | 102779 | Rumer Joyce | AJ785 | | 04:07 | 04:57 |

Reporting violations



Violations are reported in the following two Coretex 360 reports and available from the *Reports Manager*:

- REPORTS > Driver Hours Reports > Driver ELD Log
- REPORTS > Driver Hours Reports > Violations

For details refer to the *Coretex 360 Reports: User Guide*

Driver log events listing

All status events for you (as the driver) and currently selected day are sorted by time of day starting from midnight.

Each entry has a status icon to the left:





Active event entry generated by you the driver, or was auto-generated, or generated by a supervisor/administrator and accepted by you










Your supervisor may assign periods of unidentified driving and other events to you (these are supervisor proposed edits).

You need to consider them and determine if they are applicable to you or not. If not, you can reject them and the supervisor can look at them again, and perhaps, assign them to a different driver.

You can accept or reject these proposed edits (depending on whether they are applicable to you or not) by:

- clicking  to accept the proposed edit
- clicking  to reject it

| Show All Events | |
|--|-----------------|
| Time | Location |
|  12:00 AM | 1.9 km SE Auckl |
|  01:08 AM | 1.9 km SE Auckl |
|  04:20 AM | 1.9 km SE Auckl |
|  05:1... | 1.9 km SE Auckl |
|  07:0... | 1.9 km SE Auckl |
|  07:30 AM | 1.9 km SE Auckl |
|  10:35 AM | 1.9 km SE Auckl |



Two meanings at present:

- a status event entry you have rejected – it will be reviewed by your supervisor later (for possible reassignment)
- it is a violation event

Filtering the events graph and list

Separate filters are provided for filtering and simplifying the graph and events list.

Graph filter by event status

All your driver log entries, for events in the currently selected day are listed in the table, and displayed on the graph.

To simplify the graph display, these can be filtered by event status using the **Event Filter** dropdown.



This does not filter the status events in the list.



| Status | Description |
|-----------------|---|
| Active | Your log entries that are active and were generated today or in the previous seven days |
| Inactive | Your log entries that are inactive and older than today and the previous seven days |
| Proposed | Your log entries that have been edited, either by you yourself, or by a supervisor |
| Rejected | Log entries that have been sent to you but you rejected them (for the supervisor to then decide on) |

Events list filter by event status

Your events list can soon fill up with multiple screens worth of entries and so it can be useful to filter out all events that are not *On Duty* or *Off Duty*.

- tick **Show All Events** checkbox to show all events, or untick to filter and only list entries with an **Event Type** of *On Duty* or *Off Duty*

Driver Edits

When you sign in with a **Coretex 360** Driver sign in, this presents just your driver event status entries. You are free to make changes to the entries in the list, if you wish to amend details (for example, a change of event status, adding a co-driver). You can also add a new status entry.

Supervisor Proposed Edits

When a supervisor/administrator edits a driver's log entries then this creates *Supervisor Proposed Edits* that are sent to the assigned drivers logs for their consideration.

You (as the assigned driver) can review the proposed changes:

- on your tablet in **Coretex DRIVE**, or
- review and respond to them in the **DRIVER PORTAL** in **Coretex 360**

If you accept a proposed edit, then that status event entry is added to your daily log.

If you reject a proposed edit, then they are returned for further review by the supervisor/administrator who, perhaps, may reassign them to another driver.

Adding a new status event

Add mode is the default mode of the screen and this ensures the **Add New** button is displayed under the graph. If this is not showing, then the screen is in *Edit mode* and you are in the middle of an edit of an existing event entry.



To exit *Edit mode* and return to *Add mode*:

- click **Save** or **Cancel** (under the Annotation field) to finish working with the existing event entry being edited

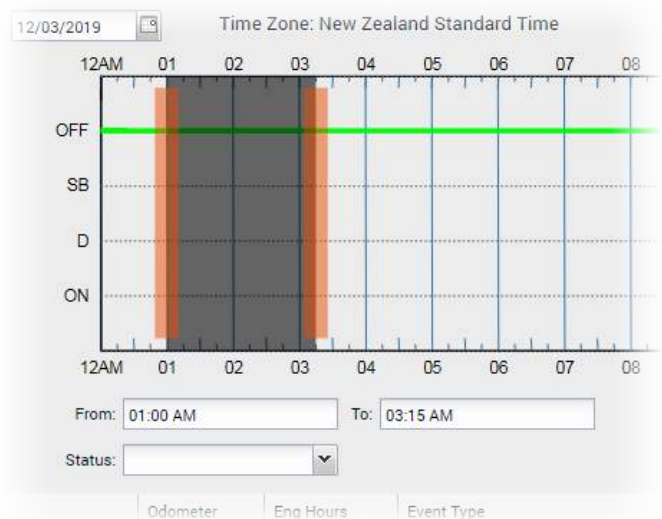
To add a new event entry:

- click **Add New** to refresh the screen and enter required fields for new status event
- ensure you enter an annotation or comment (between 4-60 characters) to explain the need for the new entry

You can use the graph to define the time period of the event.

To specify the time period:

- drag the vertical start and end vertical bars to define the accurate period of time
- ~ or ~
- enter the start and end times in the time period entry boxes below the graph
- select the driver status (from **Status** dropdown) to apply the correct status to the new event



Editing a status event

You can now edit *Driver Log* entries that are in “in motion” statuses (**Driving**, **Yard Move**, **Personal Conveyance**) and change their status, and the time span they cover.

To make a *Driver Edit*:

- click on the event in the list to be edited and the fields to the right are populated with the current event entry
- make the required changes to the event fields
- optionally you can change the driver duty status for the period by clicking on one of the valid statuses listed in the **Status** dropdown
- ensure you enter an annotation or comment (between 4-60 characters) to explain the need for the *Driver Edit*



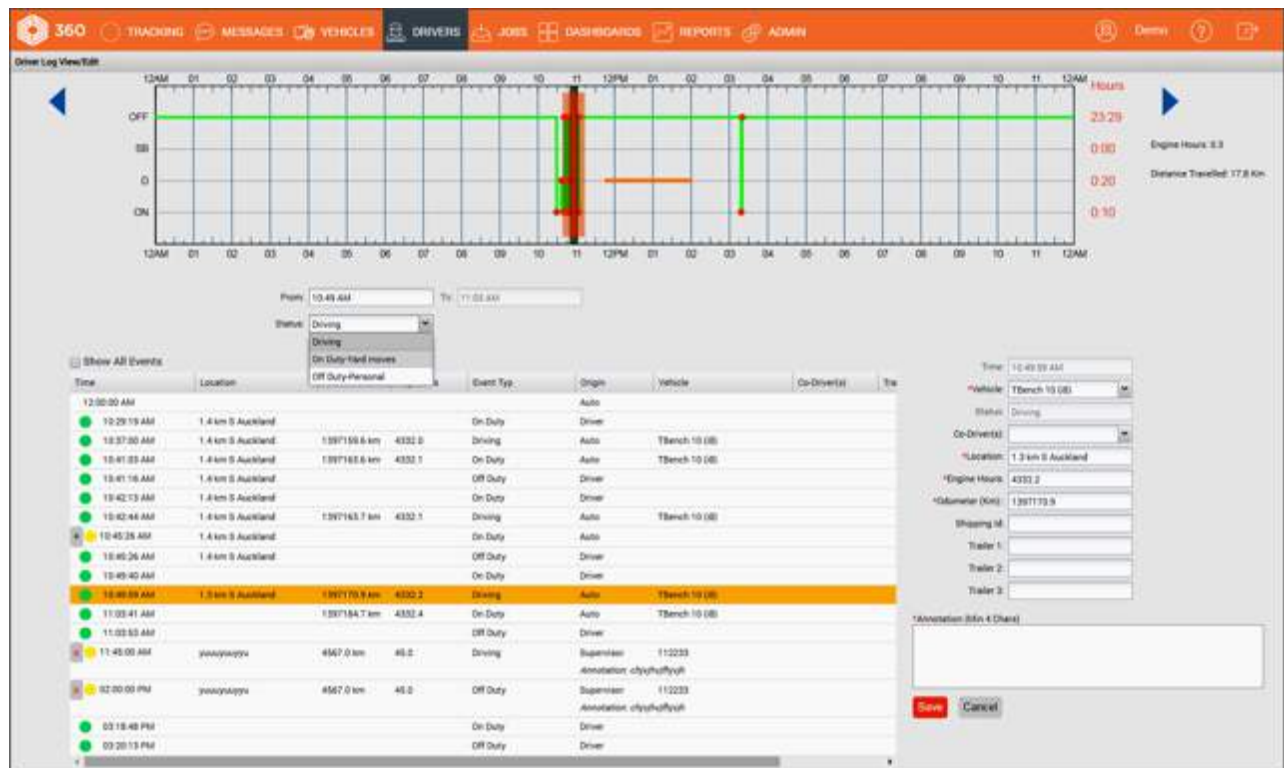
Log entries with **Event Type: Driving** and **Origin: Auto** (i.e. auto-driving events) cannot have their timespan shortened, and can have their status changed only to **On Duty (Yard Moves)** or **Off Duty (Personal Conveyance)**

Support is provided for secondary statuses of:

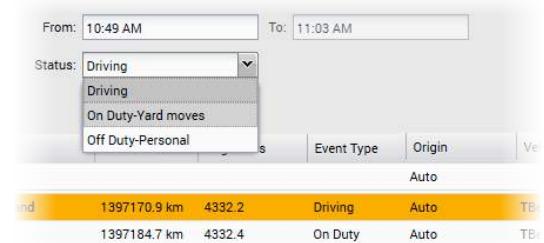
- **Yard Move**
- **Personal Conveyance**
- **Waiting, Off Duty (Break)** – these are custom statuses, required for some rulesets and enabled by the prevailing one active

The list of statuses available to the driver will only be ones applicable, that are:

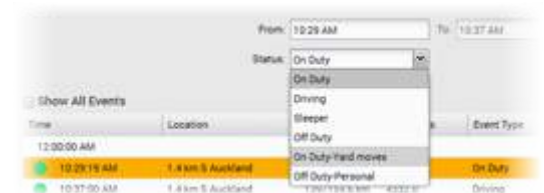
- enabled under their current ruleset
- enabled for the driver (e.g. the driver is enabled for Yard Move, Personal Conveyance etc.)
- are allowed by business rule, when editing a particular event



Auto-driving events with an **Event Type: Driving** present a status menu, such as the example shown here.



Other driving events (e.g. On Duty, Off Duty) present a different range of statuses you can choose to change the entry to.



To save changes:

- click **Save** to save and the edited entry will be sent down to your tablet



You cannot accept unidentified driving events; this must be done from your tablet in **Coretex DRIVE**. However, if you have previously rejected such events on the tablet, a supervisor/administrator can assign them as proposed edits (and assigned to another driver).

Certifying your driver logs

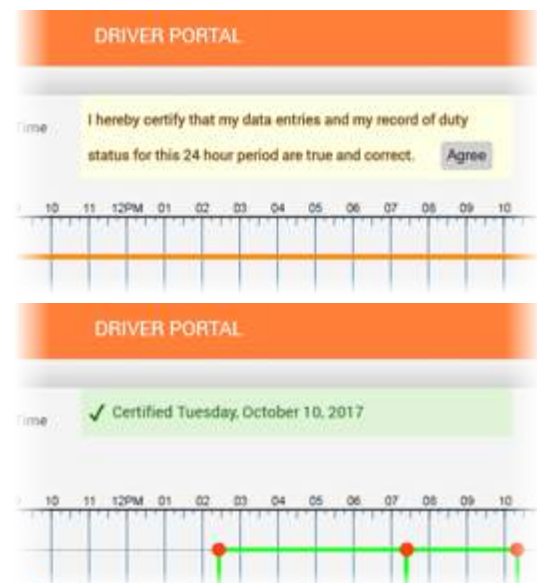
You can review your driver logs, day by day for the current day and any previous day. Once you have checked that a day's logs are true and correct you are required to certify them which signs them off as being completed.



From the **DRIVER PORTAL** you can certify for any previous day, whereas on the tablet in **Coretex DRIVE** you are limited to the previous seven days.

Most drivers will perform this on their tablets in **Coretex DRIVE** but you can do it from the **DRIVER PORTAL** by clicking on **Agree**:

Once certified that day's log will show with a green tick stating and stamped with the date it was done.



Printing your daily drivers log view

You can output a report of the driver's log for the currently selected driver and day by clicking the **Print** button on the *Driver Log View/Edit* screen.

Printing the Driver ELD Log

Summary description: *Driver ELD Log* report outputs all ELD event log details to a report with a bar graph and a list of the events – each page shows the logs for a particular driver and day.

Business benefit

- allows a driver to print off their own logs for review
- allows a supervisor/administrator to print a report of the logs from drivers under their administration and to allow decisions to be made (e.g. proposed edits to assign driving time to another driver)
- lists a driver's violation entries (highlighted in sample report shown here)

Usage

- for Drivers: from the **DRIVER PORTAL** > **Print** button
- for Supervisors/Administrators: click on *Reports* > *Create* > *Driver Hours Reports* > *Driver ELD Log*
- also available from *DRIVERS* > *Driver Hours/ELD* > (select driver) > *Driver Log View/Edit* (**Print** button) for a supervisor/administrator
- you can create a hard copy, export to Word and output to your printer, or print directly from the browser

To print a report of the currently selected day's logs:

Running the report presents a *Driver ELD Log Report* selection screen.

This defaults to the:


- currently selected driver
- a time period of the 24 hours of yesterday
- ELD country of US (can change to Canada), determines the regulatory format of report header

- not to include reporting on days with no ELD events
- not to include inactive events (e.g. audit copies of originals of edited entries)
- not to include internal ELD events (e.g. violations)
- not to include Geofence names

Hence, you may run the report with these defaults or change them as required.

Selection criteria

Make the following selections on the *Driver ELD Log Report* selection screen:


| | |
|--|--|
| Driver Group | <ul style="list-style-type: none"> • can be run for a single or all available driver groups (default: All) • restrict the dropdown list of drivers to select from by specifying a driver group and then choosing one or more drivers |
| Driver  | <p>NOT AVAILABLE for Drivers printing from the DRIVER PORTAL</p> <ul style="list-style-type: none"> • select one, multiple or all drivers (default is All) • restrict the dropdown list of drivers to select from by specifying a driver group and then choosing one or more drivers (using the multi-select feature) <p>NOT AVAILABLE for Drivers printing from the DRIVER PORTAL</p> |
| A Start Date and End Date date/time to select from | <ul style="list-style-type: none"> • defaults to a Start Date of yesterday • defaults to a Start Date time of midnight • defaults to an End Date of today • defaults to an End Date time of midnight |
| Include NO ELD Event Day | <ul style="list-style-type: none"> • tick to include output for days with no ELD events |
| Include Inactive Events | <ul style="list-style-type: none"> • tick to include inactive event entries |
| Include Internal ELD | <ul style="list-style-type: none"> • tick to include internal ELD event entries |
| Include Geofence Name | <ul style="list-style-type: none"> • tick to suppress the printing of Geofence names |

Report notes:

- only displays *Driver Edits* (not *Supervisor Proposed Edits*)
- this is the only report that drivers themselves can access when they sign in to **Coretex 360** and access their daily logs in the **DRIVER PORTAL**

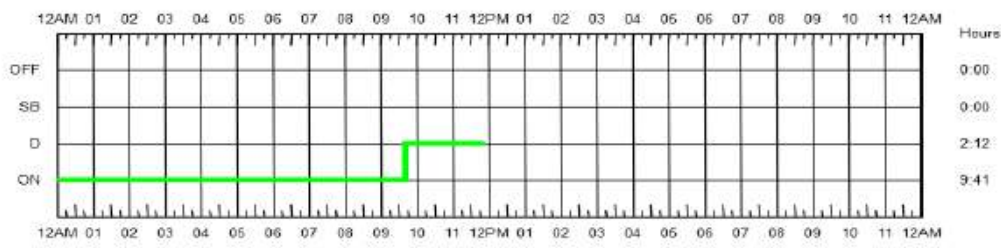
Sample Driver ELD Log Report:

Driver ELD Log Report



Created Tuesday, May 29, 2018 11:52:01 a.m. by Craig Adams

| Record Date | USDOT # | Driver License Number | Driver License State | ELD ID | Trailer ID |
|---------------------------|----------------|-----------------------|----------------------|-----------------------------|-----------------------------|
| 29/05/2018 | 435223 | 123456789 | | TMUDRI | |
| Time Zone | Driver Name | Co-Driver Name | ELD Manufacturer | Shipping ID | Data Diagnostics Indicators |
| New Zealand Standard Time | Craig Adams | | Coretex | DEANOSCARGO | No |
| 24 Hour Start Period | Driver ID | Co-Driver ID | Truck Tractor ID | Unidentified Driver Records | ELD Malfunction Indicators |
| Midnight | 90909 | | Bench 02 | No | No |
| Carrier | Total Distance | Truck Tractor VIN | Exempt Driver Status | Total Engine Hours | |
| ELD Bench | 0.0 | 1B4HS28N9YF105991 | No | | |



Certified -

| Time | Location | Odometer | Eng Hours | Event Type / Status | Origin | Vehicle |
|--|-------------------|----------|-----------|--|--------|----------|
| 29/05/2018 | | | | | | |
| 12:00:00 AM | | | | On Duty | Driver | |
| 09:25:29 AM | 0.8 mi S Auckland | | | Login | Driver | |
| 09:25:29 AM | 0.8 mi S Auckland | | | On Duty | Driver | |
| 09:25:29 AM | 0.8 mi S Auckland | | | Shipment change : No Change : DEANOS CARGO | Auto | |
| 09:26:21 AM | 0.8 mi S Auckland | | | On Duty | Driver | |
| 09:26:21 AM | 0.8 mi S Auckland | | | Operating Jurisdiction change | Driver | |
| 09:26:36 AM | 0.8 mi S Auckland | | | On Duty | Driver | |
| 09:26:36 AM | 0.8 mi S Auckland | | | Operating Jurisdiction change | Driver | |
| 09:40:24 AM | 0.8 mi S Auckland | | | Vehicle change | Driver | Bench 02 |
| 09:40:38 AM | 0.8 mi S Auckland | | | Bench 02 : Inspection Complete | Auto | Bench 02 |
| Annotation : Time taken to complete the inspection: 00:06 minutes. | | | | | | |
| 09:40:45 AM | 0.8 mi S Auckland | | | Driving | Driver | Bench 02 |
| 09:40:50 AM | 0.8 mi S Auckland | | | 14h On Duty Time Per Shift Exceeded | Auto | Bench 02 |
| Annotation : Minor issue, to be retained. | | | | | | |

* Indicates inactive events

(UTC+12:00) Auckland, Wellington

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This sample report highlights the appearance of violation entries that require urgent attention.

ELD Glossary



This glossary contains a list of many terms (including acronyms and abbreviations) that are used in dealing with the ELD functionality within **Coretex DRIVE** and **Coretex 360**.



To be used in conjunction with the *Coretex 360 Glossary*.

Coretex Platform



Our flagship application is the single point of operational truth for fleet operators. Running on any modern web browser, it incorporates all of the tracking, maintenance scheduling, job management and driver management tools required to run an efficient fleet.

From **Coretex 360**, operators can track location and speed, replay trips, define and manage geofences, control assets, interrogate triggered events, monitor driver behaviour, maintain service records, allocate jobs and much more. **Coretex 360** can be accessed via Android and iOS apps, and supports a broad range of security and permission-management features that make it suitable for both small and enterprise organisations.

Coretex DRIVE






This is a purpose-built, mobile device-based in-cab application that links drivers to vehicles and vehicles to dispatchers. Working in harmony with **Coretex 360**, **Coretex DRIVE** gives drivers the information they need to do their jobs efficiently and safely. It is built around a familiar modular app framework:



- **Coretex DRIVE** offers single pane of glass access to turn-by-turn trucking navigation, messaging, jobs, DVIR, checklists, fatigue information, ELD, real time driver feedback as well as your choice of custom applications
- **Coretex DRIVE** makes it easy to roll out Android-based mobile apps to drivers quickly and securely
- **Coretex DRIVE** is optimized to run on Coretex approved Android mobile devices







Coretex ELD Solution





The Coretex ELD Solution *provided to customers entails:*

- **Coretex DRIVE** application operating on Android mobile devices; this is configured to operate ELD functionality for the appropriate jurisdiction (e.g. USA, Canada)
- seamless communication via the internet with the vehicle's TMU
- seamless connection to the **Coretex 360** system
- supervisor access to ELD management and reports in **Coretex 360**
- driver access to limited ELD functionality called the DRIVER PORTAL in **Coretex 360**

| Generic terms | |
|---|---|
| CCMTA  | The <i>Canadian Council of Motor Transport Administrators</i> (CCMTA) coordinates all matters dealing with the administration, regulation and control of motor vehicle transportation and highway safety in Canada. Membership includes representation from provincial and territorial governments as well as the federal government of Canada. For details refer to: http://www.ccmta.ca/en/ |
| CMV | Commercial Motor Vehicle |
| DVIR | <i>Driver Vehicle Inspection Reports</i> application within Coretex DRIVE |
| ELD  North America customers only | In its simplest form, an <i>Electronic Logging Device</i> is used to electronically record a driver's <i>Record of Duty Status</i> (RODS), which replaces the paper logbook some drivers currently use to record their compliance with <i>Hours of Service</i> (HOS) requirements (in North America). |
| <p>the ELD or the ELD unit</p> <p>For Coretex, both these terms refer to the combination of the 2 components, a telematics device and an Android mobile device that together make up the hardware components of the Coretex ELD solution.</p> <ul style="list-style-type: none"> • the ELD can also refer to the “connection” between the mobile device/TMU/Coretex DRIVE, internet access through to Coretex 360. | |
| FMCSA  | <i>Federal Motor Carrier Safety Administration</i> are the lead federal government agency responsible for regulating and providing safety oversight of commercial motor vehicles (CMVs), FMCSA's mission is to reduce crashes, injuries, and fatalities involving large trucks and buses. For details refer to: https://www.fmcsa.dot.gov/ |
| FSMA | <i>FOOD SAFETY MODERNIZATION ACT</i> (FSMA). Carriers of food may need to comply with regulations to become preferred FSMA carriers. This comprises contract documentation, monitoring and control of environmental conditions, plus ELD and the full suite of fleet management features. |
| GPS | Global Positioning System |
| IoT | Internet of Things. This term is used for IoT platforms and refer to the connection of hardware, (sensors/devices), internet transmission of data, software for analyzing the data and a user interface (e.g. web-based or device app with a dashboard and controls such as Coretex DRIVE). |
| Mobile device | <i>Tablets and mobile smartphones</i> (that meet the minimum system requirements) A hardware device with a touch screen (often GPS-enabled such as TomTom or Garmin, Android tablets or certain mobile phones). The driver uses the mobile device in-cab to operate the Coretex DRIVE application during their delivery trips. |
| PIN | <i>Personal Identification Number</i> (used for signing in to Coretex DRIVE) – for sites configured for key pad PIN entry (to access Coretex DRIVE) this PIN corresponds to the Driver ID set up against the driver in Driver Manager . |
| Password | <ul style="list-style-type: none"> • for sites configured for password entry, this is in addition to PIN entry and drivers' will be required to enter their <i>Sign In – Password</i>, after entering their PIN • for sites configured for first time use of passwords, any password reset by anyone other than the driver themselves, will trigger a change of password process (either in the DRIVER PORTAL in Coretex 360 or on the mobile device when signing in to Coretex DRIVE) |
| Tablet | See Mobile device . |
| TMU | Telematics Unit |

| ELD related terms | |
|--|---|
| ADVERSE CONDITIONS | Drivers can add an annotation comment to their log to explain for delays and adverse conditions affecting their daily trip. |
| Available Drive time | A driver can only drive for a certain period of time in a day before they must stop or take a break. This is their available drive time and is displayed in green on their dashboard burndown gauge. This is used up when the driver is in a working duty status (and not only when driving). Also referred to as Drive time, Shift Time or Cycle Time. |
| 60Hrs/&days | HOS rule set that specifies that a driver may be on duty for max of 60 hours in a 7 day cycle. |
| CMV | Commercial Motor Vehicle (Truck). |
| Co-Driver | Driver who shares the responsibility for being in charge of a vehicle with another driver, only 1 driver can have a status of driving. |
| DEFER OFF DUTY  | Drivers in Canada can tap a menu bar link to present a dialogue to specify the period of time to defer from Day 1 to Day 2 (i.e. tomorrow, always the next day) Once specified calculations are revised and the driver is recommended to check their changed daily limits for drive and on duty time for the two days affected. |
| Driver certification event | Drivers are required to certify their record of duty. |
| Driver log in event | ELD event recorded to capture when a driver logs into the “ELD”. |
| Driver log out event | ELD event recorded to capture when a driver logs out of the “ELD”. |
| DRIVER PORTAL | Facility for allowing drivers to directly use Coretex 360 with a LOG IN in that allows them only to access the DRIVER PORTAL . This is the <i>Driver Log View/Edit</i> screen and is to allow them to access only their daily logs and report on them and perform some functions.  |

| | |
|--|--|
| Driver record | All events between engine power-up and engine power-down inclusive. More applicable for unidentified driving. |
| Driving limit | Maximum number of hours a driver may driver in a 24 hour period, typically 11 hours. |
| Duty status event | Identifies driver's duty status of either driving, on duty, sleeper berth, and off duty. May be manually selected by the driver or set automatically using vehicle interface. |
| ELD | An ELD is an electronic logging device that enables professional truck drivers and commercial motor carriers to collect and process a driver's <i>Hours of Service</i> (HOS) data compliance by connecting directly to the engine's ECM. Employing an ELD and doing away with paper based logs provide extensive benefits and safety improvements. |
| ELD compliance   | <ul style="list-style-type: none"> USA fleets are required to implement certified ELDs to record HOS by Dec.2017 USA fleets already equipped with electronic logging technology have until Dec.2019 to ensure compliance with the published specifications Canadian fleets are required to implement certified ELDs to record HOS by a date in the fourth quarter of 2019 (yet to be published) |
| ELD event | A discrete instance in time when ELD records data, where the events relates to driver activity, vehicle function, diagnostics, etc. |
| ELD mandate   | <p>The USA ELD mandate was published by the FMCSA in 2015 with a goal to increase safety and accountability in the trucking industry. It is a set of detailed guidelines on operation of trucks for trucking companies and their fleets and drivers. It was legislated for all drivers in the USA to comply by Dec.2017.</p> <p>The Canadian ELD mandate was published as a final draft by the CCMTA in 2017. It adopts many of the provisions of the USA regulations, but with some differences; and it is expected a compliance date in the fourth quarter of 2019 will be instigated.</p> |
| ECU, ECM, EMS | <ul style="list-style-type: none"> ECU – generic term for Electronic Control Unit, a piece of hardware in a vehicle for controlling actuators or the engine to ensure optimal performance ECM – Engine Control Module (alternative acronym for ECU) EMS - Engine Management System unit - an ECU or EMS with access to the fuel lines is then referred to a EMS |
| Engine power-down event | ELD event required to be recorded when the engine is switched off. |
| Engine power-up event | ELD event required to be recorded when the engine is switched on. |
| Hour limit | Maximum number of hours a driver may be on duty in a 24 hour period, typically 14 hours. |
| Gain time | Whenever a driver sets their duty status to a non-working status their dashboard burndown gauge turns blue to display the amount of time they must wait in order to gain additional drive, shift or cycle time. |
| HoS (Hours of Service) | Rules that specify daily and cycle limits on duty and driving time. |
| Intermediate event | ELD event required when a vehicle is in motion and a duty status event there hasn't been a duty status event recorded in an hour. |
| Logs Period Available   | <ul style="list-style-type: none"> USA: a Safety Officer may request logs be submitted from a driver with data for today and the previous 7 days they may also view this range of days on the <i>Roadside Inspection</i> screen Canada: a Safety Officer may request logs be submitted from a driver with data for today and the previous 14 days they may also view this range of days on the <i>Roadside Inspection</i> screen |
| Motor Carrier | A company that employs large trucks, buses, etc. |
| Motor Carrier Number | Number assigned to a motor carrier when they are granted an operating authority. |
| Operating Authority | Assigned by USDOT, required when a company operates inter-state. Dictates the type of business operations a motor carrier may run or cargo it may carry. |

| | |
|--|--|
| Output file   | <p>A driver's logs may be exported for further analysis by a safety officer during a <i>Roadside Inspection</i>.</p> <ul style="list-style-type: none"> USA: a Safety Officer may request from a driver a record of their driving logs. These can be generated and submitted to FMCSA with logs prepared for a period described under Logs Period Available Canada: a Safety Officer may request from a driver a record of their driving logs. These can be generated and submitted as a csv and PDF to an email address supplied by the officer. The logs are prepared for a period described under Logs Period Available |
| Passenger carrying | Indicates that the HOS rule set for drivers who driver buses, etc. |
| Personal conveyance | Instances where a driver is using a company vehicle for private use. |
| Property carrying | Indicates that the HOS rule set for drivers who driver CMV's for transporting freight. |
| Roadside Inspection | From time to time a driver may be approached by a FMCSA/CCMTA agent (safety officer) and asked to present their driver logs. A driver is prepared to assist to allow the safety officer to operate the mobile device to examine and/or transfer the logs electronically for further analysis. |
| Status (Working) [Driver duty status] | <p>When a driver is working he is set to one of the following driver duty statuses:</p> <ul style="list-style-type: none"> Driving On-Duty Yard Move <p>Dashboard burndown gauge will display in green an indication of the factor most critical to their available driving time.</p>  |
| Status (Non-Working) [Driver duty status] | <p>When a driver is not working he is set to one of the following driver duty statuses:</p> <ul style="list-style-type: none"> Break Off-Duty Sleeper Berth Personal Conveyance <p>Dashboard burndown gauge will display in blue an indication of the Gain time remaining before they are entitled to additional cycle drive time.</p>  |
| Team Drivers | Instances where there is more than one driver. |
| Telematics device | Device or TMU installed in a vehicle which is typically connected to the engine management system & usually has GPS functionality (TMU1500, V301, GenX). |
| Unidentified driving | Instances where a CMV is being driven and a driver hasn't logged into the "ELD". |
| USDOT | United States Department of Transportation. |
| Vehicle in motion | Vehicle is considered in motion when the speed is greater than or equal to 5mph. |
| Vehicle interface | Integration to the <i>Engine Management System</i> to receive vehicle data, such as engine hours, elapsed distance, speed, etc. |
| Vehicle motion status | Indication of whether a vehicle is in motion or stationary based on the FMCSA specification. |
| Vehicle stationary | Vehicle is considered stationary when the speed is 0 for at least 3 seconds. |
| Yard moves | Instances where a driver is moving vehicle around in a depot (and not on the open road). |

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