

AVLTRACK ELD SOLUTION

by Gestion Econo Plus Inc.

User Manual

Version 1.1 01/23/2020

Important: FMCA regulations requires this manual to remain in the vehicle at all times.

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1. Introduction

This User Manual (UM) provides the information necessary for drivers to effectively use the AVLTRACK ELD Solution.

This manual focuses exclusively on the ELD functionality within AVLTRACK ®. If you have questions about the additional AVLTRACK® features, please visit www.avltrack.com or contact our sales team by email at info@avltrack.com or by phone at 1 514-881-2851.

Please note that some screenshots in this guide may look slightly different than what you see on your device. This is due to the differences in hardware and screen sizes of the many Android devices that AVLTRACK ELD SOLUTION supports.

2. Overview

The AVLTRACK ELD-A100 is an application that is compliant with the FMCSA ELD MANDATE.

The system uses is using GPS technology connected to the truck's ECM to register the driving hours of service automatically.

ELD-100 can accommodate 2 drivers per truck.

Provides separate accounts for drivers and administrative (non-driver) ELD users.

Has "integral synchronization" with the engine control module to automatically record engine power status, vehicle motion status, and other data.

Automatically records all driving time at intervals of 60 minutes. Records date, time, location, engine hours, vehicle miles, and driver identification.

Records location with an accuracy of a one-mile radius during on-duty driving periods. Reduces location accuracy to a 10-mile radius when the vehicle is used for authorized personal use.

ELD time is synchronized with UTC (coordinated universal time).

Retains data for the current 24-hour period and the previous 7 consecutive days.

Prevents tampering; does not allow anyone to alter or erase information originally collected for driver ELD records.

Requires driver to review unidentified driver records – and either acknowledge assignment of this driving time or indicate that the records do not belong to the driver. Allows a driver to obtain a copy of his/her ELD records on demand – either through a printout or electronic file. Supports the Telematic type transfert: using wireless web services .

Displays all required standardized data to authorized safety officials on demand – through a screen display or printout that includes three elements: a daily header, graph grid showing driving duty status changes, and detailed daily log data. The graph grid, if printed, must be at least 6 inches by 1.5 inches.

Requires driver certification and annotation (written explanation) for any edits to records that are made by the driver or any other ELD user. Requires certification of driver records at the end of each 24-hour period.

The ELD provider furnishes the user manual, instructions for handling malfunctions and recordkeeping during malfunctions, and instructions for transferring ELD hours of service records to safety officials. Volume control or mute option is included for any audio feature. Failure to perform the instructions in this user guide could result in inaccurate HOS driver activity capture and recording on the ELD and cause compliance implications.

The ELD Rule provides several provisions to help prevent harassment.

The application is Android based and can be installed on the Garmin Fleet 670/790.



2.1 Product Information

Manufacturer name: Gestion Econo Plus Inc (AVLTRACK)

Model number: ELD-A100

Software version :1.1.2

ELD Identifier: AVLT01

Necessary Hardware:

- Modem Atrack AK11
- J1939 Cable
- FMI 45 Cable
- Garmin Fleet 670/790 Android Display



2.2 Copyright & Disclosure

Gestion Econo Plus disclaims all liability for any use of the ELD in a way that may cause accidents, damage or violation of the Law.

All information written in this manual is the property of Gestion Econo Plus and should not be reproduced without its written permission.



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3. Getting Started

3.1 Set-up Considerations

Typically, the installation technician performs the first-time boot-up, downloads and any necessary updates.

3.2 User Access Considerations

When accessing the device for the first time, the new user must agree to the license agreement. Also, any new user's login to **the device must have access to the Internet.**

New	User	¢		
со	END-USER LICENSE AGREEMENT			
VC				
Cha	We provide our Services using a commercially re that you will enjoy using them. But there are cert Services.	asonable level of skill and tain things that we don't p	care and we hope promise about our	€
Ne	OTHER THAN AS EXPRESSLY SET OUT IN THESE GESTION ECONO PLUS INC NOR ITS SUPPLIERS PROMISES ABOUT THE SERVICES. FOR EXAMPLE ABOUT THE CONTENT WITHIN THE SERVICES, TH OR THEIR RELIABILITY, AVAILABILITY, OR ABILITY SERVICES "AS IS".	TERMS OR ADDITIONAL T OR DISTRIBUTORS MAKE , WE DON'T MAKE ANY C HE SPECIFIC FUNCTIONS (TO MEET YOUR NEEDS.)	ERMS, NEITHER ANY SPECIFIC OMMITMENTS OF THE SERVICES, WE PROVIDE THE	Ð
	SOME JURISDICTIONS PROVIDE FOR CERTAIN W OF MERCHANTABILITY, FITNESS FOR A PARTICUL TO THE EXTENT PERMITTED BY LAW, WE EXCLUD	ARRANTIES, LIKE THE IMF LAR PURPOSE AND NON DE ALL WARRANTIES.	PLIED WARRANTY -INFRINGEMENT.	
	Liability for our Services			
	WHEN PERMITTED BY LAW, GESTION ECONO PL SUPPLIERS AND DISTRIBUTORS. WILL NOT BE RE	US INC, AND GESTION EC SPONSIBLE FOR LOST PR	CONO PLUS INC'S OFITS. REVENUES.	
Ve	Cancel	l Agre	e	2
ID .	12343		·	

3.3 Accessing the System

To access the system, your carrier should have created your user in the back-end system and provide you with the authentication information (Username/Password) to log into the ELD application. **Please start the vehicule engine only after having logged in.**

If your user account is already registered on the application, simply click on your username in the user list to show the authentication pop-up (your username will be prepopulated).

VORTEX1			€
Username	VORTEX1		
Password			
Cancel		Connection	

3.4 System Organization & Navigation

The system has two side-menus and one main view. The first page to load after a new startup of the application will be the connection page (also referenced as the <u>right-side menu</u>).



3.4.1 Right-side menu

The right-side menu occupies the entire screen when no user is logged in. This view also gives the user the ability to log in or register a new user on the device.

1. Connection view (Lists all previous users, with the option to add a new user ^① at the end of the list)

CONNECTION	
VORTEX1 (€
New User	G
Version : ID : 12345	¢ 🕁 🔇

2. Lower bar option



Displays the application version and Garmin ID



The right side menu shows 3 buttons to, respectively, synchronize with the server, update the application and check internet connectivity.

3.4.2 Main view

The main view is composed of a top navigation (displayed permanently when logged in) and a bottom tabulation menu that offers up to three more views in the same page.

The dashboard tab in the home page is the default view after the user has logged in.

1. Home page with dashboard tab selected



3.4.2.1 Top navigation bar

The top navigation (displayed permanently when logged in) offers the user multiple options:

HOME		OFF DUTY	0	â	
1.Change current duty status	Y				
2.Open the DOT inspection view 0.					
3. Open the device health view					
4. Open the connection view					

3.4.3 Left-side menu



Goes to home page (Dashboard, Time remaining, Trip information) Goes to logs page (HOS graph, Event list, DOT Report) Goes to the settings page (Language, Unit of measure, Country, Volume) Goes to the alerts page (HOS infractions) Goes to the truck inspection page Shows/Activates a synchronization to the back-office server



3.5 Exiting the System

To exit the system correctly, turn off your engine, verify your logs and proceed to log out of your account (if needed, follow the reminder to certify your logs).

1.To log off, press your username in the connection list.

VORTEX1 🏠	
Charles Ménard	×

2.Confirm that you want to log out to start the logout process.



3. A pop-up will show up during the logout process if some uncertified days are present. Select a date in the list to go back to the application or press the button labelled "Not Ready" to finish the logout process.

UNCERTIFIED DAYS		
One or more periods of 24 hours have not been certified. Click on a date to view the records for that period.		
September 13th 2019		
September 18th 2019		
Not ready		

4. When your engine is turned off and no one is logged in the application, you can close the ELD application. Do not forget to start the application before using your CMV.

4. Using the System

To use the system properly, be sure to boot up the ELD device and log yourself in the application before starting your engine.

Also, be sure to verify the health indicator in the top navigation bar and the information displayed on the dashboard and on the trip information tab before putting your CMV in motion.

If you have any issues or questions, please browse this document to find all the information available to help you before contacting your carrier or the support contact also provided in this document.

4.1 Dashboard

On the dashboard, you will find multiple visual indicators and buttons.



1.	FMI45 Connection	1. The FMI45 conn the data reception
2.	Malfunction	malfunction if the registered correct
3.	Diagnostic	2. The ELD malfun in red when there an active malfunct
4.	L Team	3. The ELD diagno the existence of a applicable driver.
5.	, Records	4.When pressed, t team logs.
•	14	5.The Records tab the records tab.
ю. 7.	•·····································	6.The Suggestions suggestions unrev shown to let you s
8.	3 uncertified days	7. The Unidentified unidentified activit up will be shown t
9.	🛃 Update Avalaible	8. The Uncertified suggestions not re pop-up will be sho
10.	User : CHARLES MÉNARD	9. The Update available application. 10.Shows the curr
11.	Co-driver :	trigger the connect 11.Shows the sele When pressed, the
		you update your in
12.	Canada 🔶	12.Will show the c you will be redired

ection indicator communicates visually from the ECM. When the Garmin is dicator will be red (could cause a engine shutdown event was not ly).

ction indicator will be clearly illuminated is

tion on the ELD.

ostic indicator will communicate visually ctive data diagnostics events for the

this will show a pop-up to let you see your

will redirect the user to the logs page on

s button will show the number of carrier viewed. When pressed, a pop-up will be see the suggestion logs.

d activity tab will show the number of ties on the device. When pressed, a popto let you see the unidentified logs.

days tab will show the number of carrier eviewed by the driver. When pressed, a own to let you see the unidentified logs.

ilable tab will open a popup to update the

rent user logged in. When pressed, it will ction view.

ected co-driver in the trip information. e trip information view will be shown to let nformation.

current selected country. When pressed, cted to the option page.

10

4.1.1 Team logs

To use the Team driver feature proposed in the ELD mandate, you must select your co-driver in your trip information before moving your CMV or generating any event that you want to be able to transfer in case of an automatic driving event or to show other types of events in a shared view.

4.1.1.1 3 simple steps to select a co-driver from the dashboard

If the username of your co-driver is not present, log off and ask them to register their username on the ELD device

1. Press on the Co-driver section to open the current trip information view.

Co-driver :

2. Select an available user of the application as co-driver.

PLEASE CONFIRM OR CORRECT THE FOLLOWING INFORMATION:			
Co-driver		NOME -	
Truck Number	36974	NONE VORTEX2	
Truck Immatriculation		VORTEXE	
Trailer ID #1			
Trailer ID #2			
Trailer ID #3			
Trailer1immatriculation			
Trailer2immatriculation			
Trailer3immatriculation			
Slip Number			
Departure City			
Arrival City			
Commodity Type			
C	Ж		

3. If needed, fill out all the other information about your current trip and press OK

4.1.1.2 How to access your team logs

As required by the ELD mandate, a driver and a co-driver can have both their accounts authenticated in the application and share a common view of their logs.

(ELD-FUNC-4.1.4-2)

1. Press on the Team button on the dashboard to open the team view



If no Co-driver is selected, a warning popup will appear (follow the 3 simple steps and try again)

NO CO-DRIVER SELECTED	Ava
ОК	

2.Let your co-driver enter his/her credentials.

Username	VORTEX1	
Password		
Cancel		Connection

3. Browse your team logs using the <u>datepicker</u> widget and <u>filter option</u>.

Datepicker

<	S	PTEN	ИВЕ	R 25	тн :	2019	•	
	09 / 25 / 2019							
	<	Septemb	er	~ 20	19		× >	
	s	м	т	w	т	F	s	
	1	2	3	4	5	6	7	
	8	9	10	11	12	13	14	
	15	16	17	18	19	20	21	
	22	23	24	25	26	27	28	
	29	30						
				Class				1

Filter option

All log types
All log types
Driver's Duty-Status
Intermediate Log
Authorized personal use or Yard Moves
Driver's certification/recertification of records
Driver's login/logout activity
Switching the engine on / off
Malfunction or data diagnostic

Full view

TEAM	SEPTEMBER 25TH 2	2019 🔻 🔪 🔅
 All log types 		
2019-09-25 12:42:23	Driver's authentification (5) Login (1)	Detail >
2019-09-25 12:16:35	Driver's authentification (5) Logout (2)	Detail >
2019-09-25 12:15:13	Driver's Duty-Status (1) On duty Not Driving (4)	Detail >
2019-09-25 12:04:13	Driver's Duty-Status (1) Driving (3)	Detail >
	Close	

4.1.1.3 How to transfer an automatic driving event to your co-driver

As required by the ELD mandate, the only way to modify an automatic driving event is to transfert it to your co-driver that was selected when the event occured.

(ELD-FUNC-4.3.2.8.2-2 and ELD-FUNC-4.3.2.8.2-2)

1.Follow the steps explained in the section <u>4.1.1.2 How to access your team logs</u>

2. The transfer feature will only be available whe	en this icon appears	
next to the Detail button Detail >		
3. Press on the Detail button Detail > and pres.	ss the Exchange button	change
< Cancel	Exchange	

4.Enter the required annotation when prompted.

ANNOTATION					
Please leave a comment here. (Required)					
ОК					

*Warning! If your co-driver has any duty status during the automatic driving periods, a warning popup will appear and the exchange will be cancelled. Your co-driver could log in the application and manage his events with edits if possible and retry this procedure. *

4.1.2 Unidentified logs

As required by the ELD mandate, a pop-up will be prompted as a reminder during the login process to accept or reject a unidentified driving event.

*Just a reminder, an unidentified driving event will occur when no driver is in driving status or when no user is presently connected and your CMV is moving. *

1 UNIDENTIFIED DRIVING EVENT						
0h09min of unidentified driving time during the last week.						
2019-09-26 12:48:58 ID: 37623 Driving (3) pendant 0h09min DETAIL						
Close						

4.1.2.1 How to reassign an unidentified driving event and why it's important

*Reminder from the ELD mandate:

If more than 30 minutes of driving in a 24hour period shows an unidentified driver

on the ELD, the ELD must detect and record an unidentified driving records data

diagnostic event and the data diagnostic indicator must be turned on for all drivers logged into that ELD for the current 24-hour period and the following 7 days.*



Please go to the next page to see how to assign an unidentified driving event

1. Press on the Detail button to slide to the detailed view of the event.

UNIDENTIFIED DRIVING EVENT				
Do you really want to acc	ept this event?			
Date	Thursday, Sep	tember 26th 2019		
Hours	12:48			
Event Type	Driver's Duty-	Status (1)		
Description	Driving (3)			
Record Origin	Automatically	recorded (1)		
Record Status	Active (1)			
Odometer	60 km			
Engine hours	13.5			
Latitude	46.77			
Longitude	-71.2			
Nearest City (automatic)	2mi NNE QC Charny			
Annotation				
Cancel	Reject	Accept		

2. Review the information before accepting the event

***Beware! This action is irreversible**. You cannot edit or reduce automatic driving times even when they are reassigned to your profile (only one exception, for more information see section Team logs 4.1.1 of this document regarding the transfer of automatic driving time).*

3. If you accept the event, you must first enter the required annotation when prompted.



4. If you reject the event, this will simply grey out the event in the list and stop the reminder at the login process and the visual signals on the dashboard.

Important! You can always accept an event previously rejected.

4.1.3 Uncertified days

As required by the ELD mandate, a pop-up will be prompted as a reminder during the login and logout processes to certify your uncertified days.

You can also open this view manually via the dashboard 4.1 Dashboard

UNCERTIFIED DAYS				
One or more periods of 24 hours have not been certified. Click on a date to view the records for that period.				
September 16th 2019				
September 17th 2019				
September 18th 2019				
Not ready				

1.If you decide to press on one of the dates in the list like this ______, then you will be redirected to the logs page and the records tab. There, you will be able to validate your logs and certify them.For more details, please refer to the <u>4.7.5 Certify your logs</u> section of this document.

2.If you decide to press on the Not Ready button , then this pop-up will disappear and you will continue the login/logout process normally.

4.1.4 Carrier suggestion

When suggestions are received in the system, your dashboard button will activate and the number of suggestions will be displayed.

4.1.4.1 How to accept or refuse suggestions

- 1. Press on the Suggestion button on the dashboard when new suggestions need to be reviewed.
- 2. Select an event in the list and press the Detail button.
- 3. Review the proposed modification and press on Accept or Reject Reject.

4.2 Time remaining

The time remaining view is accessible on the Home page when selected on the tabulation bar. This view is a tool to help the driver with the hours of service regulation.

*Important, the driver and carrier are responsible for ensuring that the applicable HOS rules are followed in their logs. This useful feature will only warn and inform you if an infraction is detected.



This view is a tool to help you with your hours of service and the rules for different countries and cycles.

US, 7	′ days 👻	Cj	vcle 1 🔹
8h maximum without break	8h00	13h Driving during a shift	13h00
11h Driving during a shift	11h00	14h On Duty during a shift	14h00
14h On Duty during a shift	14h00	Max 16h since the shift started	16h00
Max 60h during 7 last days	59h15	Max 70h during 7 last days	69h15

When there is no more time left on a rule, the rule will turn red. You can stop and take the appropriate break or fix your logs if an error was made. This action will reset the counter and recalculate the amount of time left for the HOS rules displayed.



1. You can press on the country to switch to the correct set of rules.

See option in the 4.8 Settings section of this document



2. You can also press on the right corner to switch the cycle to display the correct set of rules.



4.3 Change of Duty Status

There are multiple mechanisms on the ELD mandate that will impact your current duty status. Some changes are trigger automatically by the ELD system, but as a driver, most of the time you will need to change your current duty status manually.

STEP OFF DUTY

Ω

Ĥ.

 \equiv

4.3.1 How to change your current duty status

1.When logged in, press on your current duty status displayed on the top navigation bar.

HOME

2.Select a duty status available on the action sheet.



3. Depending on your choice, you might have to validate your trip information, annotate the change and enter a manual location in case of an active positioning issue.

	PLEASE CONFIRM OR CORRECT T	HE FOLLOWING INFORMATION:
	Co-driver	VORTEX1 ~
	Truck Number	36974
	Truck Immatriculation	
	Trailer ID #1	
	Trailer ID #2	***
	Trailer ID #3	
	Trailer1immatriculation	***
	Trailer2immatriculation	
ANNOTATION	Trailer3immatriculation	
Please leave à comment nere. (Required)	Slip Number	10094
	Departure City	Montreal
	Arrival City	Quebec
OK	Commodity Type	Wood
	С	Ж

4.4 Information (Trip, Ecm, Driver, Carrier)

The info tab is available on the home page. This is where you can view a wealth of information in one place.

1.Driver profile information, carrier information, position/location information

Driver Name	
Driver ID	
Driver License Number	0
Driver License State/Province	0
24-hour Starting Time	0Н00
Time Zone Offset from UTC	5
Device ID	12345
Current location	1mi SSE QC Mascouche
Exempt Driver Status	0
Latitude	46.77
Longitude	-71.20
Carrier 13847537, Gestion Econo Plus Inc 1384 Ave. de la Gare Mascouche, Quebec J7K-2Z2 514-953-4864 Fax: 514-648-5612	

2.Information received from the ECM module.

The accumulated and elapsed values are resetted when the engine starts a new power cycle.

ECM Information	
Truck Tractor VIN	JNRAS08U65X103394
Current odometer	50 km
Accumulated odometer	0 km
Current engine hours	12.5
Elapsed engine hours	2.1
Vehicle in motion	•
Engine is Power On	•

3.Current trip information

Current Trip	
Canadian Cycle	Cycle 1
Co-driver	NONE 👻
Truck Number	36974
Truck Immatriculation	
Trailer ID #1	
Trailer ID #2	
Trailer ID #3	
Trailer1immatriculation	
Trailer2immatriculation	
Trailer3immatriculation	
Slip Number	10094
Departure City	Montreal
Arrival City	Quebec
Commodity Type	Wood

4.4.1 How to change your trip information

It is very important to keep this information as accurate as possible

You can find this view when pressing the co-driver section on the dashboard or when you're in the process of certifying your logs or when prompted by the system to confirm the information.

PLEASE CONFIRM OR CORRECT TH	HE FOLLOWING INFORMATION:
Co-driver	VORTEX1 -
Truck Number	36974
Truck Immatriculation	
Trailer ID #1	
Trailer ID #2	
Trailer ID #3	
Trailer1immatriculation	
Trailer2immatriculation	
Trailer3immatriculation	
Slip Number	10094
Departure City	Montreal
Arrival City	Quebec
Commodity Type	Wood
C	K

4.5 RoadSide DOT inspection

4.5.1 How to access the roadside DOT inspection view

1.When logged in, press on the roadside button displayed on the top navigation bar.

HOME

脊 OFF DUTY	σ	Ô	
------------	---	---	--

2. You will now be able to select one of the transfer methods supported.

ROAD SIDE INSPECTION	X
Send Roadside Inspection	
by Web Service to authorities	
by Email to authorities	
by Email to user	
Or	
Show the compliant report on display	

3.Enter a comment if required by the inspector or press send directly.

ROAD SIDE INSPECTION	<
Enter a comment :	
Send	

4. Wait for the loading **5** icon to disappear and the transfer result to be shown.

THE DATA TRANSFER WAS NOT SENT.	THE DATA TRANSFER SENT WITH SUCCESS.
Close	Close

5. If both methods supported have failed, please use the compliant report on display option and pass your ELD device to the inspector.

4.6 Diagnostic and malfunction

Data diagnostic events are warnings that the ELD has detected missing information or inaccuracies. If the ELD cannot resolve the event, most of these events will become a malfunction.

Per the ELD Mandate, Data Diagnostic events appear and disappear on the ELD as they are discovered and resolved.

When logged in, you can always see the current health state of the ELD device at the top navigation bar.

Everything is working:	Ê	
A data diagnostic is acti	ve:	
A malfunction is active:	Ē	

View is accessible when the health indicator is pressed

DEVICE HEALTH	Close
MALFUNCTION STATUS	
Power compliance malfunction (P)	٠
Engine synchronisation malfunction (E)	٠
Timing compliance malfunction (T)	٠
Positionning compliance malfunction (L)	٠
Data recording compliance malfunction (R)	٠
Data transfer compliance malfunction (S)	٠
Other (O)	٠
Close	

DEVICE HEALTH DATA DIAGNOSTIC STATUS Power data diagnostic event (1) Engine synchronisation data diagnostic event (2) Missing required data elements data diagnostic (3) Data transfer data diagnostic event (4) Unidentified driving records data diagnostic event (5) Other (6) Positioning diagnostic event (7) Connectivity diagnostic event (8) Memory diagnostic event (9) Close

Close

4.6.1 What to do if a malfunction is not resolved within 24 hours

If an ELD does not resolve the malfunction within a 24-hour period, the driver must do the following:

1. Provide a written notice of the malfunction to the motor carrier within 24 hours.

2. Reconstruct the record of duty status for the current 24-hour period and the previous 7 consecutive days, and record the records of duty status on graph-grid paper logs that comply with § 395.8, unless the driver already possesses the records or the records are retrievable from the ELD.

3. Continue to manually prepare a record of duty status in accordance with § 395.8 until the ELD is serviced and brought back into compliance.

What if you have a road side inspection during a malfunction? The driver must provide the authorized safety official the driver's manual records of duty status on graph-grid paper logs that comply with 395.8.

4.6.1.1 Malfunction and Data Diagnostic Event Definitions

Power compliance malfunction (P)

"Power compliance malfunctions" occur when an ELD is not powered for an aggregated inmotion driving time of 30 minutes or more over a 24-hour period across all driver profiles.

Engine synchronisation malfunction (E)

"Engine synchronization compliance malfunctions" occur when ECM connectivity to any of the required data sources (engine power status, vehicle motion status, miles driven, and engine hours) is lost for more than 30 minutes during a 24-hour period aggregated across all driver profiles.

Timing compliance malfunction (T)

A "timing compliance malfunction" occurs when the ELD can no longer meet the underlying compliance requirement to record Coordinated Universal Time (UTC), where ELD time must be synchronized with UTC, not to exceed an absolute deviation of 10 minutes at any time.

Positionning compliance malfunction (L)

When an ELD fails to acquire a valid position measurement within 5 miles of the commercial motor vehicle moving and 60 minutes has passed, a "position compliance malfunction" will be recorded in the data diagnostic.

Data recording compliance malfunction (R)

A "data recording compliance malfunction" occurs when an ELD can no longer record or retain required events or retrieve recorded logs that are not kept remotely by the motor carrier.

Data transfer compliance malfunction (S)

A "data transfer compliance malfunction" occurs when the ELD stays in the unconfirmed data transfer mode following the next three consecutive monitoring checks.

Other (O)

An "other compliance malfunction" occurs during technology specific operational health monitoring



Power data diagnostic event (1)

"Power data diagnostic events" occur when an ELD is not powered and fully functional within one minute of the vehicle\'s engine receiving power and does not remain powered for as long as the vehicle's engine stays powered.

Engine synchronisation data diagnostic event (2)

"Engine synchronization data diagnostic events" occur when an ELD loses ECM connectivity to any of the required data sources (engine power status, vehicle motion status, miles driven, and engine hours) and can no longer acquire updated values for the required ELD parameters within five seconds of the need.

Missing required data elements data diagnostic (3)

A "missing required data elements data diagnostic event" occurs when any required data field is missing at the time of its recording.

Data transfer data diagnostic event (4)

A "data transfer data diagnostic event" occurs when the operation of the data transfer mechanism(s) is not confirmed.

Unidentified driving records data diagnostic event (5)

An "unidentified driving records data diagnostic event" occurs when more than 30 minutes of driving time for an unidentified driver is recorded within a 24-hour period.

Other (6)

An "other records data diagnostic event" occurs during technology specific operational health monitoring.

Positioning data diagnostic event (7)

When an ELD fails to acquire a valid position measurement within 5 miles of the commercial motor vehicle moving, a "position data diagnostic event" will be recorded in the data diagnostic.

Connectivity data diagnostic event (8)

When an ELD fails to connect to the main server through Internet, a "connectivity data diagnostic event" will be recorded in the data diagnostic.

Memory data diagnostic event (9)

When an ELD is about to run out of memory space, a "memory data diagnostic event" will be logged in the data diagnostic.

4.6.2 Tips on how to fix malfunctions or data diagnostic on your own

In case of a <u>Positioning data diagnostic or malfunction</u>, make sure you that the GPS antenna is correctly plugged into the a track modem and that it's not damaged. You can contact your carrier support personnel to help you with the steps to take regarding the installation or repair of this part of the system.

If you have a <u>Timing complance malfunction</u>, be sure that your Garmin device has a good GPS reception and that your device has a wifi connection with an internet access.



Reminder: You can use this icon and the the login screen of your ELD application to validate your connection to our system and internet.



If you have an <u>engine synchronization diagnostic</u> on, please verify your FMI 45 cable connection. Your Garmin must be docked (connected to the modem through the FMI 45 cable). If a power off was not registered correctly, you must plug back your device and clear any <u>engine</u> <u>synchronization data diagnostic</u> as soon as possible.

If an <u>engine synchronization malfunction</u> is on because more than 30 minutes in a 24-hour periods is detected with a diagnostic on, you must clear any active engine synchronization diagnostic first. Then the malfunction will clear itself in the next 24 hours or when the amount of time under a engine synchronization diagnostic drops under 30 minutes in a 24-hour period.

4.7 Logs

Under the logs page, you will always have a datepicker widget on the top navigation bar.

<	SEPTI	EMBE	R 28TI	H 201	9 🔻	>
		09	/ 28 / 20)19		
<	Septemb	er	- 20)19		× >
s	М	т	w	т	F	s
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					
			Close	•		

The subset of views under the logs page is used to display your logs with a graphical view of HOS events, a complete list of ELD events with a filter by type and a complaint report view normally used for the roadside inspection.

4.7.1 HOS graphic

Will display the logged driver's hours of service event under a typical graphical view. You can

display up to a maximum of 16 days on the same graphic and activate a color mode us to visually represent HOS alerts.

If needed, you can use the datepicker widget in the top navigation bar to change the date.



*Reminder : The hour of service graph will display the 24-hour starting time configured on your driver ELD profile. In this example, it's 9H00AM *

4.7.2 Records

In this view, you will see every event recorded under your account for the selected date on the datepicker widget.

Also, you will be able to add a past event +, edit an event in the detailed view of an event and certify your 24-hour logs (step required by the ELD mandate).

(The time range takes into account the 24-hour starting time configuration)

Distance Traveled in Driving : 0 km	Total Distance Traveled : 0 km
 All log types 	+
From August 5th 2019 at 09:00 to August 6th	2019 au 08:59
No event	
This 24h period has been certi	fied or does not have to be certified

Detailed view of an event that can be edited

EVENT DETAIL	🖊 Edit	
Date	Thursday, September 26th 2019	
Hours	12:58	
Event Type	Driver's Duty-Status (1)	
Description	On duty Not Driving (4)	
Record Origin	Assumed from the Unidentified Driver (4)	
Record Status	Active (1)	
Odometer	50 km	
Engine hours	12.5	
Latitude	46.77	
Longitude	-71.2	
Nearest City (automatic)	2mi NNE QC Charny	
Annotation	Test	
Close		

4.7.3 How to edit an event

In case of an error in your logs, go to your records and press the Detail button **Detail** of the event that needs to be edited and follow these steps.

Reminder, you cannot edit an automatic driving time event, power cycle event, intermediary event, login/logout event, data or malfunction event.

 All log types 		+
From September 29th 2019 a	t 09:00 to September 30th 2019 au 08:59	
2019-09-29 12:27:08 IID : 11104	Driver's authentification (5) Login (1)	Detail
2019-09-29 12:26:01	Driver's Duty-Status (1) Sleeper Berth (2)	Detail 🐥
2019-09-29 12:25:54 IID : 11102	Driver's authentification (5) Login (1)	Detail

1.To edit the slide, press the Edit **button** if available on the detailed view.

EVENT DETAIL	∕ Edit
Date	Sunday, September 29th 2019
Hours	12:26
Event Type	Driver's Duty-Status (1)
Description	Sleeper Berth (2)
Record Origin	Entered or edited by the Driver (2)
Record Status	Active (1)
Odometer	50 km
Engine hours	12.5
Latitude	45.73
Longitude	-73.59
Nearest City (automatic)	1mi SSE QC Mascouche
Annotation	

Close

2.Fill out all information on the form

 EVENT DETAIL

 Date of the event :
 2019-09-29

 Time of the event :
 12:26:01

 Duty Status
 C Sleeper Berth

 Location
 Montreal QC

 Annotation *
 Forgot to change my duty status to sleepe

 Cancel
 Save

If the Save button is greyed out

Save

, please make sure that your annotation is at least 4 characters long and that your location description is at least 5 characters long.

Also, you cannot select a date causing a time reduction of automatic driving time or a date in the future.

Examples of warning messages:

Some informations are missing or incomplet

Cannot select a time period in the future

Cannot add or change an event impacting automatic driving time

4.7.4 How to add a past event

1. Go to your logs and press the + button.



2. Fill out all information on the form.

DRIVER ENTRIES			×
Date of the event :	2019-09-29		
Time of the event :	13:17:23		
Duty Status		The formation of the fo	
Location Description (manual)			
Annotation			

If the OK button is greyed out

0

, please make sure that your annotation is at least 4 characters long and that your location description is at least 5 characters long.

Also, you cannot select a date causing a time reduction of automatic driving time or a date in the future.

Examples of warning messages:

Some informations are missing or incomplet

Cannot select a time period in the future

Cannot add or change an event impacting automatic driving time

of the list.

4.7.5 How to certify your logs

1.Go to your logs and press	Click here to certify this 24h period	oottom
2.Validate your trip information an	nd press on I Agree].
CERTIFICATION OF THE 24H PERIOD		
Validate the information below befor	re certifying this 24h period.	
Co-driver		
Truck Number	36974	
Truck Immatriculation	***	
Trailer ID #1		
Trailer ID #2	***	
Trailer ID #3		
Trailer1immatriculation	***	
Trailer2immatriculation		
Trailer3immatriculation		
Slip Number	10094	
Departure City	Montreal	
Arrival City	Quebec	
Commodity Type	Wood	
I hereby certify that my data entries and my record and correct.	d of duty status for this 24-hour period are true	
Not ready	l Agree	

Top warning banner for days that require certification.



2019-09-29 12:25:54

Driver's authentification (5) Login (1)

Click here to certify this 24h period

4.7.6 Compliant report display

The compliant report display is used on a roadside inspection, if all available transfer methods have failed.

<u>1.The inspector can use the datepicker widget to navigate on your current 24h and past 7 days of logs.</u>



or

2.The inspector can also switch from an unidentified account to yours.

See unidentified

See user

3.Daily Header information

Compliant report display				See unidentified	
Current date of	display : 0929 ⁻	19			
Current location : 1mi SSE QC Mascouche		Current status :	Current unidentified diagnostic status : Off		
Current odomet	er : 31 miles	Current	Current engine hours : 12.5		
Records date	24-hour Starti Time	ng Time Zor	e	Shipping ID	
092319	090000	05		10094	
Carrier	USDOT #	ELD Prov	ider	ELD Registration ID	
Gestion Econo Plus Inc	13847537	AVLTrack	c	cccc	
Driver Name	Driver ID	Co-drive		Co-Driver ID	
Charles Ménard	VORTEX1	Jul Arne	ault	VORTEX2	
Driver License Number	Driver License State/Province	e Truck Tra	ctor ID	Truck Tractor VIN	
123	QC	36974	JNR	AS08U65X103394	
Exempt Driver Status Data Diagno		agnostic Status	s Malf	unction Status	
No	Off		On		

4. Graphical display of HOS event



5. List of 24-hour logs (inspector can use the detail view if needed)

Records		
From September 23rd 20	019 at 09:00 to September 24th	2019 au 08:59
2019-09-24 08:22:25	Driver's authentification (5) Login (1)	Detail
2019-09-24 06:09:56 ▶ ID : 11098	Driver's Duty-Status (1) On duty Not Driving (4)	Detail 🖍
2019-09-24 05:09:56 Correction : 11097	Driver's Duty-Status (1) On duty Not Driving (4)	Detail 🖍
2019-09-23 22:08:46 I+I ID : 11096	Driver's Duty-Status (1) Sleeper Berth (2)	Detail 🖍
2019-09-23 17:27:16 IID : 231	Driver's authentification (5) Logout (2)	Detail
2019-09-23 15:42:22 I+I ID : 230	Driver's authentification (5) Login (1)	Detail
2019-09-23 15:34:42 IID : 229	Driver's authentification (5) Logout (2)	Detail
2019-09-23 15:33:30 I+I ID : 228	Driver's authentification (5) Login (1)	Detail
2019-09-23 14:08:19 IN ID : 11095	Driver's Duty-Status (1) Driving (3)	Detail 🖍
2019-09-23 12:07:23	Driver's Duty-Status (1) On duty Not Driving (4)	Detail 🖍
2019-09-23 09:06:39 I+I ID : 11093	Driver's Duty-Status (1) Driving (3)	Detail 🖍

4.8 Settings

The settings page lets you switch between the supported language (French and English), change the unit of measure (km and miles), change the country (USA and Canada) and the mute option for audible alerts generated by the ELD.

English, Km, Canada, Volume on



<u>English, Miles, Usa, Muted</u>



1

4.9 Alerts

This section lists HOS alerts.

1.HOS infraction

Rule of 13h Driving during a shift (#14)

Date: 2019-09-26 09:04:33 -0400 Utilisateur: vortex1 (18) Sync: 1569503073000 - Alerte_ID: 41584

Rule of max 70h without break of 24h (cycle 2) (#11)

Date: 2019-09-26 09:04:33 -0400 Utilisateur: vortex1 (18) Sync: 1569503073000 - Alerte_ID: 41583

• • •

Rule of 14h On Duty during a shift (#13)

Date: 2019-09-18 17:22:58 -0400 Utilisateur: vortex1 (18) Sync: 1569503029000 - Alerte_ID: 41558

4.10 Truck Inspection form

Lets you fill out a form to inspect your vehicule quickly and note any issue.

+ New inspection	
Note that only the last inspection recorded for this vehicle can l modified. These changes include repairs to the vehicle.	be
Vehicle 376346346	
September 12th 2019, 17:35 by Gilles Pételle	Edit
 August 23rd 2019, 01:12 by Charles Ménard 	View
August 7th 2019, 13:40 by Charles Ménard	View
 August 7th 2019, 12:49 by Gilles Pételle 	View
 August 6th 2019, 10:36 by Julien Thomas 	View
August 6th 2019, 09:11 by	View
 August 2nd 2019, 10:40 by Gilles Pételle 	View
 August 2nd 2019, 08:34 by Charles Ménard 	View
July 12th 2019, 11:21 by Charles Ménard	View
 July 12th 2019, 11:18 by Charles Ménard 	View

1.Create a new form by pressing this button

utton New inspection

2.View or edit a previous form



5. Troubleshooting & Support

5.1 Error Messages

In case of an unsupported error, or if the application is not responsive enough to continue your normal usage, please try closing the application and reboot your device.

5.2 Special Considerations

Before asking for support, validate your ELD health indicator if possible and look at the given tips for malfunctions or data diagnostic.

5.3 Support

Table 1 - Support Points of Contact

Contact	Organization	Phone	Email	Responsibility
Technical support	Gestion Econo Plus Inc (AVLTRACK)	1877-448-4842	info@avltrack.com	Customer support



Appendix A: Record of Changes

Table 2 - Record of Changes

Version Number	Date	Author/Owner	Description of Change
1.0	09-16-2019	Julien Aerts	Initial Release
1.1	11-29-2019	Julien Aerts	Release FR version, update pictures ,fixed typo, Malfunctions and DDE Descriptions and update section 3.1 ,4 ,4.1 ,4.7.6

Appendix B: Acronyms

Table 3 - Acronyms

Acronym	Literal Translation
CMV	Commercial Motor Vehicle
DOT	Department of Transportation
ЕСМ	Electronic Control Module
ELD	Electronic Logging Device
ERODs	Electronic Records of Duty Status
ECU	Engine Control Unit
FMCSA	Federal Motor Carrier Safety Administration
FMCSRS	Federal Motor Carrier Safety Regulations
FMS	Fleet Management System
J1939	Heavy duty truck communication protocol
OBD	On-Board Diagnostics
UM	User manual



Table 4 - Referenced Documents

Document Name	Document Location and/or URL	Issuance Date
Electronic Logging Device (ELD) Test Plan and Procedures	<u>https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/regulations/hours-service/elds/63881/eldtestplanandprocedures07-18-201721-all-chapters.pdf</u>	7/18/2017
ICD and Development Handbook	https://eld.fmcsa.dot.gov/File/Index/ca3647f7-9d0b-4048-a5c3-466e49cb0946	9/26/2017

What to do if a malfunction is not resolved within 24 hours

If an ELD does not resolve the malfunction within a 24-hour period, the driver must do the following:

1. Provide a written notice of the malfunction to the motor carrier within 24 hours.

2. Reconstruct the record of duty status for the current 24-hour period and the previous 7 consecutive days, and record the records of duty status on graph-grid paper logs that comply with § 395.8, unless the driver already possesses the records or the records are retrievable from the ELD.

3. Continue to manually prepare a record of duty status in accordance with § 395.8 until the ELD is serviced and brought back into compliance.

What if you have a road side inspection during a malfunction? The driver must provide the authorized safety official the driver's manual records of duty status on graph-grid paper logs that comply with 395.8.

Malfunction Event Definitions

Power compliance malfunction (P)

"Power compliance malfunctions" occur when an ELD is not powered for an aggregated inmotion driving time of 30 minutes or more over a 24-hour period across all driver profiles.

Engine synchronisation malfunction (E)

"Engine synchronization compliance malfunctions" occur when ECM connectivity to any of the required data sources (engine power status, vehicle motion status, miles driven, and engine hours) is lost for more than 30 minutes during a 24-hour period aggregated across all driver profiles.

Timing compliance malfunction (T)

A "timing compliance malfunction" occurs when the ELD can no longer meet the underlying compliance requirement to record Coordinated Universal Time (UTC), where ELD time must be synchronized with UTC, not to exceed an absolute deviation of 10 minutes at any time.

Positionning compliance malfunction (L)

When an ELD fails to acquire a valid position measurement within 5 miles of the commercial motor vehicle moving and 60 minutes has passed, a "position compliance malfunction" will be recorded in the data diagnostic.

Data recording compliance malfunction (R)

A "data recording compliance malfunction" occurs when an ELD can no longer record or retain required events or retrieve recorded logs that are not kept remotely by the motor carrier.

Data transfer compliance malfunction (S)

A "data transfer compliance malfunction" occurs when the ELD stays in the unconfirmed data transfer mode following the next three consecutive monitoring checks.

Other (O)

An "other compliance malfunction" occurs during technology specific operational health monitoring

5.3.1 How to transfer a roadside DOT inspection

1.When logged in, press on the roadside button displayed on the top navigation bar.

OFF DUTY

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HOME

2. You will now be able to select one of the transfer methods supported.

ROAD SIDE INSPECTION	×
Send Roadside Inspection	
by Web Service to authorities	
by Email to authorities	
by Email to user	
Or	
Show the compliant report on display	

3.Enter a comment if required by the inspector or press send directly.

ROAD SIDE INSPECTION	<
Enter a comment :	
Send	

4. Wait for the loading **5** icon to disappear and the transfer result to be shown.

THE DATA TRANSFER WAS NOT SENT.	THE DATA TRANSFER SENT WITH SUCCESS.
Close	Close

5. If both methods supported have failed, please use the compliant report on display option and pass your ELD device to the inspector.