



Buffalo Automation – Raven

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Document Information

Version History

Version	Date	Author	Reviewer
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Sign Off

Buffalo Automation

Title	Name	Signature	Date
Partner Name			
Title	Name	Signature	Date



Change Log

Page	Modified Section
Page 10	Updated 2.1.1 Set Hours of Service
Page 14	Updated 2.1.4 Driving Rules>Region
Page 16	Added 2.1.4 Driving Rules>Cycle (North Dakota 70hr7days)
Page 19	Added 2.1.4 Driving Rules>Exceptions (30 Minute Break Exemption for Petroleum Tank Drivers)
Page 20	Added 2.1.4 Driving Rules>Exceptions (No Logs for CDL Short-haul Drivers operating within 100 air miles (12 hour shift))
Page 20	Added 2.1.4 Driving Rules>Exceptions (No Logs for Short-haul Asphalt, Ready- Mixed Concrete Drivers or Non-CDL-Drivers operating within 150 air miles (14 hour shift)
Page 25	Updated 2.1.4 Driving Rules>Email Sender
Page 28	Updated 2.1.4 Driving Rules>Language
Page 33	New 3.3 Changing the Driver's Ruleset
Page 34 & 35	Updated 3.5 Start Break
Page 41	Updated 3.6 Data Transfer (Transfer via Web Service)
Page 54	Updated 5.2.10 Certify a Log
Page 55	Updated 5.2.11 Email a Log (via Server and via Mobile App)
Page 58	Added 5.2.12 Edit a Log > Change Current Status via Grid View Mode
Page 59	Added 5.2.12 Edit a Log > Modify Log Event via Grid View Mode
Page 76	Updated 5.4.2 DVIR Feature – Hours of Service Main Screen
Page 83	Updated 5.4.8 Finishing / Certifying Your DVIR
Page 84	Updated 5.4.9 Submit or Certify the DVIR
Page 88	Updated 6.3 Inspection Screen – Start Review
Page 93	7.4 Switching Equipment
Page 121	16 Warning Features>Lock Screen
Page 122	17 List of Login Errors>Login Errors

This section includes the following pages with the modified section details:



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Change History

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

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1 Main Screen

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

/ehicle disconnected		Connect
	John Doe Jr.	REMARK
	Truck2	DVIR
OffDuty >	None	
Time Remaining		DOCUMENT
	DATA TRANSFER	LOGS
00:00	START BREAK	OPTIONS

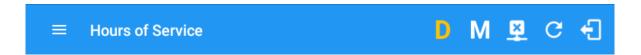
The main screen also provides essential information about the app's user:

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

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

1.1 Using the HOS Action Bar

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



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

Action Tool Name	Action Tool Icon	Description
Main navigation hamburger		Tap to open the main navigation menu of the application
Refresh Button	C	Tap to manually refresh the data in the app page. Hidden under submenu icon once all icons are present.



Logout Button	Ð	Tap to log out of the app, this will also set your status to Off Duty. Hidden under submenu icon once all icons are present.
Malfunction Button	Μ	Tap to see uncleared Malfunctions
Data Diagnostics Button	D	Tap to see uncleared Data Diagnostics. Turns into an accent color (based on the app's theme) if there are new events and turns white when already viewed.
VBUS Connectivity	<u>((**))</u>	Indicates that the device is connected to a VBUS device and turns to when disconnected. Hence, connection interruptions may occur which will turn into flashing icon while in a reconnecting state.
Pending Edit Request Button	Ę	Tap to display the pending edit request dialog, edit request is from Motor Carrier Edit Suggestions, correction of errors with Team Drivers, and Events logged under Unidentified Driver Profile.
Connect Button	Connect	Tap to display a dialog to Connect to Vehicle's VBUS Device. It has the same capabilities as the VBUS icon 2.

2 Customizing the Raven Preferences

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

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



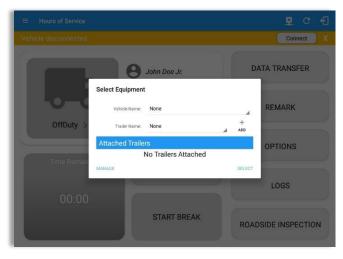
2.1 Hours of Service Settings

2.1.1 Set Hours of Service Preferences

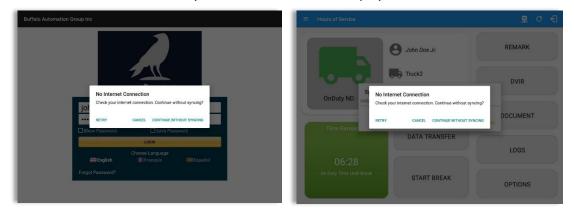
This is where the basic driver, vehicle, carrier and shipping data is entered and stored within the app. The identification data stored here is then used by the app, web portal and in the driver's daily log report.

After logging in to the app for the first time

When the app is used for the first time, the driver is taken directly to the Main Dashboard after which a Select Equipment dialog box will be displayed. It will continue to display until the user chooses a specified vehicle and trailer (if needed) to use. Driver can select option 'None' to use the app without selecting a vehicle.



Note: If you are logging in to the device that has no internet connection, the driver can login successfully to the app only if driver have logged in to the device before. Tap 'Continue without syncing' button to login. Logging into the app when app server is down will prompt a dialog stating that 'Unable to Communicate with HOS server. Check your internet connection displayed'.





2.1.2 Capturing the Driver's Signature

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

← Settings		
Settings House of Service converse of Venetors Veneto Base Settings Venice Base Data Configuration Communications Co	Hours of Service Driver Information One Jr. Other John Doe Other Jr. IA Other Jr. IA Other Jr. IA Driver Jr. IA Other Jr. IA Signature Image Password Image Password Openant Comment Image Password Image Password Carrier Information Image Password Image Password Carrier Information Image Password Image Password Carrier Dottion Image Password Image Password Openant Comment Image Password Image Password	The Driver Information section of the screen will be displayed along with any signature tha has been created for the driver. Tap on the icon to create or change the signature.
 ← Change Signature 	도 Create your signature here	Create or update your signature in the ap by using your finger to create your signature
← Change Signature Vehicle disconnected	ट०भर ट्रिट्र् Connect X Create your signature here	
	Doe Jr.	Tap the Done button to save your signature You can also select the Clear button to clea the captured signature and start again.



2.1.3 Customizing the Carrier Information

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

	Hours of Service			
GPS GPS Preferences	Carrier Information			
Vehicle Data Settings Vehicle Bus Data Configuration	Carrier	XYZ Company LLC	Ŧ	
Privacy Privacy Policy	Carrier DOT No	258963147		
About	Main Office	926 Jail Drive		
	Main Office	Macomb	IL.	61455
Device Device Preferences	Phone #	309-997-2116		
	Home Terminal	926 Jail Drive		
	Home Terminal	Macomb	IL	61455
	Driving Rules Country Cycle USA Home Terminal Time Zone	USA US 70hr8days Central (CST6CDT)		
	Start Hour of Day	10 am		

Enter details for the following:	
Carrier Name	
Carrier DOT Number	
Main Office Address	
Phone Number	
Home Terminal Details of the driver	

Note: The driver is allowed to select a specific Carrier Information if 'Allow driver ability to change carrier in portal->settings->account setting under Portal Controls and 'Allow Carrier Change' in Drivers Management page are enabled.



2.1.4 Driving Rules

This is where you change the HOS rules or the Federal Motor Carrier Safety Administration's (FMCSA) regulations that govern the hours that a commercial vehicle driver can legally accumulate driving or being on duty for a motor carrier in a working day and week. This is also where you apply the HOS rules exceptions.

The driving rules can also be set from within the Hours of Service section (*main navigation hamburger > Settings > Hours of Service*). You can scroll the screen down to the *Driving Rules* section:

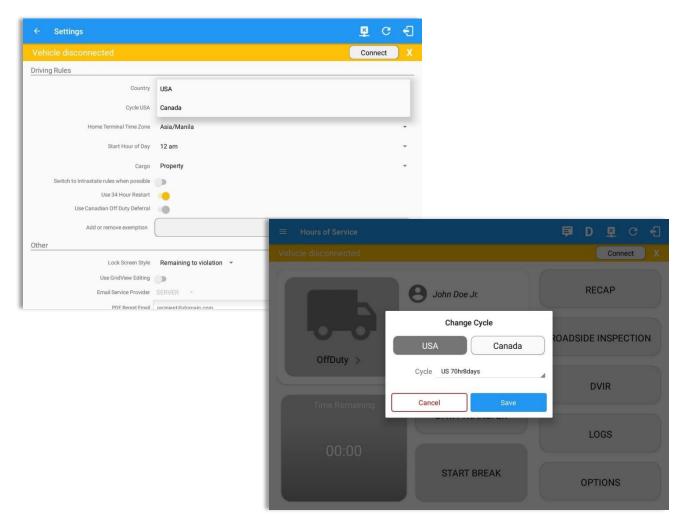
	Hours of Service		
GPS GPS Preferences	Driving Rules		
Vehicle Data Settings Vehicle Bus Data Configuration	Country	USA	,
Privacy Privacy Policy	Cycle USA	US 70hr8days	
About	Home Terminal Time Zone	Central (CST6CDT)	
Device Device Preferences	Start Hour of Day	12 am	
	Cargo	Property	,
	Switch to Intrastate rules when possible	•	
	Use 34 Hour Restart		
	Use Canadian Off Duty Deferral		
	Add or remove exemption	Exceptions	
	Other		
	Lock Screen Style	Remaining to violation 👻	
	Use GridView Editing		

Select the appropriate HOS rules that you would like the app to use from the drop-down list. You can customize the region, cycle, cargo, exceptions and time zone rules



<u>Region</u>

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



Note:

- If the region selected is Canada, then the condition "Canada Off-Duty Deferral" is enabled. This means that you are allowed to get an extra two hours of driving and on duty in a 24-hour period (day 1) and take the required extra two hours off on the following day (day 2). The Deferral status is shown on the Driver's Daily Logs.
- A remark will be recorded in Edit Logs screen with a note 'Changed to USA ruleset' or 'Change to Canada ruleset' if region is changed via the Setting screen or in Main Dashboard screen>Change Cycle dialog.



<u>Cycle</u>

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

Available Cycle Rules Options

	Cycle	Shift Limit	Drive Limit	Until Break	Break Left
US60hr7days	7 days	14 hours	11 hours	8 hours	30 minutes
US70hr8days	8 days	14 hours	11 hours	8 hours	30 minutes
Alaska70hr7days	7 days	20 hours	15 hours	8 hours	30 minutes
Alaska80hr8days	8 days	20 hours	15 hours	8 hours	30 minutes
California80hr8days	8 days	16 hours	12 hours	N/A	N/A

Interstate - Federal Rules

Intrastate Cycle Rules

	Cycle	Shift Limit	Drive Limit	Break Limit
Alabama60hr7days	7 days	15 hours	10 hours	N/A
Alabama 70hr8days	8 days	15 hours	10 hours	N/A
Florida 70hr7days	7 days	16 hours	12 hours	N/A
Florida 80hr8days	8 days	16 hours	12 hours	N/A
Illinois 60hr7days	7 days	14 hours	11 hours	N/A
Illinois 70hr8days	8 days	14 hours	11 hours	N/A
Maryland 70hr7days	7 days	16 hours	12 hours	N/A
Maryland 80hr8days	8 days	16 hours	12 hours	N/A
Massachusetts 60hr7days	8 days	14 hours	11 hours	N/A
Massachusetts 70hr8days	8 days	14 hours	11 hours	N/A



			-	
Michigan 60hr7days	7 days	14 hours	11 hours	30 minutes
Michigan 70hr8days	7 days	14 hours	11 hours	30 minutes
New Hampshire 60hr7days	7 days	14 hours	11 hours	N/A
New Hampshire 70hr8days	8 days	14 hours	11 hours	N/A
New York 60hr7days	7 days	14 hours	11 hours	N/A
New York 70hr8days	8 days	14 hours	11 hours	N/A
North Carolina 70hr7days	7 days	16 hours	12 hours	N/A
North Carolina 80hr8days	8 days	16 hours	12 hours	N/A
North Dakota 70hr7days	7 days	16 hours	12 hours	N/A
Pennsylvania 60hr7days	7 days	14 hours	11 hours	N/A
Pennsylvania 70hr8days	8 days	14 hours	11 hours	N/A
South Carolina 70hr7days	7 days	16 hours	12 hours	N/A
South Carolina 80hr8days	8 days	16 hours	12 hours	N/A
Tennessee 60hr7days	7 days	14 hours	11 hours	N/A
Tennessee 70hr8days	8 days	14 hours	11 hours	N/A
Texas 70hr7days	7 days	15 hours	12 hours	N/A
Wisconsin 70hr7days	70 days	16 hours	12 hours	30 minutes
Wisconsin 80hr8days	80 days	16 hours	12 hours	30 minutes
Vermont 60hr8days	7 days	14 hours	11 hours	N/A
Vermont 70hrs8days	8 days	14 hours	11 hours	N/A
Virginia 70hr7days	7 days	16 hours	12 hours	N/A
Virginia 80hr8days	8 days	16 hours	12 hours	N/A



	Cycle	Shift Limit	Drive Limit	Break Limit
Canada 70hr7days South	7 days	16 hours	13 hours	30 minutes
Canada 120hr14days South	7 days	16 hours	13 hours	30 minutes
Canada 80hr7days North	7 days	20 hours	15 hours	30 minutes
Canada 120hr14days North	7 days	20 hours	15 hours	30 minutes
Alberta Province		15 hours	13 hours	30 minutes

Canada Cycle Rules

	Hours of Service		
GPS GPS Preferences	Driving Rules		
Vehicle Data Settings Vehicle Bus Data Configuration	Country	USA	
Privacy Privacy Policy	Cycle USA	US 70hr8days	
About	Home Terminal Time Zone	Alaska 70hr7days	
Device Device Preferences	Start Hour of Day	Alaska 80hr8days	
	Cargo	Alabama 60hr7days	
	Switch to Intrastate rules when possible	Alabama 70hr8days	
	Use 34 Hour Restart Use Canadian Off Duty Deferral	California 80hr8days	
		Florida 70hr7days	
	Add or remove exemption Other	Florida 80hr8days	
	Lock Screen Style	Illinois 60hr7days	
	Use GridView Editing	Illinois 70hr8days	
		Maryland 70hr7days	

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

• Intrastate to Interstate driving rules

If the driver is operating in intrastate mode and is crossing over a state line then the app automatically switches to federal rules. A dialog will display confirming that the driving rules have changed right after crossing boundaries.



퇴 또 ~ {

ROADSIDE INSPECTION

TIONS

.0GS

DVIR

SHIFT/CYCLE

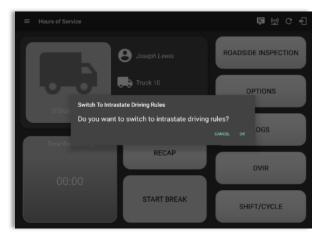
Example: SouthCarolina80hr8days to US70hr8days or SouthCarolina70hr7days to US60hr7days Time Remaining RECAP 07:59 0 Duy Time Unit Beak Time Remaining RECAP

• Interstate to Intrastate driving rules

The driver must also follow the Federal HOS regulations for a short period of time while operating in interstate commerce. If the driver were using the 60-hour/7-day schedule, he must follow the Federal HOS regulations for the next 7 days having done operating in interstate commerce. If you were using the 70-hour/8-day schedule, you must follow the Federal hours-of-service regulations for the next 8 days after you finish operating in interstate commerce.

Note:

To perform intrastate check, enable the option available in the Settings > HOS Preferences (however this check is optional). The user has the ability to whether or not perform to the checking.



Also, it is important for the driver to monitor the cycle used for the past 7 or 8 days.

<u>Cargo</u>

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



Available Cargo Rules Options

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

	Hours of Service			
GPS GPS Preferences		790 James Avenue		
Vehicle Data Settings Vehicle Bus Data Configuration	Home Terminal	Wichita	IL	61455
Privacy Privacy Policy	Driving Rules			
About	Country	USA		
Device	Cycle USA	US 70hr8days		
Device Preferences	Home Terminal Time Zone	Central (CST6CDT)		
	Start Hour of Day	12 am		
	Cargo	Property		
	Switch to Intrastate rules when possible	Passenger		
	Use 34 Hour Restart			
	Use Canadian Off Duty Deferral			
	Add or remove exemption		Exceptions	
	Other			

Exceptions

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

Available US Exceptions Options

- 2 Hour Driving Extension for Adverse Driving Conditions
- Relief from all driving rules for Emergency Conditions
- Oilfield Operations with 24-hour restart
- 30 Minute Break Exemption for Petroleum Tank Drivers
- 30 Minute Break Exemption for Short-Haul Drivers
- 30 Minute OnDuty break for Asphalt drivers



• No Logs for CDL Short-haul Drivers operating within 100 air miles (12-hour shift) *Note*: A warning dialog is displayed if the short haul driver broken the 100 air miles from the home terminal.

Warning!	
You exceed 100.0 air-mile radius	
	ок

- No Logs for Short-haul Asphalt, Ready-Mixed Concrete Drivers or Non-CDL-Drivers operating within 150 air miles (14-hour shift)
- 24 Hour Restart for Construction, Groundwater well-drilling
- 16 Hour Driving Window

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

Error	
The "16 Hour Driving Window Once Per Week" except already used in the current cycle.	ion is
	ок

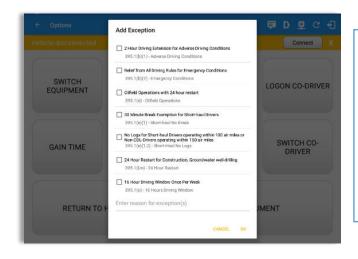
However, it is possible for the driver to add another '16 Hour Driving Window' exception when a cycle reset has occurred. Nevertheless, the driver will need to wait for the current cycle to end to be able to add the exception again.

- Utility Service Vehicle
- 30 Minute Break Exemption for Specialized Carriers & Rigging Association (SC&RA)
- Agricultural Operations *Note:* A confirmation dialog is displayed when using 'Agricultural Operations' exception.

		1000 0 0		200
	eption requires that			
	"Agricultural Comm	odity" in 49 CFR 3	95.1(k) an	a 8
395.2				

- Transport of Commercial Bees, Livestock
- Hi-rail 2-hour travel exclusion 395.1(w)
- Driver salesperson 395.1(c)
- Relief from Driving rules for State of Emergency 390.23
- California flammable tank drivers may drive 10 hours within a work shift



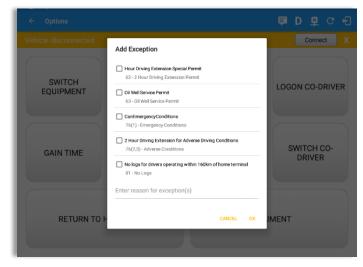


Select the appropriate exception from the list. You must then enter a reason for applying the exception in the Enter reason for exception(s) field. Once complete, select the **OK** option to apply the selected exception.

Note: Exceptions are different depending on the Region selected.

Available Canada Exceptions Options

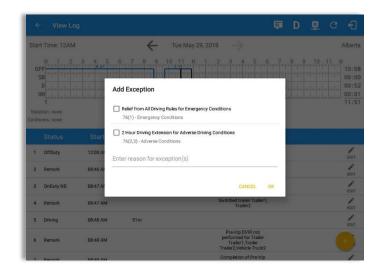
- 2 Hour Driving Extension Special Permit
- Oil Well Service permit
- CanEmergencyConditions
- 2 Hour Driving Extension for Adverse Driving Conditions
- No Logs for drivers operating within 160km of home terminal





Available Alberta Province Exceptions Options

- CanEmergencyConditions
- 2 Hour Driving Extension for Adverse Driving Conditions



<u>Time Zone</u>

	Hours of Service		
GPS GPS Preferences	Driving Rules		
Vehicle Data Settings Vehicle Bus Data Configuration	Country	USA	
Privacy Privacy Policy	Cycle USA	US 70hr8days	
About	Home Terminal Time Zone	Arizona	
Device Device Preferences	Start Hour of Day	Mountain (MST7MDT)	
	Cargo	Northwest Indiana	
	Switch to Intrastate rules when possible	Saskatchewan	
	Use 34 Hour Restart Use Canadian Off Duty Deferral	Central (CST6CDT)	
	Add or remove exemption	Eastern (EST5EDT)	
	Other	Atlantic	
	Lock Screen Style	Canada/Newfoundland	
	Use GridView Editing	Asia/Manila	

Select the driver's Home Terminal time zone. Time zones available are: Hawaii America/Anchorage Pacific Time (PST8PDT) Mountain Time (MST7MDT) Saskatchewan Central Time (CST6CDT) Eastern Time (EST5EDT)

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Atlantic Canada/Newfoundland Asia/Manila



PDF Report Email Recipients

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

	Hours of Service		
GPS GPS Preferences	Cycle USA	US 70hr8days	*
/ehicle Data Settings /ehicle Bus Data Configuration	Home Terminal Time Zone	Central (CST6CDT)	*
Privacy Privacy Policy	Start Hour of Day	12 am	*
About	Cargo	Property	*
Device	Switch to Intrastate rules when possible	•	
Device Preferences	Use 34 Hour Restart		
	Use Canadian Off Duty Deferral		
	Add or remove exemption	Exceptions	
	Other		
	Lock Screen Style	Remaining to violation 👻	
	Use GridView Editing		
	Email Service Provider	SERVER -	
	PDF Report Email	recipient@domain.com	

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

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

Lock Screen Style

The user has the ability to control the lock screen display. There are two (2) types available: new 'Remaining to violation' lock screen or the old '4 clocks' lock screen.



	Hours of Service		
GPS GPS Preferences	Cycle USA	US 70hr8days	÷
Vehicle Data Settings Vehicle Bus Data Configuration	Home Terminal Time Zone	Central (CST6CDT)	*
Privacy Privacy Policy	Start Hour of Day	12 am	-
About	Cargo	Property	*
Device	Switch to Intrastate rules when possible		
Device Preferences	Use 34 Hour Restart		
	Use Canadian Off Duty Deferral		
	Add or remove exemption	Exceptions	
	Other		
	Lock Screen Style	Remaining to violation	
	Use GridView Editing	4 Clocks	
	Email Service Provider	SERVER -	
	PDF Report Email	recipient@domain.com	

Use Grid View Editing

The user has the ability to use grid view editing. Once enabled, user can also set the edit increment time. (See Section 5.2.12 Editing a Log) Grid View Editing feature is in Android app only.

	Hours of Service		
GPS GPS Preferences	Cycle USA	US 70hr8days	Ŧ
Vehicle Data Settings Vehicle Bus Data Configuration	Home Terminal Time Zone	Central (CST6CDT)	Ť
Privacy Privacy Policy	Start Hour of Day	12 am	Ť
About	Cargo	Property	
Device	Switch to Intrastate rules when possible		
Device Preferences	Use 34 Hour Restart		
	Use Canadian Off Duty Deferral		
	Add or remove exemption	Exceptions	
	Other	1 min	
	Lock Screen Style	5 min ning to violation 👻	
	Use GridView Editing	15 min	
	Edit Increment	15 min 👻	
	Email Service Provider	SERVER -	
	PDF Report Email	recipient@domain.com	

Display Street Address

Display Street address option will allow drivers to select where to get the location if it is the actual location or the nearest City with 5,000 population when in AOBRD mode. The option will only display for drivers that have permission which is set by the personnel in



the portal->Account Settings under App Controls > 'Display Street Address for AOBRD mode'.



Email Sender

There are (2) two email sender options: via Server or Mobile App. Email Sender setting can be change on the portal->account settings under App Controls -> Email Sender.

	Hours of Service		
GPS GPS Preferences	Cycle USA	US 70hr8days	
Vehicle Data Settings Vehicle Bus Data Configuration	Home Terminal Time Zone	Central (CST6CDT)	
Privacy Privacy Policy	Start Hour of Day	12 am	9
About	Cargo	Property	
Device	Switch to Intrastate rules when possible	0	
Device Preferences	Use 34 Hour Restart		
	Use Canadian Off Duty Deferral		
	Add or remove exemption	Exceptions	
	Other		
	Lock Screen Style	Remaining to violation 👻	
	Use GridVlew Editing		
	Email Service Provider	SERVER #	
	PDF Report Email	recipient@domain.com	

2.2 Vehicle Data Settings AOBRD Speed Threshold

For vehicle in AOBRD mode, speed threshold setting is dependent on what is set on the portal->account settings under App Controls -> AOBRD Speed Threshold. The default value is 100 Mph/Kph. (For example: When the set AOBRD Speed Threshold is 100



Mph/Kph, lock screen will be shown and the app will be in driving state once the vehicle speed threshold reached to 100 mi/hour)

Hours of Service Set Hours of Service Preferences	Vehicle Data Settings	
GPS GPS Preferences	AOBRD Speed Threshold	
Vehicle Data Settings	Vehicle considered moving when traveling over 100 mi/hour	
Vence has Card Configuration Privacy Policy About Device Device Preferences	Set VBUS Update Interval Update VBUS data every 5 minutes	
	Debug VBUS Service Launch activity to show current VBUS data	
	Review VBUS Device Connectivity Launch Activity to Review VBUS Device Connectivity	

Also, drivers have the ability to set speed threshold on the app->Vehicle Data Settings->AOBRD Speed Threshold only if the driver is allowed. To allow a specific driver, enable the option which can be seen in portal->Drivers Management Page->Set AOBRD Speed Threshold option.

Page 26

2.3 Device Preferences Unit of Distance

Setting the default unit of measures

Unit	of Distance	
۲	miles	
0	kilometers	
		CANCEL

Disable Notification Sound

The application has a Mute button to silence all sounds that could come from the application. Also, the ELD rules state that all application sounds should be muted during Sleeper status. However, the mobile device should not be muted so that sound will be available for phone calls.

Disable Notification Sound	(m)
Mutes all notifications sound	

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



Color Theme

Displays option for selecting Color Theme

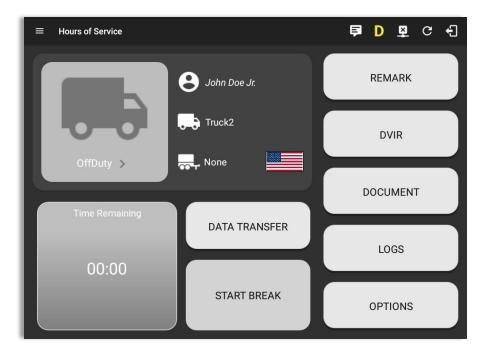


\equiv Hours of Service	C f
\equiv Hours of Service	C +1
\equiv Hours of Service	G f
\equiv Hours of Service	G f
	C f
\equiv Hours of Service	C +1
\equiv Hours of Service	C f

Night Theme



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





Language Support

The application supports language translation for French-Canadian (Francais (Canada)) and Spanish (Español (Estados Unidos)).

To enable the desired translation, select the supported language located below the Login button and the translation will take effect immediately.

Buffalo Automation Group Inc	n				
Afficher le mot de passe	← Heures de service			🗜 C 🕂	
SIDENTIFIER Choisir la lang English Mot de passe oublié?	alfonso@yopx.com Appage par apose to modifier & plane Heures de service Sites d'emplois	Alfonso Tran II	ROADSIDE IN		
	Q DVIR Ordres de travail Contras de travail Contras de commutation	AAN 2563	OPTIO	NS	
	Loppeniar de communation		LOG	5	
	Rejets de carburant	RECAP			
	🕸 Paramètres		DVIF	2	
	Aide et soutien Se déconnecter				
	- Se deconnectar	← Opciones			₽ D M ₽ :
		Vehículo desconectado			Conectar X
		EQUIPO DE INTERRUPTOR	DOCUMENTOS DE ENVÍO	OBSERVACIÓN	CONDUCTOR DE INICIO DE SESIÓN
		GANA TIEMPO	EXCEPCIÓN	TRANSFERENCIA DE DATOS	CO-CONDUCTOR DEL INTERRUPTOR
		VOLVER A LA P Adverten	PANTALLA HOS		MENTO



3 Familiarizing the Hours of Service Main Screen Tiles

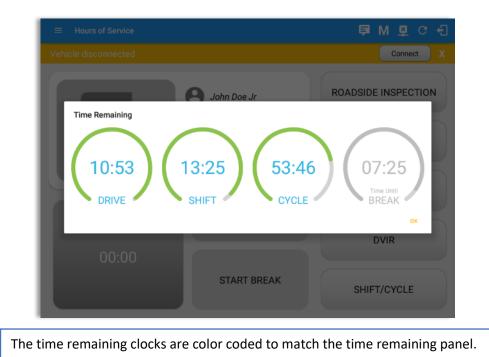
3.1 Time Remaining Tile

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





Tap the time remaining panel to view the Time Remaining Clocks. *Note:* For Canadian Rules, a 14 hour On Duty limit on time remaining clock is shown



3.2 Changing the Driver's Duty Status

To change the duty status of the driver, tap the Duty Status button and select the appropriate driver duty status.

Available	Duty	Status	Op	otions	

Duty Status Icon	Duty Status	Duty Status Icon	Duty Status
Off Duty ~	Off Duty	OnDuty ND -	On Duty
Sleeper ·	Sleeper Berth	WELL SITE -	Waiting at Site
Driving -	Driving		



		₽ ₽	C f		
Vehicle disconnected	Change Current Status OffDuty Sleeper Driving OnDuty ND	DATA TRANSF	ect X		
OnDuty ND >	Personal Use Yard Moves Location: 5mi NNE Etobicoke, ON		← View Log Start Time: 12AM	🗲 Tue Aug 14, 2018	US70hr8days
Time Remaining	Odometer: <u>62400</u> mi	OPTIONS	0FF	Create Event for Tue Aug 14	6, 7, 8, 9, 10, 11, M 00:00 00:00
03:07	Note: Add Note	LOGS	D 0N 11 12	Start: <-15 12:54 AM +15> Duration: 0 minutes Status: OffDuty	00:00 00:00 00:54 00:54
On Duty Time Until Break	Cancel Save	ROADSIDE INSPE		Location: <mark>5mi NNE Etobicoke, ON Odo 62400 mi</mark>	+ + EXCEPT ADD
			1 OnDuty ND 12:00 AM 2 Remark 12:06 AM	Note: Add Note	EDIT EDIT
			3 Remark 12:14 AM *Edited entries +Inactive IC+Changed, ICR+Change Requested	☐ Personal ☐ Yard Use Moves CANCEL OK	EDIT

Tapping the duty status button will show the *Change Current Status* pop up dialog. While creating event in Edit Logs screen, you can adjust the duration of the duty status event by tapping the Previous 15 minutes Time Interval button to increase the time duration and the Next 15 minutes Time Interval button to decrease the time duration. However, these buttons are disabled prevent time from going before or after the current day. (eg. 12:00AM – 11:59PM).

- If Personal Use is enabled, the status will be set to Off Duty automatically and will disable the other checkboxes. Selection of this option will be recorded within the events history. Events except Off Duty will not be displayed in the grid but is displayed in the event history list. Off duty will always be the display in the grid and when the driver makes an automatic event, lock screen will also be shown.
- If Yard Moves is enabled, the status will be set to On Duty automatically and will disable the other checkboxes. Selection of this option will be recorded within the events history. Events except On Duty will not be displayed in the grid but is displayed in the event history list. On Duty will always be the display in the grid and when the driver makes an automatic event, lock screen will also be shown.

Notes:

- A static notification on screen is visible when driver is currently in Personal Use or Yard Moves.
- Attempt to create or edit an event such as Off Duty, On Duty, Sleeper Berth in the middle of an automatically Driving event is not allowed, instead an error dialog is displayed stating "Error: shortening of prior driving event is not allowed. Select a time before or after the driving event."



When the app is able to obtain a valid GPS fix, the *Location* field will be automatically populated with the current location information of the user. If there is no GPS fix, the *Location* field will remain blank, in this instance; you must manually input the relevant details.

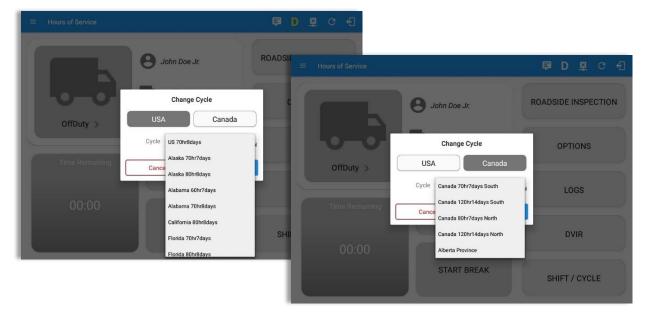
Once all relevant details have been entered and the correct duty status selected, tap the **OK** button to save the new duty status event. You can also select the **Cancel** button to cancel adding the selected duty status.

Changing the status to On Duty or Driving also enables the options for '**Personal Use**' and 'Off Road'. Personal Use is mentioned in the FMCSA's Supplemental Proposal, which was published on March 28, 2014, that mandates ELDs for most drivers of CMVs that currently log. The proposal says that ELDs may be set up to allow drivers to put themselves in a special driving category called "personal use." When a driver selects this option, the ELD will record the time as off duty until the driver de-selects the option. **Off Road**, on the other hand, means that the vehicle is running on rough terrain. Lastly, **Yard Moves**, has been established under a mandate which allows a driver or another personnel to perform duties like moving trucks around the home yard by establishing a single set of thresholds for all ELDs in an On Duty, not Driving status without triggering the device by reaching the thresholds.



3.3 Changing the Driver's Ruleset

The country flag (US sor Canadian) indicates the ruleset the driver is currently using. To change the drivers' ruleset, tap the on the country flag and select the appropriate driver country/ruleset from the dialog.



Note: For new drivers, the set default country in the driving rules is based on the device's location.

3.4 Recap

Day	Date	Hours Worked	Available Time	Hours Gained		the Reca
Tue	May 01	00:00	70:00		recap	informat
Wed	May 02	00:00	70:00			
Thu	May 03	00:00	70:00		da	y and cor
Fri	May 04	00:00	70:00			
Sat	May 05	00:00	70:00			
Sun	May 06	00:00	70:00	Recap		
Mon	May 07	07:04	62:56	Recap		2225
Tue	May 08	03:21	59:35	Day	Date	Hours Worked
		34 Cycle Reset on Wednesd		mu	way ro	00.00
Wed	May 09	00:00	70:00	Fri	May 11	02:35
Thu	May 10	00:00	70:00			34 Cycle Reset on Satu
Fri	May 11	02:35	67:24	Sat	May 12	00:00
		34 Cycle Reset on Saturda		Sun	May 13	00:00
Sat	May 12	00:00	70:00	Mon	May 14	00:00
Sun	May 13	00:00	70:00		Total hours	worked since cy
				Tue	May 15	07:00
				Wed	May 16	
				Thu	May 17	
				Fri	May 18	

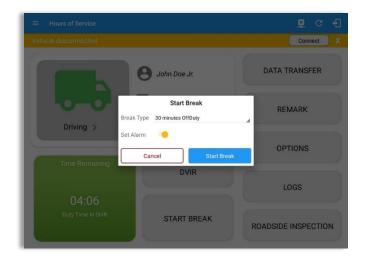
Tap the Recap button to bring up the recap information for the specified duty day and corresponding cycle data.

ecap				
Day	Date	Hours Worked	Available Time	Hours Gained
rnu	way to	00:00	70.00	00:00
Fri	May 11	02:35	67:24	00:00
		34 Cycle Reset on Saturda	у	
Sat	May 12	00:00	70:00	00:00
Sun	May 13	00:00	70:00	00:00
Mon	May 14	00:00	70:00	07:04
	Total hours	worked since cycl	e reset: 00:00	
Tue	May 15	07:00	62:58	03:21
Wed	May 16		62:58	
Thu	May 17		62:58	
Fri	May 18		62:58	02:35
Sat	May 19		62:58	
Sun	May 20		62:58	
Mon	May 21		62:58	
	May 22		70:00	

3.5 Start Break

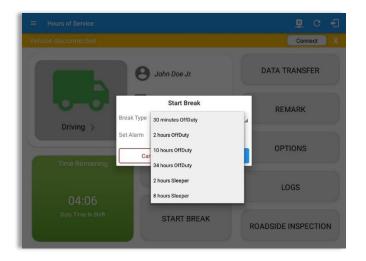
The *Start Break* button will be disabled when the duty status is *Off Duty, Sleeper Berth* or *Waiting at Well Site*.

The *Start Break* button will be enabled when the duty status is *On Duty* or *Driving*.



Once you tap the *Start Break* button, a pop-up dialog will be displayed with the following options:

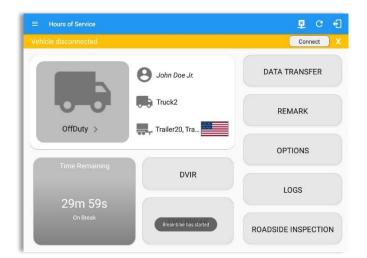
Break Type: Select from the dropdown list how long you would like your break to be. **Set Alarm**: (Enabled by default) Toggle button to disable or enable. If enabled, an audio alarm is played when break is over. If disabled, no audio alarm when break is over.

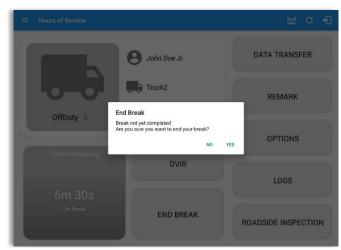


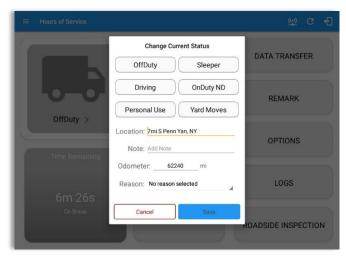
Break Type Options:

- 30 minutes OffDuty
- 2 hours OffDuty
- 10 hours OffDuty
- 34 hours OffDuty
- 2 hours Sleeper
- 8 hours Sleeper









If *Start Break* button is being tapped, then:

- It sets the status to OffDuty/Sleeper (depending on the break type selected)
- The 'Start Break' button turns to 'End Break'.
- The Time Remaining button turns to On Break.

If *End Break* button is being tapped, then:

 It set status 'Driving' (if the vehicle is moving) and driver can set status manually (if the vehicle is not moving).



3.6 Data Transfer

Selecting the *Data Transfer* button from the *Options Screen* will display the list of supported data transfer options.

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

← Options			ଅଟେ €
Vehicle disconnected			Connect X
SWITCH EQUIPMENT	SHIPPING DOCS	REMARK	LOGON CO-DRIVER
GAIN TIME	EXCEPTION	DATA TRANSFER	SWITCH CO- DRIVER
RETURN TO	HOS SCREEN	DOCU	IMENT

Tap the **Data Transfer** button to transfer data of the compilation of the driver's ELD records. Once tapped, a selection of the supported data transfer options by the ELD will prompt to the user. For iOS app, the available data transfer services are thru Bluetooth, Email and Web Services only.

Data Transfer via	Data Transfer via
Select Vehicle: Truck1	Select Vehicle: All Vehicles 🗸
🛞 Bluetooth	🛜 Bluetooth
USB	Email
M Email	
🚱 Web Service	Web Service
CANCEL	CANCEL
Android app Data Transfer options	iOS app Data Transfer options

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



Tap the *Select Vehicle* menu to show the list of vehicles used by the driver.

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

For **Android app**, list of vehicle/s are displayed in drop down list which allows to select a specific vehicle or 'All Vehicles' in Data Transfer.

Select Vehicle: Bluetooth	All Vehicles Truck3 Truck2	
USB	Truck1	
M Email		
Reb Servic	e	
		CANC

For **iOS app**, list of vehicle/s are displayed in checkboxes. The app allows to select specific vehicle(s) to be included in ELD output file. The list of vehicles displayed are the vehicles that the driver used within the current cycle.

Select or deselect a vehicle by tapping the checkbox button. Tap OK button to save selection.

Select Vehicle:	
All Vehicles	
Truck900	
Truck600	
└ Truck400	
	ОК

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

Output File Comment Comment here	
	Chars left:60
	CANCEL OK

Allow?	on is requesting permission to turn on Blu	
	NO	YE



You will then be asked to pick the device to which the ELD output file will be transmitted via Bluetooth tethering.

← Roadside Inspection			D C		
			Connect X		
	to for the current 24-bour veried and the Data Transfer via Paired Bluetooth Devices AX7_BT40 BCOE529AB1E7 Inspector 1079A4876974 OBDI 001DA5150041 SCAN	MM CANCEL		₽ C €	
				Connect X	
	Data Tr	Connecting to bluetooth device	PAR CMCEL		
		← Roadside Ins	pection		C
		Review	logs for the current 24-ho	on Mode: ELD 395.20 ur period and the previous 14 on and give your device to the Dot Officer	consecutive days
				Start Review	
		En	Transfer data of the	Compliation of the driver's ELD records Compliation of the driver's ELD records Compliation of the driver's ELD records Compliation Compli	Español

After the data transfer process is successful, a toast message will then display at the bottom stating that the 'ELD Output File Transferred'.



• **Transfer via USB (Android Only)** - this option enables the user to transfer files through USB (external devices).

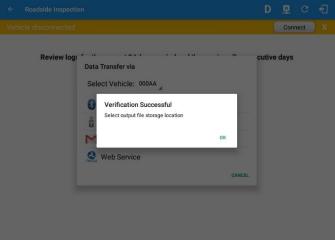
After selecting a data transfer option, the ELD prompts for an output file comment which the driver may enter (optional). The ELD accommodates the entry of an output file comment up to 60 characters long.

	Chars left:60
--	---------------

Prior to saving the driver's ELD file to an external storage/device, the ELD must read a verification text file from the USB device provided by the Authorized Safety Officials. This can be done by selecting the path where the verification file is located on the Safety Official's USB device.

Select verification file			
/storage			
1			
UsbDriveA		Select ELDUSBTX.TXT file?	
sdcard0			NO YE
emulated			
	CANCEL		

If the verification process is successful, a 'Verification Successful' dialog will display.





	😑 DATA TRANSFER ELD FILES 👻	
Once 'OK' button is tapped, then the driver can now select on where to save the ELD file.	€ Samso028 200 PM	
		SELECT

Upon confirmation, the ELD generates the compliant output file and performs the data transfer. A toast message will display at the bottom stating that the 'ELD Output File Transferred'.

Note: You cannot transfer a file via USB when the verification file on the device is not the same as the verification file on the inspector's USB drive. If this issue occurs a toast message will display stating 'Invalid verification file'.

Transfer via Email - this option enables the user to transfer files through email. The ELD output file transferred is encrypted using AES-256 in FIPS Publication 197. Before sending, the ELD prompts for an output file comment which the driver may enter (optional).

Output File Comment Comment here	
	Chars left:60
	Ghars lett.00

After the data transfer process is successful, a toast message will then display at the bottom stating that 'ELD Output File Transferred'.

Note: Data transfer via email is sent to fmcsaeldsub@dot.gov.

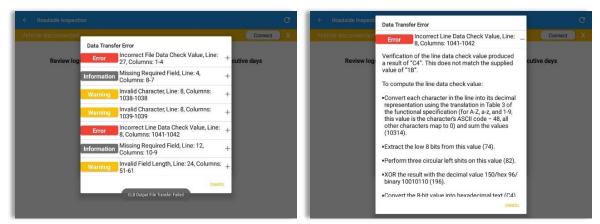


• **Transfer via Web Service** - this option enables the user to submit ELD output files, and verify that the ELD's certificate, ELD Identifier, and Registration ID are still valid.

← Roadside Inspection	<u>₽</u> C ~{]
Vehicle disconnected	Connect
Review logs for the current 24-hour period and the previous 7	7 consecutive days
Data Transfer via	
Select Vehicle: All Vehicles	← Roadside Inspection C
8 Bluetooth	
Transferring data output	Regulation Mode: ELD 395.20
1 2 3 Email	
q w Web Service	Review logs for the current 24-hour period and the previous 14 consecutive days Tap 'Start Review' button and give your device to the DOT Officer
a suiyiijk ŵzxcybnm	Start Review
Ctri 11@ 13 · English (US) >	Data Transfer Transfer data of the compilation of the driver's ELD records
	Data Transfer
	Tap for instructions. ELD Output File Transferred
	English I Français Español

After the data transfer process is successful, a toast message will then display at the bottom stating that 'ELD Output File Transferred'.

However, if data transfer is not successful, a toast message will then display at the bottom stating that 'ELD Output File Transfer Failed' with corresponding data transfer error messages.





3.7 Options

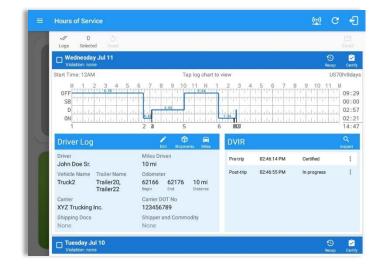
Selecting the *Options* button from the *HOS Main Screen* will display the *Options* module:

← Options			₽ C €
Vehicle disconnected			Connect X
SWITCH EQUIPMENT	SHIPPING DOCS	REMARK	LOGON CO-DRIVER
GAIN TIME	EXCEPTION	DATA TRANSFER	SWITCH CO- DRIVER
RETURN TO	HOS SCREEN	DOCU	IMENT

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

3.8 Logs

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

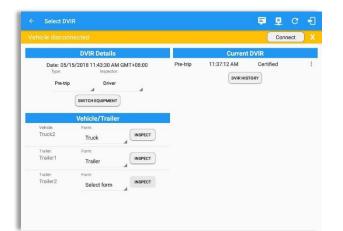


Scroll the screen to view all of the information, or, tap the log grid to view the log events.



3.9 **DVIR**

Selecting the **DVIR** button from the **HOS Main Screen** will display the Select DVIR screen:



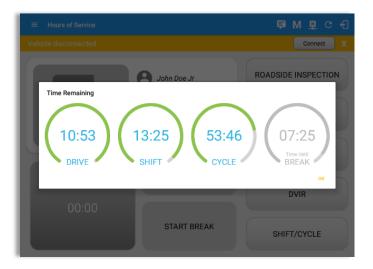
- DVIR can be created to suit the vehicle types, all DVIRs will be displayed on this screen.
- DVIR History can be viewed by tapping the DVIR History button in the DVIR screen.

Note:

- When switching the vehicles, the equipment's will be displayed along with their associated forms. Changing the forms used will pop up a message dialog stating "Are you sure you want to use a different form?" with a 'Cancel' or 'Ok' button.
- Highlighted text only displays when conducting an inspection for the first time and that no DVIR forms are associated to the current equipment used.

3.10 Shift/Cycle

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





4 Check Driver Availability

← Options			<u>I</u>	₽ C (]			
Vehicle disconnected			Gor	nnect X			
SWITCH EQUIPMENT SI	HIPPING DOCS	REMARK	LOGON C	Contions			티 D D C 신
							Connect X
GAIN TIME	EXCEPTION	DATA TRANSFER	SWITC	SWITCH EQUIPMENT	Gain Time At Shift Re Today at 0		LOGON CO-DRIVER
RETURN TO HOS S	SCREEN	DOCU	IMENT	GAIN TIME	Hours Ga 11:C	ained	SWITCH CO- DRIVER
				RETURN TO HO	DS SCREEN	DOC	UMENT

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



5 Driver Logs

The *Driver Logs* allows you to view and update the electronic recording of your duty status events in the Raven app's online driver logs. This is where you also store shipment data, send the certified logs to its intended recipients and manage other driving duty information.

				<u>R</u>	c +I							
Vehicle disconnected				Conn	ect X							
V 0 5 Logs Selected Repet												
Monday Jul 16 Violation: 30					() 🖸							
Start Time: 12AM	Tap log chart to v	riew			US70hr8days							
M 1 2 3 4 5 OFF		3:49	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	8 9 10 1 	04:15 00:48 08:04 03:54 17:01							
Driver Log	🖍 🕎 🛱 Edit Shipments Miles	DVIR			Q Inspect							
Driver John Doe Jr.	Miles Driven 205 mi	Pre-trip	12:54:56 PM	Certified	:							
Vehicle Name Trailer Name Truck2 Trailer20, Trailer22	Odometer 62120 62325 205 mi Begin End Distance	Post-trip	12:58:54 PM		Hours of Ser	vice					<u>R</u>	c (
Carrier	Carrier DOT No			Vehic	le disconne	cted					Conne	ect
XYZ Trucking Inc. Shipping Docs	123456789 Shipper and Commodity			6	V 0 Logs Select	ted Renet						
None	None			1	0FF SB D 		6 7 8 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1 M 04 00 08 08 08 03 17
					Driver Log)	Edit Shipme		DVIR			Q Inspec
					Driver John Doe Jr.		Miles Driven 205 mi		Pre-trip	12:54:56 PM	Certified	;
					Vehicle Name Truck2		Odometer 62120 62325	205 mi	Post-trip	12:58:54 PM	In progress	:
				l	Carrier XYZ Trucking Shipping Docs None	Trailer22	Begin End Carrier DOT No 123456789 Shipper and Commu None	Distance				
					Sunday Ju	ine						D Ce
					Saturday .	Jul 14 me					K Br	D Ce

Scroll the screen to view all of the information, or, tap the log grid to view the log events. The daily log for the current day will be in expanded view by default. The daily driver logs for the previous days will be in collapsed view.

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

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



5.1 Using the Driver Logs Bulk/ Multiple Selection Functions

The first part of the Driver Logs user interface feature controls and information for the bulk/multiple selection features. These controls will allow you to perform features for multiple selected driver logs.

Function icon	Function	Description
Logs	Selection Button	Tap the button to select all certified logs
0 Selected	Selected Logs Counter	This shows the number of selected certified driver logs
5 Reset	Reset Button	This clears/deselects all of the selected driver logs

5.2 The Driver Logs Accordion Header Features

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



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

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

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



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

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





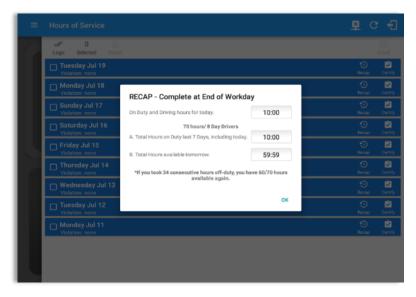
5.2.3 Daily Driver's Title Log (Recertify Log)



When a certified log has been edited in the portal, it prompts the driver to either accept or reject the proposed changes through the "Edit Suggestions" dialog. Once the driver accepts an edit request, it will display a note on the daily driver's title log stating "*Recertify*", which indicates the log needs to be certified again in order to include the records changes.

5.2.4 Recap

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

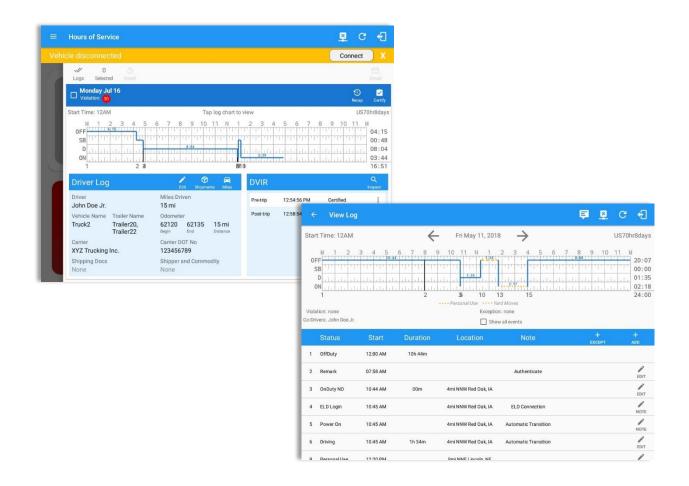


Tapping the *Recap* button will display a complete recap for the end of the workday including:

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

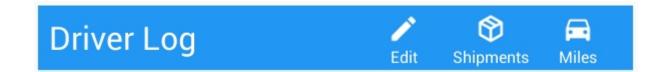


5.2.5 Daily Drivers Log Grid



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





5.2.6 Edit Daily Drivers Log Form

Logs Selected	2			
Uiolation: none	Driver Log Form DRIVER INFORMATION			Cop C
Start Time: 12AM	Driver Name John Doe Jr.			A
0FF 0FF	VEHICLE INFORMATION		8 9 10 1	1 M 08
SB	Vehicle Name Truck2	Trailer Name None	ALCAR ON ALC	00
D ON Alterations		SWITCH EQUIPMENT		
	Carrier XYZ Trucking Company			09
Driver Log	Carrier DOT No 123456789			Q Inspe
Driver	SHIPPING DOCS INFORMATION		In progress	
John Doe Jr. Odometer	B/L or Manifest No.			
303 303 Begin End	Shipper & Commodity			
Carrier XYZ Trucking Con Shipping Docs		CANCEL SAVE		
None	None			
Unitation: none				9

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

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

Driver Information

- a) *Driver Name* displays the name of the driver.
- b) Vehicle Information
 - Vehicle Name displays the name of the current Vehicle of the driver.
 - Trailer Name displays the name of the current Trailer of the driver.
 - Switch Equipment tap this button to launch the Switch Equipment dialog to select another Vehicle or Trailer names.
 - Carrier a non-editable field which displays the Name of the Carrier.
 - Carrier DOT Number a non-editable field which displays the Carrier DOT Number.



c) Shipping Information

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

5.2.7 Shipment Details

17	Logs Selecte	d Breat					Emál
	Violation: n	SHIPMENT D	ETAILS			10 Recap	Certi
	Start Time: 12/		SHIPMENT WEIGHT	S ON TRUCK FROM			Albe
	M 1	URDER NU.	WEIGHT	PROM	10	9 10 11	м
	OFF					STATISTICS.	08:3
	SB						00:0
	ON					al databat	
	1					LI LL LL LL LL LL	09:0
	Driver Lo		SHIPMENTS U	NLOADED TODAY			Q
		ORDER NO.	COLLECT OR BILLED		MAILED PAPERS FROM		Inspect
1	Driver					n progress	:
	John Doe						
	Odometer 303 30						
	Begin Enc				CANCEL OK		
	Carrier						
	XYZ Trucki						

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

Note: The data that can be included in this form is listed on the next page

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

Shipments on Truck

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

Shipments Unloaded Today

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



5.2.8 Miles Driven by State

	V 0 5 Logs Selected Reset										
	U Wednesday May 16									S Recap	Cert
	Start Time: 12AM		50 0.00			071750					Albe
	M 1 2 3 4					STATES	FUEL	6 7			
	OFF SB	ODE	STATE		· · · · · · · · · · · · · · · · · · ·	ROUTED NO.	TICKETS	ALC: NO.			08:3
				0	0						00:0
	D ala ala ala ala ala ala			0	0						00:1
	1			0	0			and a state of the state of the			09:0
	E TOTAL COMPANY			0	0						Q
1	Driver Log			0	0						
	Driver			0	0			7:28 AM	In progres	s	:
	John Doe Jr.		TOTAL:	0	0						
	Odometer 303 303 0 mí Begin End Distance					CANCEL	ок				
	Carrier		Carrier DO								
	XYZ Trucking Company	3	1234567	89							
	Shipping Docs None		Shipper ar None		dity						

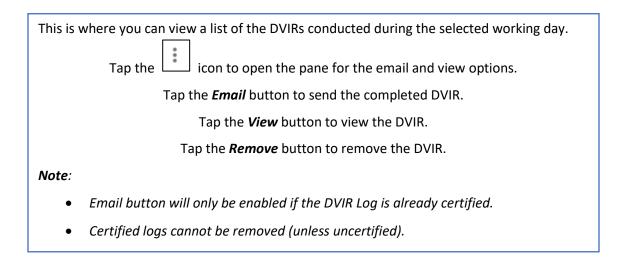
Tap the *Miles* button to open the *Miles Driven Today by States* dialog. This is where you can fill in the shipment data that is required to be included in the driver's daily log. Required data includes:

Code State Loaded Empty Routed Number Fuel Purchased Tickets Attached



5.2.9 DVIR

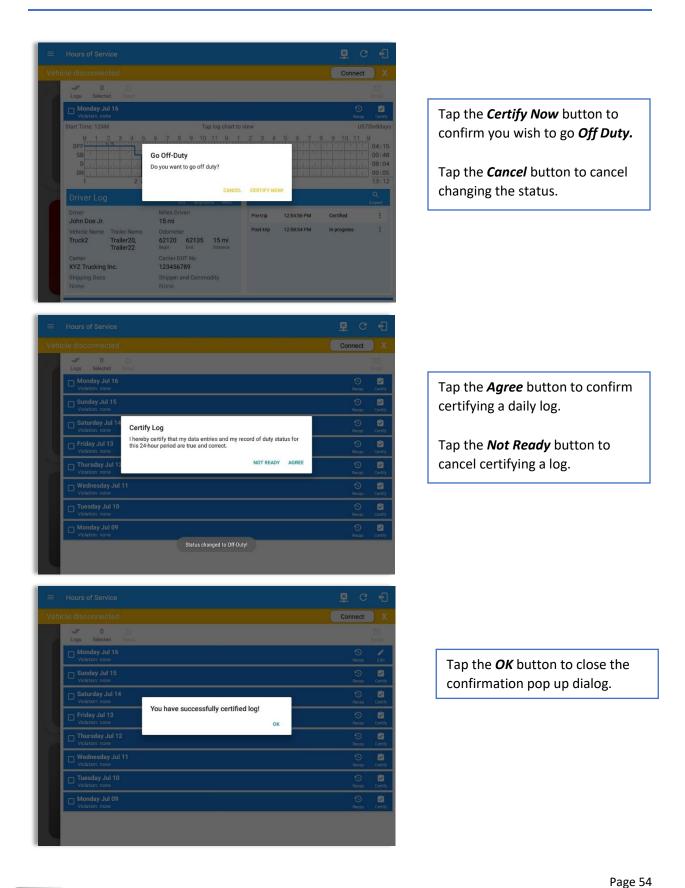
								Connec	t X
	√ O Logs Selected	S Reset							Email
	Violation: 30	16						(S) Reca	
	Start Time: 12AM			Тар	o log chart to	view		U	S70hr8day
	M 1 2 OFF 5B D 1 1 1 4 ON 1		6 7 8	ubidui		1 N N		3 9 10 11 11 11 11 11 11 11 11 11 11 11 11 11	00:09 13:09
6	Driver Log		Edit	Shipmen	nts Miles	DVIR			Q Inspect
	Driver John Doe Jr.		Miles Drive 15 mi	en		Pre-trip	12:54:56 PM	Certified	÷
	Truck2	Trailer Name Trailer20, Trailer22	Odometer 62120 Begin	62135 End	15 mi Distance	Post-trip	12:58:54 PM	Email View	
	Carrier XYZ Trucking II	nc.	Carrier DO 12345678					Remove	
	Shipping Docs		Shipper an None	nd Commo	dity			-	



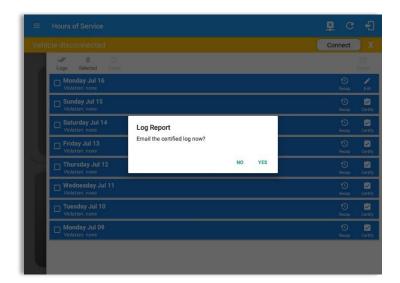
5.2.10 Certify a Log

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



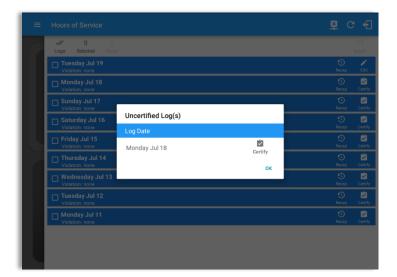






Tap the **OK** button if you wish to email the certified log to a selected recipient.

Select the *Cancel* button to close the pop-up dialog without emailing the certified log.



If the driver did not certify all the daily logs, the ELD will prompt the driver regarding uncertified logs upon logging in and logging out to the app along with the option to certify the relevant days.

Page 55

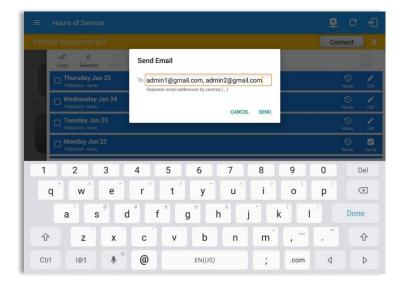
Note: During log certification, if the PDF upload fails, a copy of PDF file is saved into the PDF Archived folder under the App directory: Internal storage/ [App Name Folder]/PDF Archived/Certified Logs. This can be obtained manually if user reaches to more than two retries of failed upload.

5.2.11 Email a Log

When driver need to email a certified logs PDF to the back office, the driver can send directly from the **Mobile App** used (e.g Gmail app for Android) or have the HOS **Server** send the email instead of sending it directly from the mobile device.



<u>Email Log via Server</u>



Email Log via Mobile App

← Compose		e > :
	From	
	то	
	Cc johndoe jr@gmail.com	
	[App Name] logs for John Doe Jr. from 07-26-2018 to 07-26-2018	
	Driver's Daily Logs	
	iohndoe jr@8-07-26.pdf	
	1.340	

A Send Email dialog will display when the driver taps 'Yes' on the prompt to send certified log.

Enter the email address for the recipient. If the recipient is more than one, separate email addresses by comma. Tap **Send** button to send the certified log PDF.

Note: To send certified log PDF via HOS Sever, set the Email sender option to Server in the portal->account settings under App Controls -> Email Sender.

A mobile app will open (e.g. Gmail app will open for Android device) with a new message that has a PDF file attached when the driver taps 'Yes' on the prompt to send certified log.

If driver has recipient email populated in the **portal>settings>drivers' management page>PDF Report** or in the **app>settings>PDF Report Email**, then recipient email is also pre-populated in the email draft.

Note: To send certified log PDF via Mobile App, set the Email sender option to Mobile App in the portal->account settings under App Controls -> Email Sender.



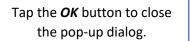
5.2.12 Edit a Log

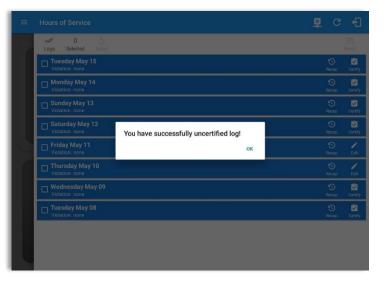
Only driver logs that have not yet been certified can be edited, you will have to uncertify a driver log in order to update its contents, to do this, tap the Edit button to uncertify the selected log and reopen it for editing:

Log				
	Fuesday May 15 Violation: none		S Recop	Edn
	Monday May 14 Violation: none		1 Recap	Certi
	Sunday May 13 Violation: none		() Recap	Certi
	Saturday May 12 Violation: none	Uncertify Daily Log Log already certified. Uncertify to continue	S Recap	Certif
	Friday May 11 Violation: none		1 Recep	Edit
	Thursday May 10 Violation: none	CANCEL UNCERTIFY NOW	1 Rocap	
	Wednesday May 09 Violation: none		(S) Recop	Certif
			(S) Recap	Centif

Tap the *Uncertify Now* button to confirm uncertifying the selected log.

Tap the *Cancel* button to cancel uncertifying the selected log.





The *Edit Log* screen can update/correct the driver's or driving duty data entries logged through the app. It can also view the history of an edited log.



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

Driver will be able to add a note to the

• CMV Engine power up/shut

Malfunctions and diagnostic

Intermediate logLogin/logout

following events:

down

events

•

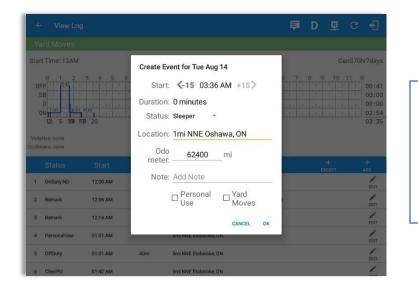
ar	t Time: 12AM		<	Sun May 13, 201	\rightarrow	US7	'0hr8da
(iola	M 1 2 FF D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 34	6 7 8	5 Exception	2 3 4 5 6		M 15: 00: 07: 01: 24:
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
1	OffDuty	12:00 AM	3h 15m	9mi NNE Lincoln, NE			EDIT
2	*OnDuty ND	03:15 AM	1h 05m	13mi NW Grand Island, NE	note	+ exp	EDIT
3	*Driving	04:20 AM	7h 50m	13mi NW Grand Island, NE	note 2	30 + EXP	EDIT
4	Remark	04:40 AM		13mi NW Grand Island, NE	Pre-trip DVIR not performed for Vehicle Truck2,Trailer Trailer2,Trailer Trailer1		EDIT
	OffDuty	12:10 PM	11h 50m	13mi NW Grand Island, NE			1

You can navigate through the daily driver logs by selecting either back or forward arrows located above the grid ← →

Sta	t Time: 12AM		\leftarrow	Fri May 11, 201	>	US70	hr8da
Viola	5B 111 111 11	3 4 5 	6 7 8 9 11 11 11 11 11 11 11 11 11 11 2	10 11 N 1 2137 2147 5 Exceptio Sho			M 10 00 02 00 13
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
			10h 44m				
1	OffDuty	12:00 AM	TUN 44III				
1	OffDuty Remark	12:00 AM 07:58 AM	100 4440		Authenticate		
			00m	4mi NNW Red Oak, IA	Authenticate		EL
2	Remark	07:58 AM		4mi NNW Red Oak, IA 4mi NNW Red Oak, IA	Authenticate ELD Connection		EL
2 3	Remark OnDuty ND	07:58 AM 10:44 AM					EL



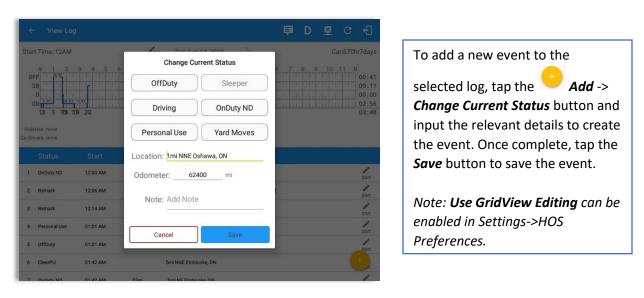
Create Log Event via Legacy Mode





save the event.

Change Current Status via Grid View Mode

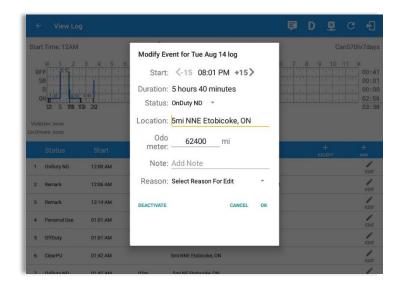


Notes:

- The current status of the app is disabled to prevent adding the status consecutively.
- Refer to 3.2 Changing the Driver's Status for 'Personal Use' or 'Yard Moves'.



Modify Log Event via Legacy Mode

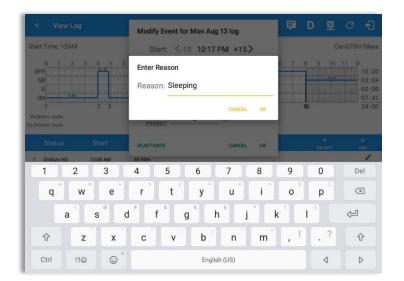


Tap the *Edit* button adjacent to any of the existing log events and make any required changes.

÷	- View Log	1				þ	D	₽	С	Ð
Star	t Time: 12AM		Modify Ev	ent for Tue Aug 14 log						nr7days
(Viole	Status	3 4 5 6	Duration: Status: Location: Odo	Missing GPS Location Incorrect Status Selected Incorrect Data Entered Driver Not Logged On	d			+		00:41 00:01 00:00 02:55 03:38
1	OnDuty ND	12:00 AM	Note:	Engineers Road Test Other	_		E	XCEPT		ADD EDIT
2	Remark	12:06 AM	Reason:	Select Reason For Edit	*					EDIT
3	Remark Personal Use	12:14 AM 01:01 AM	DEACTIVATE	CANCEL	ок					EDIT
5	OffDuty	01:01 AM								EDIT
6	ClearPU	01:42 AM		5mi NNE Etobicoke, ON						EDIT
7	OpDuty ND	01-42 AM	03m	Smi NE Etoblocke ON						1

Select a reason from the **Reason** drop-down list.





Selecting **Other** option from the Reason dropdown list will prompt the Enter Reason field.

Enter a *Reason*.

	rt Time: 12AM		1							
	IT HINE. IZAW		Modify Ev	ent for Mon Aug	13 log					
		3 4 5	Start:	< -15 10:17 ₽	M +15>		6, 7 	8 9	10 1	10:
	Dululate	alle allele	Duration:	6 hours 32 min	utes		alashi	. alies		02:
	ON	2 3	Status:	Sleeper *			alla la l	180		07:
	ation: none wers: none		Location:	Enter Location						
	Status	Start	Odo meter:	0	mi				+ CEPT	+ 100
1	OnDuty ND	12:00 AM	Note:	Add Note						EDF
2	*OffDuty	04:00 AM	Reason:	Sleeping		*			+ EXF	EDI
3	*OnDuty ND	04:49 AM	1000						+ EXF	EDI
	*OffDuty	08.30 AM	DEACTIVATE		CANCEL	OK			+ EXF	EDF
4										EDI
4	Remark	11:00 AM								
	Remark *Driving	11:00 AM 11:00 AM	2h 00m	-	-				+ EXF	EDIT

Entered reason will be populated in the Reason field.

Tap **OK** button to save changes.



Modify Log Event via Grid View Mode



	rt Time; 12AM		4	Tue Apr 24, 201				
	M 1 2 FF D 1 1 1	3 4 5	6 7 8 9 	10 11 N 1				07:4 00:0 04:1 00:3
	ation: none Ivers. none				n: none w all events			
1	*OffDuty	12:00 AM	7h 49m	9mi W Normal, IL	note		Exceptions	
4	*Driving	07:49 AM	04m	57mi WNW Pierre, SD		A	dd Remark	=
5	OnDuty ND	07:53 AM	30m	57m) WNW Pierre, SD				4
6	Power On	08:10 AM		57mi WNW Pierre, SD	Automatic Transition	Insert I	Past Status	Ŀ
7	ELD Login	08:10 AM		57mi WNW Pierre, SD	ELD Connection	Change Cur	rent Status	1
8	ELD Logout	08:10 AM		57mi WNW Pietre, SD	ELD Disconnection			x
9	ELD Login	08:24 AM		57mi WNW Pierre, SD	FLD Connection			-

To modify log event via Grid View Editing mode:

- Tap *Edit* button on any existing log events;
- Tap *Edit* button shown on the grid chart;
- Tap *Insert Past Status* button to insert a past status event.

Note: **Use GridView Editing** can be enabled in Settings->HOS Preferences.



← View Log		🖻 D 🖳 C 🕄
Start Time: 12AM	← Mon Aug 13, 2018 →	CanS70hr7days
M 1 2 04:00 04:49 7 OFF 7 04:49 7 SB 7 04:40	8 9 10 11 N 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 11 N 1 1 2 3 4 2 9 10 1 1 N 1 1 2 3 4 2 9 10 11 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 7 8 9 10 11 M 10:20 77:59 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Begin 04:00 AM (C)	End 04:49 AM (9)	Dur: 00:49 O
OFFDUTY	SLEEPER DRIVING	ONDUTY ND
Location: 7mi WNW Nor	rthwood, OH	
Odometer:	62390.6 mi	
Notes: Notes		
Reason: Select Reason	n For Edit 🛛 👻	
DEACTIVATE	CANCEL	SAVE

A grid view editing form will be displayed.

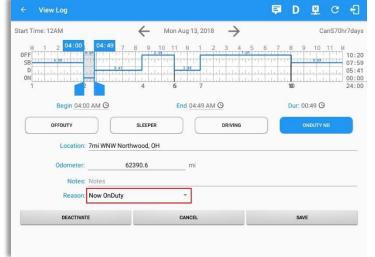
← View Log			P	D 🖳	୯ କ
Start Time: 12AM	←	Mon Aug 13, 2018 🔶		(CanS70hr7days
M 1 2 04:00 OFF TT Certification SB TT Certification ON TT Certification ON TT Certification D ON TT CERTIFIC	94:49 7 8 9 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	2 11 N 1 2 3 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		8 9 10 	07:59 05:41 00:00 24:00
Odometer:	Missing GPS Location Incorrect Status Selected Incorrect Data Entered Driver Not Logged On Engineers Road Test	DRIVING		ONDUTY	ND
Notes: Reason:	Other Select Reason For Edit	-			
DEACTIVAT	E	CANCEL		SAVE	

Make any required changes using the grid view editing form:

- Drag the sliders on the grid to set the *Begin Time* and *End Time* or;
- Tap on the time picker filed and manually set time.
- Select duty status.
- Select a reason for the edit from the drop-down list.
- Fill other required fields.
- Then tap the *Save* button to save the changes.



Start Time: 12AM	← Mon Aug 13, 2018 →	CanS70hr7days	
0FF SB D	Enter Reason Reason: Now OnDuty	6 7 8 9 10 11 M 10:20 07:59 05:41	
0N	CANCEL OK	Dur: 00:49 G	Selecting Other from Reason dropdown list will prompt th
OFFDUTY	SLEEPER DRIVING	ONDUTY ND	Enter Reason field.
1 2 3	4 5 6 7 8	9 0 Del	Enter Reason .
	ertyui	o p 🗵	
a s	d " f * g * h * j * k		
ŵ z	x c v b n m	,! . ? 分	
Ctrl !1©	English (US)		



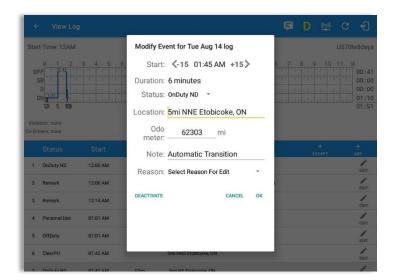
Entered reason will be populated in the Reason field.

Tap *Save* button to save changes.

Notes:

- Upon editing a past event, the **Reason** field is a required field and must contain at least 4 characters when filled out.
- Also, Odometer is a required field when editing a past Driving event.
- Personal Use and Yard Moves options are not displayed when editing an event (both via Legacy Editing and Grid View Editing mode).
- The driver is allowed edit an event in the app if 'Allow ability to edit logs' option in Drivers Management page is enabled. If disabled, driver is prohibited to edit event in the app except for changing the notes and adding remarks.
- All log events that have been manually created or amended, will be displayed with an asterisk against it in the log events list depicting that it has been edited. Also scroll down to see check boxes for Personal Use, Yard Moves and Off Road.





Regardless if the vehicle currently used is in AOBRD or ELD mode, driver can be able to edit the *Auto OnDuty ND event* the same with editing a manually created events.

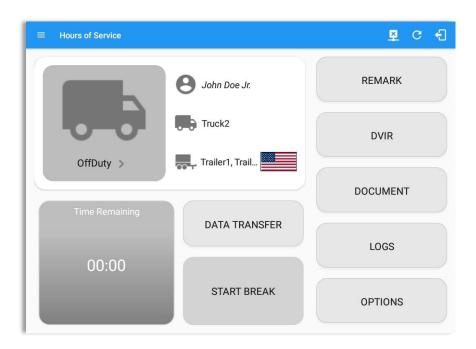
Star	Time: 12AM		+	Wed Dec 20, 201				
3	Remark	06.02 PM				tvehicle to Truck600		1
4	ELD Login	06:05 PM		39mi SE Sheridan, WY	ELD Co	nnection		NOTE
5	Power On	05:06 PM	Peaceign	Driving Time				NOTE
7	Driving	06:06 PM	Reassign	Driving Time				/ EDIT
8	Remark	05:06 PM	Note:	Automatic Trans	sition	_		EDIT
10	Power Off	06:07 PM		No driver selected		•		NOTE
11	OnDuty ND	06:13 PM	Driver.	david.jackson@gma	ail.com			EDIT
12	Remark	06:16 PM		_	CANCEL	OK d		EDIT
13	Power On	06:47 PM		39mi SE Sheridan, WY	Automati	c Transition		NOTE
15	Driving	06:47 PM	01m	39mi SE Sheridan, WY	Automatik	c Transition		EDIT
17	Power Off	06:48 PM		39mi SE Sheridan, WY	Automati	c Transition		NOTE

For *Auto Driving event*, driver can be able to edit a note or reassign the event to a co-driver. *(See Section 10.1 Logon Co-Driver-> Reassign Driving Time)*



Pending Edit Requests

The Motor Carrier can request edits to the driver's logs. In the application allows the driver to review the requested edits which requires the driver to take necessary action whether the driver wants to "**accept**" or "**reject**" the requested edits.



Tap the icon beside the refresh button to display the pending edit request dialog.

≡ Hours							🛱 C 🕂
Vehicle disc						C	onnect X
		0	John Doe Jr		ROAL	DSIDE INS	PECTION
	Pending Edit Req		each event to vi	ew details			IS
	Event	Start	Date	From	Ac	tion	
	1 OnDuty ND	07:16 AM	Jan 13, 2017	Personnel	CCEPT	ک REJECT	
Tin						CANCEL	
						DVIR	
	00:00		START BR	EAK		SHIFT/CY	CLE



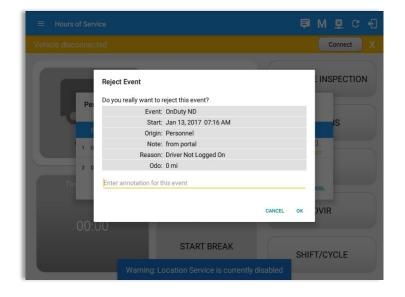
The Pending Request dialog also appears upon certifying a log only if a driver has pending requests. Driver must accept or reject the pending request(s) first before certifying the days' log.

Logs Selected						
Monday Aug 13						S Recap
Start Time: 12AM		Tap log cha	int to view			US70hr
OFF Pending E	dit Request(s)					11 M 1
	Тар	each event to v	iew details			0
0 Event						0
1 Sleeper	02:17 AM	Aug 13, 2018	Personnel	ACCEPT	REJECT	1
Drive 2 Driving	11:25 AM	Aug 13, 2018	Unidentified	ACCEPT	REJECT	insp
John Vehic Truck+					CANCEL	
HUCK4 NOIN	e O Begin	End Distance				
Carrier Carrier2	Carrier DO 12345	IT No				
Shipping Docs None		nd Commodity cept or Reject Pendi	ng Edit Requests			

A toast message will be displayed at the bottom of app stating, "Must Accept or Reject Pending Requests".

Note: The events from the 'Unidentified' driver does not require acceptance.

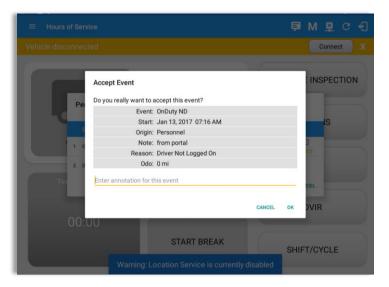
The Reject and Accept Event dialog shows the comparison of the Original status vs the changes (requested edits). Also, accepting the edits requested requires the driver to fill in the annotation field (**Required**) to successfully save the changes.



If the driver rejects the edit suggestions then the original record remains.



If the driver approves the edit suggestions, the new status will replace the old status and the changes will be reflected in the events history list.



<u>Auto Events</u>

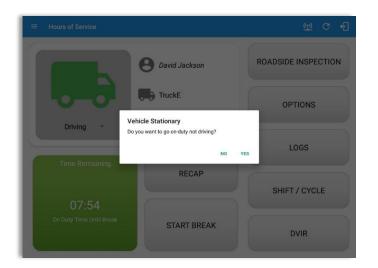
The ELD automatically records the driving time when the vehicle is in motion by setting duty status to driving for the driver unless, before the vehicle is in motion, the driver has sets the duty status to off-duty and indicates personal use of CMV, in which case duty status must remain off-duty until driver's indication of the driving condition ends.

sta	t Time: 12AM		\leftarrow	Fri May 11, 201	8 ->	US70	hr8day
	M 1 2 FF D 11 11 11 D 11 11 11 1	3 4 5		2 4 1 2 4 1 2 4 1 4 4 4 4 2 4 1 4 4 4 4 2 4 1 4			M 10:4 00:0 02:4 00:0 13:2
	ation: none ivers: John Doe Jr.			Exceptio	n: none w all events		
	Status	Start	Duration	Location	Note	+ ехсерт	+ ADD
1	OffDuty	12:00 AM	10h 44m				
2	Remark	07:58 AM			Authenticate		EDIT
3	OnDuty ND	10:44 AM	00m	4mi NNW Red Oak, IA			EDIT
4	ELD Login	10:45 AM		4mi NNW Red Oak, IA	ELD Connection		NOTE
5	Power On	10:45 AM		4mi NNW Red Oak, IA	Automatic Transition		NOTE
					Automatic Transition		1

Events such as Power On, Power Off, Driving and OnDuty are automatically created when connecting to a device. Auto events created were recorded and displayed on the Events history list indicated with a note "Automatic Transition".

(These events are also displayed in the Portal)





Not responding to the ELD prompt "Vehicle Stationary: Do you want to go on-duty not driving?" will automatically change duty status to On Duty ND after one (1) minute.

÷	View Log					<u>B</u>	
Star	t Time: 12AM		+	Tue Feb 20, 201	18 ->		US70hr8day
Viola	tion: none			Exception	on: none		
o-Dri	vers: none			Sho	w all events		
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
1	OffDuty	12:00 AM	10h 58m				
2	Remark	08:44 AM			Authenticate		EDIT
3	Remark	08:45 AM		16mi S Chittenango, NY	Switched vehicle to vehi- cle TruckE, trailer to trailer Trailer600, Trailer700		EDIT
4	ELD Login	10:55 AM		16mi S Chittenango, NY	ELD Connection		NOT
5	Power On	10:58 AM		16mi S Chittenango, NY	Automatic Transition		NOT
6	Driving	10:58 AM	00m	16mi S Chittenango, NY	Automatic Transition		EDIT
7	Remark	10:58 AM		16mi S Chittenango, NY	Pre-trip DVIR not performed		EDIT
8	Power Off	10:59 AM		16mi S Chittenango, NY	Automatic Transition		NOT
9	OnDuty ND	10:59 AM	28m	16mi S Chittenango, NY	Automatic Transition		EDIT
10	ELD Logout	11:05 AM		16mi S Chittenango, NY	ELD Disconnection		NOT

Auto **OnDuty ND** event created is recorded and displayed on the Events history list indicated with a note "**Automatic Transition**".



	View Log					D 및	G f
Star	t Time: 12AM		\leftarrow	Fri May 11, 201	8 ->		US70hr8day
Viola	tion: none		-	- Exceptio	n/ none		
	vers: John Doe Jr.				w all events		
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
1	OffDuty	12:00 AM	10h 44m				
2	Remark	07:58 AM			Authenticate		EDIT
3	OnDuty ND	10:44 AM	00m	4mi NNW Red Oak, IA			EDIT
4	ELD Login	10:45 AM		4mi NNW Red Oak, IA	ELD Connection		NOTE
5	Power On	10:45 AM		4mi NNW Red Oak, IA	Automatic Transition		NOTE
6	Driving	10:45 AM	05m	4mi NNW Red Oak, IA	Automatic Transition		EDIT
7	Pow Diag	10:45 AM		4mi NNW Red Oak, IA			NOTE
8	Remark	10:45 AM		9mi NNE Lincoln, NE	Crossed into Nebraska, USA from Iowa, USA		EDIT
9	ELD Logout	10:45 AM		9mi NNE Lincoln, NE	ELD Disconnection		NOTE

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

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

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Note: The graph-grid overlay periods of driver's indications of authorized personal use of CMV and yard moves using a different style line (such as the dashed or dotted line in amber color).

Sta	rt Time: 12AM		~	Fri May 11, 201	8 ->	US7	0hr8day
Viol	M 1 2 FF SB D 1 ation: none Wers: John Doe Jr.	3 4 5	6 7 8 9 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35 Exceptio		7 8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M 10:4 00:0 02:4 00:0 13:2
o-Di					w all events	+	+
-	Status	Start	Duration	Location	Note	EXCEPT	ADD
1 2 3	OffDuty Remark OnDuty ND	12:00 AM 07:58 AM 10:44 AM	10h 44m 00m	4mi NNW Red Oak, IA	Authenticate		EDIT
4	ELD Login	10:45 AM		4mi NNW Red Oak, IA	ELD Connection		NOT
	Power On	10:45 AM		4mi NNW Red Oak, IA	Automatic Transition		NOT
5							1

- A Remark will be recorded with a note "Authenticate" to the events history list if Driver will login to app.
- A Remark will be recoded with a note "Unauthenticate" if driver will logout from app.
- ELD Login will be recorded with a note "ELD Connection" to events' history list when app successfully connected to VBUS Device.
- ELD Logout will be recorded with a note "ELD Disconnection" to events' history list when driver manually disconnect to VBUS Device by tapping the connect/disconnect icon located at the App header.



Crossing Boundaries

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

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

	View Log					D 💆	c 🕄
Viola	t Time: 12AM tion: none vers: John Doe Jr.		_	Fri May 11, 201 – Exceptio			US70hr8days
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
1	OffDuty	12:00 AM	10h 44m				
2	Remark	07:58 AM			Authenticate		EDIT
3	OnDuty ND	10:44 AM	00m	4mi NNW Red Oak, IA			EDIT
4	ELD Login	10:45 AM		4mi NNW Red Oak, IA	ELD Connection		NOTE
5	Power On	10:45 AM		4mi NNW Red Oak, IA	Automatic Transition		NOTE
6	Driving	10:45 AM	05m	4mi NNW Red Oak, IA	Automatic Transition		EDIT
7	Pow Diag	10:45 AM		4mi NNW Red Oak, IA			NOTE
8	Remark	10:45 AM		9mi NNE Lincoln, NE	Crossed into Nebraska, USA from Iowa, USA		EDIT
9	ELD Logout	10:45 AM		9mi NNE Lincoln, NE	ELD Disconnection		NOTE

- b. If the current location is in Canada, the driving rules will automatically switched to Canadian rules. Similarly, if the location is in the US, the driving rules automatically switched to US rules.
- c. If there is a co-driver logged in, both the remark and the rules changes will be occurring to be applied for him/her as well.



5.3 Malfunction and Data Diagnostic Events

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

= Hours of Service 📮 D M 💆 :

Note: The ELD Data Diagnostic indicator provides notification of active data diagnostics events applicable to the active driver. The Data Diagnostics "D" icon will flash in amber color if there are new active Data Diagnostics events that is not yet reviewed by the driver and will only turn back to white once the Data Diagnostic dialog is closed after being reviewed by the driver. There will also be a notification in the Android toolbar indicating a malfunction or a data diagnostic event.

Code	Date	Time	Des	cription	Action			
3	Thu Aug 04, 2016	02:36:16 PM		: EngineHours, on, Odometer	CLEAR			
3	Thu Aug 04, 2016	02:05:49 PM	Missi	ng: Location	CLEAR			
5	Thu Aug 04, 2016	12:43:18 PM	Unide D	Malfunctio	ons			
EAR ALL				Code	Date	Time	Description	Action
				Р	Thu Aug 04, 2016	12:45:17 PM	Power Malfunction	CLEAR
				L	Thu Aug 04, 2016	11:08:23 AM	Position Malfunction	CLEAR
								CANCE

Star	t Time: 12AM		- Mon Nov 21, 20)16 🔶				US70h	r8day:
M	1 2	3 4 5 6	7 8 9 10 11 N 1	2 3 4	5 6	7 8	9 10		Total
OFF		· · • • • • • • • • • • • • • • • • • •	2:42					P P P	11:1
SB	di di di		للاسلال السالة والسلا	. de de d	1.11.1	IL IL I	1.1.1.1	יוייין	00:00
D				ا و ا و ا و ا و ا و ا	والملالية			hhh	00:3
ON	ւեւեւեւ	الما بالما بالم	Edit Miss Diag Note			սես	հեհ	hhh	00:00
1									11:4
	tion: none vers: green cross		Note: Missing: Locat	ion					
					- 1				
				CANCEL	ок				
48	Driving	11:40 AM	un a regina, i r	Automatic II	ansition				EDIT
49	Miss Diag	11:40 AM	6mi S Regina, 11	Missing: Engi	neHours				NOTE
50	Remark	11:40 AM		Crossed SouthDakota, Saskatchewan	USA from				EDIT
51	Miss Diag	11:40 AM		Missing: Lo	cation				NOTE
				Automatic Tr	opation				1
52	Power Off	11:40 AM		Platornatio In	ansition				

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

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

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



	N	Alfunction Eve	ents
Requirement No.	Event Code	Event Name	Description
4.6.1.1	P / Power MF	Power Malfunction	An ELD must set a power compliance malfunction if the power data diagnostics event described in paragraph 4.6.1.1(a) of this appendix indicates an aggregated in-motion driving time understatement of 30 minutes or more on the ELD over a 24-hour period across all driver profiles, including the unidentified driver profile.
4.6.1.2	E / Sync MF	Engine Synchronization Malfunction	An ELD must set an engine synchronization compliance malfunction if connectivity to any of the required data sources specified in section 4.3.1 of this 87 appendix is lost for more than 30 minutes during a 24-hour period aggregated across all driver profiles, including the unidentified driver profile.
4.6.1.3	T / Timing MF	Timing Malfunction	The ELD must periodically cross- check its compliance with the requirement specified in section 4.3.1.5 of this appendix with respect to an accurate external UTC source and must record a timing compliance malfunction when it can no longer meet the underlying compliance requirement.
4.6.1.4	L / Pos MF	Position Malfunction	ELD records requiring location information must use the last valid position measurement and include



			the latitude/longitude coordinates and distance traveled, in miles, since the last valid position measurement. An ELD must monitor elapsed time
			during periods when the ELD fails to acquire a valid position measurement within 5 miles of the CMV's movement. When such elapsed time exceeds a cumulative 60 minutes over a 24-hour period, the ELD must set and record a positioning compliance
4.6.1.5	R / DR MF	Data Recording Malfunction	malfunction. An ELD must monitor its storage capacity and integrity and must detect a data recording compliance malfunction if it can no longer record or retain required events or retrieve recorded logs that are not otherwise catalogued remotely by the motor carrier.
4.6.1.7	S / Trans MF	Data Transfer Malfunction	 (a) An ELD must implement inservice monitoring functions to verify that the data transfer mechanism(s) described in section 4.9.1 of this appendix are continuing to function properly. An ELD must verify this functionality at least once every 7 days. These monitoring functions may be automatic or may involve manual steps for a driver. (c) After an ELD records a data transfer data diagnostic event, the



			ELD must increase the frequency of the monitoring function to check at least once every 24-hour period. If the ELD stays in the unconfirmed data transfer mode following the next three 90 consecutive monitoring checks, the ELD must detect a data transfer compliance malfunction. In addition to the required monitoring schemes described in
4.6.1.8	O / Other MF	Other Malfunction	monitoring schemes described in sections 4.6.1.1– 4.6.1.7 of this appendix, the ELD provider may implement additional, technology- specific malfunction and data diagnostic detection schemes and may use the ELD's malfunction status indicator and data diagnostic status indicator (described in sections 4.6.2.1 and 4.6.3.1) to communicate the ELD's malfunction or non-compliant state to the operator(s) of the ELD.
	Dat	a Diagnostic I	Events

Requirement No.	Event Code	Event Name	Description
4.6.1.1	1 / Pwd Diag	Power Diagnostic	An ELD must monitor data it receives from the engine ECM or alternative sources as allowed in sections 4.3.1.1-4.3.1.4 of this appendix, its onboard sensors, and data record history to identify instances when it may not have complied with the power requirements specified in section 4.3.1.1, in which case, the ELD



			must record a power data diagnostics event for the corresponding driver(s), or under the unidentified driver profile if no drivers were authenticated at the time of detection.
4.6.1.2	2 / Sync Diag	Engine Synchronization Diagnostic	An ELD required to establish a link to the engine ECM as described in section 4.2 must monitor its connectivity to the engine ECM and its ability to retrieve the vehicle parameters described under section 4.3.1 of this appendix and must record an engine-synchronization data diagnostics event when it no longer can acquire updated values for the ELD parameters required for records within 5 seconds of the need.
4.6.1.4 (d)	3 / Miss Diag	Missing Data Elements Diagnostic	If a new ELD event must be recorded at an instance when the ELD had failed to acquire a valid position measurement within the most recent elapsed 5 miles of driving, but the ELD has not yet set a positioning compliance malfunction, the ELD must record the character "X" in both the latitude and longitude fields, unless location is 88 entered manually by the driver, in which case it must log the character "M" instead. Under the circumstances listed in this paragraph, if the ELD event is due to a change in duty status for the driver, the ELD must prompt the driver to enter location



			manually in accordance with section 4.3.2.7 of this appendix. If the driver does not enter the location information and the vehicle is in motion, the ELD must record a missing required data element data diagnostic event for the driver.
4.6.1.7	4 / Trans Diag	Data Transfer Diagnostic	(b) If the monitoring mechanism fails to confirm proper in-service operation of the data transfer mechanism(s), an ELD must record a data transfer data diagnostic event and enter an unconfirmed data transfer mode.
4.6.1.6	5 / Unid Diag	Unidentified Driver Diagnostic	 (b) If more than 30 minutes of driving in a 24-hour period show unidentified driver on the ELD, the ELD must detect and record an unidentified driving records data diagnostic event and the data diagnostic indicator must be turned on for all drivers logged in to that ELD for the current 24-hour period and the following 7 days. (c) An unidentified driving records data diagnostic event can be cleared by the ELD when driving time logged under the unidentified driver profile for the current 24-hour period and the previous 7 consecutive days drops to 15 minutes or less.
4.6.1.8	6 / Other Diag	Other Diagnostic	In addition to the required monitoring schemes described in sections 4.6.1.1– 4.6.1.7 of this appendix, the ELD provider may



implement additional, technology- specific malfunction and data diagnostic detection schemes and may use the ELD's malfunction
status indicator and data
diagnostic status indicator (described in sections 4.6.2.1 and
4.6.3.1) to communicate the ELD's malfunction or non-compliant
state to the operator(s) of the ELD.

Actions for Malfunction & Data Diagnostic Events

Carrier responsibilities regarding malfunctions:

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

Record keeping responsibilities by the driver:

- Malfunction events
 - Note the ELD malfunction and provide carrier with written notice within 24hrs (395.34)
 - Reconstruct driving events for the current 24hr period and previous 7 consecutive days using paper logs (unless they can be retrieved from the ELD) (395.34)
 - Continue to manually prepare driving logs until ELD is serviced and brought back into compliance (395.34)



- During inspections which take place when a malfunction has occurred: provide safety official with manually kept driver logs (395.34)
- Data diagnostic events
 - Driver must follow the motor carriers and ELD provider's recommendations in resolving the data inconsistency (395.34)

Clearing of malfunction and data diagnostic events:

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

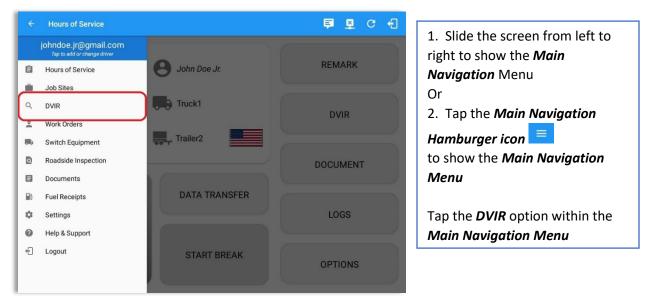


5.4 DVIR

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

There are a number of ways to access this feature:

5.4.1 DVIR Feature – Main Navigation Menu

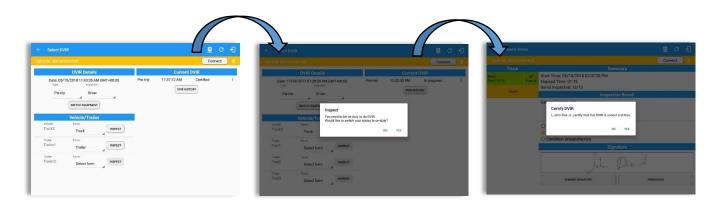


5.4.2 DVIR Feature – Hours of Service Main Screen

Hours of Service		₽ C €			르
nicle disconnected		Connect X			
	B John Doe Jr.	REMARK		B John Doe Jr.	REMARK
	Truck2	DVIR	0-0-	Truck2	DVIR
Driving >	None		OffDuty >	Trailer1, Trail	
Time Remaining		DOCUMENT	Time Remaining	DATA TRANSFER	DOCUMENT
	DATA TRANSFER	LOGS	00.00		LOGS
07:59 On Duty Time Until Break	Perform a pre-trip DVIR	OPTIONS	00:00	START BREAK	OPTIONS

From the *Hours of Service Main Screen*, tap the *DVIR* button to display the *DVIR* screen.





				Ę	D 🖳 C	: -		- View Lo					舆	c f
Start Time: 12AN		÷	- Thu May 10, 2018	\rightarrow	UST	Ohr8days	Sta	rt Time: 12AM		(- Tue May 15, 2018	\rightarrow		JS70hr8da
M 1 2 OFF SB D ON 1	3 4 5		9 10 11 N 1		8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20:28 00:00 00:02 00:00 20:30		M 1 2 FF D	3 4 5		9 10 11 N 1			11 M 13:! 00:1 00:1 14:1
Violation: none o-Drivers: none			Exception:				Vic	ation: none			Exception	: none		
o orwers, none			Show	all events			Co-D	rivers: none			Show	allevents		
Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD		Status	Start	Duration	Location	Note	+ EXCEPT	+
1 OffDuty	12:00 AM	20h 28m					1	OffDuty	12:00 AM	13h 59m			- CAUCHT	800
2 Remark	08:27 PM		17mi SSW Collingwood, ON	Authenticate		EDIT	2	Remark	01:57 PM		13mi NW Grand Island, NE	Authenticate		ED
3 Remark	08:27 PM		17mi SSW Collingwood, ON	Switched vehicle to vehicle Truck1		EDIT	3	Remark	01:58 PM		13mi NW Grand Island, NE	Switched vehicle to vehicle Truck2		ED
4 ELD Login	08:27 PM		17mi SSW Collingwood, ON	ELD Connection		NOTE	- 4	OnDuty ND	01:59 PM	00m	13mi NW Grand Island, NE			ED
5 Power On	08:27 PM		17mi SSW Collingwood, ON	Automatic Transition		NOTE	5	Driving	01:59 PM	03m	13mi NW Grand Island, NE			ED
7 Driving	08:28 PM	02m	17mi SSW Collingwood, ON			EDIT	6	Remark	01:59 PM		13mi NW Grand Island, NE	Pre-trip DVIR not performed for Vehicle Truck2		
8 Remark	08:28 PM		17mi SSW Collingwood, ON	Pre-trip DVIR not performed for Vehicle Truck1		EDIT		Remark	02:02 PM		13mi NW Grand Island. NE	Completion of Pre-trip DVIR for Truck2		

- When driver manually/automatically change to Driving event without completing the Pre-trip DVIR, it will create a 'Remark' event with a note 'Pre-trip DVIR not performed for Vehicle [vehicle name] or Trailer [trailer name]'.
- The Remark event will only be created once per shift.
- The Remark event will be created after it detects or when a first Driving event on the shift cycle is created.
- Also, an **alert** is sent only once for each vehicle that begins to drive without having done a Pre-Trip DVIR.



5.4.3 Selecting Your DVIR Type

- Select DVIR	투 또 C 1	
hicle disconnected	Connect X	
DVIR Details	Current DVIR	Choose the appropriate DVIR
Date: 10/23/2017 06:35:10 PM CDT Inspector:	No DVIR	
Pre-trip Driver	DVIR HISTORY	<i>Type</i> from the
Post-trip		following options.
Ad-hoc		
Vehicle: Form: Going merry Select form		
		Choose the appropriate
		Inspector from the following
		options.
		options.
- Select DVIR	₽ C €	
DVIR Details	Current DVIR	
Date: 10/25/2017 09:20:49 AM GMT+08:00 Type: Inspector:	No DVIR	
Pre-trip Driver	DVIR HISTORY	
SWITCH EQUIPMENT		You can select a DVIR Form from
Vehicle/Trailer		the 6 default DVIR forms or you
Vehicle: Form: AAN 2564 Tractor INSPECT		can also select a Customized
Trailer: Form:		DVIR Forms for Asset(s) also
AUB2137 Trailer Trailer		from the list.
Trailer: Form: SER987 Trailer Trailer		from the list.
Trailer: Form: Vehicle27 Tortion INSPECT		
Trailer		
AAN890 Trailer Trailer		
- Select DVIR	₽ C €	
DVIR Details	Current DVIR	
Date: 10/25/2017 09:20:49 AM GMT+08:00 Type: Inspector:	No DVIR	
Pre-trip Driver	DVIR HISTORY	a) Pre: A DVIR conducted
SWITCH EQUIPMENT		before driving the CMV.
Vehicle/Trailer		b) Post: A DVIR conducted
Vehicle: Form: AAN 2564 Tractor NSPECT		after driving a CMV.
Trailer: Form: AUB2137 Trailer Trailer INSPECT		-
Trailer: Form:		c) Ad Hoc: Any DVIR
SER987 Trailer Trailer		conducted in any other
Trailer: Form: Vehicle27 Trailer NSPECT		period that the ones
Trailer: Form:		specified in points a & b.
AAN890 INSPECT		



5.4.4 Starting Your DVIR

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

Note: However, a dialog as shown below will display that will ask confirmation to switch you to On Duty status to do DVIR if current duty status is in Off Duty or will take you out to Personal Use if current status is Off Duty under Personal Use.

NO YES NO YES	NO YES	NO YES
---------------	--------	--------

5.4.5 Completing the First DVIR Area

← Inspec	t Areas				×	c 🗧					
Vehicle disc	onnected				Conn	ect X					
Truc		NA Parking Brake	0		曰						
Items Done (13/13)	Pass All	NA Steering Mechanism	Ō	_							
Finis	sh	NA Coupling Devices	D	÷						뿃	c f
		NA Service Brakes (Including Trailer Connections)	٥	Star	t Time: 12AM	3 4 5	6 7 8	 Tue May 15, 201 9 10 11 N 1 	8		US70hr8days
		NA Hazmat Placarding / Shipping Papers	٥		B						00:00 00:03 00:00 14:02
		NA Lighting Devices and Reflectors	٥		tion: none vers: none			Exception Show	# i: none v all events		14:02
		NA Tires	0		Status	Start	Duration	Location	Note	+ Except	+ ADD
		NA Horns	Ō	1	OffDuty	12:00 AM	13h 59m				
		NA Windshield, Wipers, Washers	0	2	Remark	01:57 PM		13mi NW Grand Island, NE	Authenticate		EDIT
			-	3	Remark	01:58 PM		13mi NW Grand Island, NE	Switched vehicle to vehicle Truck2		EDIT
				4	OnDuty ND	01:59 PM	00m	13mi NW Grand Island, NE			EDIT
				5	Driving	01:59 PM	03m	13mi NW Grand Island, NE			EDIT
				6	Remark	01:59 PM		13mi NW Grand Island, NE	Pre-trip DVIR not performed for Vehicle Truck2		EDIT
				7	Remark	02:02 PM		13mi NW Grand Island, NE	Completion of Pre-trip DVIR for Truck2		FDIT

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

You can select the status of each DVIR Item by tapping their respective tri-state check boxes as listed below:



Tap the unselected check box once or select the green 4 Thumbs Up icon to specify that the item has passed.

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

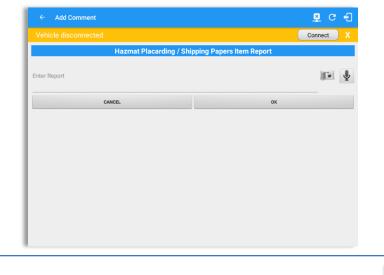
Tap the unselected check box three times or select the NA [NA] icon it the item is not applicable for the current DVIR.

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

5.4.6 Capturing an Image of a DVIR Item

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

5.4.7 Add a Comment or Remark to a DVIR Item



You may add comments or remarks against a DVIR item by tapping the **Comments** button, enter the relevant comment or remark in the **Enter Report** field, tap the **Camera** button to add more images if required and select the **OK** button to finish adding your images and comments or remarks.



← Inspect Area	IS			₽ C €
Vehicle disconne	cted			Connect X
Truck		Parking Brake	0	E
	Pass All	Steering Mechanism	0	E
Finish	(Coupling Devices	O	E
	(Service Brakes (Including Trailer Connections)	Ō	目
	(Hazmat Placarding / Shipping Papers	Ō	Ę
	ŀ	NA Lighting Devices and Reflectors	Ō	E
	(Tires	Ō	Ę
	(Horns	Ō	Ę
	0	🗨 Windshield, Wipers, Washers 🛛 🧕	D	E
	-	_	_	_

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

If you add an image and a comment or remark to the DVIR item, the *camera* button will have a numbered icon over it depicting the number of images that have been attached; also, any comments or remarks that have been added will be displayed and will replace the *Comments* button

5.4.8 Finishing / Certifying Your DVIR

← Inspec Vehicle disc	t Areas onnected	Connect	신
Truc		Summary	
Items Done (13/13)	Pass All	Start Time: 05/15/2018 02:07:28 PM Elapsed Time: 01:28 Items inspected: 13/13	
Finis	h	Inspection Result	
		General Comments	To finish / certify your DVIR, select the Finish
		Defects Corrected Condition Satisfactory Condition Unsatisfactory	tab, this will display the information detailed on th
		Signature	
		John Doe Jr.	next page.
		CHANGE SIGNATURE FINISH DVIR	



<u>Summary</u>

Summary

Start Time: 09/28/2017 09:52:20 AM Elapsed Time: 02:08 Items Inspected: 2/14

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

Remaining Items

12 Remaining Items

Trailer - Brakes

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

Inspection Result

Inspection Result		
General Comments		
O Defects Corrected		
○ No Defect Found		
O Condition Satisfactory		
O Condition Unsatisfactory		

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

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



- Defects Corrected
- No Defect Found (*Note: 'No Defect Found' option is only available for Canadian cycle drivers.*)
- Condition Satisfactory
- Condition Unsatisfactory

<u>Signature</u>



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

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

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

← Change Signature	🛛 C 🕂
Vehicle disconnected	Connect X
Create your signature here	
John Doe-	Jr.
CLEAR DONE	
Tap the Done button to save your signature or	tan the

ap the **Done** button to save your signature or tap the **Clear** button to discard the signature.



5.4.9 Submit or Certify the DVIR

÷				🖪 G 🕄			
Veh				Connect X			
Items Done (13		Pass All	Start Time: 05/15/2018 02:07:28 PM Elapsed Time: 01:19				
	Finish		Items Inspected: 13/13 Inspection Result				
			Ger Certify DVIR I, John Doe Jr., certify that this DVIR is correct and true. NO YES Condition Unsatisfactory Change signature CHANGE SIGNATURE FINISH DV	ля			
reviewing all	of the I	DVIR	n to finish / certify the current vehicle details tap the OK button to certify DVIR by tapping the Cancel button.	•			

After successfully certifying the DVIR, a remark event will be created in the Edit Logs screen stating the completion of Pre/Post/Ad-Hoc DVIRs.

Star	rt Time: 12AM		\	- Tue May 15, 2018	\rightarrow	US70	hr8da
	M 1 2 FF D	3 4 5		9 10 11 N 1		ببإبتيابه إيتيابه	M 13: 00: 00: 00: 14:
	ation: none			Exception	none		
Co-Dr	ivers: none			Show	all events		
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
1	OffDuty	12:00 AM	13h 59m				
2	Remark	01:57 PM		13mi NW Grand Island, NE	Authenticate		EDI
3	Remark	01:58 PM		13mi NW Grand Island, NE	Switched vehicle to vehicle Truck2		EDIT
	OnDuty ND	01:59 PM	00m	13mi NW Grand Island, NE			EDIT
4				13mi NW Grand Island, NE			1
4 5	Driving	01:59 PM	03m	Tomine of and Island, NE			EDI
	Driving Remark	01:59 PM 01:59 PM	03m	13mi NW Grand Island, NE	Pre-trip DVIR not performed for Vehicle Truck2		EDI

Note: A remark 'Pre-trip DVIR not performed for Vehicle [vehicle name] or Trailer [trailer name.]' will display in event history list when driver went Driving without performing Pre-trip DVIR.



5.4.10 Deleting a DVIR

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

	Current	DVIR	
Pre-trip	08:46:06 AM	Certified	0 0 0

- Tap the Email button to send the completed DVIR to an intended recipient.
- Tap the View button to view the DVIR details (once submitted, this cannot be amended).
- Tap the Remove button to remove the DVIR (once submitted, this cannot be removed).

5.4.11 Emailing a DVIR

Villede diconnected Villede diconnected Villede diconnected vertices ver		₽ C €	Compose	@ > :
DVIR Det Send Email Text: DVIR Det: 01/25/201814a Text: production adjurted and the set of connect () Text: production adjurted and the set of connect () T 2 3 4 5 7 8 9 0 0 0 ENU(S) ; conn 0 0 0 <	Vehicle disconnected	Connect	From	
better 01/22/2018 have been to construct the second statement to construct	DVIR Deta Send Email	rrent DVIR		
Pretig instruction Vehicle/Trailer 1 2 3 4 5 6 7 8 9 0 Del q w e r t y u i o p c a s d f g h j k l Done c z x c v b n m , $cCtrl iei * @ ENUS ; .com d b$	To admin@gmail.com, admin2@gmail.com			
Vehicle/Trailer 1 2 3 4 5 6 7 8 9 0 Del q w e r t y u i o p I 2 3 4 5 6 7 8 9 0 Del q w e r t y u i o p I a s d f g h j k l I I I a s d f g 0 Del q w e r t y u i o p I a s d f g h j k l I I I a s d f g h j k l I I I a s d f g h j k l I I I a		VIR HESTORY	Cc david.jackson@gmail.com	
Vehicle/frailer			DVIR	
1 2 3 4 5 6 7 8 9 0 Del q w e r t y u i o p CI q w e r t y u i o p CI a s d f g h j k I Done c z x c v b n m - c c c v b n m - c c c z x c v b n m - c c c v c	Vehicle/Trailer		Compose email	
1 2 3 4 5 6 7 8 9 0 Del q w e r t y u i o p CI q w e r t y u i o p CI a s d f g h j k I Done c z x c v b n m - c c c v b n m - c c c z x c v b n m - c c c v c			avid jackao. 2-43-34 pdf 🗙	
a s d f g h j k l Done $2 \times 2 \times$	1 2 3 4 5 6 7 8	9 0 Del		Del
	q w e r t y u i	o p 🗵	q w e r t y u i o p	×
Ctrl I@1 @ EN(US) ; .com d D Ctrl II@ English (US) d D	a s d f g h j	C Done	a s d f g h j k (I)	Ŷ
Ctrl I@1 ● English (US) ↓	☆ z x c v b n m	, - · · ·	☆ z x c v b n m ,!.	? 🗘
	Ctrl 1@1 🕴 ° 🙆 EN(US) ;	.com	Ctrl 11@ © * English (US)	< ▷
Emailing a DV/ID via Conver				
Emailing a DVIR via Server Emailing a DVIR via Abb	Emailing a DVIR via Ser	ver	Emailing a DVIR via App	

- If Email Sender is set to Server, a Send Email dialog will display when the driver taps Email button to send the completed DVIR. Enter the email address for the recipient. If the recipient is more than one, separate email addresses by comma.
- If Email Sender is set to App, an app will open (e.g. Gmail app will open for Android device) with a new message that has a DVIR Report PDF file attached.

Note: Email Sender option can be set in the portal->account settings under App Controls -> Email Sender.



5.5 DVIR History

Select DVI					e -9				🛡 D M 🗳
hicle disconr	nected			Connect	. ×	Vehicle disconnected			Connect
	DVIR Details		Current			All Equipment			
Date: 11/2 Type:	4/2017 12:31:59 PM GMT+08:00 Inspector:	Pre-trip Pre-trip	12:32:21 PM 12:32:42 PM	Certified In progress		Equipment	Inspection Type	Inspector	Date Inspected
Pre-trip	Mechanic		DVIR HIS	TORY		AUB2137	Pre-trip	Arturo Moore II	18/09/2017
	SWITCH EQUIPMENT		- DURING	JION		AUB2136	Pre-trip	Arturo Moore II	18/09/2017
						AAN890	Pre-trip	Arturo Moore II	18/09/2017
	Vehicle/Trailer					AUB2137	Pre-trip	Arturo Moore II	17/09/2017
Vehicle: Truck1	Form:					AAN890	Pretrip	Arturo Moore II	17/09/2017
	Truck					SER987	Pre-trip	douglas richards II	17/09/2017
Trailer. Trail1	Form:					AUB2137	Pre-trip	douglas richards II	17/09/2017
11 Million	Trailer					AAN890	Pre-trip	douglas richards II	17/09/2017
Trailer: Trail2	Form:					- AUB2136	Pre-trip	douglas richards II	17/09/2017
110112	Select form INSPECT					Item Name	Repa	ired Status Repair (Comment

The **DVIR History** feature displays the DVIRs for the last 30 days for the currently selected equipment. Completed DVIRs that don't have failed items shows in a row highlighted in green color while Completed DVIRs with failed items are highlighted in red. Also, a '+' can be tap to show the details of failed items.

5.5.1 Viewing DVIR History by Vehicle

				0	Connect X						
All Equipment											
Equipment	Inspection Type	Inspecto	r	Date Inspe	← DVIR History				D	💆 C	; 4
Truck1	Post-trip	Leonard De	pe Jr.	09/28/2017						Connect	
Item Name		air Status	Repair Co	mment	Truck1						
Horns		pair made	Repaired		Equipment	Inspection Type	Inspecto		Date Ins	nected	
Tires		r not needed	Ok		- Truck1	Post-trip	Leonard Do		09/28/20		
Truck1	Pre-trip	Leonard De	be Jr.	09/28/2017	Item Name		air Status	Repair Con			
					Horns		pair made	Repaired			
					Tires	Repai	r not needed	Ok			
					Truck1	Pre-trip	Leonard Do	e Jr.	09/28/20	17	

- DVIR Screen displays DVIR inspections for all equipment by default.
- Tap the Equipment name on the upper left of the screen to view the DVIR of the specified vehicle.



6 Roadside Inspection

The Roadside Inspection feature provides the ability to view the driver daily logs for the past one week. It includes information on the vehicle used, shipments and driving statuses. It also has the ability to send all the logs that have already been certified to an intended recipient.

There are a number of ways to access this feature:

6.1 Roadside Inspection – Main Navigation Menu

÷	Hours of Service		🗗 S 💆 🗐		
	johndoe.jr@gmail.com Tap to add or change driver				
Û	Hours of Service	B John Doe Jr.	REMARK		
	Job Sites				
٩	DVIR	Truck1	DVIR		
-	Work Orders		DVIK		
	Switch Equipment	Trailer2			
۵	Roadside Inspection		DOCUMENT		
E	Documents				
₽ ð	Fuel Receipts	DATA TRANSFER			
\$	Settings		LOGS		
0	Help & Support				
÷	Logout	START BREAK	OPTIONS		

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

Tap the *Roadside Inspection* option within the *Main Navigation Menu*.



 ■
 Hours of Service
 P C C

 Image: Comparison of the service
 Image: Comparison of the service
 REMARK

 Image: Comparison of the service
 Image: Comparison of the service
 REMARK

 Image: Comparison of the service
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 Image: Comparison of the service

6.2 Roadside Inspection – HOS Main Menu

From the *Hours of Service Main Screen,* tap the *Roadside Inspection* button.

6.3 Inspection Screen – Start Review

← Roadside Inspection		C
	Regulation Mode: ELD 395.20	
	rrent 24-hour period and the previous Start Review' button and give your device to the DOT C	
	Start Review	
т	Data Transfer ransfer data of the compilation of the driver's ELD reco	rds
	Data Transfer	
English	Tap for instructions.	E spañol

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





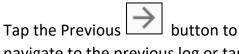
Roadside Inspection screen for vehicle in **ELD** mode

Roadside Inspection screen for vehicle
in AOBRD mode

Note:

- Automatic 'Remarks' will not be displayed in the screen such as 'Pre-Trip not performed', 'Authenticate', border crossing and Inter events remarks if current vehicle is in AOBRD mode.
- Notes entered in an added event will be displayed in the Roadside Inspection screen under the "Note" column when in AOBRD mode.
- Driver that is being inspected must provide a password when exiting from the Roadside Inspection Screen.
- For Canadian HOS rules, the License Plate number is displayed for each vehicle driven and each trailer used by the driver on the day.

Roads	ide Inspection						C
		÷	- Tue	Jul 10, 2018 —	>		
Record Date:	10-Jul-18	Driver Name.	John Doe Jr.	Driver ID:	johndoe.jr@gmail .com	Driver License Number	19818
Driver License State:	IL	Exempt Driver Status:	No	Trailer ID:	Trailer22 (XCG 6033) Trailer20 (XJR 994	Truck Tractor ID:	Truck2 (BYTR 74 Truck7A (ABC 12
ruck Tractor VIN:	-3FAFP07156R240 941, -1FT8W3DT0C EB54447	Unidentified Driver Records:	No	Co-Driver Name:		Co-Driver ID:	jack.wood@gma .com
Carrier:	Carrier2	USDOT #:	123456789	ELD Manufacturer:		ELD ID:	
Time Zone:		24 Period Starting Time:	000000	Start - End Odometer:	62,258 - 62,259	Miles Today	
Start - End Engine Hours:	1.6-1.7	Shipping ID:	17.4.1	Data Diagnostic Indicators:	No	ELD Malfunction	No
Current Location:	7mi E Orangeville, ON	Print/Display Date:	10-Jul-18	Time Zone Offset from UTC:	-05:00	Shipper and Commodity.	JExpress Shippi Inc.
M 1	2 3 4 5	6 7 8	9 10 11	N 1 2 3	4 5 6	7 8 9 10	11 M
OFF			55.85				19:4
SB		J. J. M. J.	Charles and Charles	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		00:0
D			data data	to be de la la la		ad al delate	00:0
ON		De a De Da Da Da D	- Dilation -	to be to be be be be		1.11	01:1
1						59 128	20:5
Time	Locatio	on in the second se	Duration	Odometer	Eng Hours	Event Type/Status	Origin
12:00 AM			19h 45m			OffDuty	Auto
07:44 PM				0	0	Remark	Driver
07:45 PM	7mi S Penn Y	'an, NY		62258	2	ELD Login	Driver
07:45 PM	7mi S Penn \			62258	2	Power On	Auto



navigate to the previous log or tap the

Next button to navigate to the next log.



6.4 Roadside Inspection Screen – Data Transfer

← Roadside Inspection	c	
Regulation Mode: ELD 395.20		
Review logs for the current 24-hour period and the previous 7 cons Tap 'Start Review' button and give your device to the DOT Officer Start Review	secutive days	From the Roadside Inspection Screen , tap the Data Transfer button.
Data Transfer Transfer data of the compilation of the driver's ELD records		
Data Transfer Tap for instructions.	← Roadside Inspection Vehicle disconnected	D 🖳 C 🗧
English Français	Review log Data Transfe Select Veh	r via icle: All Vehicles
Select an option to transfer the compilation of the driver's ELD records.	😵 Blueto 🚦 USB M Email	
	🧟 Web S	CANCEL



7 Switch Equipment

The Switch Equipment feature allows a driver to easily 'switch' from one vehicle to another. It also assists in monitoring and documenting the vehicles being used as part of their driver logs.

There are a number of ways to access this feature:

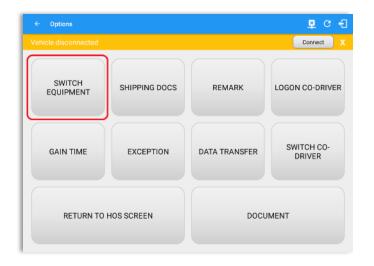
7.1 Switch Equipment – Main Navigation Menu

÷	Hours of Service		🖻 💆 C 🕄
	johndoe.jr@gmail.com Tap to add or change driver		
Û	Hours of Service	B John Doe Jr.	REMARK
•	Job Sites		
Q	DVIR	Truck1	DV/ID
*	Work Orders		DVIR
	Switch Equipment	Trailer2	
٩	Roadside Inspection		DOCUMENT
۵	Documents		
	Fuel Receipts	DATA TRANSFER	
\$	Settings		LOGS
0	Help & Support		
Ð	Logout	START BREAK	OPTIONS

 Slide the screen from left to right to show the Main Navigation Menu Or
 Tap the Main Navigation Hamburger icon to show the Main Navigation Menu
 Tap the Switch Equipment option within the Main Navigation Menu



7.2 Options Menu



From the *Hours of Service Main Screen*, tap the *Options* button and then tap the *Switch Equipment* button.

7.3 Switch Equipment – DVIR Screen

ehicle discon	inected	Connect
	DVIR Details	Current DVIR
Date: 05/ Type: Pre-trip	11/2018 09:05 AM GMT+08:00 Inspector: Driver	No DVIR DVIR HISTORY
Vehicle: Truck2	Vehicle/Trailer Form: Truck	
Trailer: Trailer1	Form: Trailer	
Trailer: Trailer2	Form: INSPECT	

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

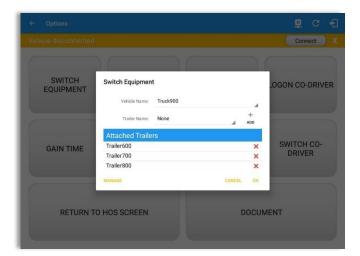
2. Tap the *Main Navigation Hamburger* icon to show the Main Navigation Menu Tap the *DVIR* option within the *Main Navigation Menu*.

Or

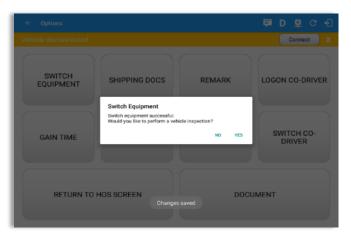
3. Select the *DVIR* button from the Main Hours of Service Menu and then select the *Switch* button.



7.4 Switching Equipment



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

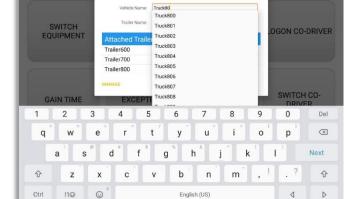


After tapping the Switch button, you will be asked if you would like to perform a vehicle DVIR, tap the **YES** button to navigate to the **Vehicle DVIR** screen or tap the **NO** button to close the dialog box and continue.

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

Vehicles and Trailers can also be filtered through *text entry* on the vehicle/trailer text fields. Text entry availability starts if the total number of trailers/vehicles numbers 100 or more.

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Switch Equipment



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

Note: On the VBUS Settings, VBUS Data and Automatic Configuration should be enabled.

					Connect
SWITCH EQUIPMENT	Switch Equipment				LOGON CO-DRIVER
	Vehicle Name:	Truck900			
	Trailer Name:	None	4	+ ADD	
	Attached Trailer	S			
GAIN TIME	Trailer600			×	SWITCH CO- DRIVER
	Trailer700			×	DRIVER
	Trailer800			×	
	MANAGE		CANCE	ок	
RETURN T	O HOS SCREEN			DOCUN	IENT

7.5 Managing Vehicles / Trailers

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

The 'Manage' button is only available given a situation, that the driver is an asset admin and that the 'Manage Equipment' option (found in the Equipment Management Page) is also enabled. Otherwise, the button will not be available on the Switch Equipment dialog.



7.5.1 Manage Vehicles / Trailers – Delete

hicle disconnected				Connect X	Vehicle disconnected				Connect
Name	License Plate	VIN	Туре	+ ADD	Name	License Plate	VIN	Туре	+ AD
Trail 1			Trailer	2 ×	Trail1			Trailer	1
Trail2			Trailer	2 ×	Trail2			Trailer	1
Trail3			Trailer	1 ×	Trail3			Trailer	1
Truck1		JA3AU16U29U024930	Vehicle	1 ×	Truck1		JA3AU16U29U024930	Vehicle	1
Truck2		1G6KD5EY0AU113517	Vehicle	1 ×	Truck2		1G6KD5EY0AU113517	Vehicle	đ
Truck3		1FM5K7D81DGB69297	Vehicle	1 ×	Truck3		1FM5K7D81DGB69297	Vehicle	1
h Equipment					Search Equipment				

To delete any of the vehicles or trailers listed, tap the 📩 icon. Vehicles/Trailers made in the portal can be edited or deleted in the Raven app and vice versa.

Note: If "Allow drivers to delete equipment" is unchecked in the portal then delete button will not be displayed or disabled in the screen.

				Connect
Name	License Plate	VIN	Туре	
Trailer1		1XP5DB9X4TN389110	Trailer	
Trailer2		1FUPAXYB7MH522652	Trailer	
Truck1	Delete Equipment		Vehicle	1
Truck2	Delete Truck7?		Vehicle	1
Truck3	_	CANCEL DELETE	Vehicle	1
Truck4		WA1LGAFE4DD005406	Vehicle	1
Truck5		1G1ZB5EB3AF229790	Vehicle	1
Truckó		5NPEU46F86H041212	Vehicle	
Truck7		JN1AZ4EHXEM636184	Vehicle	

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



7.5.2 Manage Vehicles / Trailers - Edit

Manage Vehicles/Tra	ilers			F Y	C	÷	← Manage Vehicles/Trailer	Modify Equip	ment			
	License Plate					+	Vehicle disconnected	Equipment				Connec
Trailer994			Trailer		1	×	Name	Name	Truck2		Туре	
Trailer995			Trailer		1	×	Truck10	Туре	Vehicle	*	Vehicle	
Trailer996			Trailer		1	×	Truck2	VIN Odometer Offset	3FAFP07156R240941		Vehicle	
Trailer997			Trailer		1	×	Truck3	License Plate	BYTR 741		Vehicle	
Trailer998			Trailer		1	×	Truck4	License Plate State	Ontario (ON)	•	Vehicle	
Trailer999			Trailer		1	×	Truck5	Regulation Mode GPS Receiver	ELD - Regulation 395.20 Either Device	•	Vehicle	
Truck500		19XFB2F80DE036331	Vehicle		1	×	Truckó	Form:	Truck	•	Vehicle	
Truck600		WVGCR77LX9D018177	Vehicle		1	×	Truck7A	Use GPS Odometer Use Calculated	0		Vehicle	
Truck700		1FT8W3DT0CEB54447	Vehicle		1	×	Truck8E	Engine Hours Device			Vehicle	
Truck701		1FT8W3DT0CEB54447	Vehicle		1	×	Truck9	80			Vehicle	
quipment					_		Search Equipment		CANCEL	SAVE		

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

7.5.3 Manage Vehicles / Trailers – Add

				Connect
Name	License Plate	VIN	Туре	+ ADD
Trailer1		1XP5DB9X4TN389110	Trailer	2 3
Trailer2		1FUPAXYB7MH522652	Trailer	1 3
Truck1		1FT8W3DT0CEB54447	Vehicle	1 3
Truck2		SALMF134X8A272333	Vehicle	1 3
Truck3		1GTEK19J87Z556466	Vehicle	1 3
Truck4		WA1LGAFE4DD005406	Vehicle	1 3
Truck5		1G1ZB5EB3AF229790	Vehicle	1 3
Truck6		5NPEU46F86H041212	Vehicle	1 3
Truck7		JN1AZ4EHXEM636184	Vehicle	0 3

To add a new truck or trailer, tap the

ADD button, this will open the Add Truck dialog, enter the following details:

Vehicle Name – Truck or trailer name VIN – Vehicle Identification Number License Plate – license number Vehicle Type – Vehicle or Trailer

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



When creating a new equipment, the default selected device option is set to "**None**". Also, If the option "**None**" is selected, on the create/edit equipment screen, all other fields on the ELD configuration section will be hidden.

	e Create Equip	ment			🖪 C 🕣	Pad ♥ 〈 Manage Vehicle/Trailers		9-43 AM	¥	781 [C
	Equipment				Connect X	Vehicle Disconnected			Conne	ect
Name	Name	Name		Туре	+ ADD	Q. Search Equipment	Cr	eate Equipment		
Truck10	Туре	Vehicle	*	Vehicle	2 ×	Name				
	VIN	VIN			Annual Concepts	Trailer20	Type	Vehicle 🗸	Trailer	
Truck2	Odometer Offset	Odometer Offset mi		Vehicle	/ ×	Trailer22	VIN	208	Trailor	
Truck3		License Plate		Vehicle	2 ×	Truck1	80.02950.00512.00540	Ditionator Offset km	Vehicle	
Truck4	License Plate State	None	*	Vehicle	2 ×	Truck10	License Plate State	1	Vehicle	
	Regulation Mode	ELD - Regulation 395.20			Thereis Descent	Truck2	Use GPS Odometer	0	Vehicle	
Truck5	GPS Receiver	Either Device	*	Vehicle	2 ×	Truck3	Use Calculated Engine Hours		Vehicle	
Truck6	Form:	None	*	Vehicle	2 ×	Truck4		Either Device 🛩	Vehicle	
	Use GPS Odometer	()			The second second	Truck5	DVIR Form	None 🗸	Vehicle	
Truck7A	Use Calculated Engine Hours	0		Vehicle	2 ×	Truck6	Reculation Mode	ELD - Regulation 395.20 V	Vehicle	
Truck8E	Device			Vehicle	1 ×	Truck7A		Cancel Add	Vehicle	
Truck9				Vehicle	2 ×	Truck8E		3D4GG67V79T243032	Vehicle	
		CANCEL	ADD			Truck9	TRCK-00	3GCRKSE32AG155128	Vehicle	
						new		1FT8W3DT0CEB54447	Vehicle	

Android app Create Equipment dialog

iOS app Create Equipment dialog

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

Note:

- The connection type defers on the VBUS Device selected.
- For iOS app, VBUS Device information is not displayed. Only for Android application.
- If user selects "Digi WVA" in connection type, then admin password field is required.
- Firmware version field can be manually populated. For some VBUS device, it is already prepopulated.
- In the Portal, an ability to determine on which VBUS devices will be displayed is present. Accordingly, on the app, only those devices selected on the portal will be displayed in the "**VBUS Device**" menu.



	Create Equipr	herre		
	Equipment			Connect
	Name	Name	Туре	
Truck10	Туре	Vehicle	Vehicle	1
	VIN	VIN		
Truck2	Odometer Offset	Odometer Offset mi	Vehicle	
Truck3	License Plate	License Plate	Vehicle	2
Truck4	License Plate State	None	- Vehicle	1
Truck5	Regulation Mode GPS Receiver	ELD - Regulation 395.20	• Vehicle	2
Truckő	Form:	AOBRD - Regulation 395.15	Vehicle	1
Truck7A	Use GPS Odometer	0	Vehicle	1
HUCK/A	Use Calculated Engine Hours		Venicie	
Truck8E	Device		Vehicle	2
Truck9			Vehicle	2

A **Regulation Mode** option to switch between 395.15 (AOBRD) and 395.20 (ELD) support is available. When 395.15 (AOBRD) mode is selected it turns off all 395.20 (ELD) features. It simply records the drivers' events regardless to the FMCSA rules. ELD is set as the default regulation mode for all new equipment.

Notes:

- Drivers on the app cannot change the Regulation Mode unless the driver is allowed to do so by enabling the following account control within the Account Settings under App Controls -> 'Allow drivers to specify vehicle HOS Regulation Mode (AOBRD or ELD).
- When in AOBRD mode, disables the data transfer button in the Options screen and changed the button to 'Email Logs' in the Roadside Inspection screen.
- When the driver is in AOBRD mode then the edit "*" sign & events will not be displayed in the Edit Logs screen and on the Certified PDF logs.

	Create Equipr	illoint .			
	Equipment				Connect
	Name	Name			
Truck10	Туре	Vehicle	*	Vehicle	1
	VIN	VIN			
Truck2	Odometer Offset	Odometer Offset mi		Vehicle	
Truck3	License Plate	License Plate		Vehicle	1
Truck4	License Plate State	None	*	Vehicle	1
Truck5	Regulation Mode GPS Receiver	ELD - Regulation 395.2	0 -	Vehicle	1
HUCKO	GPS Receiver	Mobile Device (Smartp	hone/Tablet)	remore	
Truck6	Form:	Vbus Device		Vehicle	1
Truck7A	Use GPS Odometer	Either Device		Vehicle	
HULL/A	Use Calculated Engine Hours		_		
Truck8E	Device			Vehicle	1
Truck9				Vehicle	1

A **GPS Receiver** option allows the user to change how to get the device GPS positions. The GPS Receiver settings can be set in a specific vehicle in the portal->equipment management page.



	Equipme	nt						Con	nect 🔵 🔿
		Name	Truck600				Туре		
Trailer500		Туре	Vehicle				Trailer		1
Trailer700	Odometer (VIN Offset	JN8AF5M	R5DT22659			Trailer		1
Trailer800	License	Plate	License Pl	ate			Trailer		1 2
Trailer900					CANCEL	SAVE	Trailer		1 3
earch Equipment	_	_	_	_		Ŧ			
	1	1	2	3		$\langle \times \rangle$			
	4	;	5	6		Next	t I		
	7	ę	8	9					

An **Odometer Offset** allows driver or personnel to adjust the odometer so that the driver will see an odometer matches their dashboard, rather the engine odometer. Possible scenario is when the engine is replaced and the value is not yet synchronized.

Notes:

- Negative entry for odometer offset field is allowed.
- Odometer offset does not affect app screens like Roadside Inspection and Certified Logs PDF.
- If the saved offset is 100, and the logs have odometer values of 10, 20, 30, 40, will display to the driver 110, 120, 130, 140 (Odometer + Offset).
- If the offset is 100, and the driver edits an event to change the odometer from 140 to 130, will display 130 100 (the Offset) or 30 to the log.

When creating/modifying an equipment with a selected type of "Trailer", the VIN field is also enabled but is not required when saving. VIN field does not require valid format.

If the VIN is optionally populated and that the source is not the engine ECM, it will be auto converted to capital letters when saved.

				A
Trail1	Create Equip	ment	Trailer	
Trail2	Equipment		Trailer	1
Trail3	Name	Trail4	Trailer	
traits	Туре	Trailer	Trailer.	
Truck1	VIN	JTCRI5YC0755C057	Vehicle	1
Truck2	License Plate	License Plate	Vehicle	1
	License Plate State	Illinois (IL)		
Truck3			Vehicle	
		CANCE	EL ADD	



				Connect
Name	License Plate	VIN	Туре	+ ADD
Trailer1		1XP5DB9X4TN389110	Trailer	1
Trailer2		1FUPAXYB7MH522652	Trailer	1
Truck1		1FT8W3DT0CEB54447	Vehicle	1
Truck2		SALMF134X8A272333	Vehicle	1
Truck3		1GTEK19J87Z556466	Vehicle	1
Truck4		WA1LGAFE4DD005406	Vehicle	1
Truck5		1G1ZB5EB3AF229790	Vehicle	1
Truck6		5NPEU46F86H041212	Vehicle	1
Truck7		JN1AZ4EHXEM636184	Vehicle	1

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



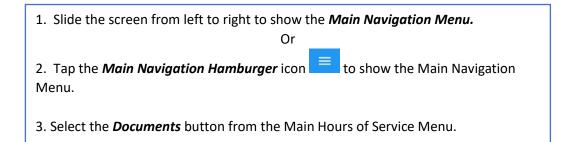
8 Documents

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

There are a number of ways to access this feature:

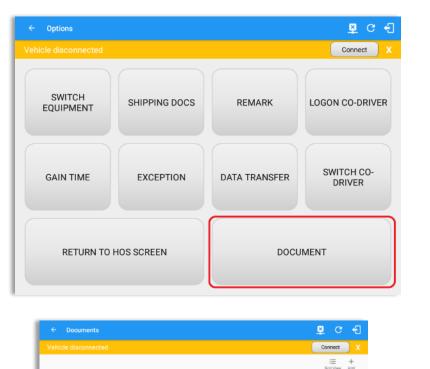
8.1 Documents – Main Navigation Menu

÷	Hours of Service		🖻 💆 C 🕄
	johndoe.jr@gmail.com Tap to add or change driver		
Û	Hours of Service	John Doe Jr.	REMARK
	Job Sites		
٩	DVIR	Truck1	DVIR
*	Work Orders		DVIR
	Switch Equipment	Trailer2	
Q	Roadside Inspection		DOCUMENT
8	Documents		
B	Fuel Receipts	DATA TRANSFER	
\$	Settings		LOGS
0	Help & Support		
÷	Logout	START BREAK	OPTIONS





8.2 Documents – Options Menu

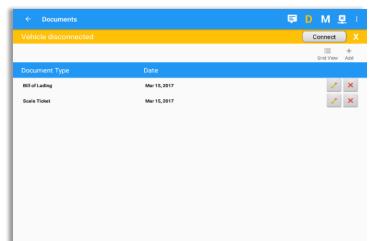


From the *Hours of Service Main Screen*, tap the Options button and then tap the *Document* button.

Vehicle disconnected			Grid View Add	
Caden 2012	Document Details			
Connents Connents Veloca disconnental Connent Image: Strate of the st	Bill of Lading	Jun 22, 2017	/ ×	
Velvicis disconnected Connect Image: Second seco	Citation	Jun 22, 2017	/ ×	
Vehicle disconnected Connect Image: Second secon				
Welkie disconnected Connect Image: Status and the status and				
Welkie disconnected Connect Image: Status and the status and				
Image: State of the state			Vehicle disconnected	
				III + Liet View Add
			A Last House Heard and	
			Jun 22, 2017 Jan 22, 2017	
			:= :=	
: The Documents screen has two views; Grid View Grid View or 'List View' List View.				
	: The Documents	s screen has two vi	iews: Grid View Grid View or 'List View'	N



8.3 Adding Documents





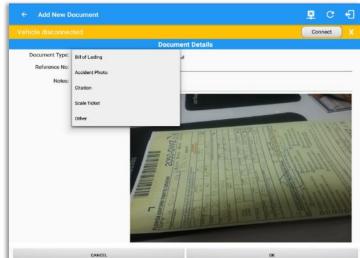
Tap the **Add** button, the camera app will open and you can then take a picture of the document or damage etc.

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

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

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

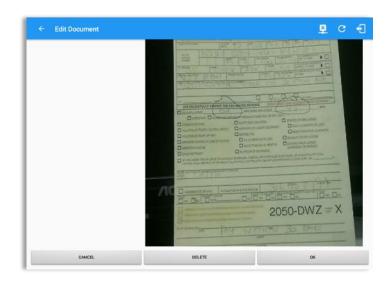
Tap the **OK** button to save and continue or tap the **CANCEL** button to return without saving.

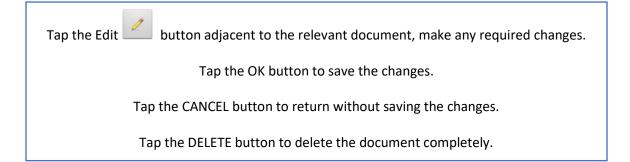




8.4 Editing / Deleting a Document

Vehicle disconnected		Connect
venicie disconnected		
		Grid View Ar
Document Type	Date	
Bill of Lading	Mar 15, 2017	1 3
Scale Ticket	Mar 15, 2017	1 3







9 Add Fuel Receipts

The Fuel Receipt's feature provides an easy way to capture and view fuel receipts purchased related to hours of service activities.

9.1 Main Navigation Menu

÷	Hours of Service		🖻 💆 C 🕄
	johndoe.jr@gmail.com Tap to add or change driver		
Ê	Hours of Service	John Doe Jr.	REMARK
•	Job Sites		
٩	DVIR	Truck1	DIVID
*	Work Orders		DVIR
	Switch Equipment	Trailer2	
٥	Roadside Inspection		DOCUMENT
	Documents		
Bð	Fuel Receipts	DATA TRANSFER	
¢	Settings		LOGS
0	Help & Support		
÷	Logout	START BREAK	OPTIONS

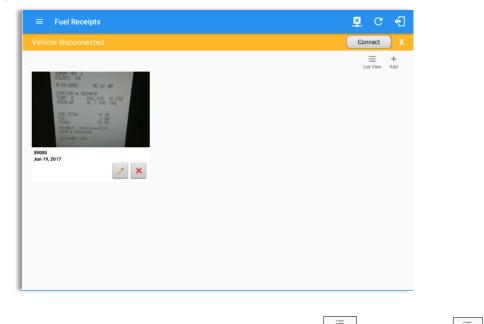
- 1. Slide the screen from left to right to show the Main Navigation Menu.
- 2. Tap the **Main Navigation Hamburger** icon = to show the Main Navigation Menu.

or

3. Tap on the Fuel Receipts button from the Main Hours of Service Menu.

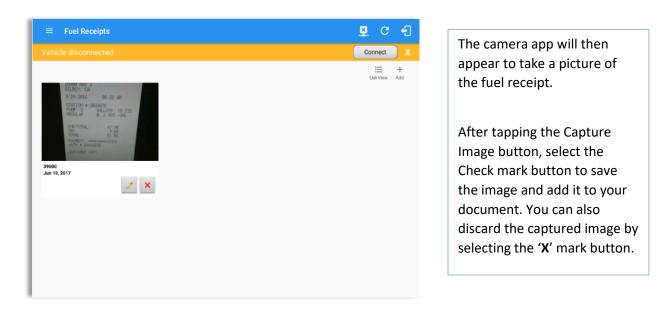


9.2 Fuel Receipts Screen



Note: You can change the documents' view to either **"List View"** or **"Grid View"**.

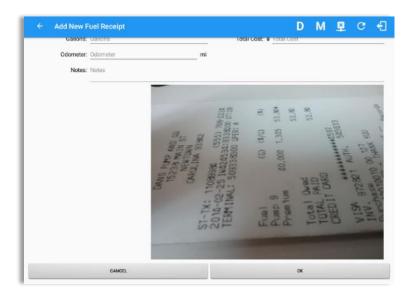
9.3 Adding Fuel Receipts





			Connect X	
	Document Detai	ils		Fill in the necessary information
Reference No: 1502	0	oate/Time: 06/19/2017 07:49 AM		This in the necessary information
City: City	State	/Province: Alabama (AL)		Reference No.
Vehicle: Freight 1		Fuel: Gasoline		State
Gallons: 1.345		Total Cost: \$ 53.80		Vehicle
Odometer: Odometer	mi			Fuel Type
Notes: Notes				Gallons
-				Total Cost
	- W	DANS FUMP AND GD 152288 MAIN ST NEWTOWN CARD UNA 92802		Odometer
	51- 20 TES	TX: 1108898. (555) 708-2224 10-22-25 14024534:3338300 07:08 M1MAL: 509338300 (PER: A		Notes

Note: Unlike adding a document (e.g Citation or Bill of Lading), additional fields will be displayed when adding a Fuel Receipts.



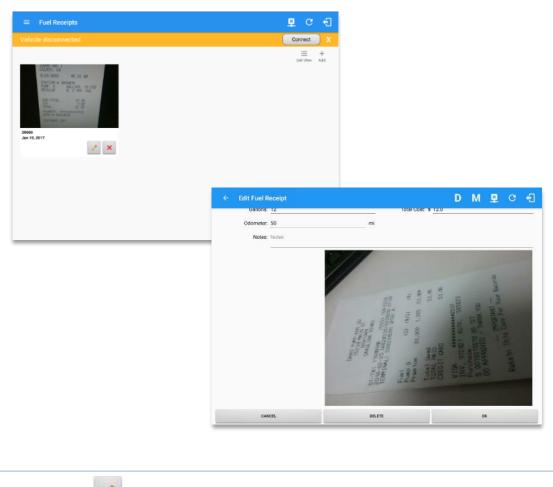
Notes:

- If the state selected is in **US**, the odometer and volume unit display is in **Mi** & **Gallons**.
- If the state selected is in **Canada**, the odometer and volume unit display is in **KM** & **Liters**.
- For every Fuel Receipt created via the App Fuel Receipt feature, it creates a Remark event, found on the Edit Logs screen, with a note "Purchased 1.345 gallons at \$53.80 price (sample note for the above purchased).



After filling in all the fields you can now tap the **ok button** to successfully add the document. You can also tap the **button** to cancel adding the fuel receipt.

9.4 Editing or Deleting a Fuel Receipts

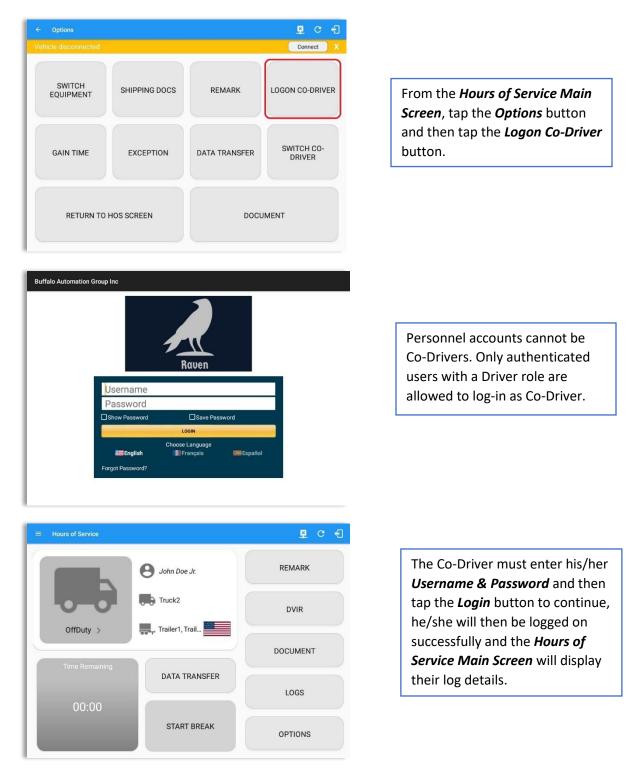


Tap the Edit button adjacent to the relevant fuel receipts, make any required changes. Tap the OK button to save the changes. Tap the CANCEL button to return without saving changes. Tap the DELETE button to delete the fuel receipt completely.



10 Co-Drivers

10.1 Logon Co-Driver



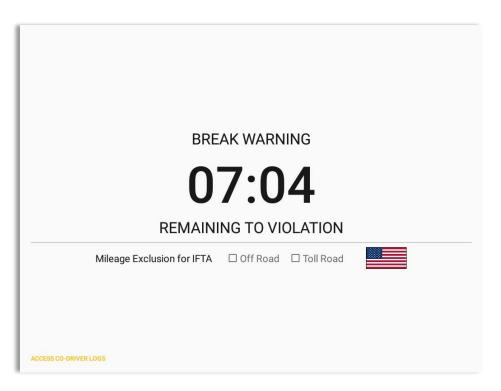


Star	t Time: 12AM		~	- Tue May 15, 201	8 ->	US701	hr8day
	M 1 2 FF 1141 D 1141 D 1141 1 3			9 10 11 N 1	2 3 4 5 6		01:4 00:0 00:0 00:0 01:4
	ition: none			Exception			
Do-Dr		ion Sr.; John Doe Jr.			v all events		
	Status	Start	Duration	Location	Note	+ EXCEPT	+ ADD
1	OffDuty	12:00 AM	1h 41m				
2	Remark	01:41 AM		13mi NW Grand Island, NE	Authenticate		EDIT
3	Remark	01:41 AM		13mi NW Grand Island, NE	Co-Driver(s): David Jackson Sr.; John Doe Jr.		EDIT
	ted entries ctive: IC=Changed	, ICR=Change Reque	sted, ICJ= Change F	lejected			

In addition, the Co-Driver's name is displayed in the daily logs which is placed under the grid chart.

Team Driving

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



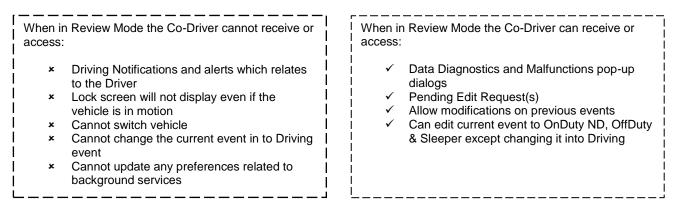


Choose Driver			Cho
johndoe.jr@gmail.com	۲		Driver Authentication johnt Enter password for david.jackson@gmail.com
david.jackson@gmail.com	0		davic
jack.wood@gmail.com	0		Show Password jack:
Mileage Exclusion for	CANCEL	Mileage Exclusion for	CANCEL OK
ACCESS CO-DRIVER LODS		ACCESS CO-DRIVEH LOGS	

See steps in 9.2 Switch Driver to complete process.

Once the Co-Driver has successfully logged in, the main dashboard is displayed with the co-driver's information while setting the app in Review Mode with limited capabilities.

Review Mode



Notes: (When the vehicle is still in motion)

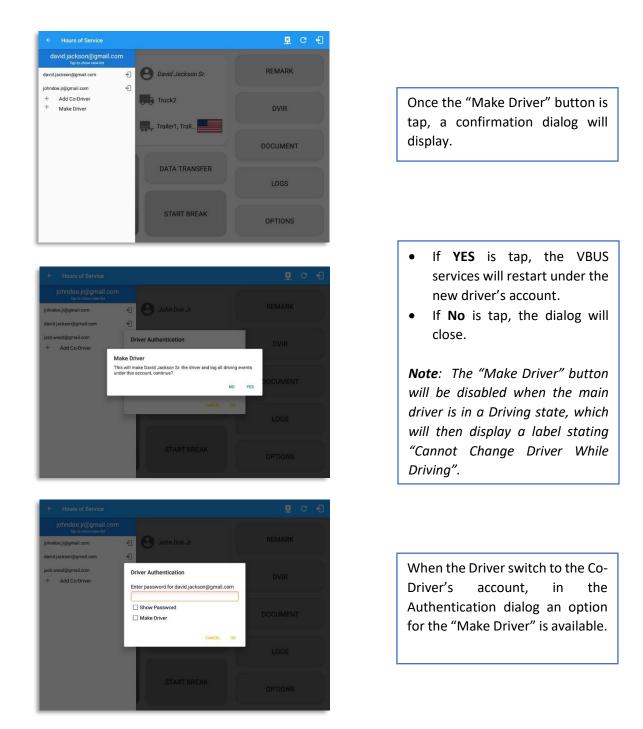
• Attempts to change the status to Driving will only display an error stating "Cannot change status while vehicle is in motion."

Error Currently driving, cannot switch vehicle	
	ок

• Attempts to Accept or Reject requested driving event is not allowed in a co-driver's account, instead an error dialog is displayed stating that "Only "Driver" can switch to "Driving" as current status."



When a Co-Driver is on the Review Mode and that the vehicle is not in motion, an option to make the co-driver to become the Driver is available on the Drivers List.



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



Reassign Driving Time

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

							D		•
itari	Time: 12AM		←	Tue May 15, 2018					nr8day
6	Remark	12:59 AM		13mi NW Grand Island, NE	Pre-trip performed Tru	for Vehicle ck2			EDIT
7	Remark	01:02 AM		13ml NW Grand Island, NE	Completion DVIR fo	n of Pre-trip r Truck2			EDIT
8	Remark	01:41 AM			Pa dekor lar	and in: David			EDIT
9	Remark	01:41 AM	Reassign I	Driving Time					EDI
0	ELD Login	01:43 AM	Note:	Automatic Transi	tion	_			NOT
H.	Power On	01:43 AM	Select Driver:	david.jackson@gmai	il.com				NOT
2	ELD Logout	01:46 AM	Driver:						NOT
3	Sleeper	01:47 AM			CANCEL	OK			EDI
4	ELD Login	01:50 AM			ELD Co	nnection			NOT
16	Power On	01:50 AM			Automatic	Transition			NOT
17	Driving	01:50 AM	00m	13mi NW Grand Island, NE	Automatic	Transition			EDIT

Star	t Time: 12AM		← Tue May 15, 2018 →		r8day
6	Remark	12:59 AM	Pre-trip uvitik not 13mi NW Grand Island, NE performed for Vehicle Truck2		EDIT
7	Remark	01:02 AM	13mi NW Grand Island, NE Completion of Pre-trip DVIR for Truck2		EDIT
8	Remark	01:41 AM	Pro Advar Januard In: David		EDIT
9	Remark	01:41 AM	Reassign Driving Time		EDIT
10	ELD Login	01:43 AM	Reassign Driving Time Are you sure you want to reassign this driving event?		NOTE
11	Power On	01:43 AM			NOTE
12	ELD Logout	01:46 AM	NO YES		NOTE
13	Sleeper	01:47 AM			EDIT
14	ELD Login	01.50 AM	ELD Connection		NOTE
16	Power On	01:50 AM	Automatic Transition		NOTE
17	Driving	01:50 AM	00m 13mi NW Grand Island, NE Automatic Transition		EDIT

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

Once the OK button is tap, it will display a confirmation dialog whether to proceed to reassign the driving time event.

- If YES is tap, the driving event will have recorded as an Inactive Changed (IC) event on the main driver's log
- If **No** is tap, the dialog will close and will not reassign the driving time.

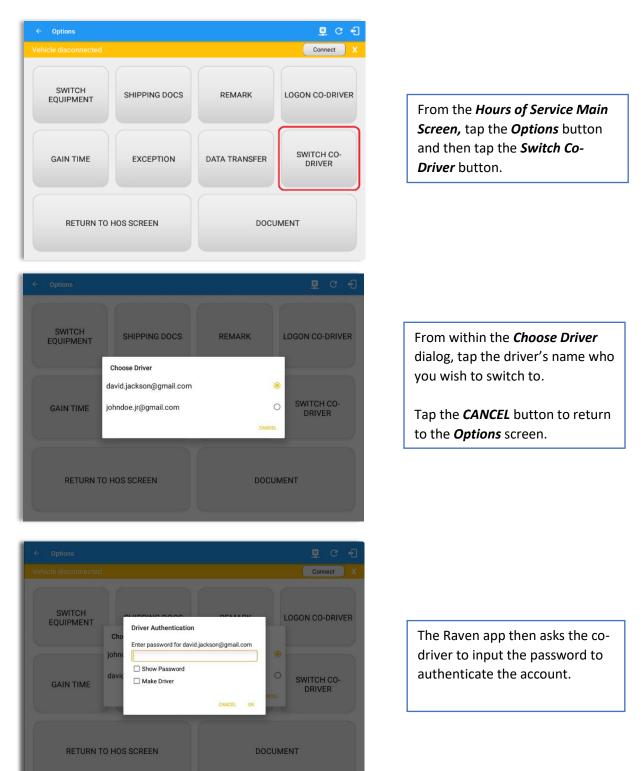
Switch to the Co-Driver's account to check the Reassign Driving Time which will be displayed on the Pending Edit Request dialog.

- If Accepted, the driving event will be reassigned and recorded on the co-driver's log.
- If Rejected, the driving event will not be recorded under the codriver's log. However, it will be displayed as an Inactive Changed Rejected (ICJ) event (both Main and Co-drivers log).

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



10.2 Switch Driver



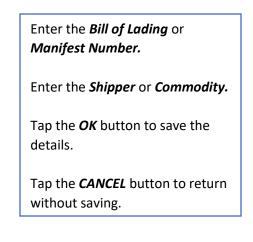


11 Shipping Documents

← Options Vehicle disconnected			Connect X		
SWITCH EQUIPMENT	SHIPPING DOCS	REMARK	LOGON CO-DRIVER		
GAIN TIME	EXCEPTION	DATA TRANSFER	SWITCH CO- DRIVER		
RETURN TO	HOS SCREEN	DOCUMENT			

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

← Options				D 🛱 C 🕣
Vehicle disconnected	Enter Shipping	n Docs		Connect X
	B/L or Manifest No.	Enter		
SWITCH EQUIPMENT	Shipper and Commodity	Enter	LO	GON CO-DRIVER
		CANCEL	ок	
<u>1 - 2 @ 3 #</u>	4 / 5 %	6 ^ 7 &	8 * 9 (0) Del
q w e	r t	y u	i o	p 💌
a s c	l <u>f</u>	g h <u>j</u>	k	4
t z x	c v	b n	m ,!	.? 🕇
Ctri Sym		English(US)		





12 Add Remark

← Options			🖻 G 🕣	
Vehicle disconnected			Connect X	
SWITCH EQUIPMENT	SHIPPING DOCS	REMARK	LOGON CO-DRIVER	From the <i>Hours of Service Main</i> <i>Screen,</i> tap the <i>Options</i> button and then tap the <i>Remarks</i> button.
GAIN TIME	EXCEPTION	DATA TRANSFER	SWITCH CO- DRIVER	
RETURN TO H	OS SCREEN	DOCL	JMENT	
← Options			🖻 💆 C 🕂	
Vehicle disconnected	Add Remark	f Road 🛛 Toll Road	Connect X	
	1mi NW Birmingham, Al			
SWITCH EQUIPMENT	Enter Remark		LOGON CO-DRIVER	Enter the <i>Location</i> (optional).
		CANCEL OK		Enter the <i>Remark.</i>
1 - 2 @ 3 #	4 / 5 % 6	^ 7 ^{&} 8 *	9 (0) Del	Tap the OK button to save the
q w e	r t y	u i	o p 💌	remark.
a s t z x	d f g c v	h j k b n m	, ! . ? †	Tap the CANCEL button to return without saving.
Ctrl Sym 🕲		English(UK)		

Off Road / Toll Road Feature:

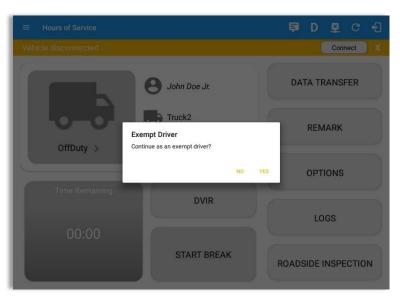
- When **Off Road** is enabled it will create a "Remark" with a note "Off Road". When uncheck it will create a "Remark" with a note "On Road".
- When **Toll Road** is enabled it will create a "Remark" with a note "Start Toll Road". When uncheck it will create a "Remark" with a note "End Toll Road".

Note: Hide or unhide "Off Road" and "Toll Road" options in the portal->Account Controls under App Controls-> "Show Off Road" and "Show Toll Road" checkboxes.



13 Exempt Driver

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

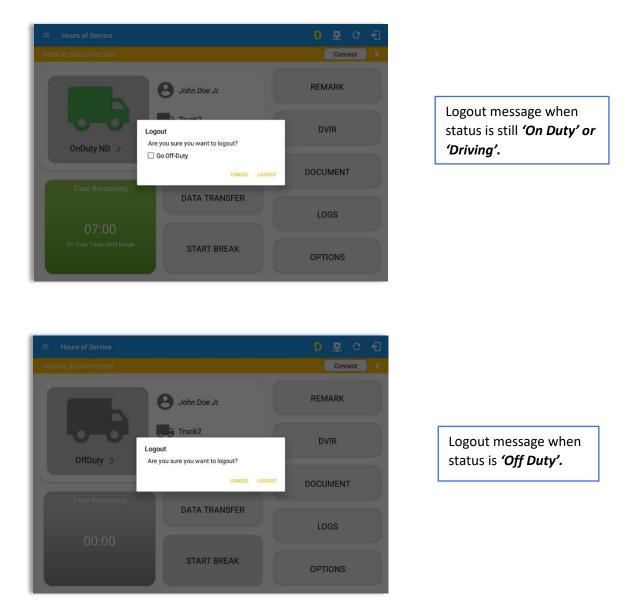


By selecting the OK button, the "**No Logs for Non-CDL-Driver Short-Haul Drivers operating within 150 air-miles**" exception will be enabled. You can enable Exempt Driver through these steps:

Login to Portal \rightarrow Go to the Drivers Management page \rightarrow Select on New Driver button or select the Edit driver button \rightarrow Enable the Exempt Driver option



14 Logout



Note: Once the "**Logout**" option is tapped, the valid driver that logged into the Raven app will be logged out and the Raven app will be close completely (with no Buffalo Automation service or VBUS service running in the background).



15 Unidentified Driving Events

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

	0	John Doe Jr.		DA	TA TRANS	FER
Pending Edit R		p each event to v	iew details			
Event	Start	Date	From	Ac	tion	
1 OnDuty ND	07:30 PM	Aug 02, 2018	Personnel	ACCEPT	REJECT	
2 Driving	07:31 PM	Aug 02, 2018	Personnel	ACCEPT	REJECT	
3 Driving	12:31 AM	Jul 30, 2018	Unidentified	ACCEPT	REJECT	
					CANCEL	
00:00						
		START BR	FAK			

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

Do you really want to a	accept this event?	
Event:	Driving	
Start:	Nov 21, 2016 08:56 AM	
End:	Nov 21, 2016 08:57 AM	
From:		
To:		
Vehicle Miles:	1	
VIN:	Simulated	
Equipment ID:	LheSoo	
Origin:	Unidentified	
Note:	Automatic Transition	
Reason:		
Enter annotation for t	nis event	

Note:

- Odometer field is displayed for edit request(s) made by the Personnel but it is displayed as Vehicle Miles field for edit request(s) made by the Unidentified Driver.

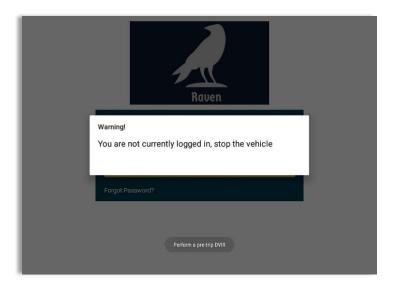
- The Unidentified Driving Event pending edit request dialog has additional details like: **From, To & Equipment ID** compared to that of the Personnel's pending edit request dialog.

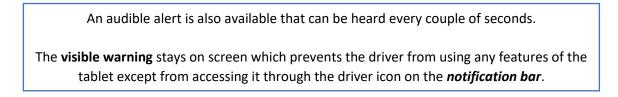


16 Warning Features

Audible and Visible Warning

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

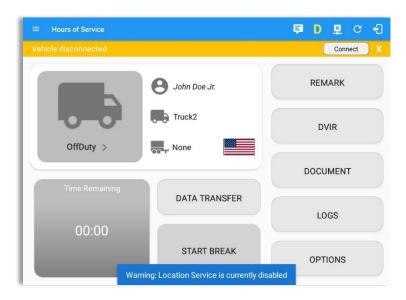




Location Services

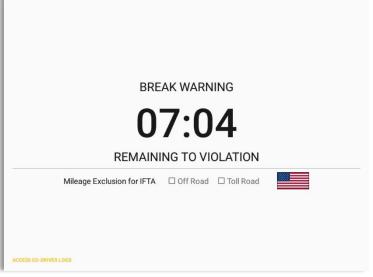
If the driver logged into the application without the Location Services turned on, a snackbar will display on the main dashboard and to other screens except for the screens navigated through the Settings menu. However, when the Location Services of the device is enabled then the snackbar will no longer display.





<u>Lock Screen</u>

All warnings acquired by the authenticated driver while driving, will be displayed on the lock screen and remains on screen along with a countdown (to 00:00) being displayed however the text will dim down after 15 seconds to not distract the driver. The normal text color (black or white, depending on day/night mode) will be displayed upon tapping of the screen.



Notes:

- If the driver stops driving while one of the checkbox is enabled the driver can still uncheck the "Off Road" or the "Toll Road" through the Options screen > Remarks.
- Country flag displayed indicates which ruleset the driver is on: USA ruleset or Canadian ruleset.



17 List of Login Errors

These are the different error messages that appear upon an incorrect login. Follow the steps that follow to determine the cause of the error and to mitigate the problem.

Login Errors	Mitigation Steps
No Internet Connection. Check your network connection.	Ensure that the tablet/mobile phone is connected to a data network or Wi-Fi network.
Invalid user id or password.	Ensure that the email address and password are correct and valid. The password should match the valid email address.
Unable to communicate with HOS server. Check your internet connection. Continue without syncing?	Contact Buffalo Automation support at (716) 636-1092 or send an email to eld@buffautomation.com.
A timeout error has occurred.	Ensure that the tablet/mobile phone is connected to a data network or Wi-Fi network with internet access. If issue persists, try again later or contact Buffalo Automation support at (716) 636-1092 or send an email to eld@buffautomation.com.
An unknown error has occurred.	Contact Buffalo Automation support at (716) 636-1092 or send an email to eld@buffautomation.com.
Username is required.	Ensure that the username field is not empty.
Password is required.	Ensure that the password field is not empty.
Login timed out.	Ensure that the tablet/mobile phone is connected to a data network or Wi-Fi network with internet access.
An error has occurred while creating the account. If the error continues please contact Buffalo Automation for assistance.	Try logging in after a few minutes and if error persists, contact Buffalo Automation support to (716) 636-1092 or send an email at eld@buffautomation.com.
An error has occurred while retrieving account details.	Contact Buffalo Automation support at (716) 636-1092 or send an email to eld@buffautomation.com.
An error has occurred while setting up the account. Please	Contact Buffalo Automation support at (716) 636-1092 or send an email to eld@buffautomation.com.



contact Buffalo Automation for assistance.	
Check account configuration	Ensure that the driver and the asset are in the same Visibility Sets and has a role Driver role.
Error creating unidentified driver account	Try logging in after a few minutes and if error persists, contact Buffalo Automation support to (716) 636-1092 or send an email at eld@buffautomation.com.
A non-driver accounts cannot be login as co-driver.	Ensure that the user account has a role Driver role. Personnel accounts are not allowed to log in as co- drivers.
Your Buffalo Automation version is < current build version >. This version is no longer supported. Please upgrade to < latest build version > or greater for stable operation.	Upgrade the Application to the latest version.

