FROTCOM®

ELECTRONIC LOGGING DEVICE ELD

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01 ABOUT ELD

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As of December 18, 2017, carriers and drivers of commercial motor vehicles (CMVs) subject to the ELD mandate are required to adopt electronic logging devices (ELDs).

The ELD will automatically record a driver's on-duty and off-duty time, allowing drivers to spend less time preparing logs and more time doing what they do best: driving.

The intended result is a decrease in the frequency of fatigued driving by CMV drivers, reducing crashes, injuries, and fatalities involving large trucks and buses on our highways.

Carriers who install automatic on-board recording devices (AOBRDs) prior to December 18 will be able to use those devices until December 16, 2019, after which point they must upgrade or switch to ELDs.



01 ABOUT ELD

The main

features/functions of the ELD are:

- Provides separate accounts for drivers and administrative (non-driver) ELD users;
- Must automatically sense Motion Status, Vehicle Miles, Engine Hours, CMV Position and CMV VIN;
- ✓ Automatically records all driving times at intervals of 60 minutes. Records date, time, location, engine hours, vehicle miles, and driver identification;
- Records location with an accuracy of one mile radius during on duty driving periods;

- Reduces location accuracy to a 10 mile radius when the vehicle is used for authorized personal use
- Is synchronized with UTC (Coordinated Universal Time);
- Retains data for the current 24 hour period and the previous 7 consecutive days;
- Prevents tampering does not allow anyone to alter or erase information originally collected;
- ✓ Requires driver to review unidentified driver records, and either acknowledge assignment of this driving time or indicate that the records do not belong to the driver;

01 ABOUT ELD

- ✓ Allows a driver to obtain a copy of their ELD records on demand, either through a printout or electronic file;
- ✓ Supports one of two options for electronic data transfer: Telematic type (using wireless web services or email) or Local transfer type (using USB 2.0 or Bluetooth);
- ✓ Displays all required standardized data to authorized safety officials on demand through a screen display or printout that includes three elements: a daily header, graph grid showing driving duty status changes and detailed daily log data. The graph grid, if printed, must be at least 6 inches by 1.5 inches;

- Requires driver certification and annotation (written explanation) for any edit to the records that are made by the driver or any other ELD user;
- Requires certification of driver records at the end of each 24 hour period;
- ELD provider furnishes user's manual, instructions for handling malfunctions and record-keeping during malfunctions, and instructions for transferring ELD hours of service records to safety officials;
- Volume control or mute option for any audio feature.

02 FROTCOM ELD

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Frotcom provides a module integrated with the ELD specifications and demands.

The Commercial Motor Vehicle (CMV)'s engine is connected to a tablet running our application to record data (location, engine hours, miles, power status, motion and vehicle identification data).

These data is used to comply with the Hours of Service (HOS) rules, replacing paper logbooks and Automatic On-board Recording Device (AOBRD) systems. The information is then synchronized with Frotcom Web and is available to the carrier fleet managements.



Geographic location information (GNIS); Engine hours; Vehicle miles; Power status; Motion status; Vehicle identification data (VIN).



Frotcom Web (carrier system): Reports, configuration, synchonization etc.

INTELLIGENT FLEET

MANAGE YOUR FL

03 ELD MENU

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THE ELD MENU ON FROTCOM WEB

This feature shows on Frotcom Web the same information recorded and shown on the Frotcom ELD app, as well as all the information for the past 6 months (for internal control and eventual inspection by officers that may request the logbook from all the carrier's drivers).



ELECTRONIC LOGGING DEVICES

	LOGBOOKS	EVENTS		
LAST 30	DAYS V -1 +1 UNFILTERED V			
V DRIVER	HOURS WORKED	DISTANCE	VIOLATIONS	CERTIFIED
joaquim t	05:26	0,0 km	No violations	
joaquim t	03:45	0,0 km	No violations	
joaquim t	11:37	0,0 km	No violations	1
joaquim t	15:00	0,0 km	No violations	
	DRIVER joaquim t joaquim t joaquim t joaquim t	LOGBOOKS LAST 30 DAYS -1 +1 UNFILTERED - V DRIVER HOURS WORKED joaquim t 05:26 joaquim t 03:45 joaquim t 11:37 joaquim t 15:00	LOGBOOKSEVENTSLAST 30 DAYS - 1+1UNFILTERED -V DRIVERHOURS WORKEDDISTANCEjoaquim t05:260,0 kmjoaquim t03:450,0 kmjoaquim t11:370,0 kmjoaquim t15:000,0 km	LOGBOOKS EVENTS Image: LAST 30 DAYS - 1 +1 UNFILTERED - Image: LAST 30 DAYS - 1 +1 UNFILTERED - Image: DRIVER HOURS WORKED DISTANCE VIOLATIONS joaquim t 05:26 0,0 km No violations joaquim t 03:45 0,0 km No violations joaquim t 11:37 0,0 km No violations joaquim t 15:00 0,0 km No violations

This sub menu shows all the logbooks received from all vehicles through Frotcom ELD app.

In this list you can see:

- Logbook Date;
- Driver;
- Total of hours worked;
- **Distance**;
- Information if any violation occurred;
- If it is a certified logbook or a open logbook.

In the submenu **Events** you can look for all the **Malfunctions and Diagnostics** events that happened with the vehicles of your fleet, with the possibility to filter them by Name, Date and type of event:

ELECTRONIC LOGGING DEVICES

			LOGBOOKS	EVENTS			
Q Search		■ LAST 30 DAYS -1 +1	MALFUNCTIONS	AND DIAGNOSTICS			
DATE		VEHICLE	CLEARED DATE	TERMINAL	CODE	ТҮРЕ	DESCRIPTION
Today, 09:47	Filipe Pires	F C4MaxV2 2		us_teste	1	Diagnostics	<u>*</u>
Today, 09:43	Filipe Pires	F C4MaxV2 2		us_teste		Diagnostics	
Today, 09:18	Filipe Pires	F C4MaxV2 2		us_teste	2	Diagnostics	
Yesterday, 20:36	Filipe Pires	F C4MaxV2 2		us_teste	1	Diagnostics	
Yesterday, 20:35	Filipe Pires	F C4MaxV2 2		us_teste		Diagnostics	



You can see the details of the logbook click on one date from the list:

< BAC	K TO LI	IST																				JOA	QU	IM T	APA	DAS	5 - SE	EPTE	EMB	ER 1	12																					
DR	IVER																							VE	HICL																								US 60	CYC	LE 7 DAYS	
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CA	RRIER																							D	AY LO	G																						F	ours	00:0	00	w
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Driving					0	0:00						1	15:0	0						New	York	, NY				5	Type							0 kn						0	0:00											
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To be able to manage your fleet with ELD, some additional information on your account is required.

Note that a user can see these options only if they have permission for ELD.

You must go to Administration > Account > Profile and enter the information about the Carrier and Home Terminal Name.

CARRIER			
Dot Number	123456789		
Main office address	Lisbon	ZIP code	55555-5555
State	ARIZONA 👻		
Cycle rule available	ALL 👻		
Exceptions available	NO EXCEPTION -		
Cargo type	ALL 👻		
Drivers can use Personal conveyance	NO	Drivers can use Yard moves	NO

04 CONFIGURATION - ACCOUNT

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FIELD	DESCRIPTION
Dot Number	Department of Transportation number
Main office address ZIP code State	Address information
Cycle rule available	Cycle rule applied for the fleet (currently there are two rules available: 70hrs/8days and 60hrs/7days).
Exceptions available	No exceptions are available at the moment
Cargo type	Type of cargo available
Drivers can use Personal conveyance	Choose if the drivers can use the vehicle for personal purposes
Drivers can use Yard moves	Choose if the drivers are allowed to register Yard moves (on duty, yet not driving

ADDRESS	STATE	TIME ZONE	
Av. de portugal	NV	US/Alaska	EDIT DELETE
Av. de Espanha	AZ	Africa/Algiers	EDIT DELETE
			ADD
	ADDRESS Av. de portugal Av. de Espanha	ADDRESSSTATEAv. de portugalNVAv. de EspanhaAZ	ADDRESSSTATETIME ZONEAv. de portugalNVUS/AlaskaAv. de EspanhaAZAfrica/Algiers

You can use the the ADD button to add the You can also use the EDIT and DELETE following information for the Home Terminal:

buttons to change information of the already added Home Terminals.

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- Name \bigcirc
- Address \bigcirc
- State \cap
- Timezone \cap

To be able to manage your fleet with ELD, some additional information on your drivers profiles is required:

Note that a user can see these options only if they have permission for ELD.

You must go to **Administration > Drivers**, select your driver from the list or click on **Add New** to add a new driver.

On the left menu, select **ELD**:

< BACK TO LIST		JOHN SMITH		DELETE NOTEBOOK
GENERAL	ELD SETTINGS			SAVE
PROFESSIONAL				JAVE
DRIVING LICENSE	First name	Click to add	Last name Click to add	
EMERGENCY	Commercial Driver's License	Click to add	State	
MOBILE TERMINAL	Exceptions available	•		
PERSONAL INFO	Drivers can use Personal conveynance	NO	Yard moves NO	
WHITELISTS	Cargo type	-		
ELD	Home terminal	•		
	* SIGNATURE			
	Change signature			

FIELD	DESCRIPTION
First name Last name	Same as in the driver's license
Commercial driver's license state	Information regarding the driver's license
Cycle rule available	The cycle rule applied to this driver
Exceptions available	No exceptions are available at the moment
Drivers can use Personal conveyance	Additional option for this driver (shows availability based on the Account settings)
Cargo type	Cargo of transportation of this driver
Home terminal	Home terminal
Signature	Driver's signature (driver can change the signature on their device)

The required information to ELD is:

- License Plate;
- Assets ;
- Vehicle Identification Number (VIN).



FROTCOM ELD APP

The Electronic Logging Device module on Frotcom provides a clean and user friendly interface for you to track, manage and share the information of your Hours of Service with the carrier and/or with Federal Motor Carrier Safety Administration's (FMCSA) authorities.

This icon is displayed on the desktop of your device/tablet. Tap it to open the Frotcom application and proceed with the login.

Tip: While using the system, any text in blue can be tapped on in order to add/change the value.

Desktop icon:



When you launch the application you will see the login page.

Electronic Logging Device	
Username	200
Password	Same and

06 **LOGIN**

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If it's the first login, you will be asked to confirm your and your vehicle's information. To confirm, tap **Confirm**:

After the login, you will see the main screen of the application:





When you tap **Remaining time** the following panel will be shown:

÷			FROT	COM	۲		Jon Doe
Break	Required 08:00 08:00	Driving 00:00	11:00 11:00	Shift 00:00	14:00 14:00	Cycle 00:00	70:00 70:00
	RESTIN	G FOR	7	DRIVIN	G	OFF DUTY	
	00:	00		ON DUT	Y	SLEEPER	
	REQUIRED TO STOP AT	9:03 AM		(NOT DRIV	ING)	BERTH	

On the top of the panel you can see four different bars/clocks with your Hours of Service (HoS):

	Break Req	uired 08:00	Driving	11:00	Shift	14:00	Cycle	60	:00
	00:00	08:00	00:00	11:00	00:00	14:00	00:00	60:00	
Break ro	equired				Shows for a mandato	how long time ry break	e you are a	ible to dr	ive before
Driving					Shows for	how long time	e you have	been dr	iving
Shift					Shows the (day)	total of work	time on th	ne curren	t shift
Cycle					Shows the (based on t	total of work the driver's cy	time on th cle)	ne curren	ıt cycle

When you start driving (ignition on and vehicle moving) the system will automatically set your status as Driving. For the other status (Off duty, On duty not driving and Sleeper berth) you can set by tapping the respective options on the bottom right of the panel.



Once you are driving, you will be able to see the clocks and information regarding your next break, but you will be unable to select other events while the car is moving.

Notes:

- The time shown on the device is always based on the time zone defined for the home terminal.
- To be able change your status, the ignition must be switched off and the vehicle must not drive for 1 minute.

When you access this option you will see a graph with your daily logbook, based on your statuses on **Remaining time**:

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← F	ROTCOM®	Jon Doe
Violations: NONE	Sep 24, 2017 >	US 70h/8days
M 1 2 3 4 5 6 7 8 9 1 OFF SB D H 1 1 1 1 1 1 8:00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 11 N 1 2 3 4 5 6 7 1	8 9 10 11 M 13:00 02:00 09:00 09:00 00:00 24:00 Violations 0

If you want to see the details about your shift, you can click on List Events:

÷		Jon Doe				
Event	Start	Location	Duration	Odometer	Engine	Origin
Off Duty	12:00 AM	0.000000,0.000000	8:00	0	0.0	Driver
Driving	8:00 AM	0.000000,0.000000	3:59	0	0.0	Driver
Sleeper Berth	12:00 PM	0.000000,0.000000	1:59	0	0.0	Driver
Driving	2:00 PM	0.000000,0.000000	5:00	0	0.0	Driver
Off Duty	7:00 PM	0.000000,0.000000	4:59	0	0.0	Driver

Clicking on **Certify Log** will lead you to the following panel, where you can sign and agree with the information shown on the graph. This information will then be available to your fleet manager:



If you find any incorrect information on the graph, of for any reason you want to change/adjust a value, you can simply tap on the graph and edit or create the events as you wish. You can also add documents to the event (e.g. receipts):

÷	FRO	Jon Doe			
Edit Event					
Date:	Sep 24, 2017 8:00 AM	Duration:	Ongoing		
Status:	Driving	Miles:	0.00 mi		
Reason:	No Reason	Location:	0.000000,0.000000		
Notes:	notes (min. 4 char)				
ADD DOCUMENT CANCEL SAVE					

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