

# Electronic Logging Devices: Improving Safety Through Technology

## WHAT IS THE ELD RULE?

FMCSA aims to make highways safer for all drivers. One danger on the road is fatigued driving, which leads to hundreds of crashes and deaths each year. The ELD rule, which requires the adoption of electronic logging devices, is the latest step to address fatigued driving among drivers of large trucks and buses. ELDs will make it easier to enforce existing HOS regulations, which remain unchanged.

**The ELD rule is required under MAP-21.**

### Who is covered by the ELD rule?

The ELD rule applies to the vast majority of large trucks and buses on the road. There are exemptions, for a complete list see [www.fmcsa.dot.gov/hours-service/elds/eld-fact-sheet](http://www.fmcsa.dot.gov/hours-service/elds/eld-fact-sheet).

- ELD** = Electronic Logging Device
- CMV** = Commercial Motor Vehicle
- HOS** = Hours of Service\*

*\*Hours-of-Service regulations specify how long a driver can operate a CMV and how long drivers must rest before operating again.*

## Making Roads Safer

**1,844** CRASHES AVOIDED ANNUALLY

**562** FEWER INJURIES PER YEAR

**26** LIVES SAVED EACH YEAR

## HOW DOES AN ELD WORK?

An ELD synchronizes with a vehicle's engine to automatically record a driver's off-duty and on-duty time and securely transfer HOS data to a safety official.



### 1. RECORD

ELD synchronizes with CMV engine to automatically record data.



### 2. CERTIFY

Driver certifies records, making any necessary annotations.



### 3. TRANSFER

Upon request, driver starts data transfer. Data is routed to safety official using secure methods.



### 4. REVIEW

Data file is sent to safety official with potential HOS violations flagged for review.

#### RECORDS:

- Engine power status
- Vehicle motion status
- Miles driven
- Engine hours
- Identification of driver/authorized user, vehicle, and motor carrier
- Duty status

#### OPTION 1

Both ELD and safety official must connect to internet



Web Services

+



Email

#### OPTION 2

Data is transferred locally



USB 2.0

+



Bluetooth®



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## HOW DO ELDS IMPROVE EFFICIENCY?

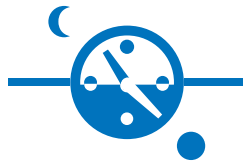


### Improved Accuracy

ELDs replace handwritten paper logs currently in use, improving the accuracy of the data recorded.

### Safer Operations

By holding drivers and their companies accountable to critical HOS regulations, ELDs help create a safer work environment, ensuring that drivers take the breaks they need.



### Saving Carriers Time and Money

**\$570 million**  
SAVED ANNUALLY IN CRASH REDUCTIONS

**\$2.4 billion**  
SAVED ANNUALLY IN PAPERWORK

**\$1.2 billion**  
NET ANNUAL SAVINGS

**FMCSA is committed to a successful implementation of ELDs by ensuring that drivers, their companies, and ELD providers have all the information they need to stay compliant with the ELD rule.**

## HELPING CARRIERS STAY COMPLIANT



### Compliance Deadline: December 18, 2017

Companies subject to the rule must adopt ELDs for all affected vehicles.

Carriers that have installed other electronic devices prior to the compliance date will have an additional two years to upgrade to or adopt ELDs.



### Supporting Carriers and ELD Providers

#### Educating carriers

<https://www.fmcsa.dot.gov/ELD>

To help motor carriers comply with the ELD rule, FMCSA has created an online resource with checklists, FAQs, brochures, fact sheets, training materials, and more.

#### Supporting manufacturers

<https://csa.fmcsa.dot.gov/ELD>

ELD providers must self-certify and register their devices with FMCSA through the ELD Provider Portal, a password-protected section of the ELD provider website. The site also serves as a central online location for providers to access all things ELD.