ELD Functional Specifications FAQs

Below are responses to some of the frequently asked questions we have recently received.

For a full list of functional specifications, please consult Section 4 (Functional Requirements) of the ELD Rule.

? What are the different User Accounts that need to be supported by the ELD?

For more information on User Accounts, see Section 4.1.

A CMV DRIVER
» Associated with driver's license number and State or jurisdiction.
» Can only access driver data associated with account.
» Allow concurrent authentication for team drivers.
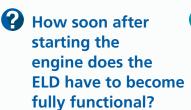 Co-driver **cannot** switch driving roles while vehicle is in motion.

Exempt Driver
» Account configuration must be available to carriers to set up for drivers who are not required to follow the ELD mandate.
» Must be initiated by motor carrier (Support Personnel).
  • There should be a prompt for annotation from motor carrier explaining exemption.
» Exemption reviewed by driver upon login and logout.
» ELD must record driving time.
  • Suspend detection of missing data elements data diagnostic event for the driver.
» Default "No Exemption."
» Exempt status must be displayed in header.

Unidentified Driver
» Unidentified driver is never selected. If device detects motion with no driver logged in, it will create an unidentified driver profile.
» Visual or visual and audible warning.
» No manual entry of information.
» Non-authenticated operation of CMV.

SUPPORT PERSONNEL
» Create, remove, and manage user accounts.
» Configure allowed ELD parameters.
» Access, review, and manage drivers' ELD records.
» No recording of ELD data.

? How soon after starting the engine does the ELD have to become fully functional?

A ELD must be powered and become fully functional **within 1 minute** of the engine receiving power (see Section 4.3.1.1).

? What is the ELD required to sense?

A The ELD must automatically sense the following (see Section 4.3.1):

» Motion Status
» Vehicle Miles
» Engine Hours

» CMV Position
» CMV VIN

For definition of terms, see Section 7: Data Elements Dictionary

? At which points do the Data Integrity Checks described in Section 4.4.5 take place?

A **EVENT DATA CHECK**
» Calculated at the time the event is recorded.
» Included in the event data.

LINE DATA CHECK
» Calculated at the time of the generation of the ELD output file.
» Appended as the last line item of each individual line in the output file.

FILE DATA CHECK
» Calculated at the time of the generation of the ELD output file.
» Appended to the end of the data file.

? For which detectable malfunctions does the ELD need to monitor itself?

A Please see the table below.
For full details, consult Section 4.6.1.

Category	Indicator	Malfunction
Power	Device fails to sense power information from ECM or alternate source	Vehicle is in motion for an aggregated 30 minutes or more, over a 24-hour period
Engine Synchronization	Device fails to sense engine information or fails to establish a link to the vehicle ECM	Sensing failure persists for more than an aggregated 30 minutes during a 24-hour period
Timing	N/A	Device is unable to verify its timing accuracy
Positioning	Device fails to acquire a valid position measurement within 5 miles of the CMV's movement	Failure to acquire valid position persists for 60 minutes over a 24-hour period
Data Recording	N/A	Device detects that it can no longer record or retain required events or retrieve recorded logs that are not otherwise stored remotely