ThinAir Telematics – ThinAir HOS
January 2019

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Executive Summary

- ThinAir Telematics - ThinAir HOS is the most comprehensive Hours of Service tablet app and portal in the industry
- ThinAir Telematics - ThinAir HOS will appeal to fleets from Owner-Operator to medium-large fleets including DVIR, and optional customized DVIR, State Mileage and comprehensive engine data options
- Best of breed hardware supported
- ThinAir Telematics services are designed to be sold by channels, completely white-labelled
- ThinAir Telematics is an excellent partner
  - Our focus is your success, not just with excellent products, but with seasoned management and support staff, and worldwide experience
  - Your success is our success

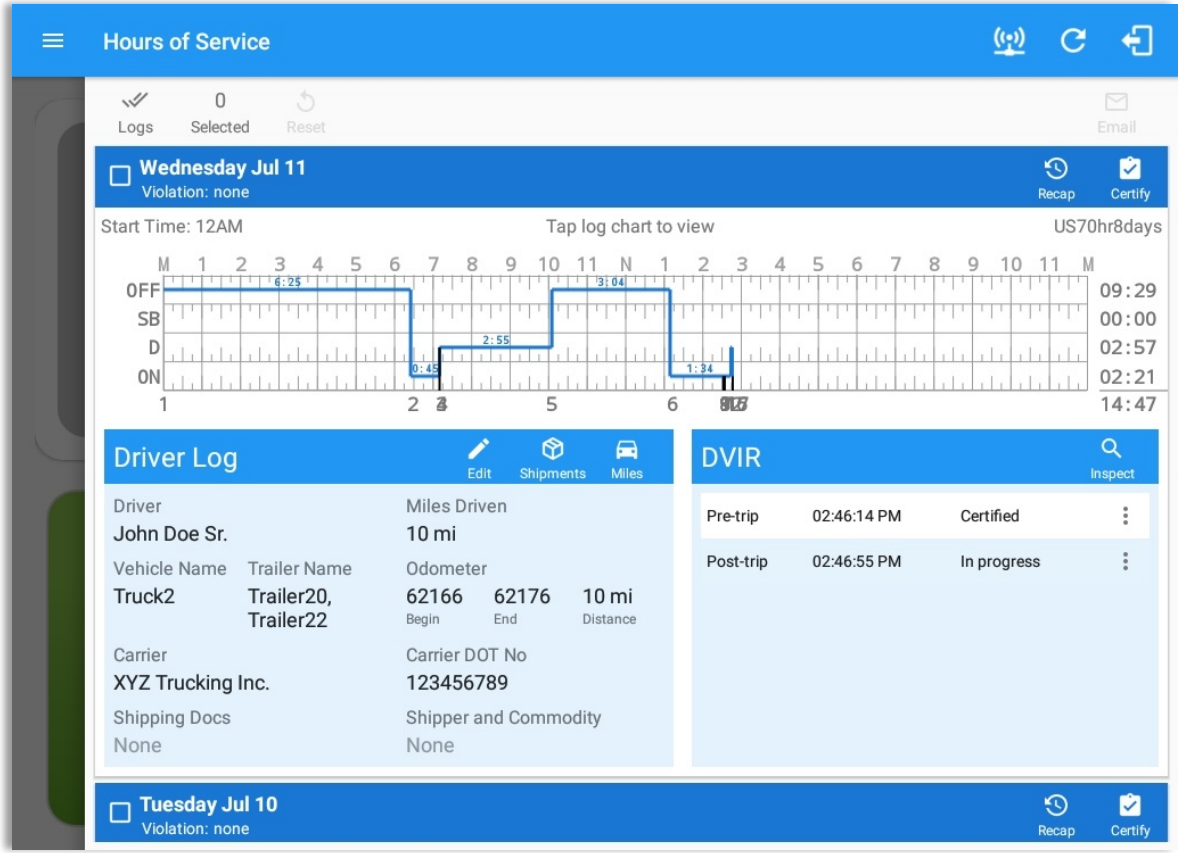
ThinAir Telematics - ThinAir HOS

ThinAir Telematics ThinAir HOS Gold Mobile Worker Add-on

- **Certified ELD app including connection and synchronization with Portal; ELD, DVIR, State Mileage and ability to add additional services from reseller or from ThinAir Telematics**
- DOT hours of service logging, vehicle & trailer inspections, team driving, online help. Includes interaction with an electronic logging device (ELD) for verification and testimony to the veracity of driver logs
- Interaction with the ThinAir Telematics Portal for back office monitoring of driver status, ability to create custom inspection categories, manage drivers, edit logs with audit, view reports
- Includes DVIR and State Mileage

- **ThinAir HOS Gold add-on**
- Real time tracking of Mobile Workers with work orders, dispatching, job site completion reports, mobile inspections, signature capture

ThinAir Telematics - ThinAir HOS



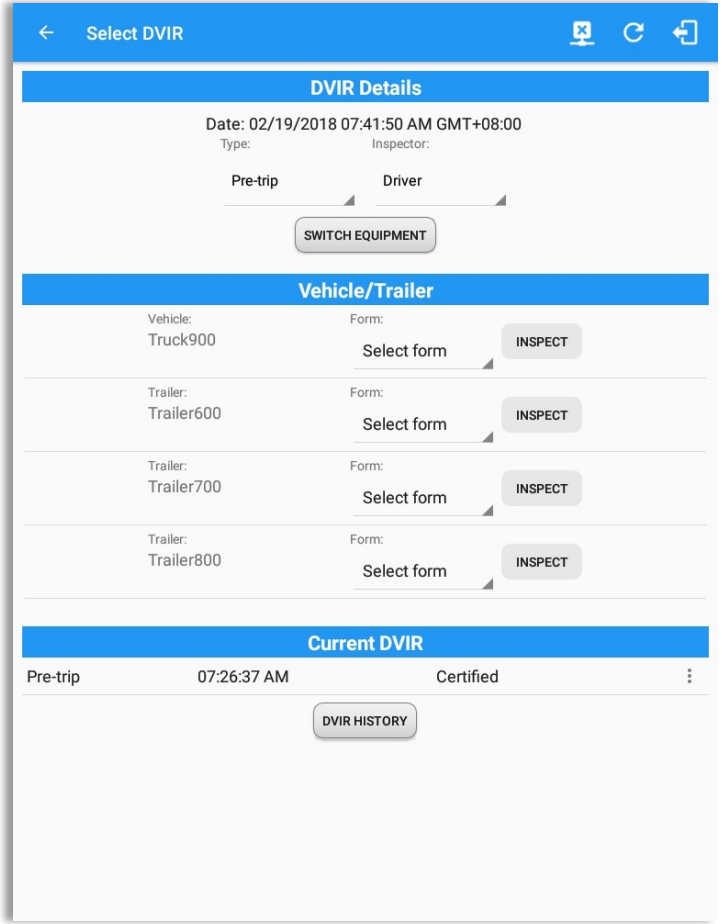
Hours Of Service,

DVIR,

DOT/FMCSA Certified

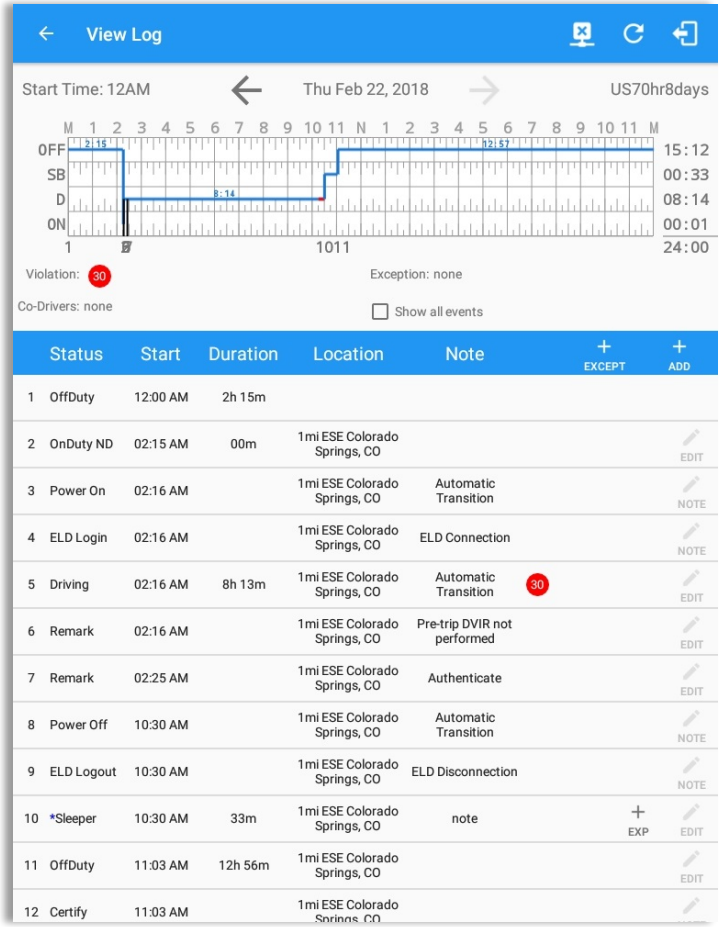
ThinAir Telematics - ThinAir HOS Differentiators I

- Completely White Labelled
  - Brandable, logos, icons, app name, colors, Google package name, URL's, reports, portal i-frames or API integration to existing channel portal
  - Certifiable on FMCSA website in reseller's name for those resellers that have our product branded for them
- Enhanced DVIR
  - Customizable pre and post trip DVIR points on per asset or class of asset basis
  - Speech to text to avoid typing (and typos), time stamping of DVIR entries
- Extremely Easy To Use
  - Help documentation for each and every screen with examples, how-to's, etc.
  - Makes driver's life easy, minimizes support requirements



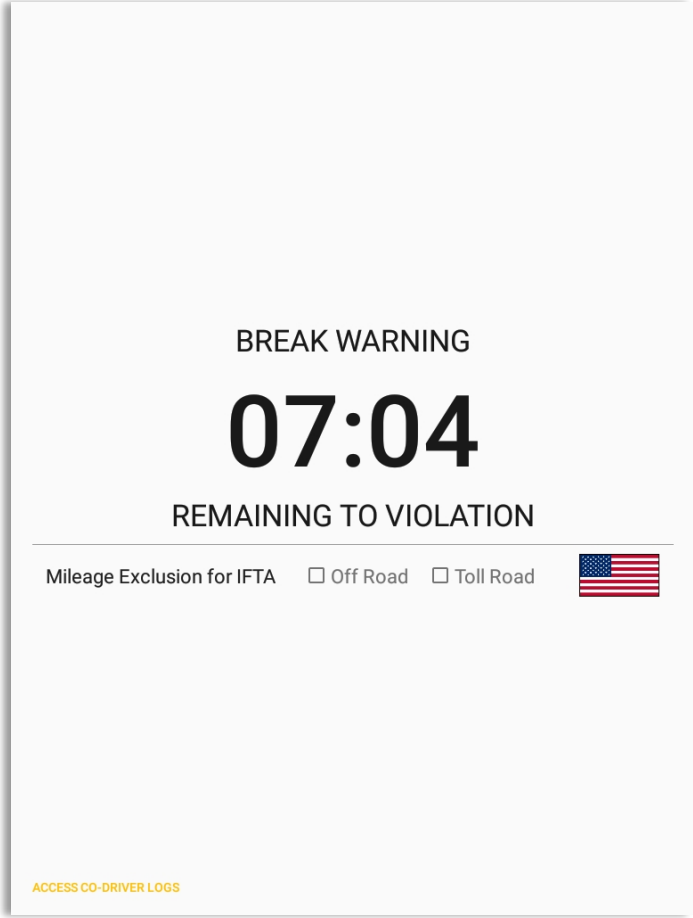
ThinAir Telematics - ThinAir HOS Differentiators I

- Unlike other providers, our portal's log grid clearly shows violations
  - Violation Icon below makes it easy to identify an issue and ensure that corrective measures are taken
  - In addition, violation action report available for download from the web portal
  - Report can be completed, printed, signed by all parties and scanned and attached to the violation record



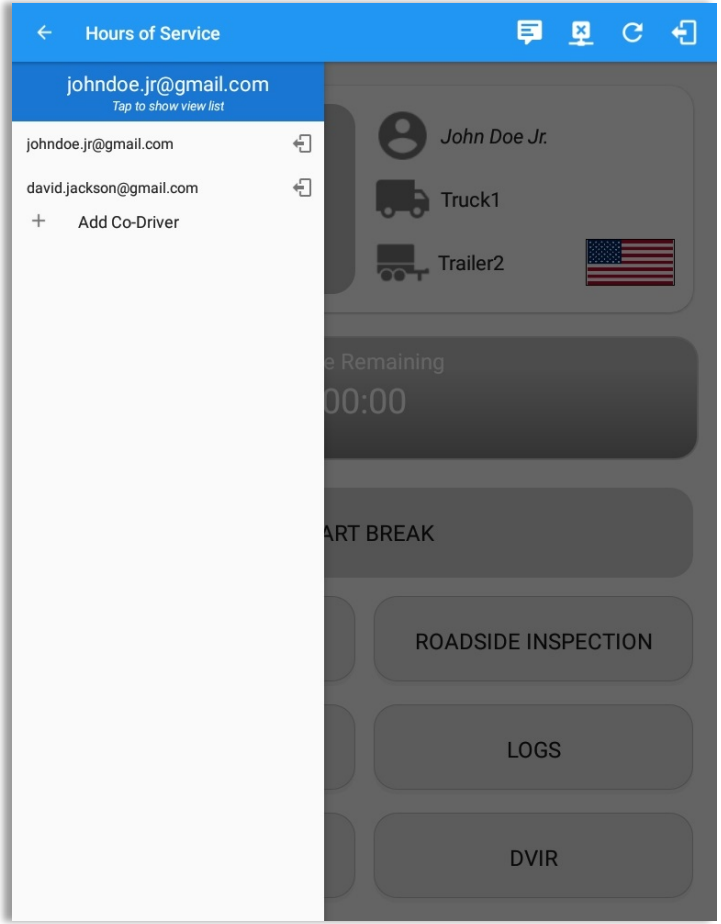
ThinAir Telematics - ThinAir HOS Differentiators I

- Slip Seat or Team Driving
  - Drivers can easily switch vehicles/tablets during the day, up to 6 driver supported
  - The Co-Driver's name is also displayed below the grid chart.
  - The Co-Driver is allowed to review his/her information by having the "***Access Co-Drivers Logs***" option on the lock screen which allows them to access the Hours of Service dashboard and subsequently select the Logs option while the vehicle is still in motion.
  - Once the Co-Driver successfully login, it will display the main dashboard with the co-driver's information with limited conditions set in **Review Mode.**
  - A driver that is set as the Main Driver is the one currently using the application while the other one is only in the monitoring state.



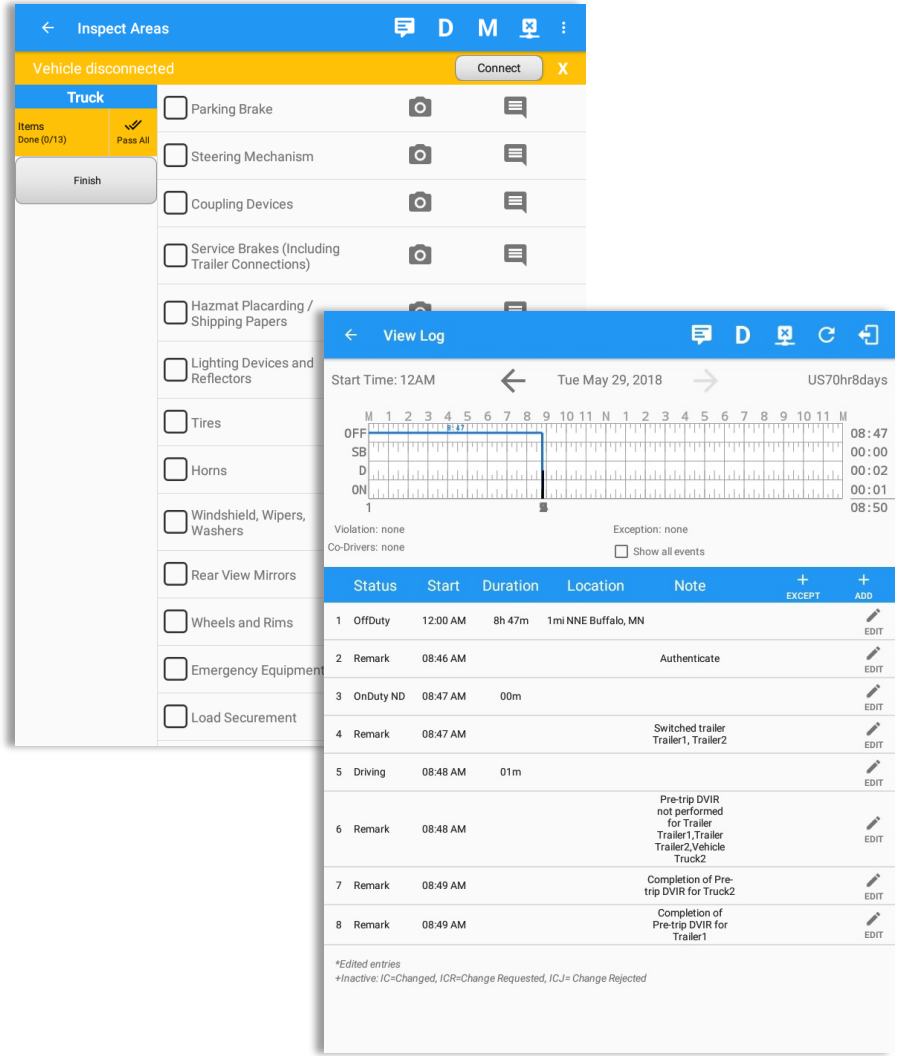
ThinAir Telematics - ThinAir HOS Differentiators I

- 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
- Once the "**Make Driver**" is enabled the VBUS services will restart under the new Driver's account
- The "Make Driver" button will be disabled when the main driver is in a Driving State, which will then display a label stating "*Cannot Change Driver While Driving*"



ThinAir Telematics - ThinAir HOS Differentiators II

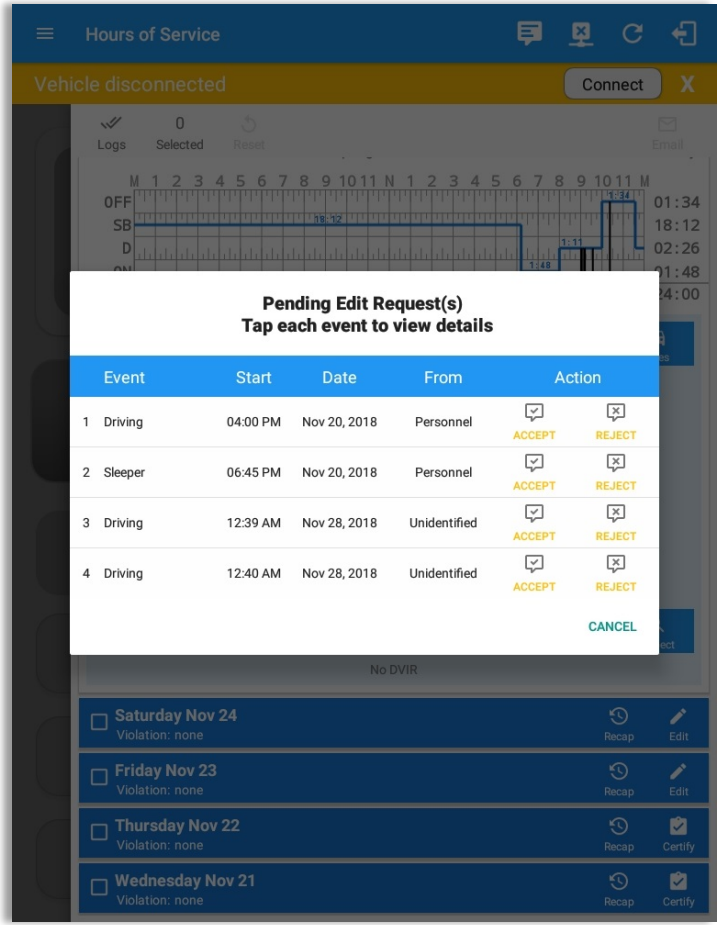
- Offline support – disconnected operation
- Fully integrated portal backend for driver dashboard at home office, feature rich, fully synchronized with tablet and all Hours of Service product options
- Numerous API's for integration with other portals.
- Support for offline login and logout for user who already logged in the device before



Note:
A remark "Completion of Pre-trip DVIR for [vehicle name] or [trailer name] will be displayed in the events list after a DVIR completion. And "Pre-trip DVIR not performed for Vehicle [vehicle name] or Trailer [trailer] name." remark when DVIR was not performed.

ThinAir Telematics - ThinAir HOS Differentiators II

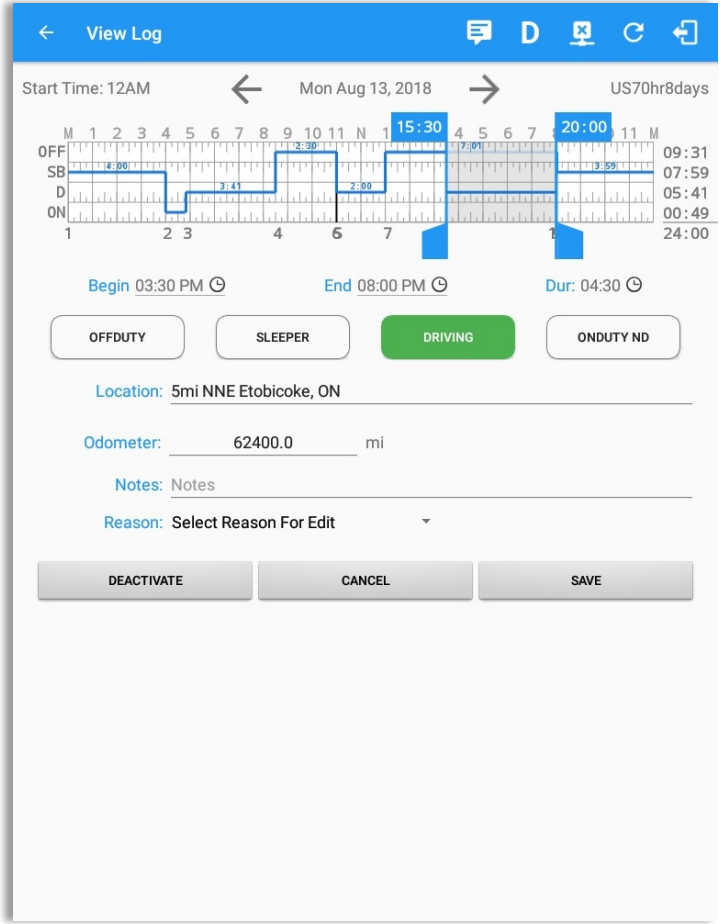
- Two-way integration of portal edits with the device including full edit logging
  - Drivers can review requested edits from a fleet manager/personnel user or co-driver and indicate whether they wish to accept or reject the proposed events. . Pending Edit Request(s) display includes requested edits for a day that is beyond the 8 days log for USA cycle (14 days log for Canada cycle). Accepting the events will display a dialog informing driver to recertify the log at log out on the app or to certify log on the web portal.
  - In addition, Intermediate logs, driver's Login/Logout activity, CMV's Engine Power On/Off and are available to help the driver monitor the Vehicles condition and status.



ThinAir Telematics - ThinAir HOS Differentiators II

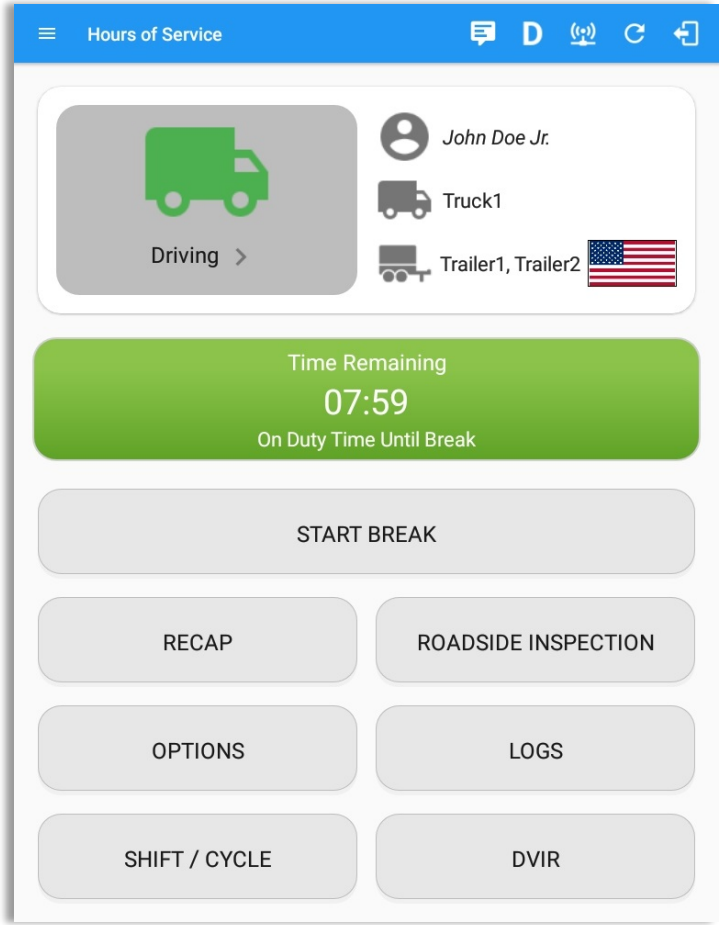
- Grid View Editing feature
  - Ability to edit event by dragging the sliders on the grid to set the Begin Time and End Time or manually entering the time using time picker field.

***Note**: On the HOS Preference setting, 'Use Grid View Editing' option should be enabled to use the feature.*



ThinAir Telematics - ThinAir HOS Differentiators II

- It also indicates if the device is connected or disconnected to a VBUS device
  - Switching or selecting a Vehicle with a preconfigured VBUS device enables the app to find and connect on the match device.
  - If the app attempts to connect to an unsupported device. the app then displays a dialog which warns the user that the equipment has an invalid VBUS device type set and that the default device type is being used. The ‘Device Not Supported’ dialog will be displayed stating: “Device is no longer supported. Please use manual connection." along with a Cancel and Manual Connection buttons.

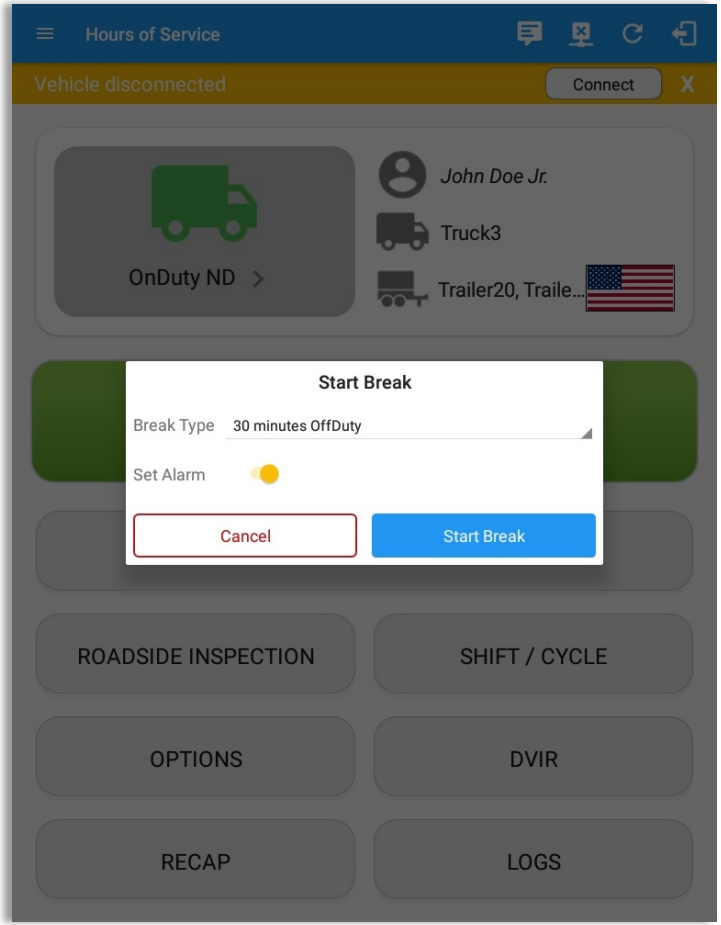


***Note**: On the VBUS Settings, VBUS Data and Automatic Configuration should be enabled.*

ThinAir Telematics - ThinAir HOS Differentiators II

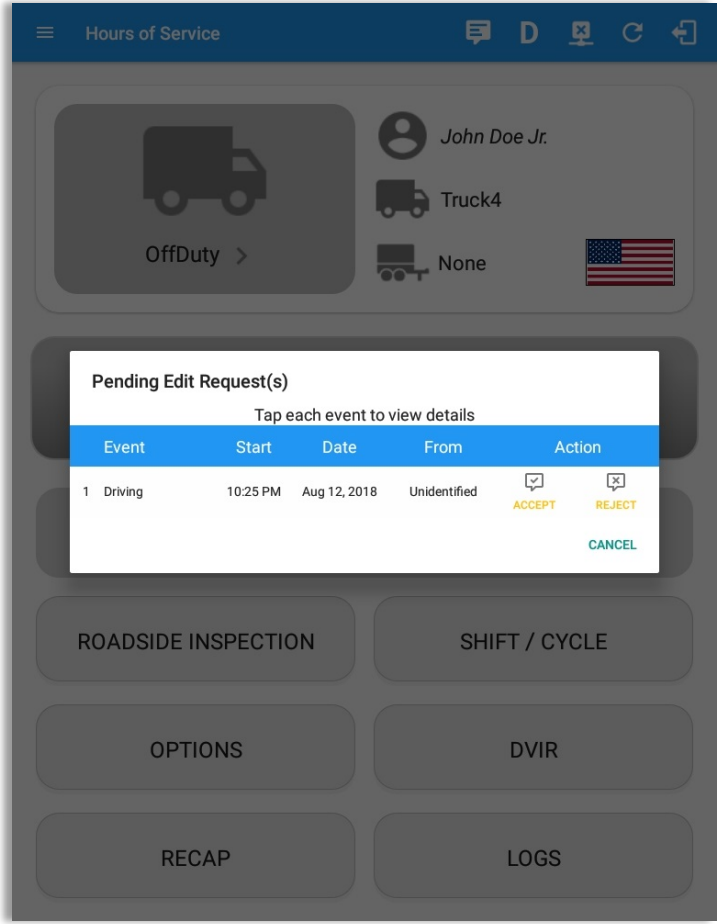
- Control in specifying Break type
  - Control for drivers in specifying what kind of break they are going to be taking (ex: 30 min OffDuty, 2hrs OffDuty, 2hrs Sleeper, 8hrs Sleeper) along with the ability to play an alarm.

***Note**: If Set Alarm is enabled, an audio alarm is played when break is over. If disabled, no audio alarm when break is over.*



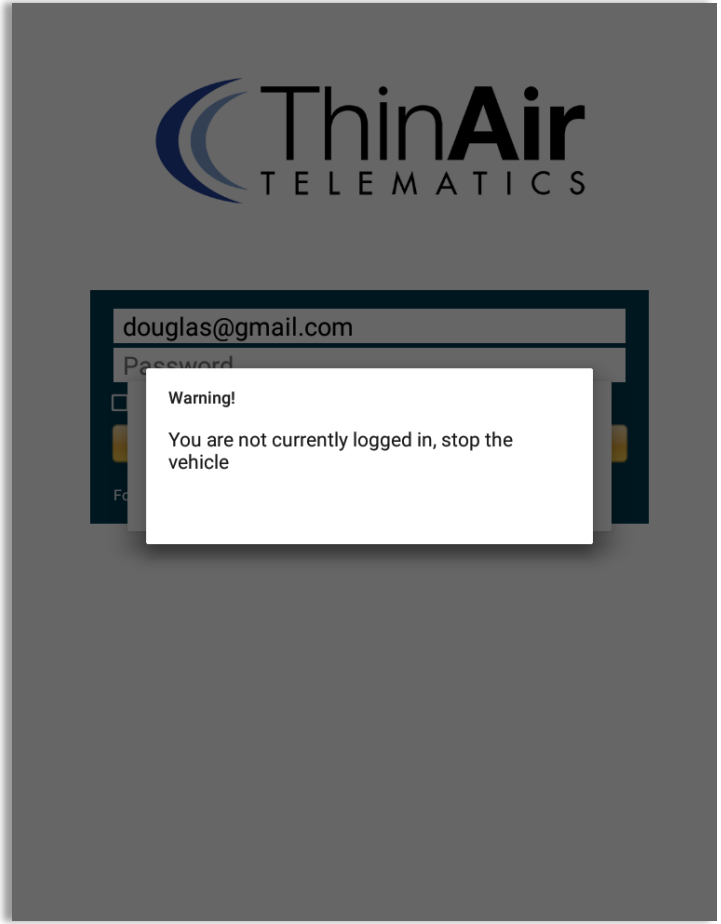
ThinAir Telematics - ThinAir HOS Differentiators II

- Unidentified Driving Events
  - If the driver logs out from the ThinAir HOS app and the vehicle is put into motion for more than 3 minutes, Unidentified Driving Events are automatically created under the Unidentified Driver account. However, the app prevents from Unidentified Driving for vehicle in AOBRD mode.
  - When an Authenticated Driver logs into the ThinAir HOS app, these events can then be accepted or rejected by the driver or be left in the Unidentified Driver account
  - Pending Edit Request dialog for unidentified driving event has additional details like: **From** & **Equipment ID** compared to edit request from personnel.



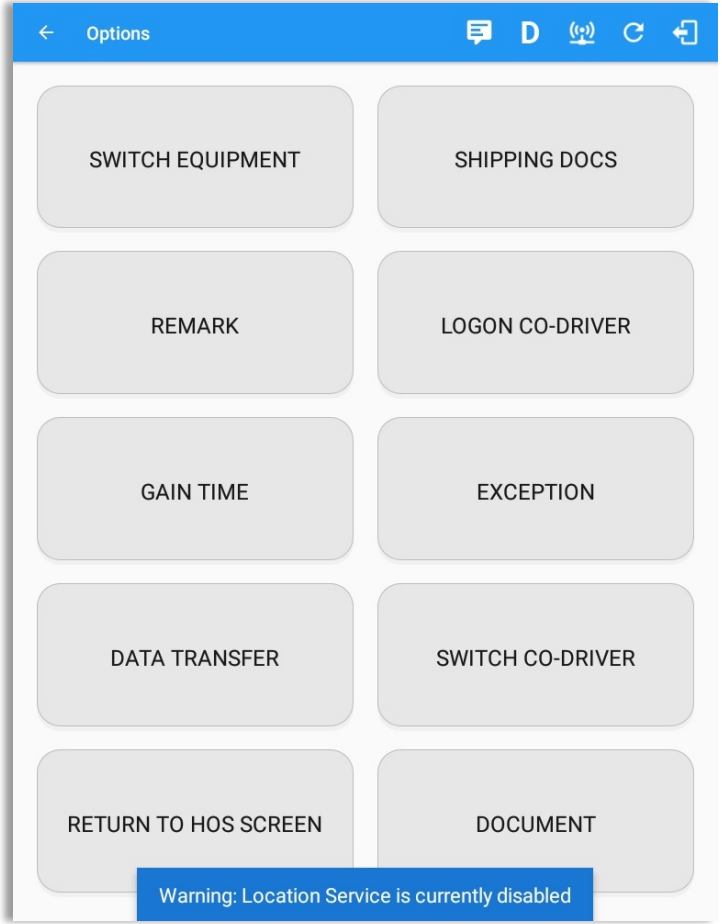
ThinAir Telematics - ThinAir HOS Differentiators II

- Warning features
  - If the driver has logged out from the app and the vehicle is put into motion, the ELD prompts a visual and audible warning reminding the driver to stop and login to the ELD. This monitoring and notification capability is dependent on a VBUS data connection running in the background.
  - The **visible warning** stays on the screen and also prevents the driver from using any features of the tablet until the vehicle has stopped.



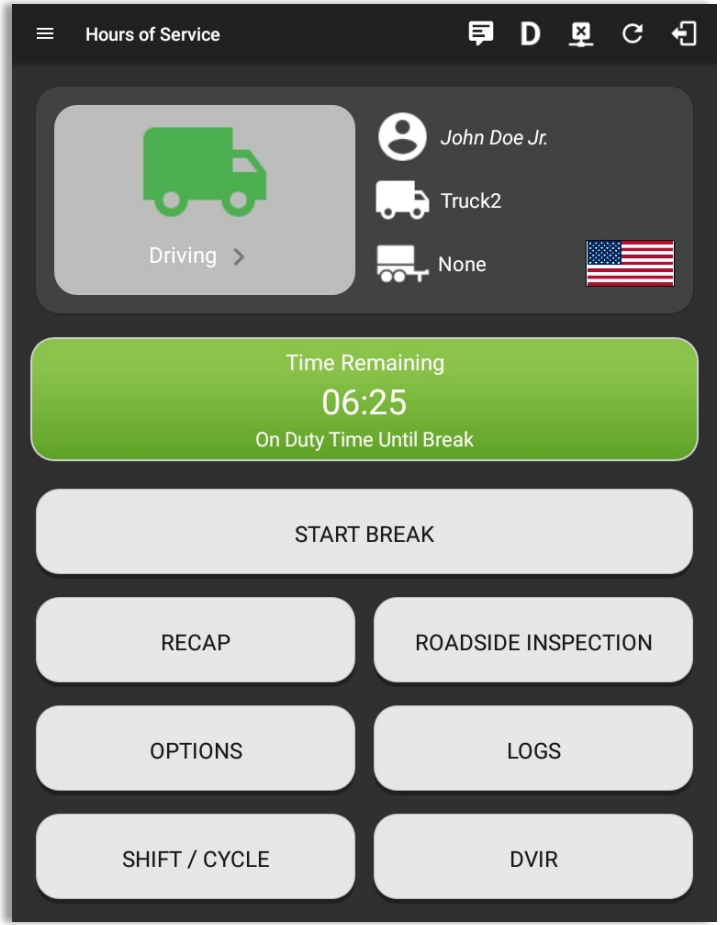
ThinAir Telematics - ThinAir HOS Differentiators II

- 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.



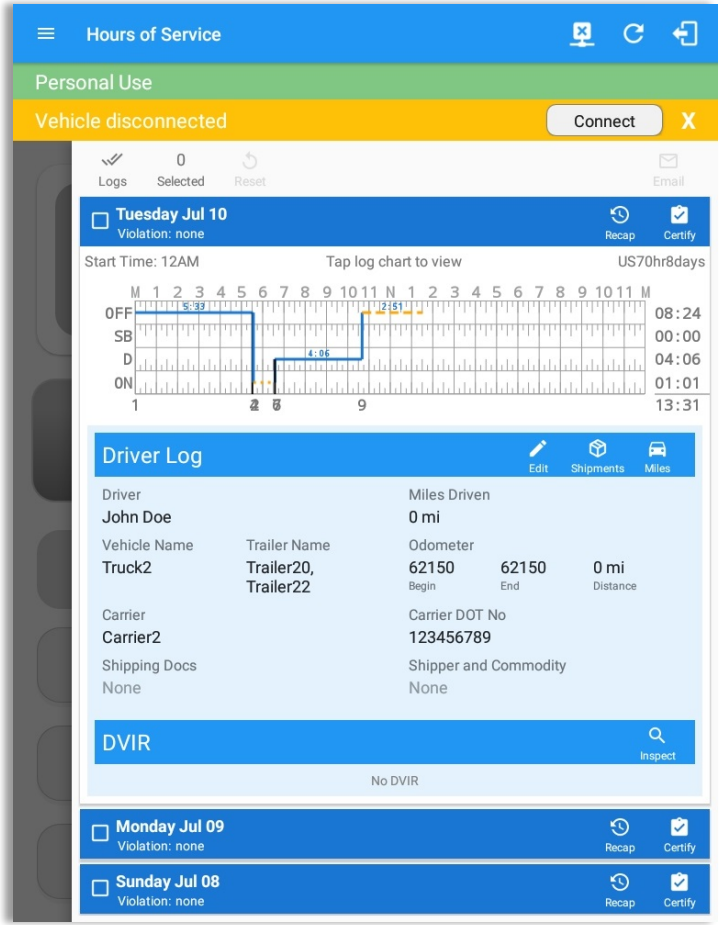
ThinAir Telematics - ThinAir HOS Differentiators II

- Theme for night time driving
  - When night mode is enabled, the application automatically changes the color scheme of the user interface.
  - The theme will activate based on the calculated sunset time of the device's GPS position or time settings.



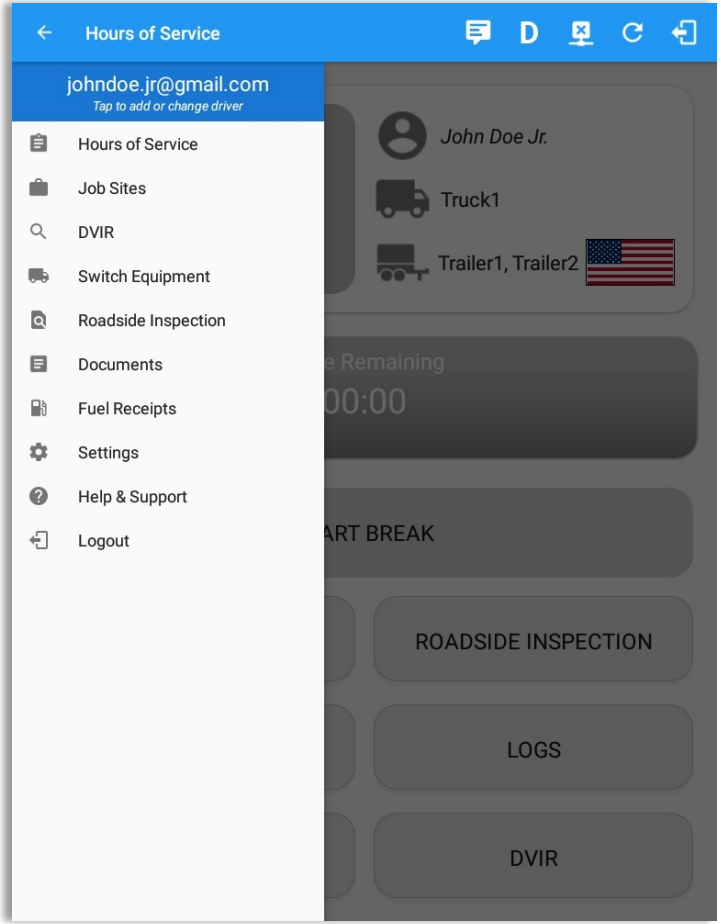
ThinAir Telematics - ThinAir HOS Differentiators II

- Events such as Personal Use, Yard Moves and Off Road are also recorded in the driver's history list. However, only the Personal Use and Yard Moves are 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.
- Log Certification is also available in the app. One can monitor when a certified log has been edited in the portal. Edit suggestions will prompt the driver to either accept or reject the requests, Recertification of the log is required for accepted events. A label in the title log will display "**Recertify**" message.
- Static notification on the screen below the app header is visible to inform the driver when they are currently using Personal Use or Yard Moves



ThinAir Telematics - ThinAir HOS Differentiators III

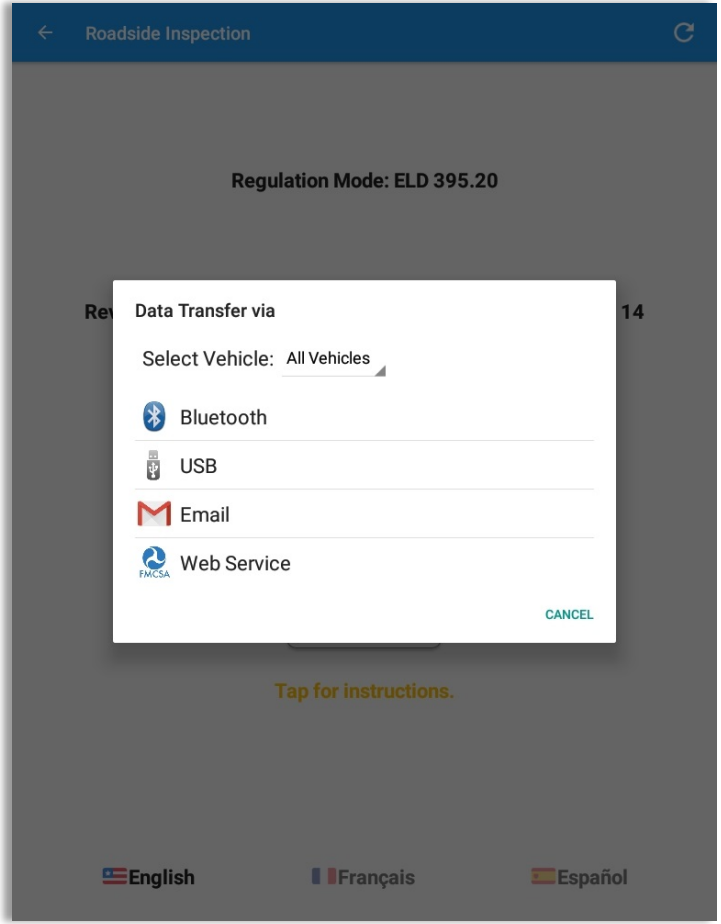
- Control tablet from portal, such as disable driver log edits
- Ability to filter log edit reports on portal by consistent codes—not available on other products which show all codes that must be manually scanned
- Easy to use, minimal training required, on-screen documentation to minimize errors and support costs



ThinAir Telematics - ThinAir HOS Differentiators III

- Easy to use administration tools for account, vehicle and driver management
  - 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.
  - The ELD can also produce a data file or a series of data files of ELD records for a subset of its vehicles used by the driver through the 'Select Vehicle' option. Tapping the menu will display the list of vehicles.

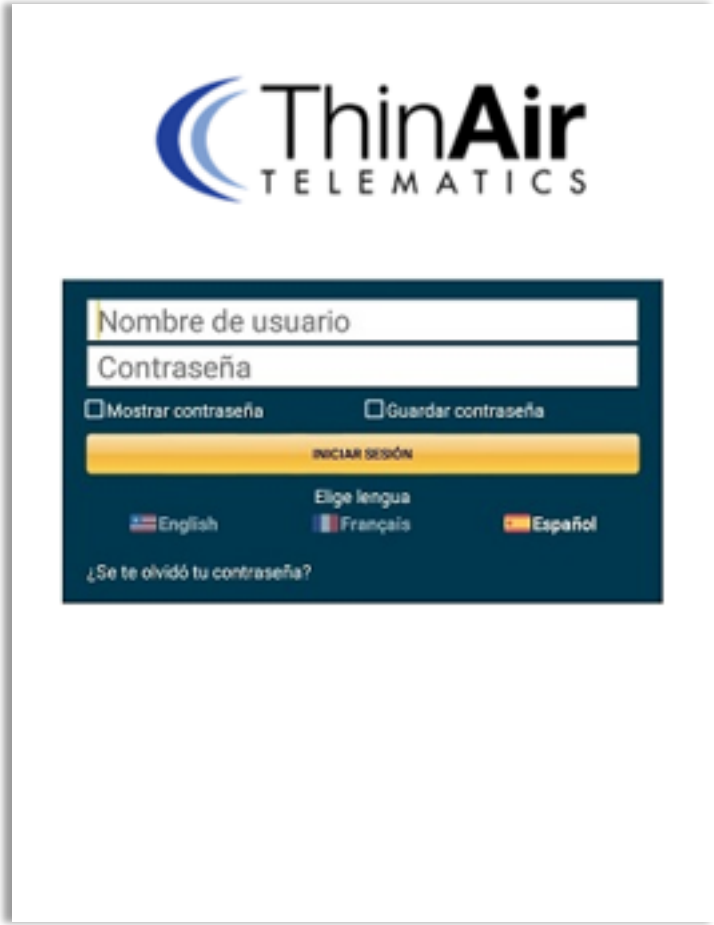
***Note**: Digital AOBRD on-board instructions and ELD data transfer instructions is available within the Roadside Inspection screen. Tap on '**Tap for instructions**' to open.*



ThinAir Telematics - ThinAir HOS Differentiators III

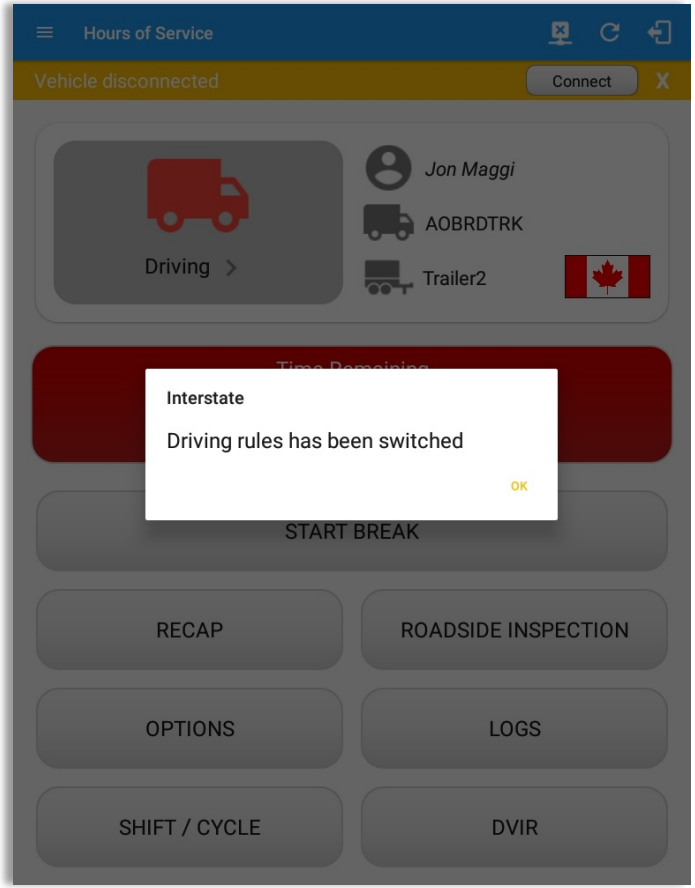
- Supports English, French Canadian and Spanish Language
  - The application supports language translation for English, French-Canadian and Spanish.

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



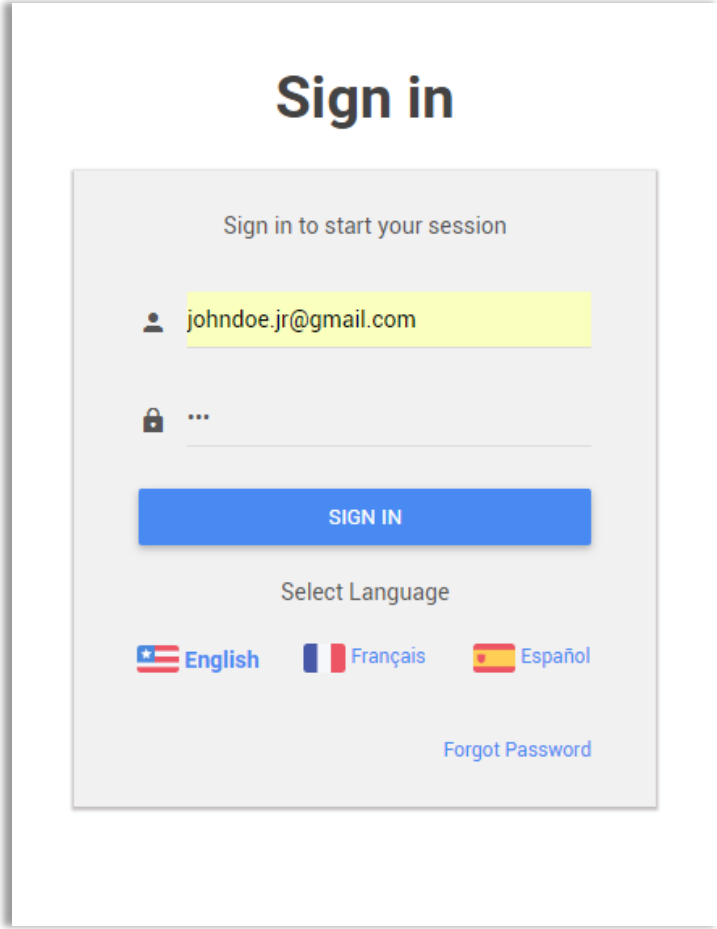
ThinAir Telematics - ThinAir HOS Differentiators III

- Support for both federal, state, Canadian driving rules and exemptions
  - Switching of driving rules from Interstate to Intrastate and vice versa
  - The app also has the ability to perform intrastate checks optionally.



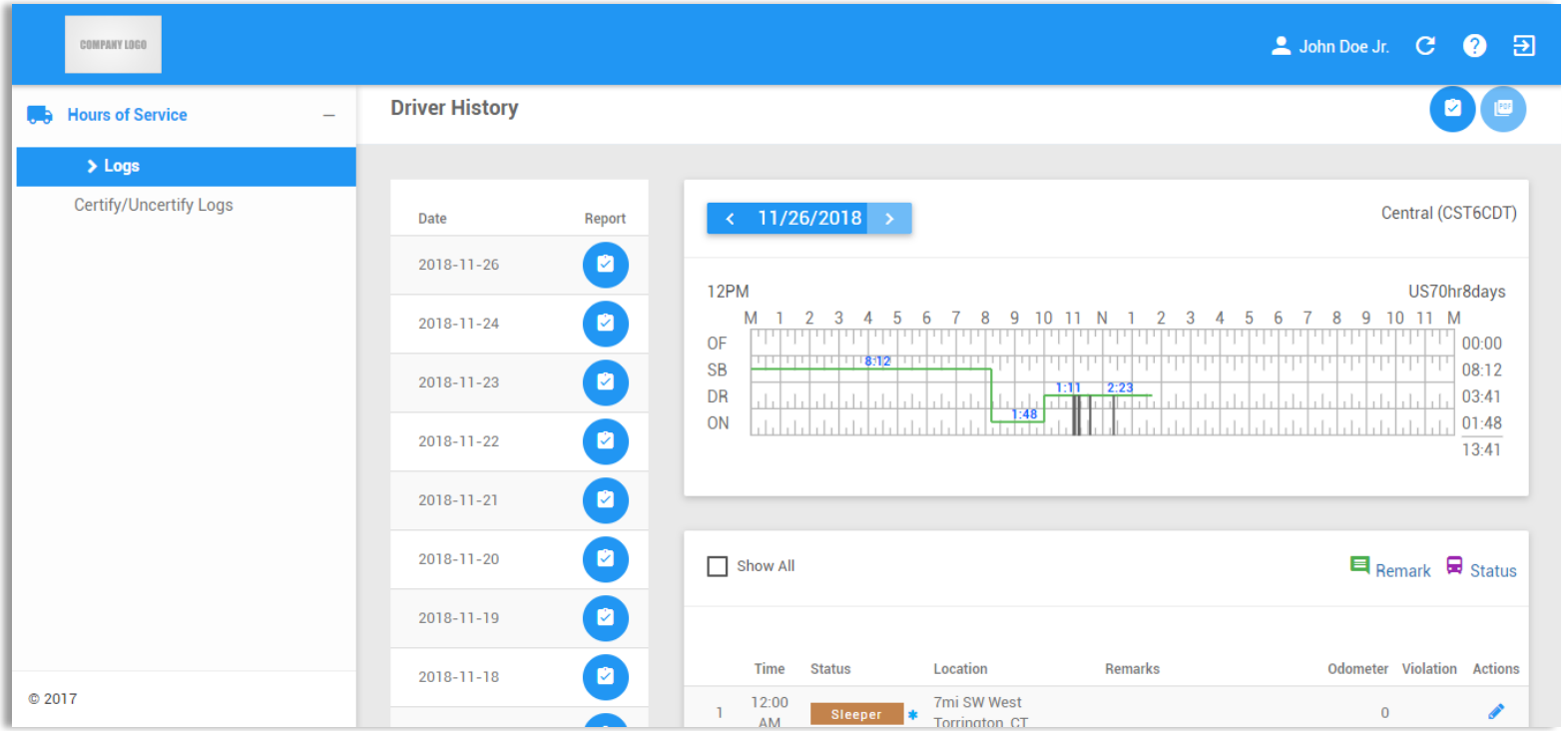
ThinAir Telematics - ThinAir HOS Differentiators III

- Driver Portal Login and Certification
  - Drivers can log into the portal and has the ability to add/edit events from the past up to the data retention period (Example: 6 months, by default) on the drivers' portal **Logs** page
  - Driver can also certify the uncertified logs on the portal on the drivers' portal **Certify / Uncertify Logs** page



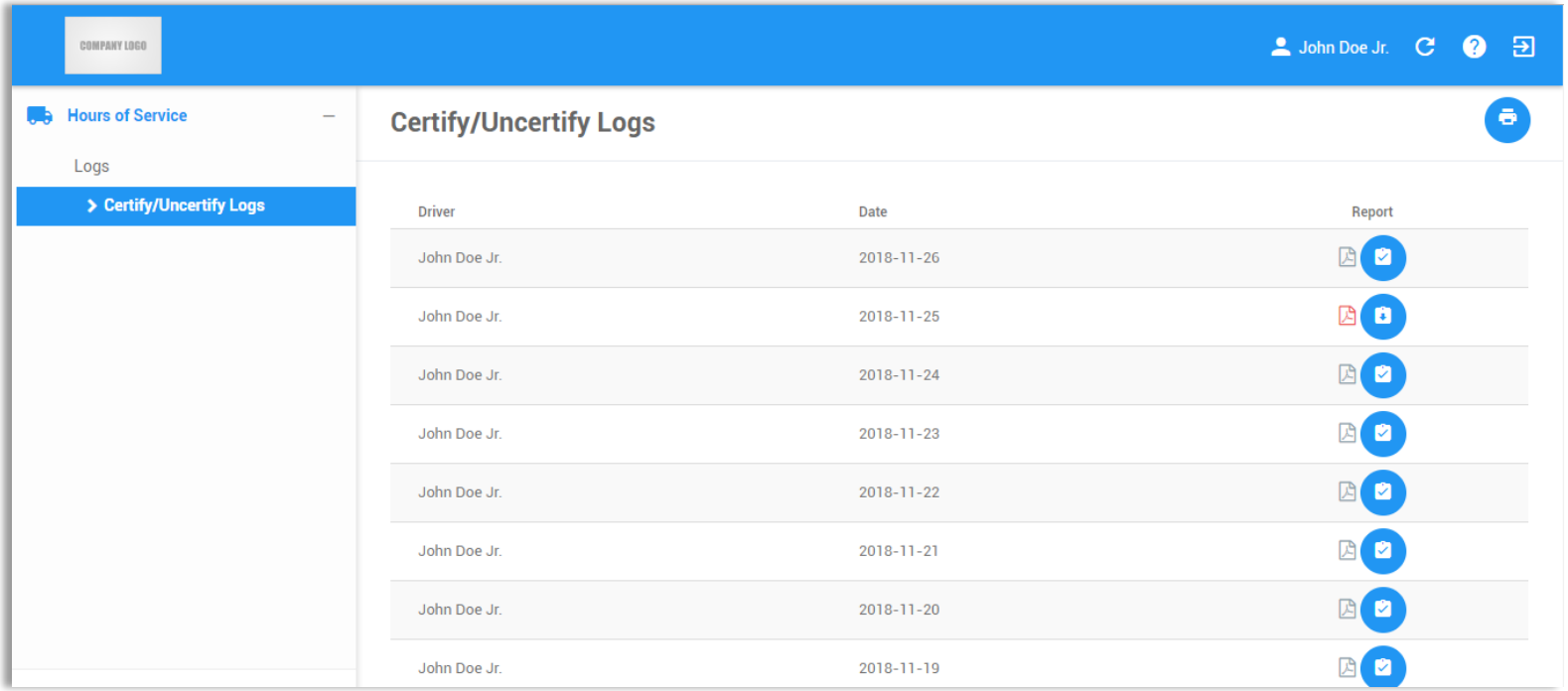
Driver Portal

Logs page



Driver Portal

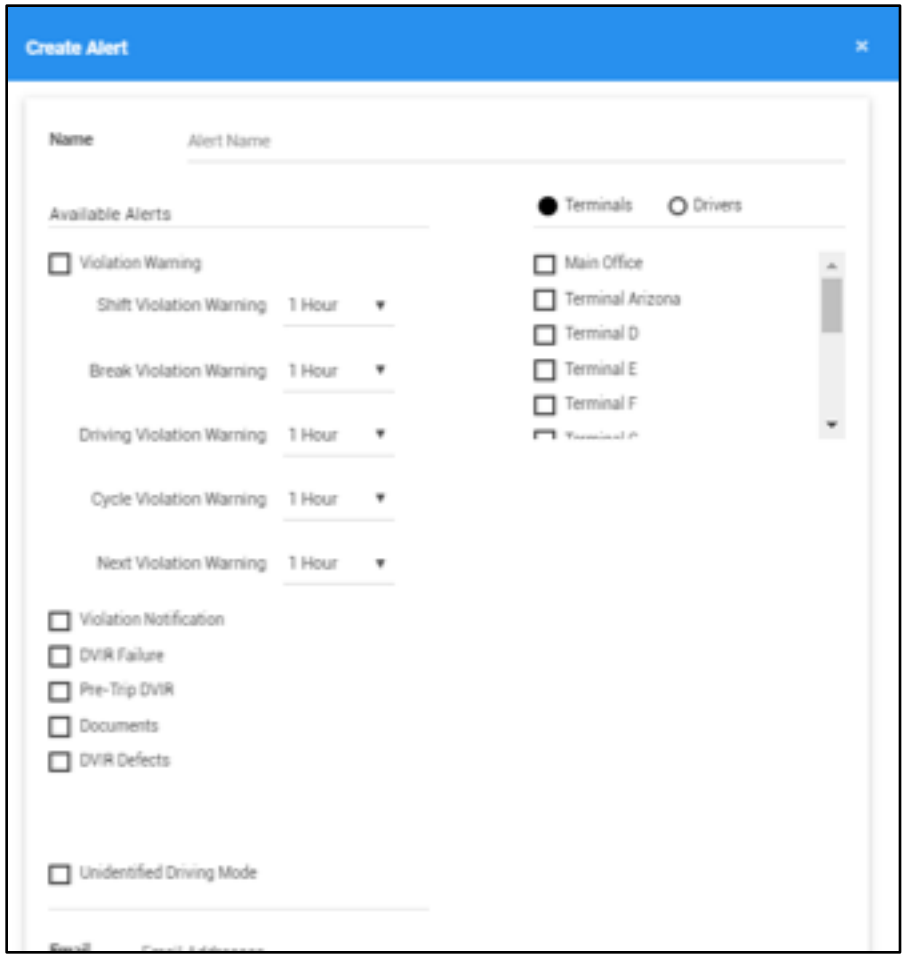
Certify / Uncertify Logs page



ThinAir Telematics - ThinAir HOS Differentiators III

- Alerts

  Alerts are configured notifications to inform the proper personnel when there is an issue they should look into. They can be configured to send an email, an SMS, or both.



ThinAir Telematics - ThinAir HOS Differentiators III

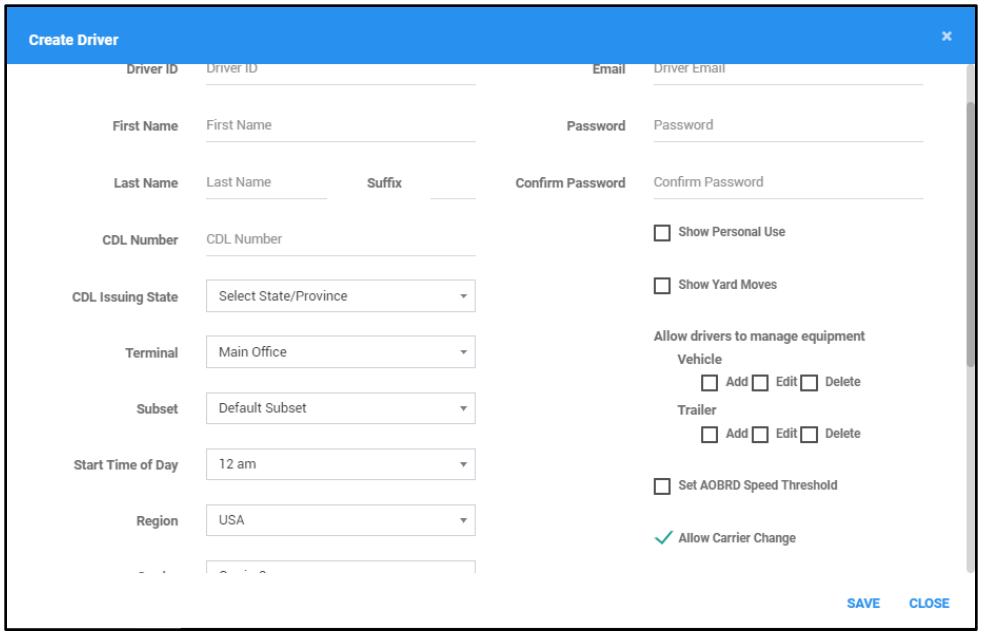
Here are a list of the currently available alerts and a brief description of what they are triggered by:

- **Violation Warning:** A driver is nearing an hours of service violation. Alert notification for violation warnings are trigged when the set threshold for the specific violation warning such as: Shift, Break, Driving, Cycle is reached. (Example: Driving Violation Warning for John Doe Jr. occurred at 11/22/18 09:05 PM Within 1 Hour)
- **Violation Notification**: An hours of service violation has occurred.
- **DVIR Failure**: A DVIR has been marked as unsatisfactory, and the issue must be resolved before the vehicle may be put back into service.
- **Pre-Trip DVIR**: The alert is triggered when a driver has begun driving without performing their Pre-Trip DVIR for vehicle or trailer.
- **Documents**: When a driver uploads a document (could be a fuel receipt, a citation, etc).
- **DVIR Defects**: Triggered when a DVIR finds defects with one or more parts of the equipment. This will trigger even if the condition of the equipment overall is satisfactory.
- (New) **Driver Daily Certification**: When a driver has not certified logs from any previous days, calculated once per day.

ThinAir Telematics - ThinAir HOS Differentiators III

- Managing driver permissions and capabilities

  We offer a flexible system to limit or expand what drivers can do. This allows the fleet to enable their drivers to use more advanced ThinAir Telematics features such as equipment management, or to prevent them from utilizing these features.

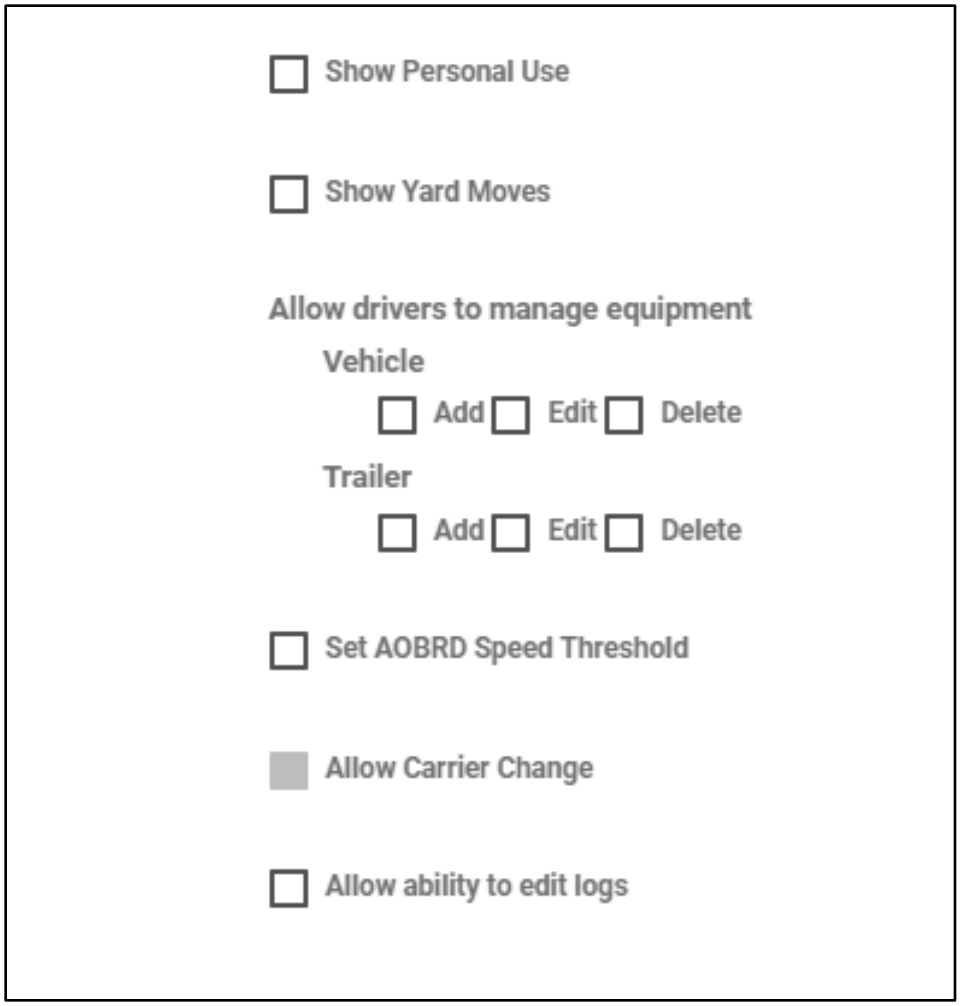


ThinAir Telematics - ThinAir HOS Differentiators III

Example permissions:

- Allow/Disallow drivers to add a Personal Use or Yard Moves event on app.
- Managing the equipment (modifying the ELD configuration of vehicles and creating new equipment), there is an additional control to allow or disallow adding, editing and deleting of equipment by drivers.
- Allow/Disallow drivers to change their carrier, for drivers who drive for more than one fleet or DOT number.
- Allow/Disallow drivers to edit their HOS logs (the logs can still be edited by the office personnel).

Note: *Options will be greyed out in driver level when unchecked or disabled on the Account Settings page.*



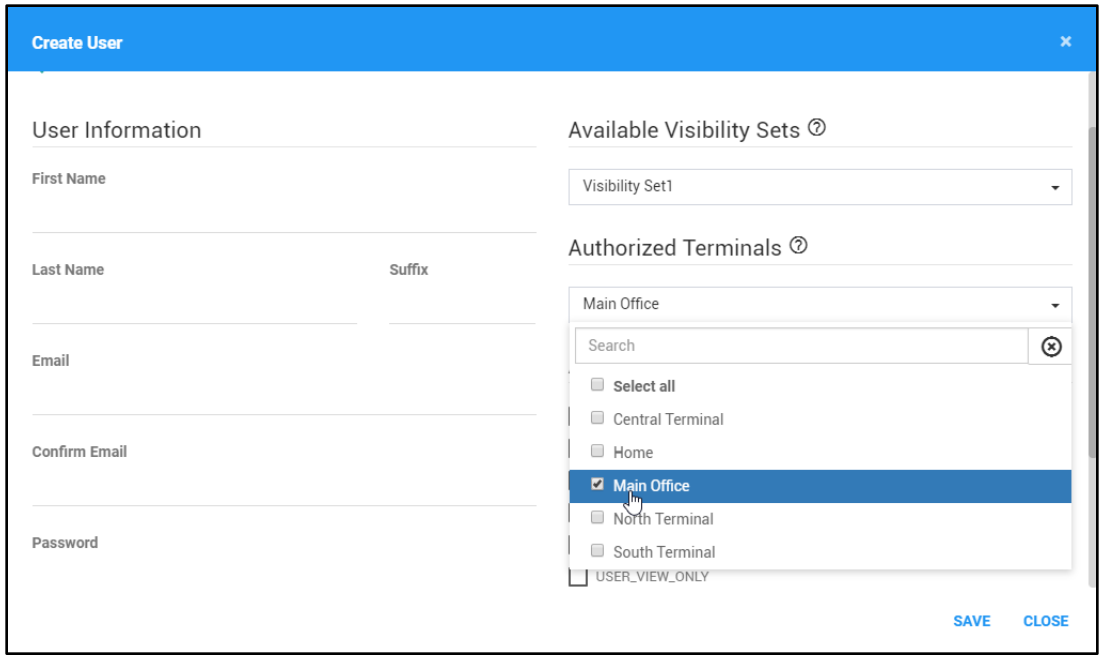
ThinAir Telematics openness to feature requests

ThinAir Telematics is always open to new features to enable your specific needs. Some examples of features that we have done:

- Customer in New England has drivers moving between the US and Canada regularly. They asked ThinAir Telematics to provide feedback to the driver when this border was crossed, so the driver could see at a glance if they were on the correct ruleset. ThinAir Telematics added national flags to the main dashboard and lock screens that show what ruleset the driver is currently running. When this flag is tapped, a dialog opens allowing the user to change their country and state ruleset and cycle.
- Customer requested an easy way to for the fleet managers to see what drive time their drivers would have the next day, to enable easy scheduling. ThinAir Telematics added a driver recap, so the fleet manager can navigate to the driver's logs, and open the recap showing the drivers hours for the last two weeks, as well as the time that they will have available the next day.

Easy fleet organization using Terminals

ThinAir Telematics provides a fleet management system using terminals. A fleet can assign drivers, vehicles, and fleet managers to one or more terminals. The Fleet Manager can see and manage only the assets (drivers and vehicles) within their assigned terminal(s). Drivers may also see only the vehicles within their terminal. This allows fleets to break up their assets into more manageable chunks, as well as simplifying driver management for the fleet managers and equipment selection for the drivers (providing them a limited subset of the total fleet to choose from)



ThinAir Telematics - ThinAir HOS Solution Architecture

Supported Hardware:

- ATBS_Interpreter
- ATrack AX11 OBDII
- ATrack AX7B OBDII
- ATrackAU7 J1939/J1708
- ATrackAX7 OBD2
- ATrackAX9 J1939
- ATrackAX9 OBD2
- Astus TAG
- Atlas
- Azuga
- CalAmp 4230 Bluetooth
- CalAmp 4230 Bluetooth LE
- CalAmp 4230 Hardwired
- CalAmp MDT7 Tablet
- CalAmp V-Series
- Digi WVA
- ELM325 (BAFX,…) (J1708)
- ELM327 (BAFX,…) (J1939)
- ELM327 (BAFX,…) (OBDII)
- GenX 6
- Geometris
- Geotab
- IOSiX
- MGNOBD
- MGNOBDBA
- PacificTrack
- ROVR dT9 J1939
- ROVR dT9 OBD2
- Xirgo XT6360

Heavy Vehicle With J1939 Light Duty Vehicle With OBD II

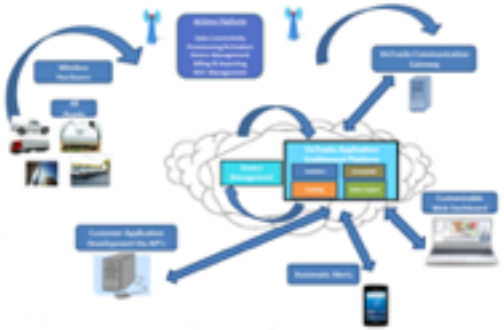
J1939 Canbus, OBD II

Sample Hardware Pictures

Bluetooth, WIFI Direct, Hardwired connect
(log driver status veracity, optional engine data)

Android Tablet
iOS iPad

ThinAir HOS Cloud (Gold Version)

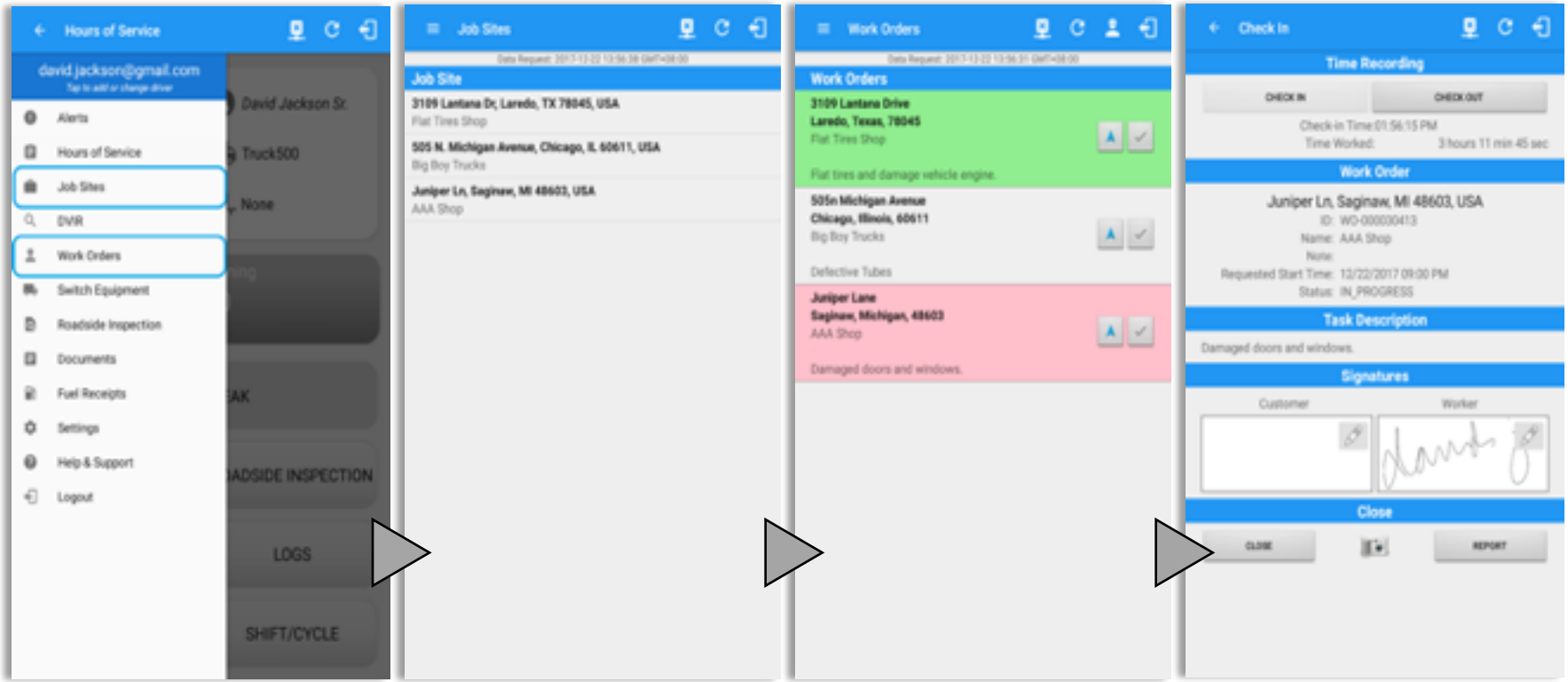


3G or LTE Connection (WiFi for non-real time)

ThinAir TELEMATICS

ADDED SERVICES

ThinAir Telematics Mobile Worker

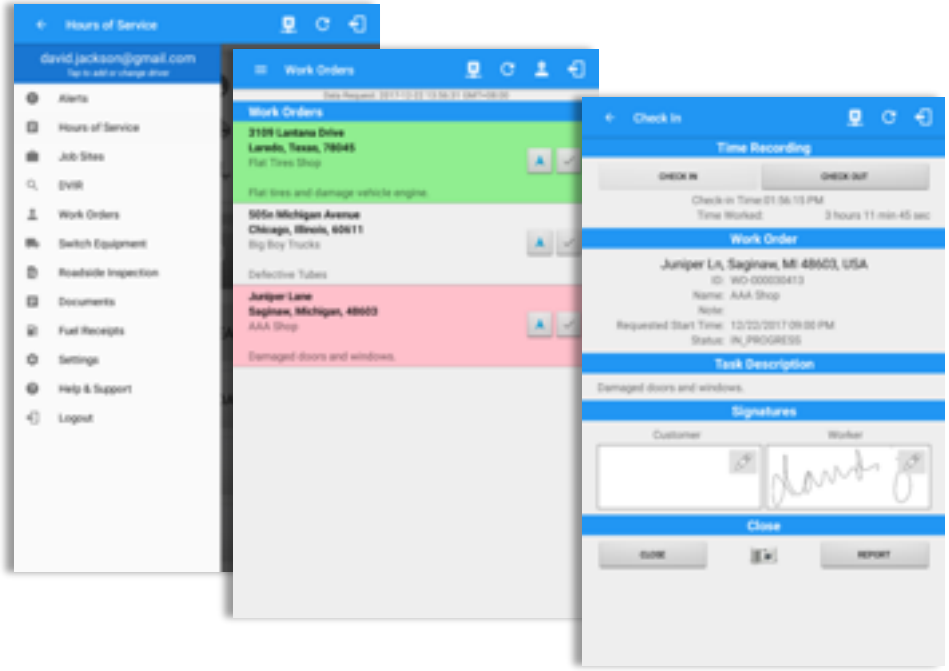


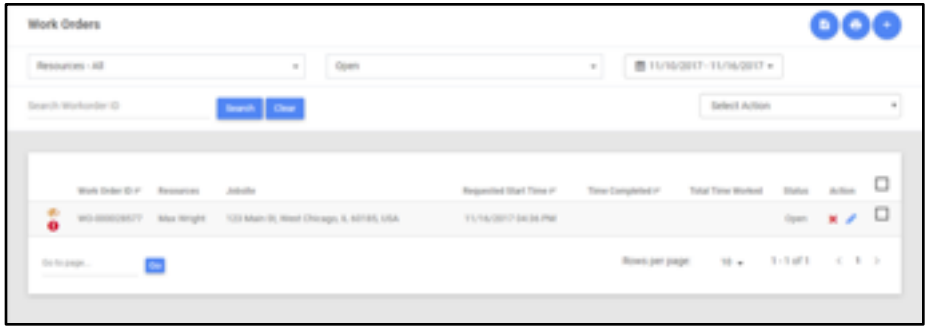
Mobile Worker Reporting

(Job Sites, Work Orders, Completion Reports)

ThinAir Telematics Mobile Worker Option Key Features

- Portal
  - Create new work orders and job sites
  - View work order status
- Report
  - Work order completion report to selected email address
- Android Phone/Tablet app or iOS iPhone/iPad app
  - Part of ThinAir HOS Menu
  - Ability to view pending workers and job sites
  - Ability to set the clock running on a work order, stop when done, write/speak a report, take pictures, capture signatures, email upline





ThinAir TELEMATICS

THANK YOU

Questions ?