

USER GUIDE OF

SHIELD

Simple • Handy • Intelligent



Version 1.0

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Install the ECM scanner to your vehicle

Find the ECM port on your bus. There are four (4) common types of port used in bus industry by various manufactures:

J1708 (6 pins)



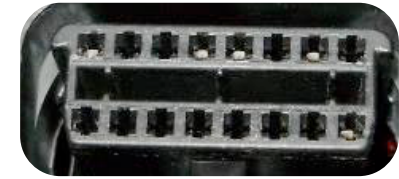
J1939 (9 pin)



J1939 Type B (9 pin in green)



OBDII



The ECM port is generally located in one of four places:

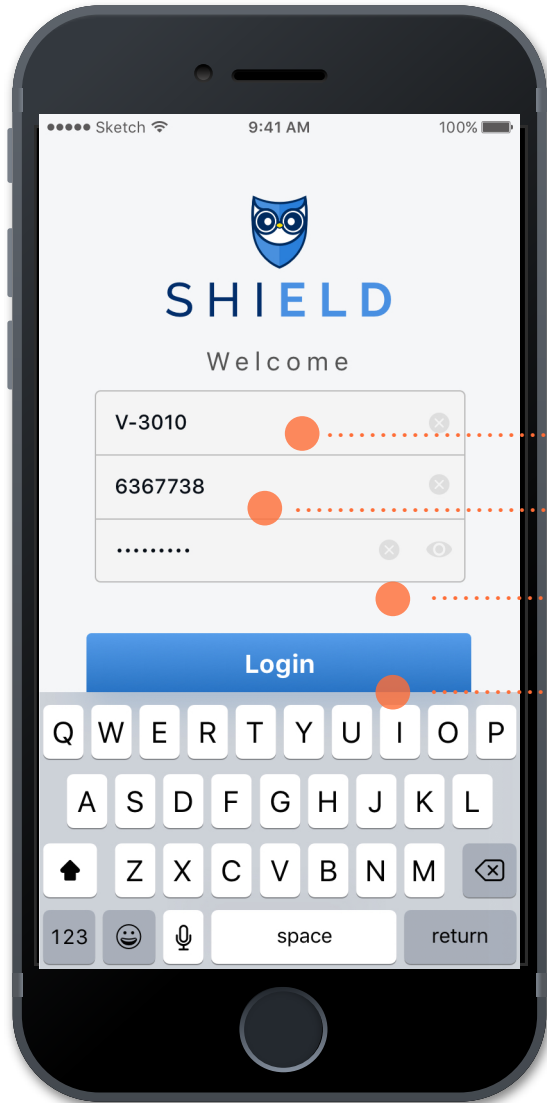
- (A) Left side behind the driver seat.
- (B) Underneath the left side of dashboard.
- (C) Inside the glove compartment on the bottom right corner.
- (D) Behind the dashboard next to the door entrance.

DOWNLOAD THE SHIELD APP FOR YOUR ANDROID OR IOS DEVICES



Search for "SHIELD" in the Google play store or the iOS App Store
Download and **Install** the free SHIELD app for your devices

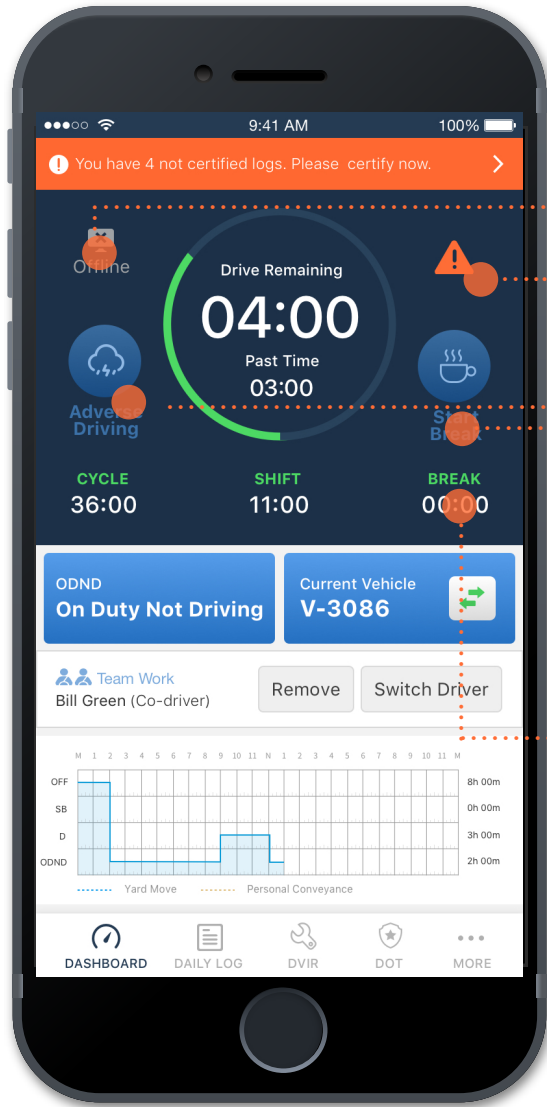




Open the SHIELD app on your device's home screen.

Find the ECM port on your bus. There are four (4) common types of port used in bus industry by various manufactures:
J1708 (6 pins), J1939 (9 pin), J1939 Type B (9 pin in green), and OBDII.

- ① Enter your Carrier's DOT #
- ② Enter your assigned driver ID from your carrier
- ③ Enter your account password
- ④ Once all fields are filled correctly, the Login button will become clickable. Click Login to log into your account.



Overview of Dashboard

- ① Offline icon appears when your device lost network connection
- ② Malfunction icon appears when there are any malfunctions detected. Click the icon to see the malfunction details.
- ③ Clicking Adverse Driving changes status to adverse-condition driving.
- ④ By clicking Start Break to start a break as off-duty status.
- ⑤ Show the accumulated on-duty hours within a cycle, within a shift, and accumulated off-duty hours for 8 consecutive off duty period.



Overview of Dashboard

- ⑦ Click Current Status bar to change duty status
- ⑧ Click Current Vehicle bar to select driving vehicle
- ⑨ Shows the co-driver's name if there is any
- ⑩ Show the driver's hours service's grid view
- ⑪ Main Menu bar to access to more operations

①

Click the Vehicle Select bar to go to the Select Vehicle page.



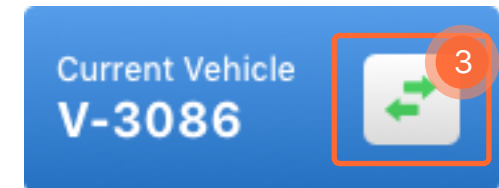
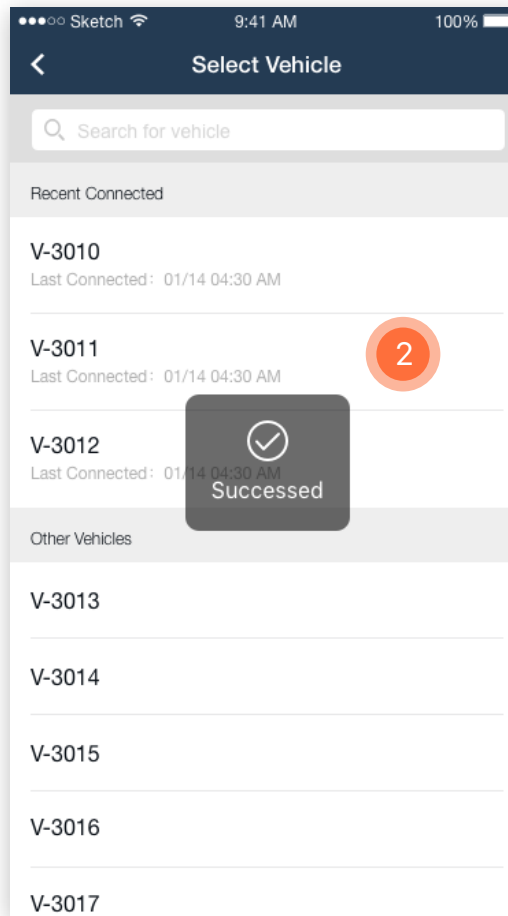
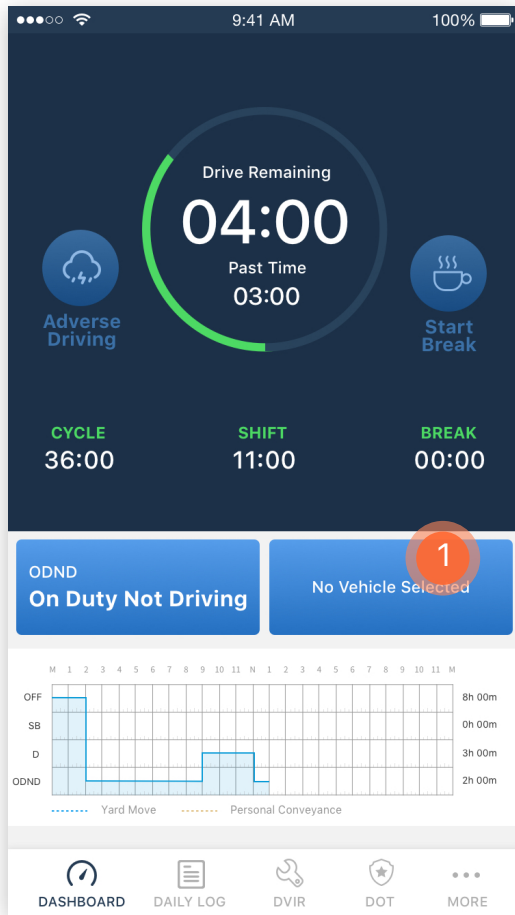
②

From the list of vehicles to select your driving vehicle to make the connection to the ECM scanner.



③

The two-way connection icon will be shown if the connection is successful.



Notes: A vehicle does not have to be picked if the driver is conducting on-duty not driving work, such as reviewing logs, editing logs, certifying past logs, etc.

①

Unidentified driver logs, if any are under the selected vehicle, will appear as a prompt to the driver as soon as the connection succeeds.



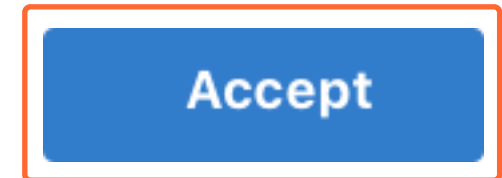
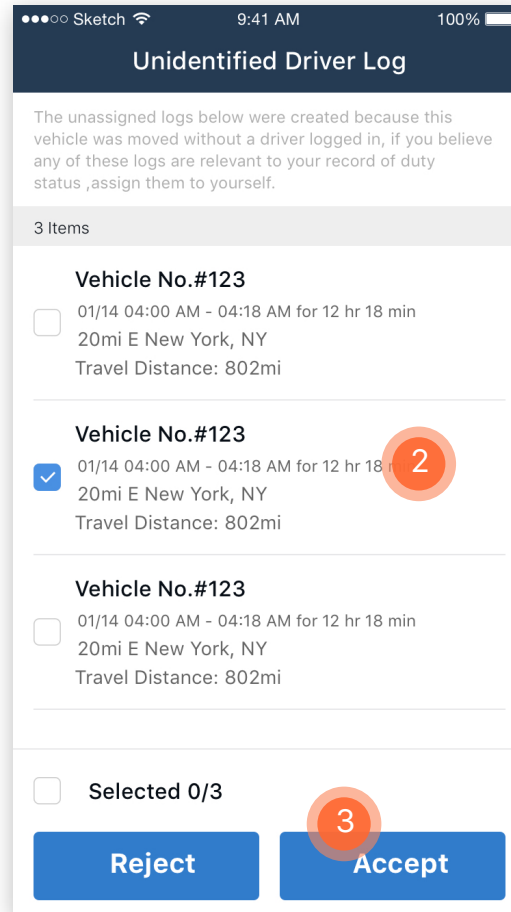
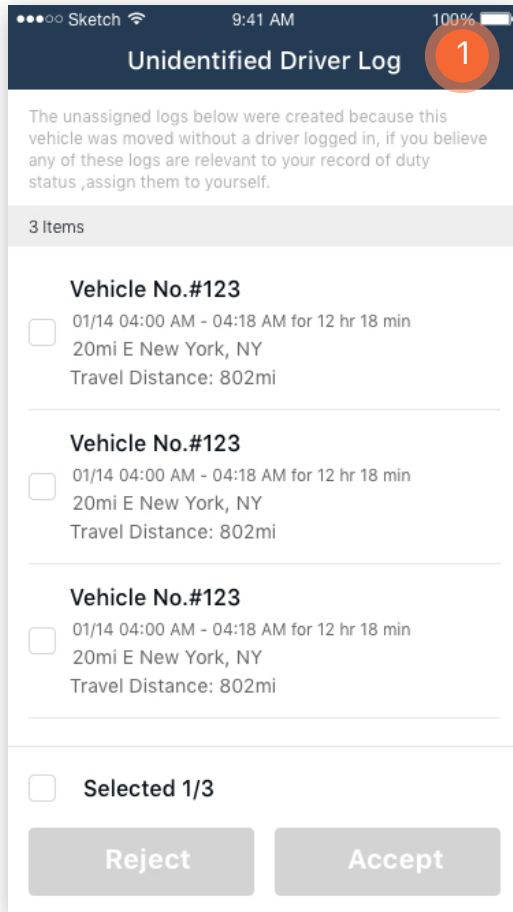
②

Check the records that you want to assume.



③

Click Accept to assume the records.



Notes: Only after you review all records and choose to either reject or accept the logs, you can move on to your other work.

④

Select the rest of them to reject the records that do not belong to you.



⑤

Click any of the records to see more details to help you make decision.



Reject

Notes: Only after you review all records and choose to either reject or accept the logs, you can move on to your other work.

Unidentified Driver Log

3 Items

Vehicle No.#123
01/14 04:00 AM - 04:18 AM for 12 hr 18 min
 20mi E New York, NY
Travel Distance: 802mi

Vehicle No.#123
01/14 04:00 AM - 04:18 AM for 12 hr 18 min
 20mi E New York, NY
Travel Distance: 802mi

Vehicle No.#123
01/14 04:00 AM - 04:18 AM for 12 hr 18 min
 20mi E New York, NY
Travel Distance: 802mi

Vehicle No.#123
01/14 04:00 AM - 04:18 AM for 12 hr 18 min
 20mi E New York, NY
Travel Distance: 802mi

Selected 7/7

Reject Accept

Detail

Time
01/14 04:00 AM - 04:18 AM

Duration
18min

Start-End Odometer (mi)
14367-23466 (9099)

Start-End Eng Hour (h)
145-234 (34)

Start Location
20mi E New York, NY

End Location
32mi W New York, NY

Reject Accept

①

Click the Current Status bar to go to the Change Duty Status page



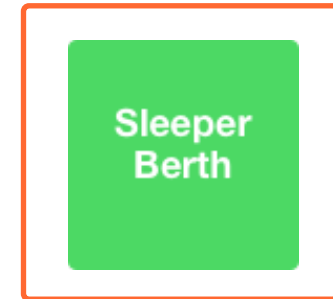
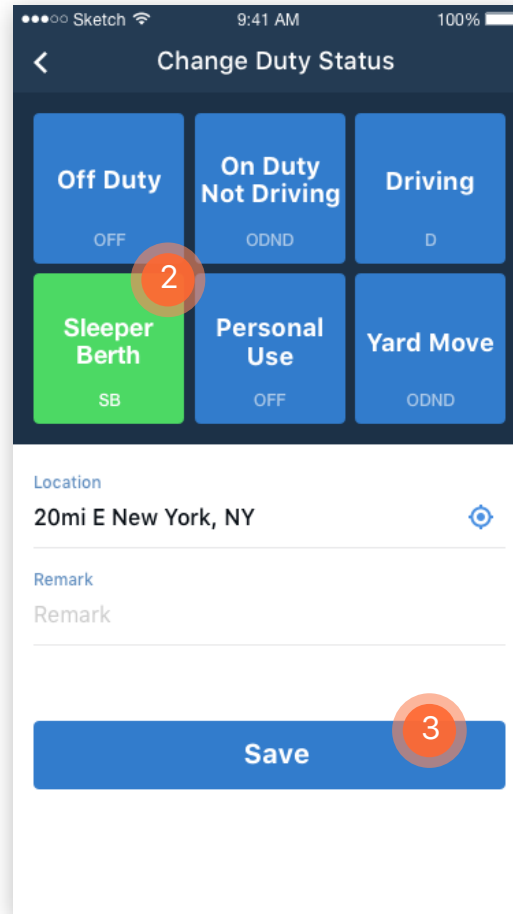
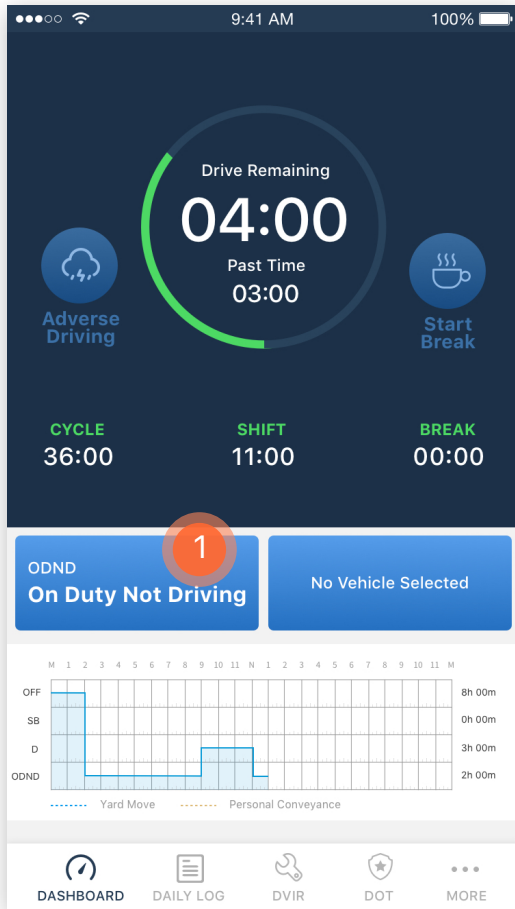
②

Click the duty status that you want to change to. The location info will automatically be retrieved by the GPS system.



③

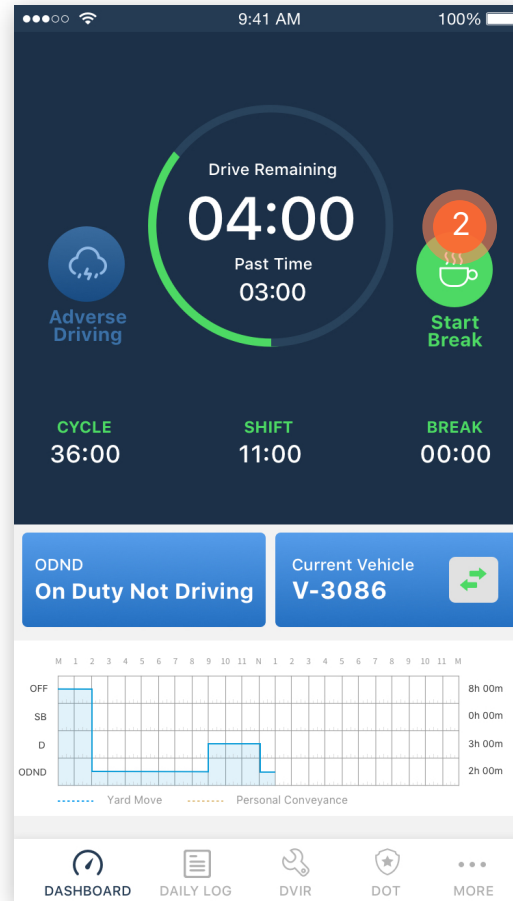
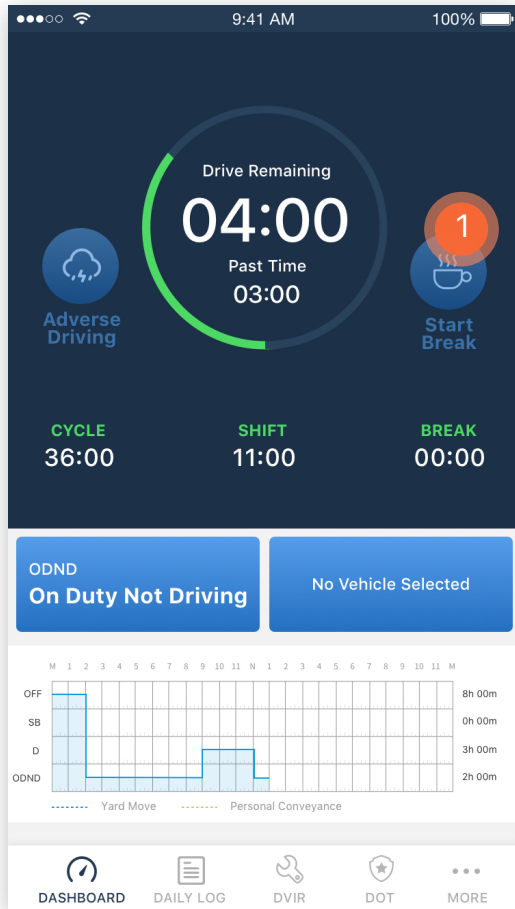
Click save to finish the duty status change.



For driver's convenience, there is a Start Break button on the dashboard for driver to enable a quick off-duty status change within a shift by one click.

①

Click Start Break to start being off-duty within a shift.



②

The duty status will be auto changed to off-duty and Start Break button will change to be Green and shown as Stop Break. Click once more to go back to On-Duty Not Driving status.

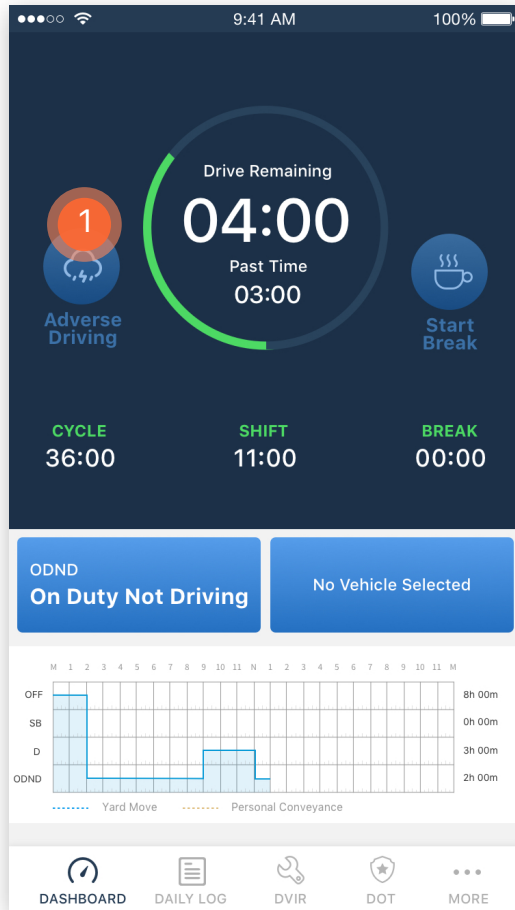


2.0 DASHBOARD | START ADVERSE DRIVING

Under any unpredictable adverse conditions that may affect the driver's driving, the driver can click the Adverse Driving button to extend his max driving time up to 2 hours.

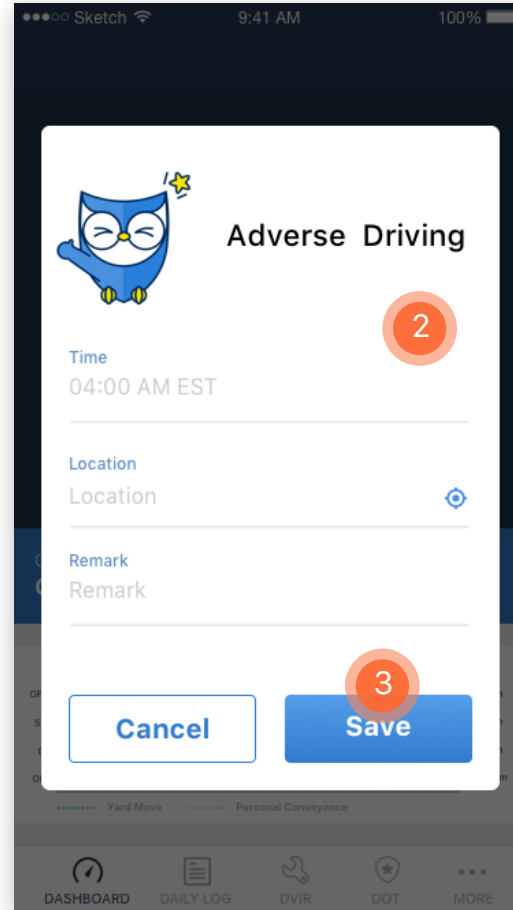
①

Click Adverse Driving button on the dashboard.



②

Time and Location info is auto created by system. Input the reason for adverse driving under remark, such as adverse traffic, big snow storm, etc.



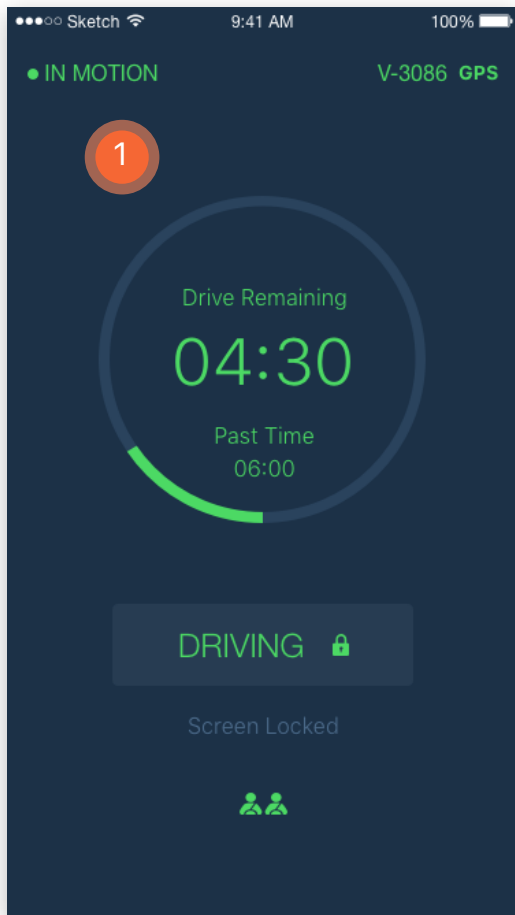
③

Click Save to start adverse driving. Click once more to cancel adverse driving.



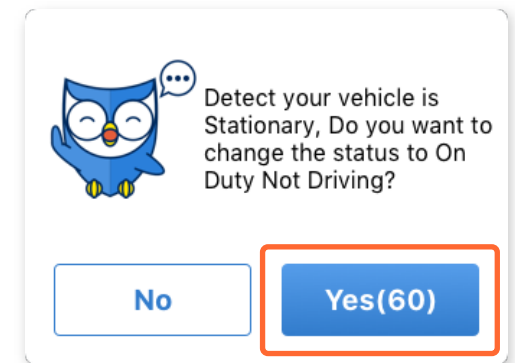
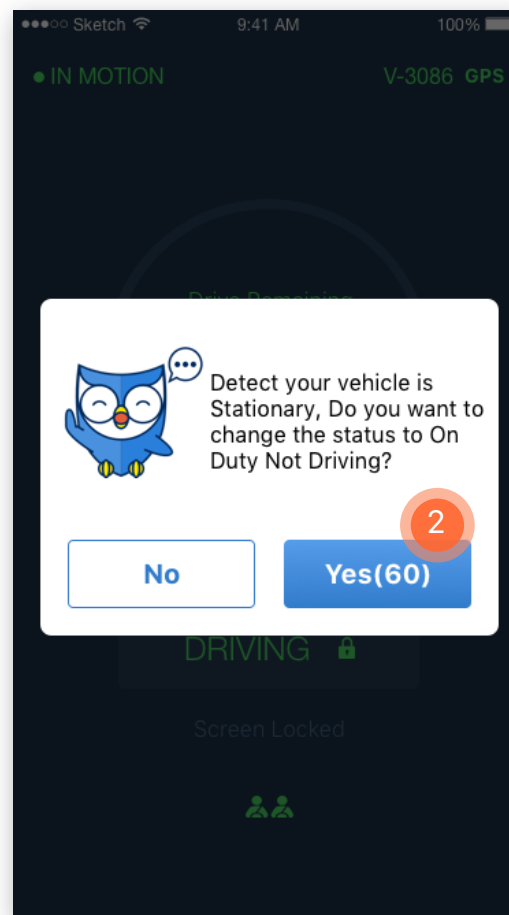
①

Once the vehicle has speed above 5mph, the status will be auto changed to driving status, and the screen will be locked to any access by driver.



②

When the vehicle has been stationary for 5 consecutive min, and driver has not responded to the system prompt within 60 seconds, the status will be auto changed to ON-Duty Not Driving.



3.0 DAILY LOG | VIEW THE DRIVER'S DAILY LOG

①

Click DAILY LOG on the main menu to see the past 14 days of the driver's daily logs list.



②

Click on any date to see the detail of the driver's daily log for selected date.



③

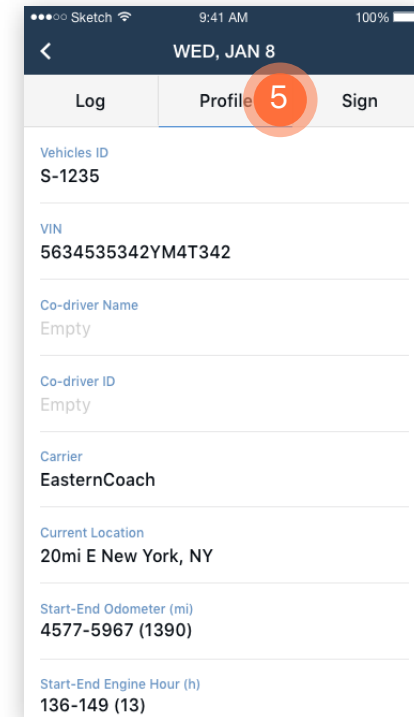
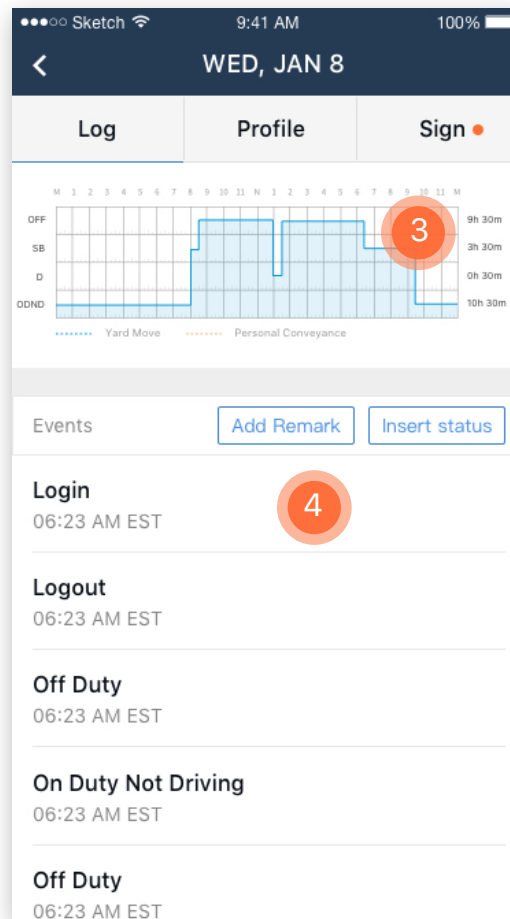
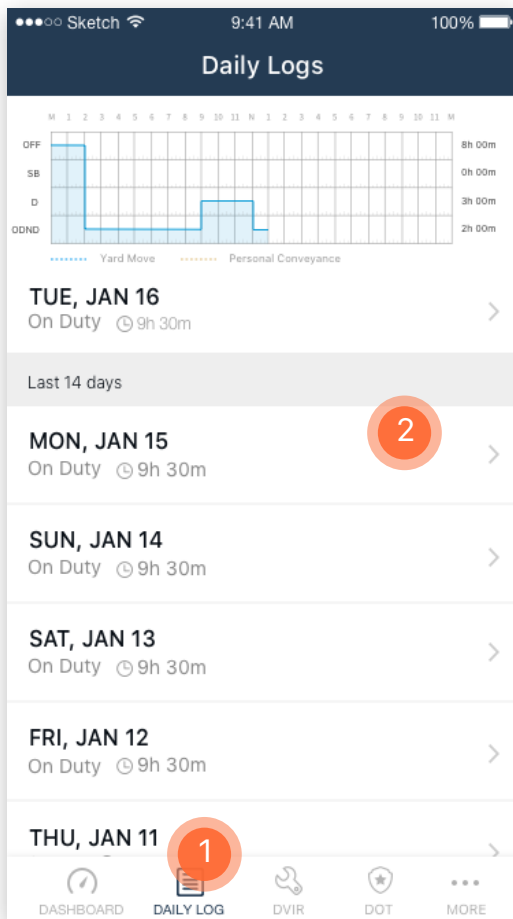
Present a graph-grid of the driver's daily duty status changes.

④

Show log events list, such as login, logout, any status changes events, etc.

⑤

Click Profile to show the driver's profile and trip info such as daily travel distance and more.



3.0 DAILY LOG | CERTIFY THE LOG

①

There is a red dot next to the Sign if the daily log has not been certified yet. Click Sign to go to the signature page.



②

Use your finger to sign the name on the signature area.

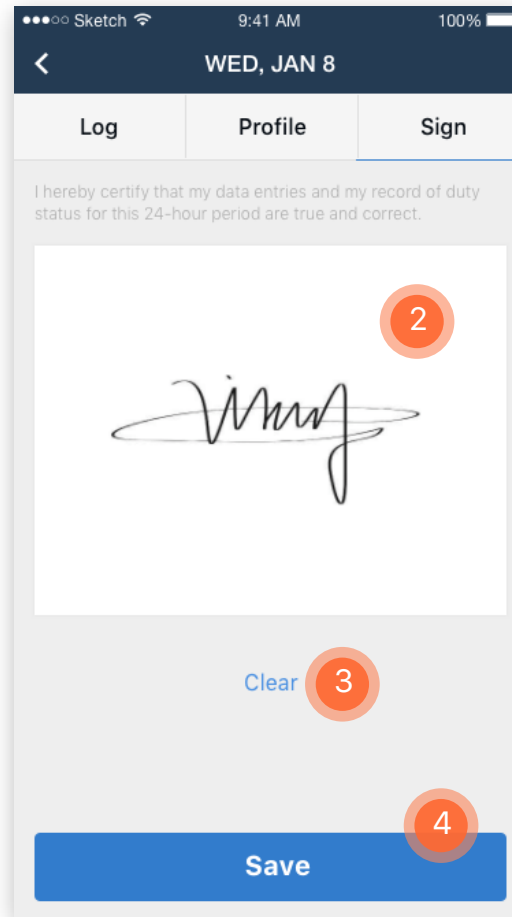
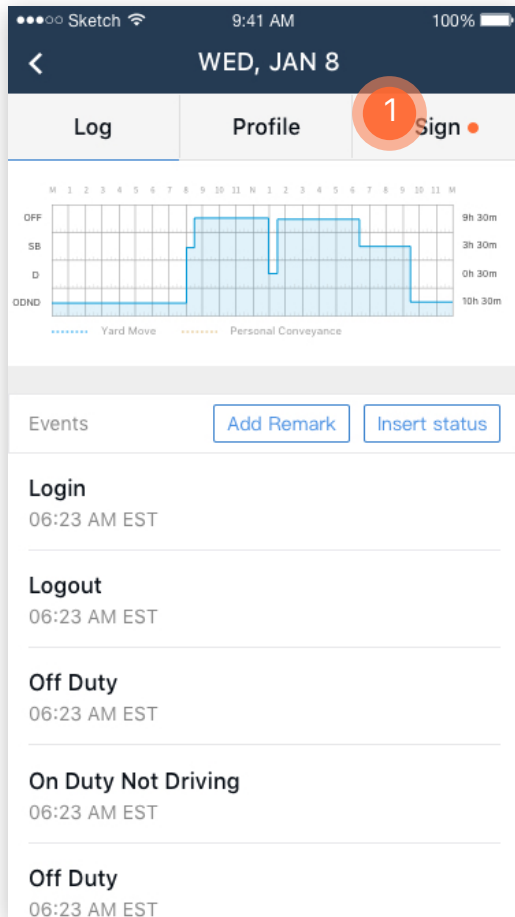


③

Click Clear if you want to re-sign the signature.

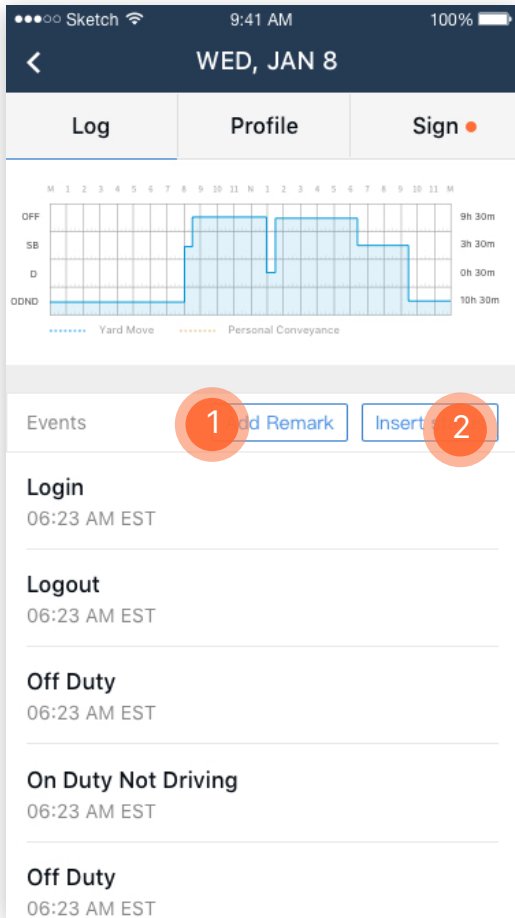
④

Click Save to certify.



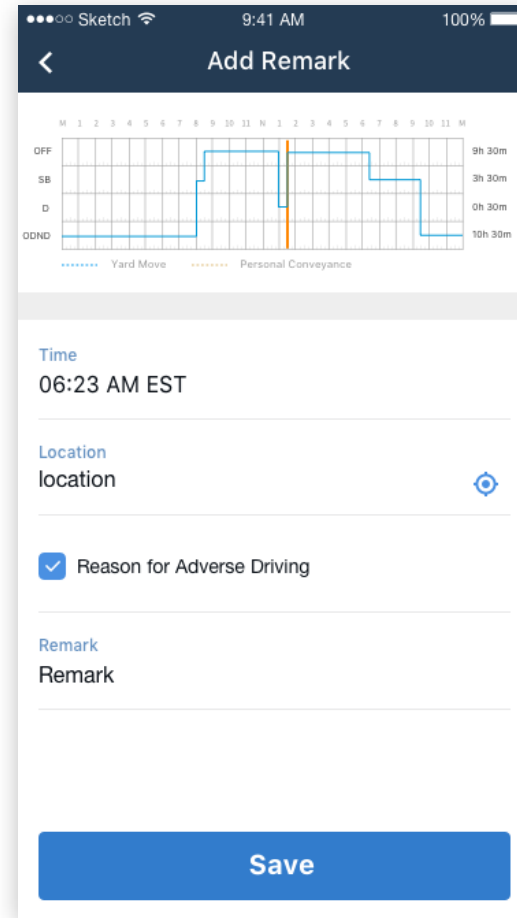
①

Click Add Remark to add in any additional annotations if needed.



②

Click Insert Status to insert any missing duty status changes.



③

Select the status change time.



④

Select the proposed duty status, and fill in any missing info such as location, Vehicle ID, etc.



Insert Status

Start Time: 06:23 AM EST

End Time: 06:23 AM

Duration: 2h 20min

OFF, ODND, D, SB

Location: 20mi E New York, NY

Vehicles ID: M 2212

Save

WED, JAN 8

Log Profile Sign

15h shift limit. 10h driving limit. 70h cycle limit.

Events: Add Remark, Insert status

Login: 06:23 AM EST

Logout: 06:23 AM EST

Add Rmark: 06:23 AM EST

On Duty Not Driving: 06:23 AM EST

Off Duty

⑤

Click Save to finish editing.

⑥

Tap on the existing event to open the options of Edit log or view Detail.

3.0 DAILY LOG | CARRIER PROPOSED EDIT FOR DRIVER LOG

①

The edit can also be made by motor carrier. The driver will get an alter notification when he/she login to the account.



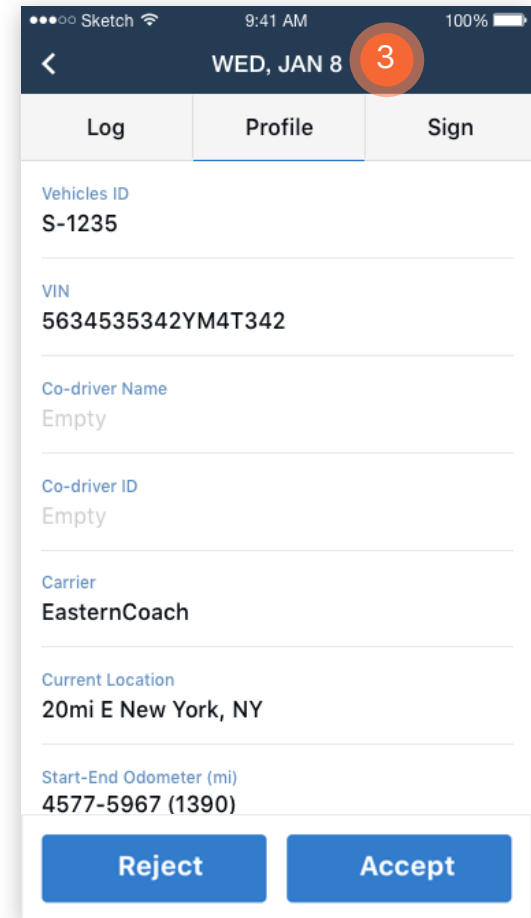
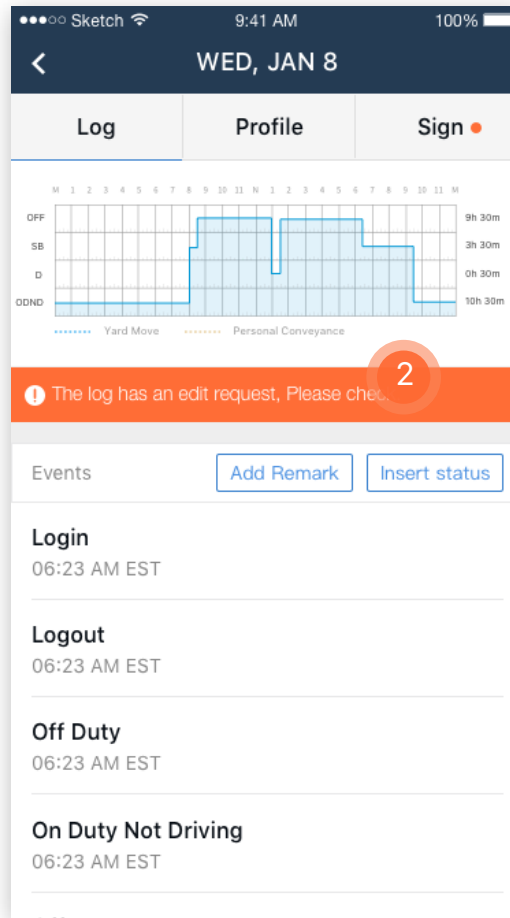
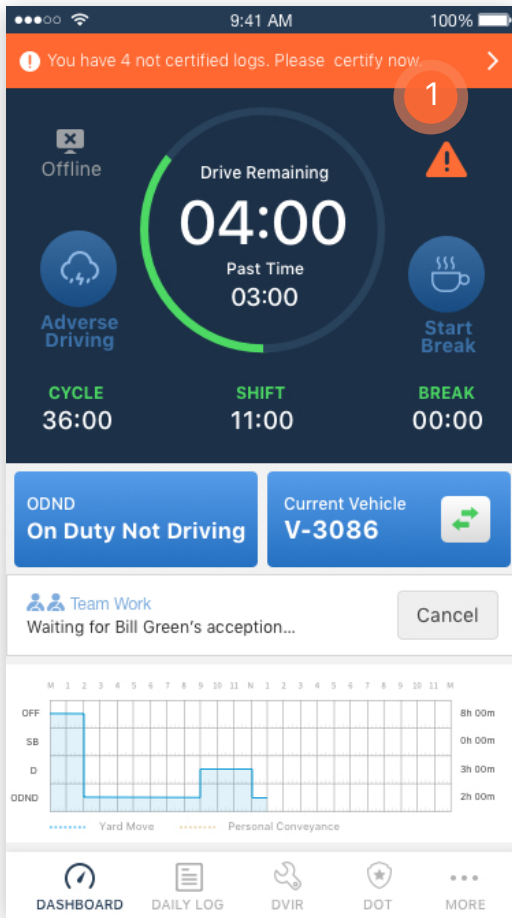
②

Click the alert to see the Edit Detail.



③

Click Reject or Accept to confirm or reject any proposed change.



Notes: Recertifying the daily log is required after implementing any appropriate edits.

4.0 DVIR (DRIVER VEHICLE INSPECTION REPORT) | START A NEW DVIR

①

When driver start a new driving trip, by changing his duty status from Off-Duty to On-Duty, the system will propose he/she do a pre-trip DVIR.



②

Click Start pre-trip inspection to start an inspection.



③

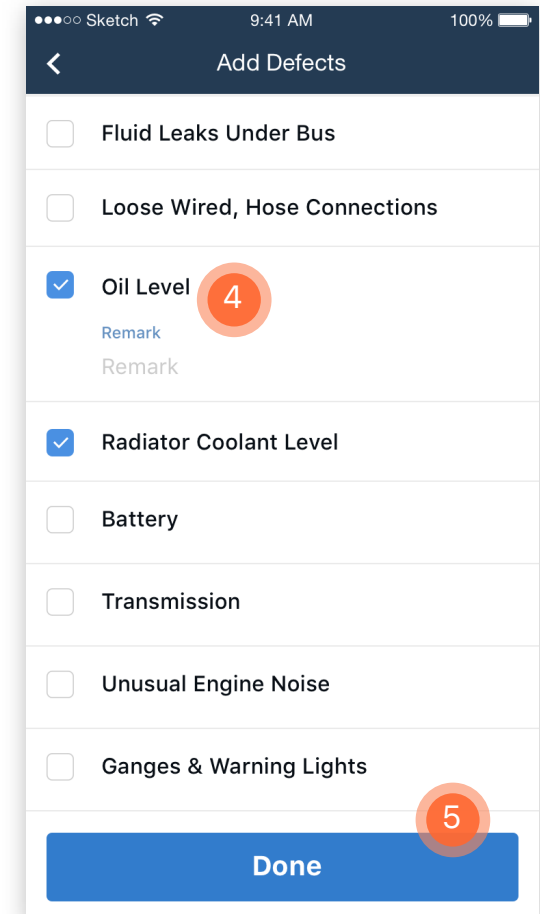
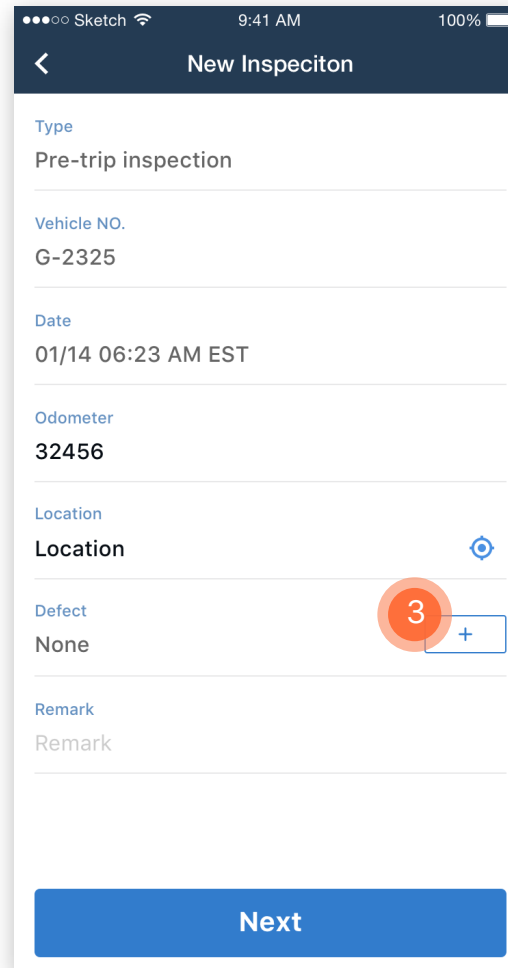
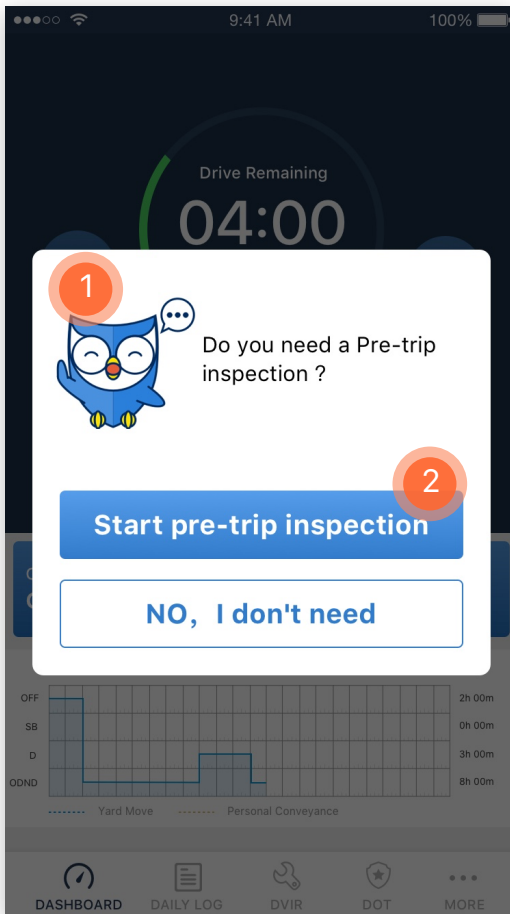
In the New Inspection page, click plus sign to add in any defects if applicable.

④

Check any defective parts.

⑤

Click Done to finish adding the defects.



⑥

After adding the defects, click Next to go to Confirmation page.



⑦

Check the suitable conclusion description for the bus's condition.



⑨

Click Save to finish the inspection.

⑧

Sign your name.

⑩

Driver can always start a new Pre-trip, Int-trip, or Post-trip inspection by click DVIR in the menu bar.

The screenshot shows the 'New Inspection' form with the following fields: Type (Pre-trip inspection), Vehicle NO. (G-2325), Date (01/14 06:23 AM EST), Odometer (32456), Location (Location), Defects (Oil Level Too Low, Radiator Coolant Level), and Remark. A blue 'Next' button is at the bottom right, marked with a red circle containing the number 6.

The screenshot shows the 'Confirmation' form with two radio button options: 'Vehicle is safe to drive' (selected) and 'Vehicle is not safe to drive'. Below is a 'Signature' field with a handwritten signature and a 'Clear' button. A blue 'Save' button is at the bottom, marked with a red circle containing the number 9. A red circle with the number 7 is next to the 'Vehicle is safe to drive' option, and a red circle with the number 8 is next to the signature field.

The screenshot shows the 'DVIR' menu with the following sections: 'Start a New Inspection' with buttons for 'Pre-trip', 'Interim', and 'Post-trip'; and 'DVIR History' with a 'View History' button. A red circle with the number 10 is next to the 'View History' button. The bottom navigation bar includes icons for Dashboard, Daily Log, DVIR, DOT, and More.

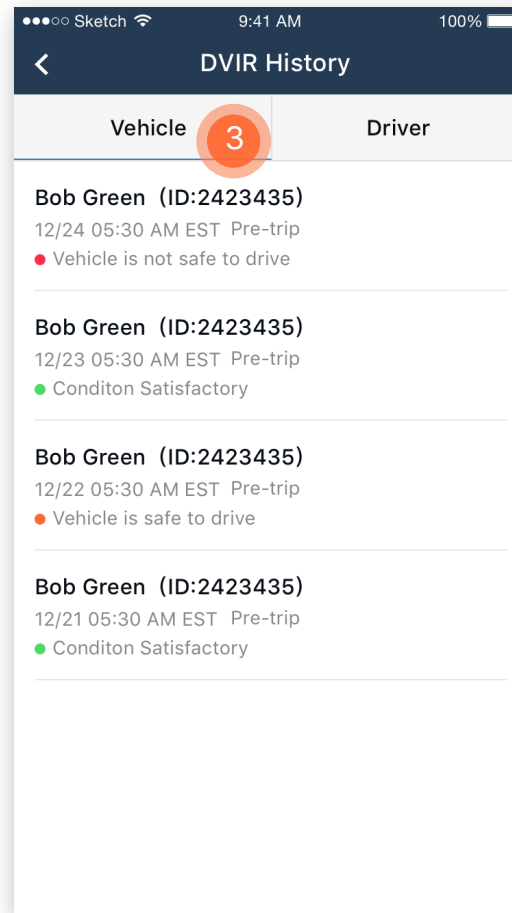
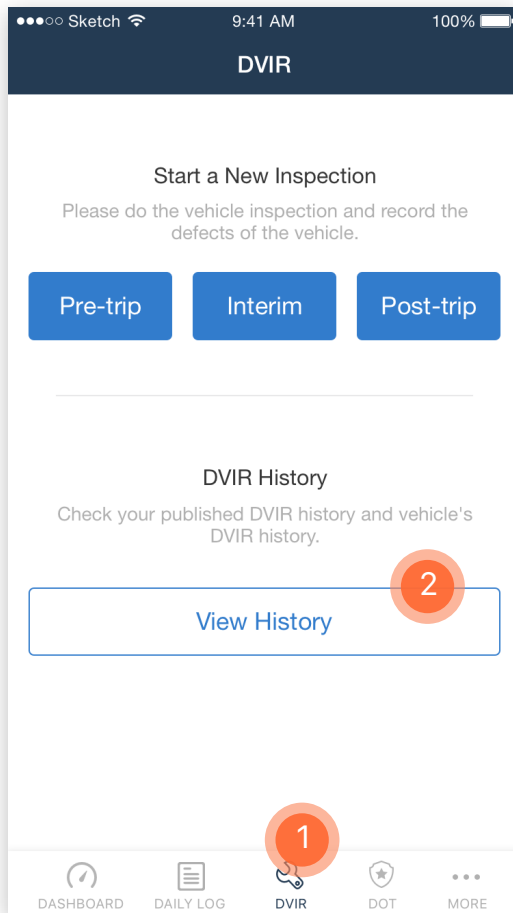
Notes: When driver finish his/her driving trip, by changing duty status to be off-duty, the system will propose him/her to do a post-trip inspection.

①

Click DVIR on the menu bar

②

Click View History to go to the DVIR History page.



③

Click Vehicle to see the last 14 days' inspections history for current selected vehicle.

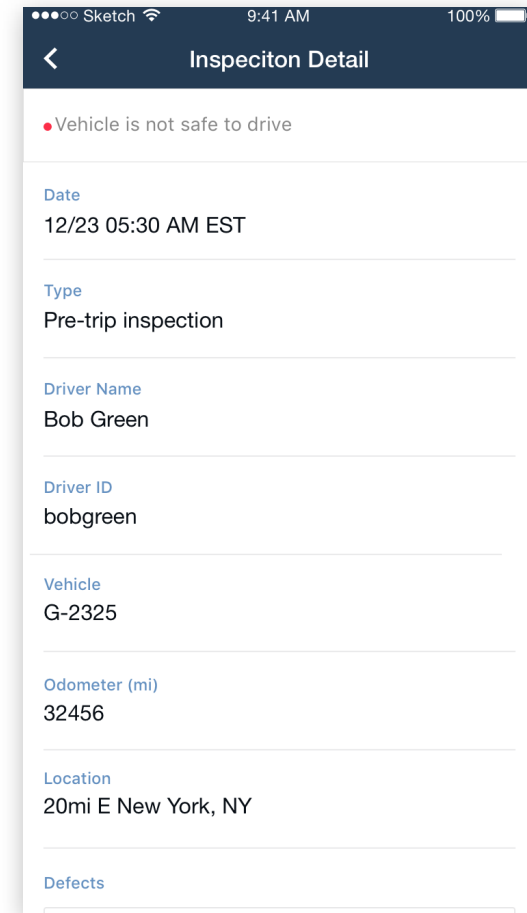
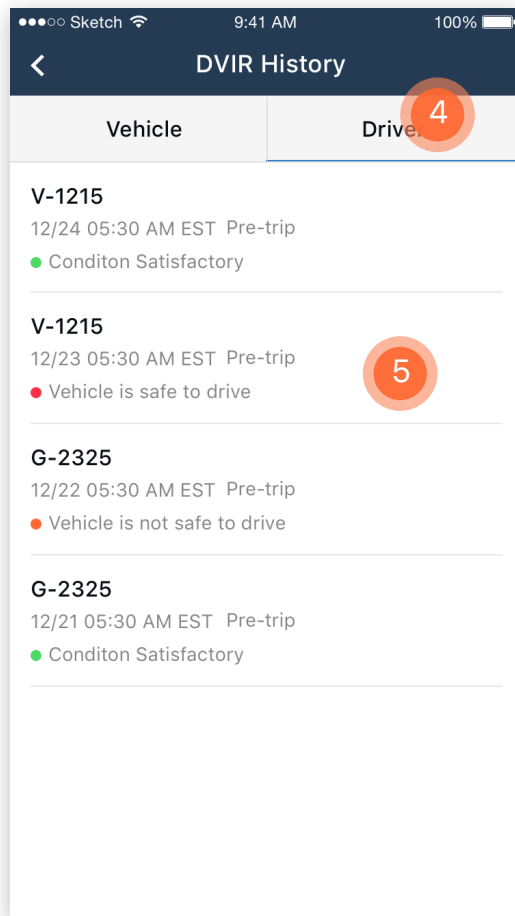
④

Click Driver to see the last 14 days' inspections history made by the account owner driver.



⑤

Click any inspection to see the detail.



5.0 ROADSIDE SAFETY INSPECTION | START A NEW DVIR

①

Click DOT icon on menu bar to start the roadside inspection.



②

Click OK to start the inspection mode.

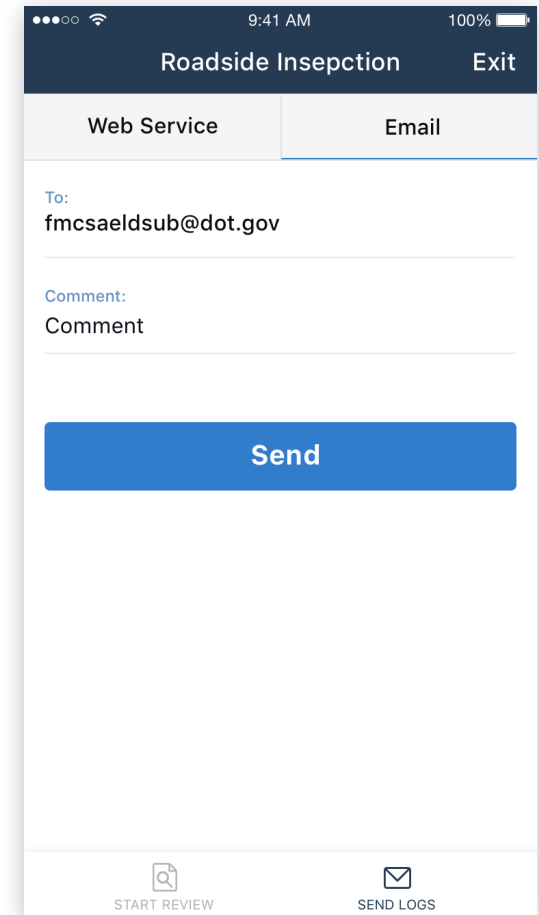
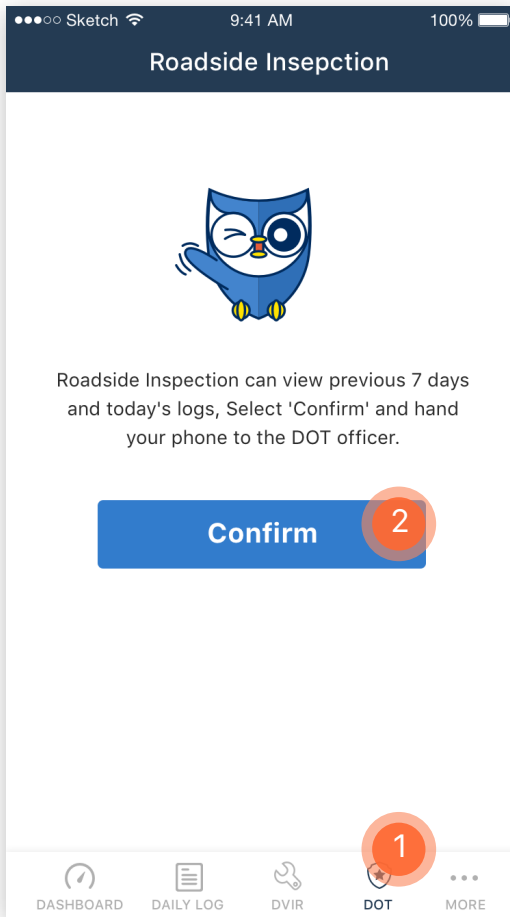


③

Click the forward and backward arrow (<, >) to view different date of driver's daily log.

④

Click Send Logs to transfer the generated ELD data electronically via either Email or Web Service.



6.0 MORE FEATURES | ADD CO-DRIVER

①

Click More to go to more operations of SHIELD.

②

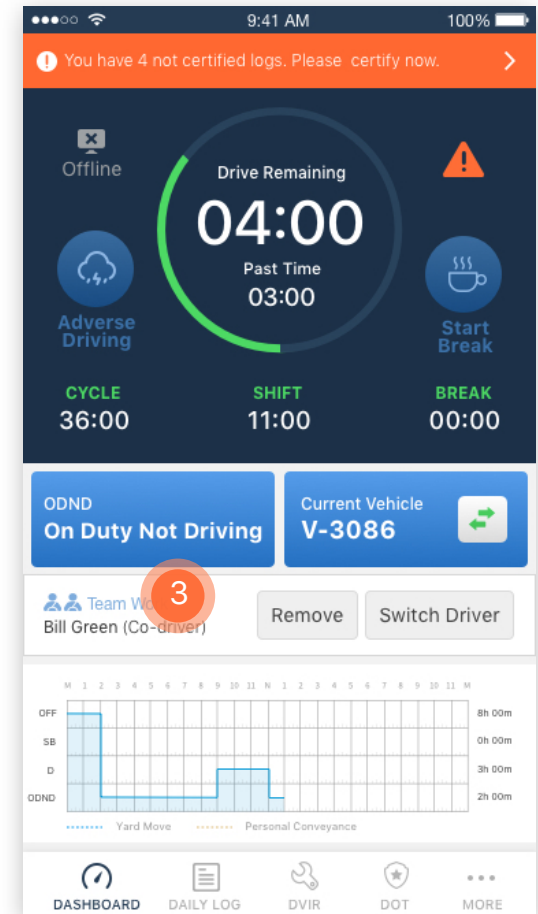
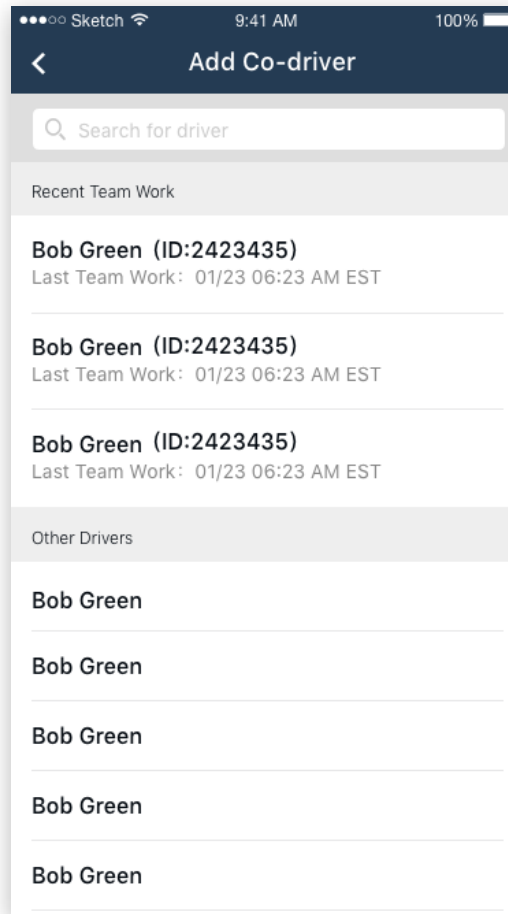
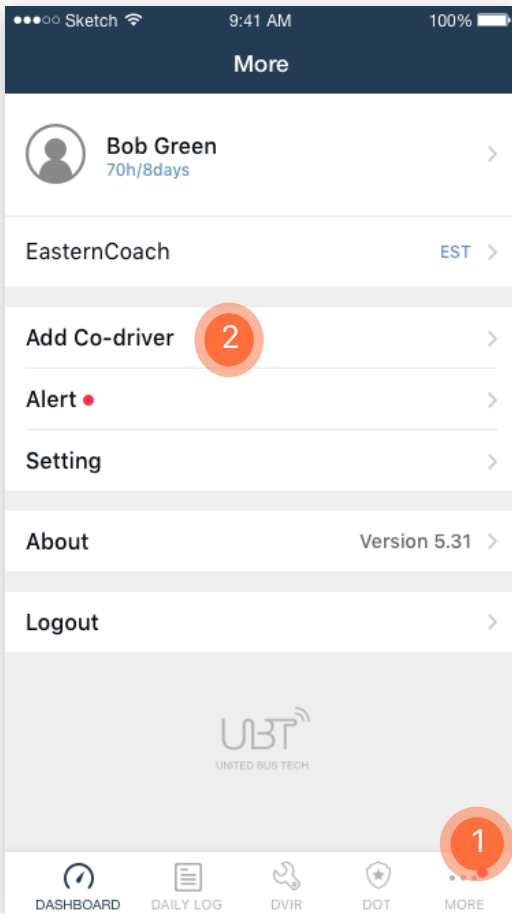
Click Add Co-Driver to select a co-driver for team drivers.

③

Any Co-driver will be shown on the dashboard.

④

Click Switch Driver to switch the team driver's role from primary driver to co-driver.



6.0 MORE FEATURES | ALTERS

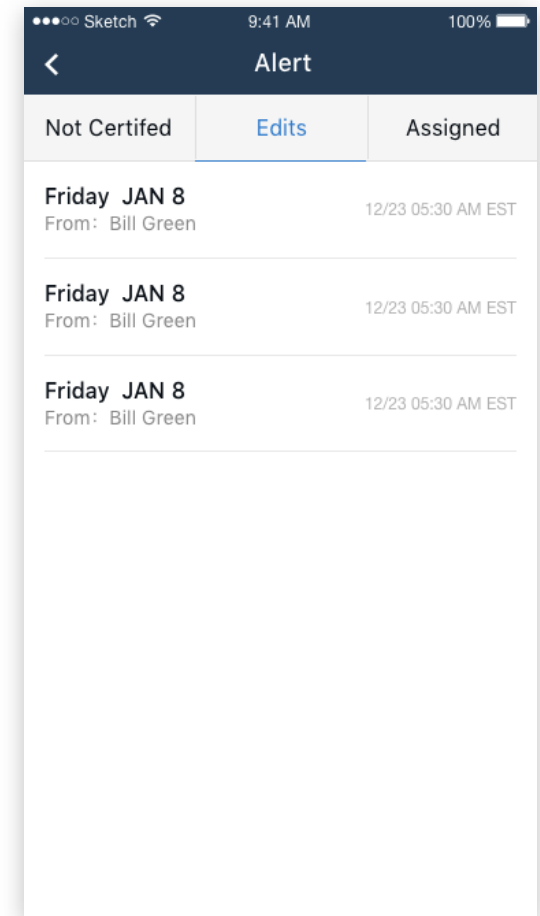
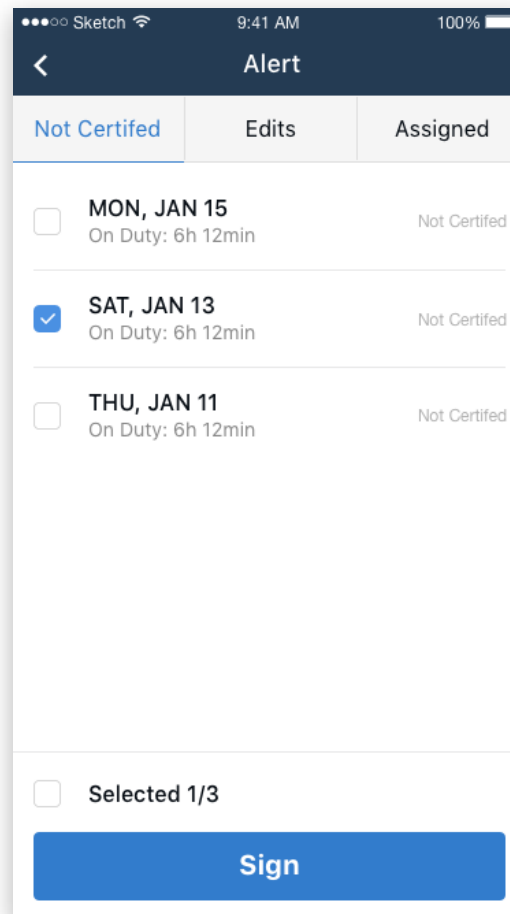
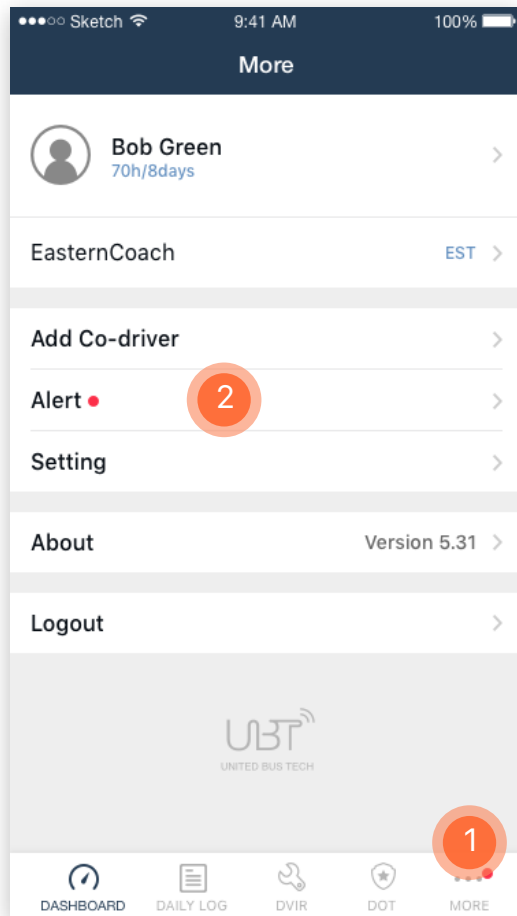
①

If there is a red dot next to the More at the menu bar, this means there are alerts that need attention from the driver.



②

Click Alerts to see if there are any Not Certified logs or any proposed log edits from the bus carrier.



6.0 MORE FEATURES | CHANGE PASSWORD

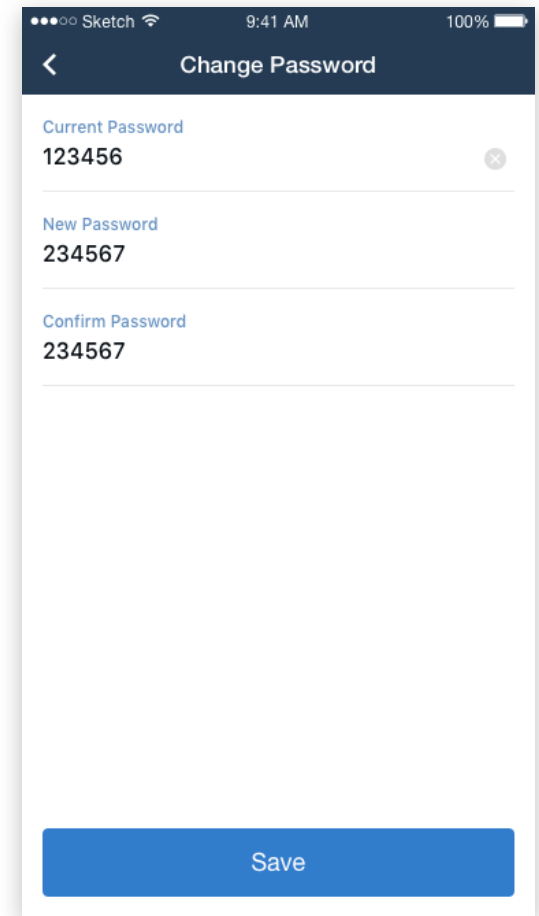
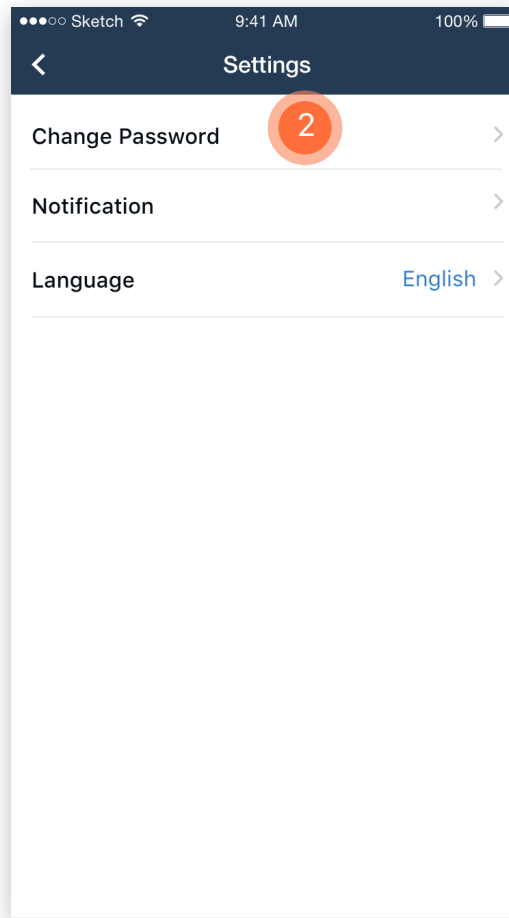
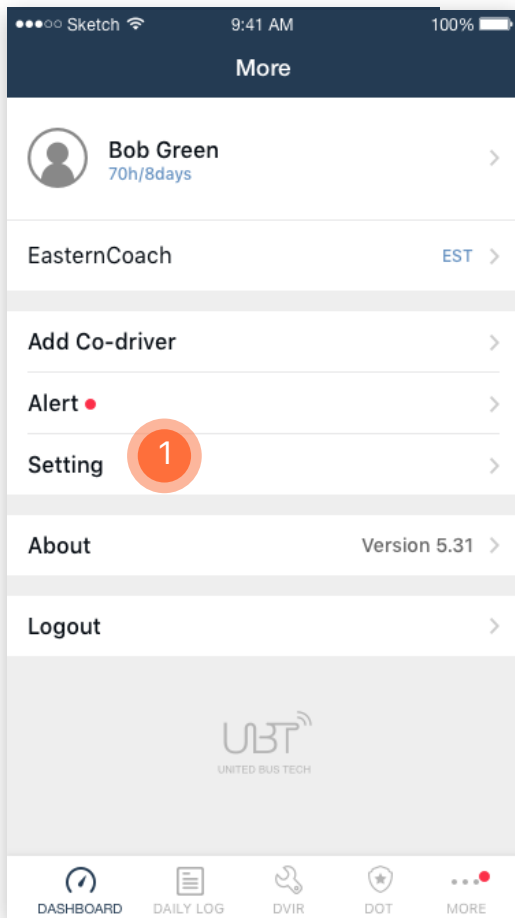
①

Click Setting to go to Settings page.



②

Click Change Password to create a new password for the current driver account.





SHIELD

Simple • Handy • Intelligent

THANKS AND HAPPY DRIVING!



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