



DrayFLEX-Trip Quick Reference User Guide

This document provides an overview of how to use the DrayFLEX-Trip mobile app. Note the screenshots in this document are from an iOS device. Android device views may differ.

Why and When to Use DrayFLEX-Trip

DrayFLEX-Trip is a mobile application for truck drivers, providing turn-by-turn route options and en-route alerts. DrayFLEX-Trip provides route option recommendations to avoid traffic events, minimize travel time, and/or reduce fuel use and pollution. The DrayFLEX-Trip application generates route options for the destination and appointment/arrival time based on current traffic conditions, truck speeds, truck routes and restrictions, truck profile, estimated fuel use, and terminal gate wait time. Incident and slowdown ahead warnings and speed advisories are also provided via audible alerts to the truck driver. DrayFLEX-Trip is available for both iOS and Android.

From the perspective of truckers, the DrayFLEX-Trip application would be used in very much the same way that smartphone-based navigation programs—such as Waze or Google Maps—are used today. The difference is that DrayFLEX-Trip would be a singular application for a myriad of consolidated data sources specific to trucks. A truck driver—using the DrayFLEX-Trip application—would be able to select from multiple trip route recommendations including fastest travel time and fuel savings options, receive mid-trip audible notifications based on truck route restrictions and congestion and other incidents, and take terminal gate wait times into consideration for their estimated time of arrival.

Potential operational benefits of DrayFLEX-Trip include reductions in fuel consumption, stop-and-go operations and idling, improved safety from the slowdown ahead alerts, reductions in missed or rescheduled appointments, and increases in the number of on-time cargo pick-ups and drop-offs.

Connection with DrayFLEX Core

The Drayage Freight and Logistics Exchange (DrayFLEX) Core system is an optimization engine available to trucking companies to improve current truck operational efficiencies in Southern California, along the I-710 corridor and the Ports of Los Angeles and Long Beach. The DrayFLEX Core system integrates with various external systems to capture and process the historical and real-time data elements which is used to optimize drayage dispatching of truck drivers. Dispatch optimization focuses on improving the current fleet management and dispatching processes being used by trucking companies. Through integration with truck management systems (TMS) for order and appointment information, and driver availability with equipment management information, as well as turn time and truck location from GeoStamp, the DrayFLEX Core optimization engine will more efficiently allocate trucks and drivers to appointments, increasing the number of turns completed each day, reducing deadhead miles, and increasing dual transactions.

The main features of DrayFLEX Core include:

- Instant best-match load assignments with re-dispatch options when changes arise en-route including trip monitoring and move alerts;

- Automated dispatch workflow and optimization;
- Chassis availability and matching;
- Performance reporting and dashboards; and
- Integration with TMS.

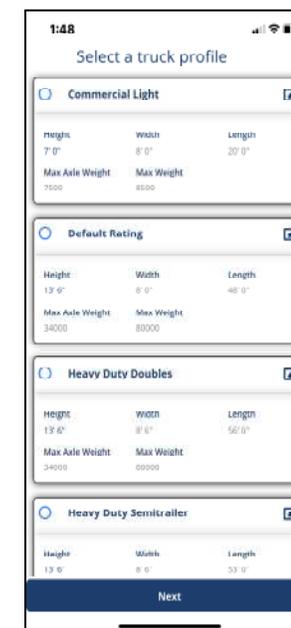
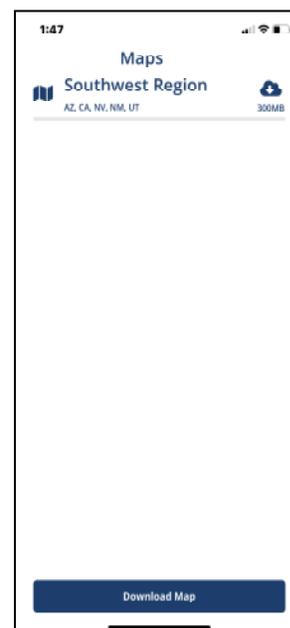
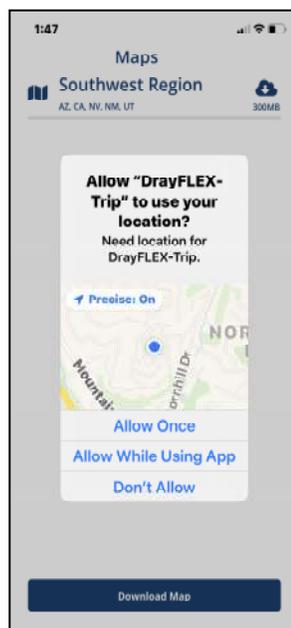
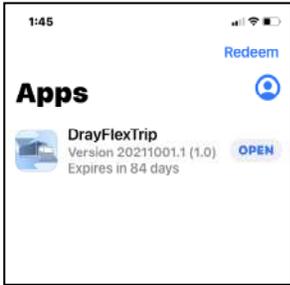
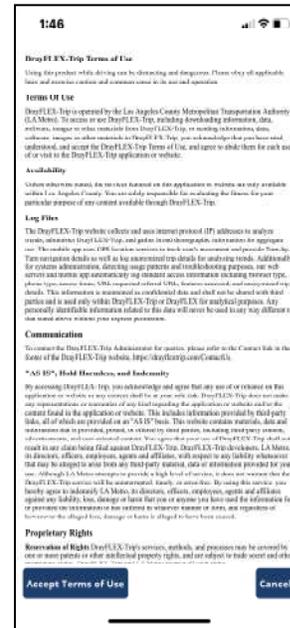
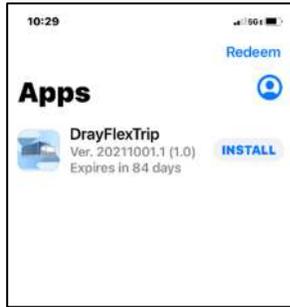
The screenshot displays the DrayFLEX Beta web interface. At the top, there are several key performance indicators (KPIs): 959 Drivers Available, 326 Drivers Available, 2 Drivers in Progress, 3 Moves Dispatched, 8 Moves Completed, 209 Alerts, 970 Moves All, and 328 Drivers All. Below this, the 'DISPATCH PLAN OPTIONS' section shows three plans: PLAN 1 (Edited) with a total time of 8 hr 9 min, PLAN 2 with 5 hr 28 min, and PLAN 3 with 5 hr 28 min. Each plan includes a list of moves with their respective approximate times. Below the options, 'PLAN 1' is expanded into a detailed timeline with five steps: 1. 1501 E LOMITA BLVD, WILMINGTON (ETA: 07:32), 2. HANJIN - TOTAL TERMINAL (ETA: 08:07), 3. Pier A SSA (ETA: 11:07), 4. CMI Lomita Yard Hub Convenience (ETA: 12:23), and 5. Trapac Terminal 920 W. HARRY BRIDGES (ETA: 12:51). Each step includes a truck icon and a brief description of the activity.

DrayFLEX-Trip receives terminal wait and turn time information from DrayFLEX Core.

How to Download and Login/Register for DrayFLEX-Trip

Through a pilot project with Los Angeles Metro, a limited number of truck drivers will be able to utilize DrayFLEX-Trip for truck specific turn-by-turn routing through most of 2022. The pilot project team is working with pilot trucking companies and owner-operators but additional licenses will be available. Requests to participate can be submitted at www.drayflextrip.com.

Participants will receive an email containing their login and password information and instructions from the DrayFLEX-Trip administrator for downloading and logging in to DrayFLEX-Trip. Follow these instructions to download and install the app, review and accept the terms of use, download the map, select the truck profile that is applicable to your operations, and enable notifications.

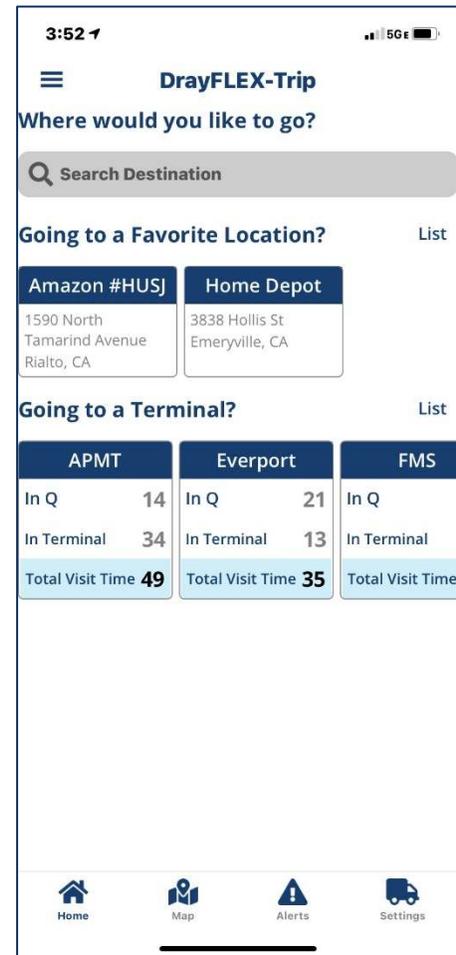


How to Enter Trip Information

Open DrayFLEX-Trip on a mobile device. There are three options for entering a trip destination information:

- **Address or name of location** - In the search window titled **Search Destination**, enter the address or name of the location you would like to travel to. Click on the desired address from the list.
- **Favorite locations** – Click on a saved favorite location.
- **Terminal** – From the home screen, swipe to the desired Port of Long Beach or Port of Los Angeles terminal and click on the box with the wait and turn times.

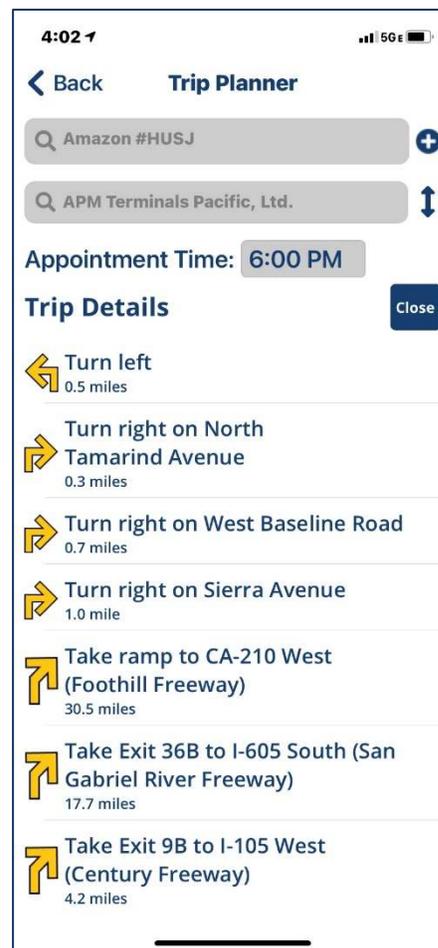
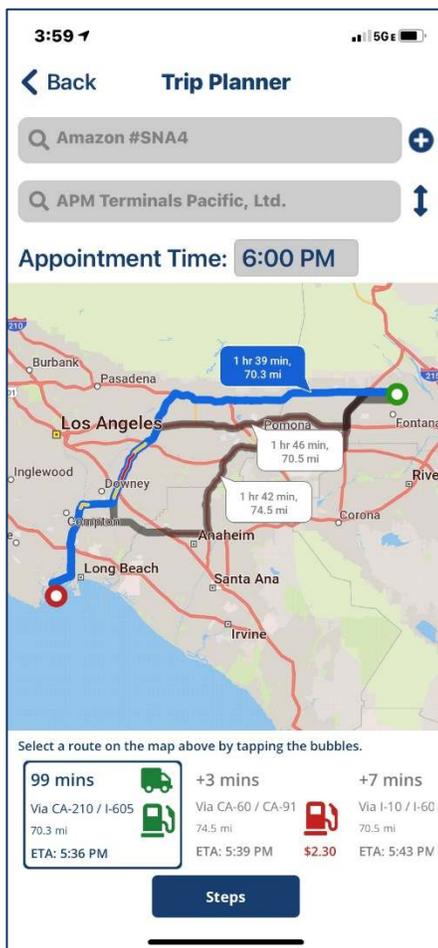
Favorite locations and terminal destinations can also be entered by clicking on the appropriate **List** text from the Home screen and clicking on the desired location.



Turn-by-Turn Routing Options

Once a trip destination has been selected, click on the Directions button. DrayFLEX-Trip will provide route options for the user to select. For each route, travel time, general route (via), travel distance, estimated arrival time (ETA), and fuel cost differences are provided. The fastest travel time option is highlighted blue on the map and listed first below the map. A green fuel pump icon indicates the lowest fuel use option. A red fuel pump icon indicates a higher fuel use cost option with the estimated additional fuel cost value listed below the icon. If an appointment time is applicable to your trip, you can enter that time and DrayFLEX-Trip will estimate whether you will arrive late or on-time. Terminal grace periods are considered in this arrival estimate.

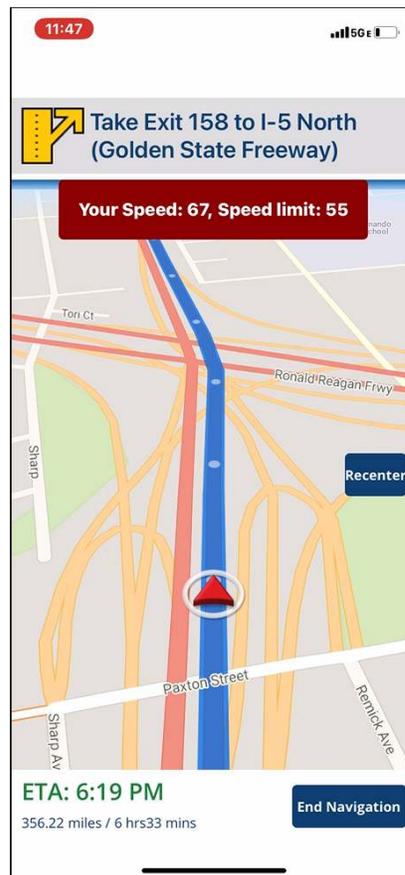
Click on the route option on the map to view to select the desired route and click either **Steps** or **Navigate**. If **Steps** is selected, the turn-by-turn directions in written form are provided on the screen. If **Navigate** is selected, turn-by-turn navigation is provided to the user in both map and audible formats.



Alerts

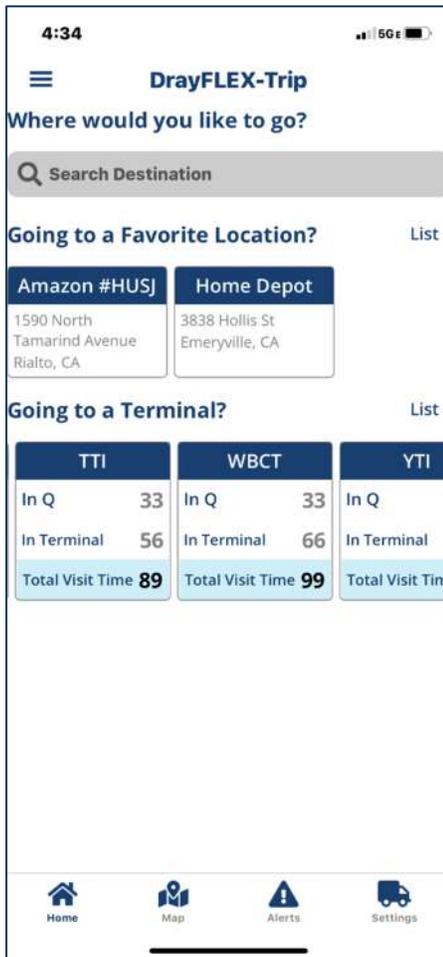
DrayFLEX-Trip provides four types of alerts during trip navigation:

- **Truck restricted routes** – If a user travels onto a route that is restricted based on the selected truck profile information, DrayFLEX-Trip provides both a visual and audible alert for the prohibited route.
- **Advisory speed** – Speed alerts are shown visually at the top of the map during navigation and audibly via three successive beeps if the user is traveling above the speed limit.
- **Incidents** – If a user travels near an incident that is being reported by the Southern California's Go511 system, DrayFLEX-Trip will provide the alert. The Go511 alerts can also be viewed by clicking on **Alerts** from the **Menu**.
- **Dangerous slow-down ahead** – If there is a dangerous slow-down ahead of a user during navigation, DrayFLEX-Trip will issue an audible notification of a sudden slowdown alert within x miles.



How to Access Terminal Queue and Turn Time Information

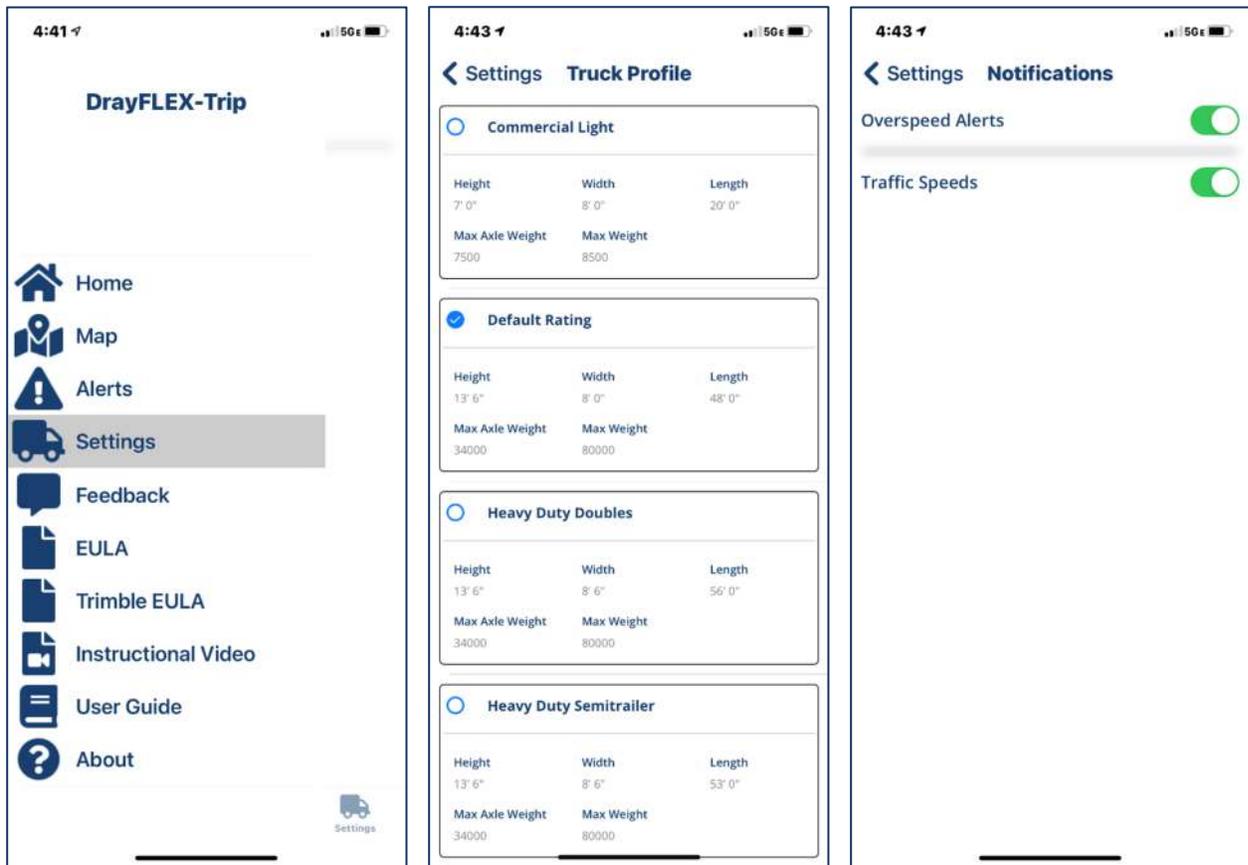
DrayFLEX-Trip includes Port of Los Angeles and Port of Long Beach terminal estimated gate wait times (InQ), in terminal times (In Terminal), and total turn times (Total Visit Time) based on real-time information for the prior hour. Terminal queue and turn time information can be viewed from the **Home** screen under the “Going to a Terminal?” text. Swipe left to view the information for all of the terminals. This can also be viewed by clicking on **List** to the right of the “Going to a Terminal?” text



How to Enter and Adjust User Settings

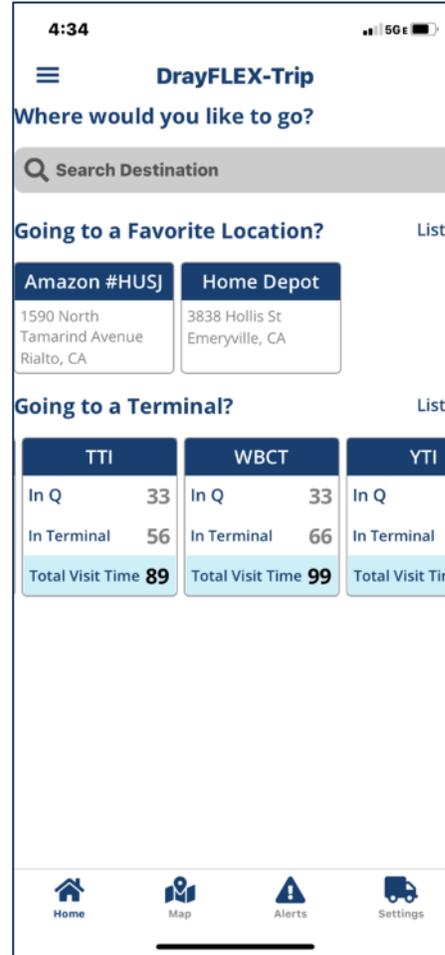
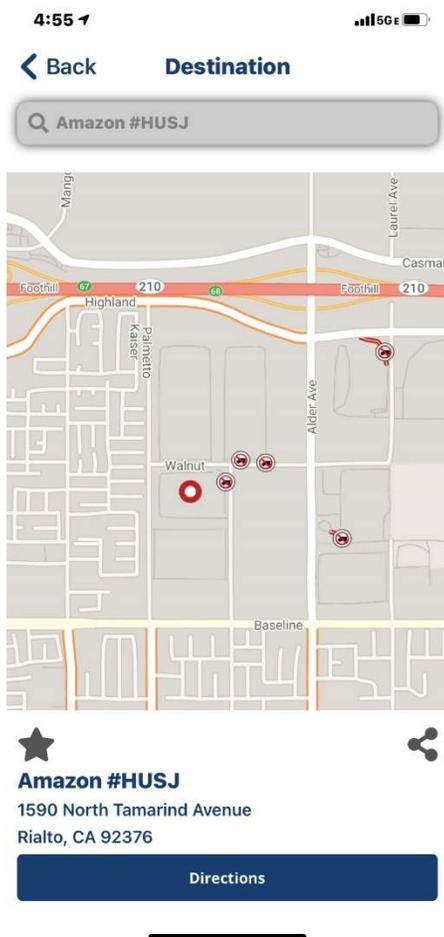
Upon installation of DrayFLEX-Trip, the user is asked to select the appropriate truck profile. If a user needs to adjust the originally selected truck profile, click on **Menu**, then **Settings**, and then **Truck Profile**. The user can select from Commercial Light, Default Rating, Heavy Duty Doubles, Heavy Duty Semitrailer, Heavy Duty Straight, and Medium Duty Straight.

Over speed and traffic speeds voice notifications can also be toggled on and off within the settings. Click **Menu**, then **Settings**, and **Notifications**. Green is on, gray is off.



How to Save Favorite Locations

Enter trip destination as described under the section titled Enter Trip Information. After selecting an address from the list and the destination screen with the full address appears at the bottom, click on the star. The star will show as full and the favorite will save. The saved favorite will appear on the home screen under “Going to a Favorite Location?” text.



Administration Portal and Reports

An administrative DrayFLEX-Trip portal was created to support performance reporting under the project to meet Federal Highway Administration (FHWA) Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) grant requirements. The portal provides a mechanism for DrayFLEX-Trip administrators to manage users; present performance metrics such as active users, uptime, travel time reliability, trip rating, and VMT; trip reports; and user feedback. Information on the administrative portal can be obtained by contacting kjeannotte@camsys.com.

DrayFLEX-Trip Support and Feedback

Support and feedback for DrayFLEX-Trip will be available through the Fall of 2022 via the app by clicking on the **Menu**, then **Feedback**. Alternatively, an email can be sent to feedback@drayflextrip.com with an explanation of the issue or feedback.

