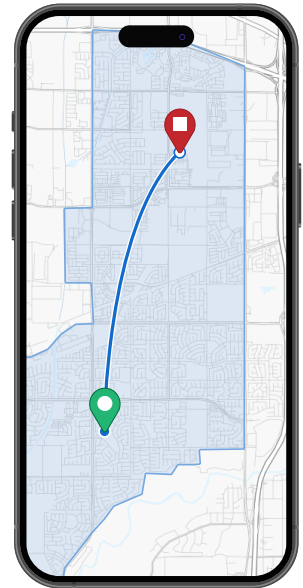# GTFS Flex

❯ What is GTFS Flex?

GTFS Flex allows transit agencies to publish information about non fixed route services, such as demand response services, in a standardized format that riders can access in trip planners. This allows riders to find and utilize transit services that they may not have known were available.
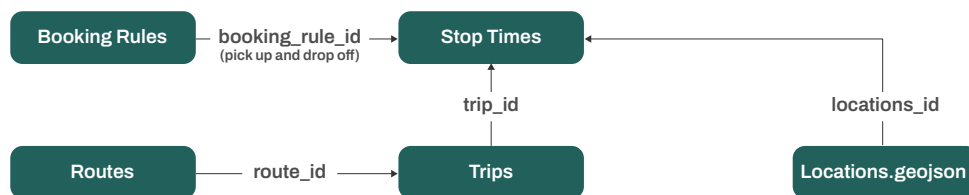
Riders can now see services publishing GTFS flex in the Transit app and Open Trip Planner. Developing GTFS flex now ensures riders will be able to find your services and access important information at their fingertips.

❯ How GTFS Flex is Created

GTFS Flex is created by expanding your existing GTFS schedule with additional files and fields. ADOT has created some necessary files for transit agencies in Arizona and made them available here. Other changes can be made in your preferred GTFS editing tool.

Required Files and Data for GTFS Functionality

Booking Rules —— booking_rule_id (pick up and drop off) ——→ Stop Times ←—————————————— locations_id

trip_id ↑

Routes —— route_id ——→ Trips   Locations.geojson

❯ Getting Started with GTFS Flex

To get started with GTFS Realtime:

1. Create or Download your service area "locations.geojson" file. ADOT has created files for Arizona Agencies here: [add link]
2. Create a new "booking_rules.txt" file for the service.
3. Add new rows and columns to your existing GTFS schedule:
   - Create a new "route" connected to the booking rule
   - Add a new "stop_time" connected to the zone.
   - Add a new trip connected to the stop time and route.
4. Check your feed in the GTFS Validator

❯ GTFS Flex Resources and Support

There are many resources available to help you create or update your agency's GTFS files. The National Rural Transit Assistance Program (RTAP) helps all agencies with technical guidance, regardless of whether or not they are in a rural area. For a list of helpful resources, go to WEB LINK.

If you have questions, please email the AZDOT Transit Group at transitgroup@azdot.gov

Examples: https://gtfs.org/documentation/schedule/examples/flex/

Documentation: https://gtfs.org/documentation/schedule/reference/