

Welcome!

For detailed information on how to use the key and access the Metrolinx Open API, please see <https://api.openmetrolinx.com/OpenDataAPI/Help/Index/en>, and an explanation of the fields and data used in each API call can be found in the specification document at https://api.openmetrolinx.com/OpenDataAPI/Content/API_Data_Catalogue.pdf

Here's a quick summary of what you need to know:

- All of the URLs start with <https://api.openmetrolinx.com/OpenDataAPI/> and end with your key `?key=300xxxxx`

For example, to access the GO GTFS vehicle positions feed, the URL would be <https://api.openmetrolinx.com/OpenDataAPI/api/V1/Gtfs/Feed/VehiclePosition?key=300xxxxx>

- UP Express GTFS real time feeds include UP in the URL, for example <https://api.openmetrolinx.com/OpenDataAPI/api/V1/UP/Gtfs/Feed/VehiclePosition?key=300xxxxx>
- All feeds are also available in either XML or JSON format. The GTFS feeds are also available in protocol buffer; instructions on how access these formats are included on the Introduction page.
- There are no individual limits on the number of calls that you can make, however any perceived unusual activity (i.e. excessive number of incorrect calls) could get flagged and could result in a suspension of your key while investigated.

What kind of data do we offer?

Real time General Transit Feed Specification (GTFS) data, which is broken down into:

- **"vehicle position,"** which shows all live trips with trip number, start time, destination, current vehicle location in latitude/longitude and stop ID as well as vehicle number
- **"trip updates,"** which shows all live trips with trip number, direction, start time, destination and detailed information for each upcoming stop on the trip including the stop ID, scheduled arrival time in epoch format, delay deviation and whether it is a scheduled stop or one that has been added
- **"alerts,"** which shows general service alerts, planned bus stop relocations and route detours broken down by route/line, station construction and elevator status notices, both of which are broken down further by line and station.

Bus Stop information (stop), which is broken down into:

- **"next service,"** which shows predictions for all upcoming trips at that stop
- **"details,"** which shows stop name and code, if bus and/or train is present, fare zone number and lists what facilities and if parking is available at that stop
- **"destinations,"** which shows list of routes that serve this stop along with direction of service and final stop code
- **"all,"** which shows list of all active bus stops by location code, stop ID and includes stop name and location name plus location type.

Fare information (fares) returns fare information between two stop or station numbers. There are two feeds – one shows the current fares and the other is for a specific date.

Service update, which is broken down into:

- **"service alert,"** which shows system alerts, planned bus stop relocations and route detours broken down by route/line and elevator status notices which are broken down by line and station
- **"information alert,"** which shows station construction notices and parking notices broken down by line and station,
- **"Union departures,"** which shows a list of upcoming train and bus departures from Union Station including departure time, trip number, line, if bus or train platform number [platform numbers don't display until 10-15 minutes prior to departure] and rail stations or major bus stops served
- **"exceptions train"** and **"exceptions bus"** list any trips that have been cancelled or modified including stops that may have been removed or added; may contain non-revenue trips
- **"exceptions all"** is same as "exceptions train" and "exceptions bus," but together in one place

Service at a glance, which summarizes the status of live trips, is broken down into:

- **"buses,"** which shows all live bus trips with trip number, start and end times, route number, direction, trip destination sign info, current latitude and longitude of vehicle, delay deviation, if vehicle is moving or not, first, last, current and next stop code, if vehicle is at stop or between stops and when the data was last updated
- **"trains,"** which is same as "buses," except that it shows the number of cars on the train and uses line codes and station codes instead of route numbers and stop numbers.

Schedule, which returns schedule and trip planning information, is broken down into:

- **"journey,"** which displays the specified number of upcoming trips between two specified stops/stations on a specific date and time including if bus or train, trip number and route number; works with direct service only
- **"all,"** which shows list of all bus and train routes operating on the specified date including route number, name, destinations, directions and if is bus or train
- **"line/all,"** which shows all trips on specified bus route or train line in specified direction for specified service day including code for each stop served, scheduled time there and stop order
- **"line/stop,"** which shows stop names and numbers for specified route and direction on specified date and if stops are major or not; bus routes will only show variant (route number + letter where applicable) specified and "trip" (behaves differently between live and later or earlier trips - live trips show latitude and longitude, if moving or not, scheduled and predicted time for stops along route and track information for trains. Later and earlier trips do not show latitude and longitude, moving, predictions or track information).
- **"trip,"** which shows destination stop code, current lat/long and both scheduled and estimated arrival and departure times at each stop (including the code) for the trip number specified. Lat/long and arrival predictions are only available for live trips; historic and future trips will only show scheduled times and predictions don't show more than 30 minutes ahead. Train trips will also show the platform number.

Please note that calls under "Fleet," which are listed in the data catalogue, are discontinued and will return a 403 error.

As well, the ServiceUpdate/MarketingAlert, ServiceUpdate/ServiceGuarantee and ServiceataGlance/UPX calls are no longer used and will not return any data.

Note that this document is confidential and solely intended for the purpose of users authorized by Metrolinx to access the Metrolinx Open API. It may not be distributed or shared without prior written consent from Metrolinx.

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