

Bus Route List and Estimated Arrival Time of a Specific Bus Stop API

API Specifications

Version 1.1
December 2021

Amendment History

Version Number	Revision Details	Revision Date	Author
1.0	Initial Version	December 2019	DA Division, OGCIO
1.1	Amendment on Section 2 Stop-Route API with version 1.1	December 2021	DA Division, OGCIO

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1. API Base URL

All APIs described in this document share the following base URL:

Base URL	<code>https://rt.data.gov.hk</code>
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2. Stop-Route API

Description: This API takes a company ID and its respective stop ID and returns all the route information of the specified stop.

HTTP Request:

Endpoint	<code>/v1.1/transport/batch/stop-route/{company_id}/{stop_id}</code>
HTTP Method	GET

Parameter	Parameter Type	Description	Required
company_id	Path	Company ID Valid company IDs are: <ul style="list-style-type: none">• CTB - Citybus Limited• NWFB - New World First Bus Service Limited• NLB - New Lantao Bus Company Limited	Y
stop_id	Path	Stop ID of the respective company <u>Note:</u> For CTB and NWFB, refer to “Stop” API and “Route-Stop” API of the following datasets: <ul style="list-style-type: none">• <i>Real-time “Next Bus” arrival</i>	Y

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		<i>time and related data of Citybus</i> <ul style="list-style-type: none">• <i>Real-time “Next Bus” arrival time and related data of New World First Bus</i> For NLB, refer to the “Stops of a route” API of the following dataset: <ul style="list-style-type: none">• <i>Bus service of New Lantau Bus Company (1973) Limited dataset</i>	
lang	Query String	Language of the returned data Valid languages are: <ul style="list-style-type: none">• en – English (default if not specified)• zh-hant – Traditional Chinese• zh-hans – Simplified Chinese	N

Sample Request:

```
/v1.1/transport/batch/stop-route/CTB/001001
```

HTTP Response:

Response Format	JSON
------------------------	------

Response Code	Response
200	Success, see sample response below
422	Varies, see message in response body
429	Processing too many requests
500	Internal server error

Sample Response:

```
{
  "type": "StopRoute",
  "version": "1.1",
  "generated_timestamp": "2019-10-14T15:24:17+08:00",
  "data": [
    {
      "co": "CTB",
      "dir": "O",
      "overnightRoute": null,
      "route": "12",
      "routeId": null,
      "routeName": null,
      "seq": 11,
      "specialRoute": null,
      "stop": "001001",
      "data_timestamp": "2019-10-14T11:25:54+08:00"
    },
    {
      "co": "CTB",
      "dir": "O",
      "overnightRoute": null,
      "route": "12M",
      "routeId": null,
      "routeName": null,
      "seq": 6,
      "specialRoute": null,
      "stop": "001001",
      "data_timestamp": "2019-10-14T11:25:54+08:00"
    },
    {
      "co": "CTB",
      "dir": "I",
      "overnightRoute": null,
      "route": "40M",
      "routeId": null,
      "routeName": null,
      "seq": 10,
      "specialRoute": null,
      "stop": "001001",
      "data_timestamp": "2019-10-14T11:25:54+08:00"
    }
  ]
}
```

Note: Refer to the data dictionary for the descriptions and specifications of the returned fields.

3. Stop-ETA API

Description: This API takes a company ID and its respective stop ID and returns all the ETA data of the specified stop.

HTTP Request:

Endpoint	/v1/transport/batch/stop-eta/{company_id}/{stop_id}
HTTP Method	GET

Parameter	Parameter Type	Description	Required
company_id	Path	<p>Company ID</p> <p>Valid company IDs are:</p> <ul style="list-style-type: none"> CTB - Citybus Limited NWFB - New World First Bus Service Limited NLB - New Lantao Bus Company Limited 	Y
stop_id	Path	<p>Stop ID of the respective company</p> <p><u>Note:</u></p> <p>For CTB and NWFB, refer to “Stop” API and “Route-Stop” API of the following datasets:</p> <ul style="list-style-type: none"> <i>Real-time “Next Bus” arrival time and related data of Citybus</i> <i>Real-time “Next Bus” arrival time and related data of New World First Bus</i> <p>For NLB, refer to the “Stops of a route” API of the following dataset:</p> <ul style="list-style-type: none"> <i>Bus service of New Lantao Bus Company (1973) Limited</i> 	Y

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		<i>dataset</i>	
lang	Query String	Language of the returned data Valid languages are: <ul style="list-style-type: none">• en – English (default if not specified)• zh-hant – Traditional Chinese• zh-hans – Simplified Chinese	N

Sample Request:

```
/v1/transport/batch/stop-eta/nlb/1?lang=zh-hant
```

HTTP Response:

Response Format	JSON
-----------------	------

Response Code	Response
200	Success, see sample response below
422	Varies, see message in response body
429	Processing too many requests
500	Internal server error
502	Invalid response from upstream server

Sample Response:

```
{
  "type": "StopETA",
  "version": "1.0",
  "generated_timestamp": "2019-10-14T15:23:04+08:00",
  "data": [
    {
      "co": "NWFB",
```



```
        "route": "13",
        "dir": "O",
        "seq": 6,
        "stop": "001001",
        "dest": "Kotewall Road",
        "eta_seq": 1,
        "eta": "2019-10-14T15:34:06+08:00",
        "rmk": "",
        "routeVariantName": null,
        "departed": null,
        "noGPS": null,
        "wheelChair": null,
        "data_timestamp": "2019-10-14T15:22:02+08:00"
    },
    {
        "co": "NWFB",
        "route": "13",
        "dir": "O",
        "seq": 6,
        "stop": "001001",
        "dest": "Kotewall Road",
        "eta_seq": 2,
        "eta": "2019-10-14T15:48:37+08:00",
        "rmk": "",
        "routeVariantName": null,
        "departed": null,
        "noGPS": null,
        "wheelChair": null,
        "data_timestamp": "2019-10-14T15:22:02+08:00"
    },
    {
        "co": "NWFB",
        "route": "13",
        "dir": "O",
        "seq": 6,
        "stop": "001001",
        "dest": "Kotewall Road",
        "eta_seq": 3,
        "eta": "2019-10-14T16:03:37+08:00",
        "rmk": "",
        "routeVariantName": null,
        "departed": null,
        "noGPS": null,
        "wheelChair": null,
        "data_timestamp": "2019-10-14T15:22:02+08:00"
    }
  ]
}
```

Note: Refer to the data dictionary for the descriptions and specifications of the returned fields.

4. Error Response

In case of API execution error, a corresponding HTTP response code will be returned along with the same response code and an error message in the JSON body.

HTTP Response:

Response Format	JSON
-----------------	------

Sample Response:

```
{
  "code": "422",
  "message": "Invalid language code"
}
```