

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

## **Data Dictionary**

Version 1.0  
December 2019

**Amendment History**

<b>Version Number</b>	<b>Revision Details</b>	<b>Revision Date</b>	<b>Author</b>
1.0	Initial Version	December 2019	DA Division, OGCIO

# Table of Contents

Table of Contents.....	3
1. Data Dictionary.....	4
Stop-Route API .....	4
Stop-ETA API.....	8

# 1. Data Dictionary

Below is the list of data fields returned from the API and their definition.

## Stop-Route API

Data Field	Data Type	Description	Definition (if applicable)	Example
type	String	The corresponding API that returns the data.	The value will always be "StopRoute".	"type": "StopRoute"
version	String	The version number of the JSON returned.	The version number in major and minor versioning format.	"version": "1.0"
generated_timestamp	String	The timestamp of the initial generated time of the response before it is cached.	Date time with time zone in ISO 8601 format.	"generated_timestamp": "2019-06-04T11:27:24+08:00"
data	Array of Object	The list of data object requested.	Each object consists of the following fields: <ul style="list-style-type: none"> <li>co</li> <li>dir</li> <li>overnightRoute</li> <li>route</li> <li>routeId</li> <li>routeName</li> </ul>	"data": [ <pre>{   "co": "CTB",   "dir": "I",   "overnightRoute": null,   "route": "40M",   "routeId": null,   "routeName": null,</pre>

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

			<ul style="list-style-type: none"> <li>seq</li> <li>specialRoute</li> <li>stop</li> <li>data_timestamp</li> </ul> <p>Note that <code>null</code> in a data field indicates the field is not applicable for the respective bus company.</p>	<pre>"seq": "10", "specialRoute": null, "stop": "001001", "data_timestamp": "2019-09-26T05:00:06+08:00" }]</pre> <p>Note: Empty data object denotes data not found.</p>
co	String	The company code of a bus company.	<p>The valid company codes are:</p> <ul style="list-style-type: none"> <li>CTB for Citybus Limited</li> <li>NWFB for New World First Bus Services Limited</li> <li>NLB for New Lantao Bus Company Limited</li> </ul>	"co": "CTB"
dir	String	<p>The direction of a bus route.</p> <p>Note: Not applicable for NLB.</p>	<p>The direction can be:</p> <ul style="list-style-type: none"> <li>I – Inbound</li> <li>O – Outbound</li> </ul>	"dir": "I"
overnightRoute	Numeric	Indicator of an overnight route.	The value can be:	"overnightRoute": 1

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

		<p><u>Note:</u> Not applicable for CTB and NWFB.</p>	<ul style="list-style-type: none"> <li>• 0 – not an overnight route</li> <li>• 1 – an overnight route</li> </ul>	
route	String	The route number of the requested company.		"route": "N35"
routeId	String	<p>Route ID of the respective company's route.</p> <p><u>Note:</u> Not applicable for CTB and NWFB.</p>		"routeId": "92"
routeName	String	<p>The name of a route.</p> <p><u>Note:</u> Not applicable for CTB and NWFB.</p>		"routeName": "Mui Wo Ferry Pier > HZMB Hong Kong Port"
seq	Numeric	<p>The stop sequence number of a bus route.</p> <p><u>Note:</u> Not applicable for NLB.</p>		"seq": 1

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

---

specialRoute	Numeric	Indicator of a special route.  <u>Note:</u> Not applicable for CTB and NWFB.	The value can be: <ul style="list-style-type: none"><li>• 0 – not a special route</li><li>• 1 – a special route</li></ul>	"specialRoute": 0
stop	String	The ID of a bus stop.		"stop": "000975"
data_timestamp	String	The timestamp of the data when it was initially prepared from the origin server.	Date time with time zone in ISO 8601 format.	"data_timestamp": "2019-04-26T15:28:00+08:00"

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

### Stop-ETA API

Data Field	Data Type	Description	Definition (if applicable)	Example
type	String	The corresponding API that returns the data.	The value will always be "StopETA".	"type": "StopETA"
version	String	The version number of the JSON returned.	The version number in major and minor versioning format.	"version": "1.0"
generated_timestamp	String	The timestamp of the initial generated time of the response before it is cached.	Date time with time zone in ISO 8601 format.	"generated_timestamp": "2019-06-04T11:27:24+08:00"
data	Array of Object	The list of data object requested.	Each object consists of the following fields: <ul style="list-style-type: none"> <li>co</li> <li>route</li> <li>dir</li> <li>seq</li> <li>stop</li> <li>dest</li> <li>eta_seq</li> <li>eta</li> <li>rmk</li> <li>routeVariantName</li> </ul>	"data": [{ "co": "NLB", "route": "1", "dir": null, "seq": null, "stop": "1", "dest": "大澳", "eta_seq": null, "eta": "2019-09-26T15:50:00+08:00", "rmk": "預計抵站時間會受實際交通狀況影響，請提早到達



## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

			<ul style="list-style-type: none"> <li>departed</li> <li>noGPS</li> <li>wheelChair</li> <li>data_timestamp</li> </ul>	<p>巴士站候車；預定班次根據總站開出時間表計算，實際開出時間可因車務安排調節，</p> <p>"routeVariantName": "經: 梅窩舊墟",</p> <p>"departed": 0,</p> <p>"noGPS": 1,</p> <p>"wheelChair": 0,</p> <p>"data_timestamp": "2019-09-26T15:42:04+08:00"}}</p>
co	String	The company code of a bus company.	<p>The valid company codes are:</p> <ul style="list-style-type: none"> <li>CTB for Citybus Limited</li> <li>NWFB for New World First Bus Services Limited</li> <li>NLB for New Lantao Bus Company Limited</li> </ul>	<p>"co": "CTB"</p> <p>Note: Empty data object denotes data not found.</p>
route	String	The route number of the requested company.		"route": "1",
dir	String	The direction of a bus route.	<p>The direction can be:</p> <ul style="list-style-type: none"> <li>I – Inbound</li> </ul>	"dir": "I"

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

		<u>Note:</u> Not applicable for NLB.	<ul style="list-style-type: none"> <li>O – Outbound</li> </ul>	
seq	Numeric	The stop sequence number of a bus route.  <u>Note:</u> Not applicable for NLB.		"seq": 1
stop	String	The ID of a bus stop.		"stop": "000975"
dest	String	The destination of a route.		"dest_en": "Happy Valley (Upper)"
eta_seq	Numeric	The sequence number of ETA.  For example: 1 represents the next ETA, 2 represents the ETA after the first, etc.  <u>Note:</u> Not applicable for NLB.	Any numeric number	"eta_seq": 1
eta	String	The timestamp of the next ETA.	Date time with time zone in ISO 8601 format.	"eta": "2019-05-20T15:48:00+08:00"
rmk	String	Remark of an ETA.		

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

routeVariantName	String	Supplementary route name.  <u>Note:</u> Not applicable for CTB and NWFB.		"routeVariantName": "經: 梅窩舊墟"
departed	Numeric	Indicator of a departed trip (i.e. departed from the first stop of the route).  <u>Note:</u> Not applicable for CTB and NWFB.	The value can be: <ul style="list-style-type: none"> <li>• 0 – Not departed from the first stop of the route</li> <li>• 1 – departed from the first stop of the route</li> </ul>	"departed": 0
noGPS	Numeric	Indicator if the bus is equipped with GPS.  <u>Note:</u> Not applicable for CTB and NWFB.	The value can be: <ul style="list-style-type: none"> <li>• 0 – Non GPS equipped bus</li> <li>• 1 – GPS equipped bus</li> </ul>	"noGPS": 1
wheelChair	Numeric	Indicator if the bus is wheelchair accessible.  <u>Note:</u>	The value can be: <ul style="list-style-type: none"> <li>• 0 – Non wheelchair accessible bus</li> <li>• 1 – Wheelchair</li> </ul>	"wheelChair": 0

## Bus Route List and Estimated Arrival Time of a Specific Bus Stop API - Data Dictionary

---

		Not applicable for CTB and NWFB.	accessible bus	
data_timestamp	String	The timestamp of the data when it was initially prepared from the origin server.	Date time with time zone in ISO 8601 format.	"data_timestamp": "2019-04-26T15:28:00+08:00"