

Real time ETA API
Of
Hong Kong and Kowloon Ferry Limited
Data Dictionary

Version History

| Version Number | Revision Details | Revision Date |
|-----------------------|-------------------------------|----------------------|
| 1.0 | Initial Version | 30 August 2021 |
| 1.1 | Update API and Examples | 15 September 2022 |
| 1.2 | Update Route API and Examples | 22 September 2022 |

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1 Introduction

This is the Data Dictionary of a RESTful API which returns result in JSON/CSV format. The API provides information of Hong Kong and Kowloon Ferry Limited (HKKF) such as pier information, fare table, timetable and estimated arrival time (ETA).

This Data Dictionary provides the detail information of the data fields.

2 Data Dictionary

Below is the list of data fields of main tables involved in the API

2.1 Pier

| Data Field | Data Type | Description | Definition | Example |
|---------------------|-----------|--|--|---|
| type | String | The corresponding API that returns the data. | The value will always be "Pier". | "type": "Pier" |
| version | String | The version number of the JSON returned. | The version number in major and minor versioning format. | "version": "1.1" |
| 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 ": "2021-02- 17T11:27:24+08:00" |
| data | Object | The object that of the data requested. | The object consists of the following fields: <ul style="list-style-type: none">• pier_id• name_en | "data": { "pier_id": 3, "name_tc": "榕樹灣渡 輪碼頭", "name_en": "Yung |

| | | | | |
|---------|---------|---|---|---|
| | | | <ul style="list-style-type: none"> • name_tc • name_sc • lat • long | <pre>Shue Wan Pier", "name_sc": "榕树湾渡 轮码头", "lat": 22.22652, "long": 114.109105 }</pre> |
| pier_id | String | The ID of the pier. | | "pier_id": 3 |
| name_tc | String | The name of a bus stop, in Traditional Chinese. | | "name_tc": "榕樹灣渡輪碼頭" |
| name_en | String | The name of a bus stop, in English. | | "name_en": "Yung Shue Wan Pier" |
| name_sc | String | The name of a bus stop, in Simplified Chinese. | | "name_sc": "榕树湾渡轮码头" |
| lat | Numeric | Latitude of a pier location. | | "lat": 22.22652 |
| long | Numeric | Longitude of a pier location. | | "long": 114.109105 |

2.2 Route API

| Data Field | Data Type | Description | Definition | Example |
|---------------------|-----------|--|--|------------------------|
| type | String | The corresponding API that returns the data. | The value will always be "Route". | "type": "Route" |
| version | String | The version number of the JSON returned. | The version number in major and minor versioning format. | "version": "1.1" |
| generated_timestamp | String | The timestamp of the initial | Date time with time | "generated_timestamp": |

| | | | | |
|------|--------|---|--|---|
| | | generated time of the response before it is cached. | zone in ISO 8601 format. | "2021-02-17T11:27:24+08:00" |
| data | Object | An array of object of the data requested. Each object is data of a route. | <p>The object consists of the following fields:</p> <ul style="list-style-type: none"> • route_id • route_name_en • route_name_tc • route_name_sc • origin_en • origin_tc • origin_sc • destination_en • destination_tc • destination_sc | <pre>"data": [{ "route_id": "0", "route_name_en": "Central<=>Yung Shue Wan", "route_name_tc": "中環往 來榕樹灣", "route_name_sc": "中环往 来榕树湾", "origin_en": "Central", "origin_tc": "中環", "origin_sc": "中环", "destination_en": "Sok Kwu Wan", "destination_tc": "索罟灣", "destination_sc": "索罟湾" }...]</pre> |

| | | | | |
|----------------|--------|--|--|---|
| route_id | String | The ID of the route. | | "route_id": "1" |
| route_name_en | String | The name of the route in English | | "route_name_en": "Central<=> Sok Kwu Wan " |
| route_name_tc | String | The name of the route in Traditional Chinese | | "route_name_tc": "中環往來 索罟灣" |
| route_name_sc | String | The name of the route in Simplified Chinese | | "route_name_sc": "中环往来 索罟湾" |
| origin_en | String | The name of the route origin in English | | "origin_en": "Central" |
| origin_tc | String | The name of the route origin in Traditional Chinese | | "origin_tc": "中環" |
| origin_sc | String | The name of the route origin in Simplified Chinese | | "origin_sc": "中环" |
| destination_en | String | The name of the route destination in English | | "destination_en": "Sok Kwu Wan" |
| destination_tc | String | The name of the route destination in Traditional Chinese | | "destination_tc": "索罟灣" |
| destination_sc | String | The name of the route destination in Simplified Chinese | | "destination_sc": "索罟湾" |

2.3 Timetable

| Data Field | Description | Example |
|-------------------------------------|--|--|
| route_id | The ID of the route. | 1 |
| direction | The direction of the route. | Inbound |
| origin_en | The origin of the route in English. | Central |
| 出發碼頭 | The origin of the route in Traditional Chinese. | 中環 |
| 出发码头 | The origin of the route in Simplified Chinese. | 中环 |
| destination_en | The destination of the route in English. | Sok Kwu Wan |
| 目的地碼頭 | The destination of the route in Traditional Chinese. | 索罟灣 |
| 目的地码头 | The destination of the route in Simplified Chinese. | 索罟湾 |
| remarks_en | Remark of the timetable in English. | ^ Last sailing and no freight service; @ Optional Service |
| 附註 | Remark of the timetable in Traditional Chinese. | ^尾班船及不設載貨服務;@必要時加班服務 |
| 附注 | Remark of the timetable in Simplified Chinese. | ^尾班船及不設載貨服務;@必要時加班服務 |
| Monday to Saturday/星期一至星期六 | The session time list for Monday to Saturday | ["07:20", "08:35", "10:20", "11:50", "13:50", "15:20", "16:50", "18:45", "20:20", "21:50", "23:30"] |
| Sunday and Public Holidays/星期日及公眾假期 | The session time list for Sunday and Public Holidays | ["07:20", "08:35", "10:20", "11:50", "12:50", "13:50", "14:35", "15:20", "16:05", "16:50", "17:35", "18:45", "19:20", "20:20", "21:50", "23:30"] |

2.4 ETA

| Data Field | Data Type | Description | Definition | Example |
|------------|-----------|-------------|------------|---------|
|------------|-----------|-------------|------------|---------|

| | | | | |
|---------------------|--------|---|---|--|
| type | String | The corresponding API that returns the data. | The value will always be “ETA” | "type": "ETA" |
| version | String | The version number of the JSON returned | The version number in major and minor versioning format. | "version": "1.1" |
| 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. | "ETA": "2022-09-19T12:49:00+08:00" |
| data | Object | An array of object of the data requested. Each object is data of the type of eta. | The object consists of the following fields: <ul style="list-style-type: none"> • route_id • direction • date • session_time • eta | "data": [<pre>{ "route_id": 3, "direction": "inbound", "date": "2022-09-19", "session_time": "12:15:00", "ETA": "2022-09-19T12:49:00+08:00" }</pre> |
| route_id | String | The ID of the route. | | "route_id": 3 |
| direction | String | The direction of the route | | "direction": "inbound" |
| date | String | The date of the session | | "date": "2022-09-19" |
| session_time | String | The session time of the session | | "session_time": "12:15:00" |
| ETA | String | ETA of the session | | "ETA": "2022-09-19T12:49:00+08:00" |

2.5 Fare Table

| Data Field | Description | Example |
|------------|-------------|---------|
|------------|-------------|---------|

| | | |
|----------------------------|---|--|
| type | The ticket type of the ferry service. | Ticket include: <ul style="list-style-type: none"> - monthly_ticket - student_monthly_ticket - multi_ride_ticket - adult - adult(fast ferry) - child - child(fast ferry) - elderly - elderly(fast ferry) - child under 3 - child under 3 (fast ferry) |
| Monday to Saturday | The price of the ticket type on Monday to Saturday. | 23.1 |
| Sunday and Public Holidays | The price of the ticket type on Sunday and Public Holidays. | 32.5 |