

# **Data Dictionary for Next Train API**

**Version 1.5  
19 July 2023**

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| Version | Details of Change                                                  | Effective Date   |
|---------|--------------------------------------------------------------------|------------------|
| 1.0     | Initial Release.                                                   | 18 July, 2019    |
| 1.1     | Added Tuen Ma Line (TML)                                           | 27 June, 2021    |
| 1.2     | - Added East Rail Line (EAL)<br>- Added fields for returned result | 15 May, 2022     |
| 1.3     | Added South Island Line (SIL)                                      | 30 January, 2023 |
| 1.4     | Added Tsuen Wan Line (TWL)                                         | 17 April, 2023   |
| 1.5     | Added Island Line (ISL)                                            | 19 July, 2023    |

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**1. Description and requirement of required variables**

The following table shows the required variables when using the API. Valid result will be returned only if the combination of parameter 1(line) and parameter 2(sta) is correct.

| Parameter 1 (line) | Description     | Parameter 2 (sta) | Description        |
|--------------------|-----------------|-------------------|--------------------|
| <b>AEL</b>         | Airport Express | <b>HOK</b>        | Hong Kong          |
|                    |                 | <b>KOW</b>        | Kowloon            |
|                    |                 | <b>TSY</b>        | Tsing Yi           |
|                    |                 | <b>AIR</b>        | Airport            |
|                    |                 | <b>AWE</b>        | AsiaWorld Expo     |
| <b>TCL</b>         | Tung Chung Line | <b>HOK</b>        | Hong Kong          |
|                    |                 | <b>KOW</b>        | Kowloon            |
|                    |                 | <b>OLY</b>        | Olympic            |
|                    |                 | <b>NAC</b>        | Nam Cheong         |
|                    |                 | <b>LAK</b>        | Lai King           |
|                    |                 | <b>TSY</b>        | Tsing Yi           |
|                    |                 | <b>SUN</b>        | Sunny Bay          |
|                    |                 | <b>TUC</b>        | Tung Chung         |
| <b>TML</b>         | Tuen Ma Line    | <b>WKS</b>        | Wu Kai Sha         |
|                    |                 | <b>MOS</b>        | Ma On Shan         |
|                    |                 | <b>HEO</b>        | Heng On            |
|                    |                 | <b>TSH</b>        | Tai Shui Hang      |
|                    |                 | <b>SHM</b>        | Shek Mun           |
|                    |                 | <b>CIO</b>        | City One           |
|                    |                 | <b>STW</b>        | Sha Tin Wai        |
|                    |                 | <b>CKT</b>        | Che Kung Temple    |
|                    |                 | <b>TAW</b>        | Tai Wai            |
|                    |                 | <b>HIK</b>        | Hin Keng           |
|                    |                 | <b>DIH</b>        | Diamond Hill       |
|                    |                 | <b>KAT</b>        | Kai Tak            |
|                    |                 | <b>SUW</b>        | Sung Wong Toi      |
|                    |                 | <b>TKW</b>        | To Kwa Wan         |
|                    |                 | <b>HOM</b>        | Ho Man Tin         |
|                    |                 | <b>HUH</b>        | Hung Hom           |
|                    |                 | <b>ETS</b>        | East Tsim Sha Tsui |
|                    |                 | <b>AUS</b>        | Austin             |
|                    |                 | <b>NAC</b>        | Nam Cheong         |
|                    |                 | <b>MEF</b>        | Mei Foo            |
|                    |                 | <b>TWW</b>        | Tsuen Wan West     |
|                    |                 | <b>KSR</b>        | Kam Sheung Road    |
|                    |                 | <b>YUL</b>        | Yuen Long          |
|                    |                 | <b>LOP</b>        | Long Ping          |
|                    |                 | <b>TIS</b>        | Tin Shui Wai       |
|                    |                 | <b>SIH</b>        | Siu Hong           |
|                    |                 | <b>TUM</b>        | Tuen Mun           |

| Parameter 1 (line) | Description        | Parameter 2 (sta) | Description           |
|--------------------|--------------------|-------------------|-----------------------|
| TKL                | Tseung Kwan O Line | <i>NOP</i>        | North Point           |
|                    |                    | <i>QUB</i>        | Quarry Bay            |
|                    |                    | <i>YAT</i>        | Yau Tong              |
|                    |                    | <i>TIK</i>        | Tiu Keng Leng         |
|                    |                    | <i>TKO</i>        | Tseung Kwan O         |
|                    |                    | <i>LHP</i>        | LOHAS Park            |
|                    |                    | <i>HAH</i>        | Hang Hau              |
|                    |                    | <i>POA</i>        | Po Lam                |
| EAL                | East Rail Line     | <i>ADM</i>        | Admiralty             |
|                    |                    | <i>EXC</i>        | Exhibition Centre     |
|                    |                    | <i>HUH</i>        | Hung Hom              |
|                    |                    | <i>MKK</i>        | Mong Kok East         |
|                    |                    | <i>KOT</i>        | Kowloon Tong          |
|                    |                    | <i>TAW</i>        | Tai Wai               |
|                    |                    | <i>SHT</i>        | Sha Tin               |
|                    |                    | <i>FOT</i>        | Fo Tan                |
|                    |                    | <i>RAC</i>        | Racecourse            |
|                    |                    | <i>UNI</i>        | University            |
|                    |                    | <i>TAP</i>        | Tai Po Market         |
|                    |                    | <i>TWO</i>        | Tai Wo                |
|                    |                    | <i>FAN</i>        | Fanling               |
|                    |                    | <i>SHS</i>        | Sheung Shui           |
|                    |                    | <i>LOW</i>        | Lo Wu                 |
|                    |                    | <i>LMC</i>        | Lok Ma Chau           |
| SIL                | South Island Line  | <i>ADM</i>        | Admiralty             |
|                    |                    | <i>OCP</i>        | Ocean Park            |
|                    |                    | <i>WCH</i>        | Wong Chuk Hang        |
|                    |                    | <i>LET</i>        | Lei Tung              |
|                    |                    | <i>SOH</i>        | <i>South Horizons</i> |
| TWL                | Tsuen Wan Line     | <i>CEN</i>        | Central               |
|                    |                    | <i>ADM</i>        | Admiralty             |
|                    |                    | <i>TST</i>        | Tsim Sha Tsui         |
|                    |                    | <i>JOR</i>        | Jordan                |
|                    |                    | <i>YMT</i>        | Yau Ma Tei            |
|                    |                    | <i>MOK</i>        | Mong Kok              |
|                    |                    | <i>PRE</i>        | Price Edward          |
|                    |                    | <i>SSP</i>        | Sham Shui Po          |
|                    |                    | <i>CSW</i>        | Cheung Sha Wan        |
|                    |                    | <i>LCK</i>        | Lai Chi Kok           |
|                    |                    | <i>MEF</i>        | Mei Foo               |
|                    |                    | <i>LAK</i>        | Lai King              |
|                    |                    | <i>KWF</i>        | Kwai Fong             |

| Parameter 1 (line) | Description | Parameter 2 (sta) | Description   |
|--------------------|-------------|-------------------|---------------|
|                    |             | <i>KWH</i>        | Kwai Hing     |
|                    |             | <i>TWH</i>        | Tai Wo Hau    |
|                    |             | <i>TSW</i>        | Tsuen Wan     |
|                    |             |                   |               |
| ISL                | Island Line | <i>KET</i>        | Kennedy Town  |
|                    |             | <i>HKU</i>        | HKU           |
|                    |             | <i>SYP</i>        | Sai Ying Pun  |
|                    |             | <i>SHW</i>        | Sheung Wan    |
|                    |             | <i>CEN</i>        | Central       |
|                    |             | <i>ADM</i>        | Admiralty     |
|                    |             | <i>WAC</i>        | Wan Chai      |
|                    |             | <i>CAB</i>        | Causeway Bay  |
|                    |             | <i>TIH</i>        | Tin Hau       |
|                    |             | <i>FOH</i>        | Fortress Hill |
|                    |             | <i>NOP</i>        | North Point   |
|                    |             | <i>QUB</i>        | Quarry Bay    |
|                    |             | <i>TAK</i>        | Tai Koo       |
|                    |             | <i>SWH</i>        | Sai Wan Ho    |
|                    |             | <i>SKW</i>        | Shau Kei Wan  |
|                    |             | <i>HFC</i>        | Heng Fa Chuen |
|                    |             | <i>CHW</i>        | Chai Wan      |

The following table shows the optional variable, *lang*, which specify the language of the returned result. The default language is English.

| Parameter 3 ( <i>lang</i> ) - <i>Optional</i> | Description         |
|-----------------------------------------------|---------------------|
| <i>EN</i>                                     | English (Default)   |
| <i>TC</i>                                     | Traditional Chinese |

## 2. Description of returned result

The returned result is in JSON format. The data type and description of returned data is listed in below table.

| Name of JSON data                                                            | Data Type                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status                                                                       | Numbers                                                                | system status code<br><br>value:<br>"1" = normal<br>"0" = error or alert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| message                                                                      | Strings                                                                | Alert message                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| url (optional)                                                               | Strings                                                                | URL for Special Train Services Arrangement case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| curr_time                                                                    | Strings, 19 digits alphanumeric in the format of "yyyy-MM-dd HH:mm:ss" | Current date and time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| sys_time                                                                     | Strings                                                                | System date and time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isdelay (optional)                                                           | Strings                                                                | Indicate if the train is delayed.<br><br>Value:<br>"Y" = train is delayed<br>"N" = train is running on time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>The below describes the key information within the data array format.</i> |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UP/DOWN                                                                      | Array format                                                           | <p>Indicate the destinations of the train in the specific line.</p> <p><u>AEL (Airport Express)</u><br/>UP: AIR (Airport) /<br/>    AWE (AsiaWorld Expo)<br/>DOWN: HOK (Hong Kong)</p> <p><u>TCL (Tung Chung Line)</u><br/>UP: TUC (Tung Chung)<br/>DOWN: HOK (Hong Kong)</p> <p><u>TML (Tuen Ma Line)</u><br/>UP: TUM (Tuen Mun)<br/>DOWN: WKS (Wu Kai Sha)</p> <p><u>TKL (Tseung Kwan O Line)</u><br/>UP: POA (Po Lam) /<br/>    LHP (LOHAS Park)<br/>DOWN: TIK (Tiu Keng Leng) /<br/>    NOP (North Point)</p> <p><u>EAL (East Rail Line)</u><br/>UP: LMC (Lok Ma Chau) /<br/>    LOW (Lo Wu) /<br/>    SHS (Sheung Shui) /<br/>    TAP (Tai Po Market) /<br/>    RAC (Racecourse) /<br/>    FOT (Fo Tan) /<br/>    SHT (Sha Tin)<br/>DOWN: ADM (Admiralty) /<br/>    HUH (Hung Hom) /<br/>    MKK (Mong Kok East)</p> <p><u>SIL (South Island Line)</u><br/>UP: SOH (South Horizons)<br/>DOWN: ADM (Admiralty)</p> <p><u>TWL (Tsuen Wan Line)</u><br/>UP: TSW (Tsuen Wan)</p> |

| Name of JSON data   | Data Type                                                              | Description                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                                        | <p>DOWN: CEN (Central)</p> <p><u>ISL (Island Line)</u></p> <p>UP: CHW (Chai Wan)</p> <p>DOWN: KET (Kennedy Town)</p>                                                                                 |
| ttnt                | Dummy                                                                  | N/A                                                                                                                                                                                                  |
| valid               | Dummy                                                                  | N/A                                                                                                                                                                                                  |
| plat                | Numbers                                                                | Platform numbers for the departure / arrival train                                                                                                                                                   |
| time                | Strings, 19 digits alphanumeric in the format of "yyyy-MM-dd HH:mm:ss" | Estimated arrival time (or departure time) of the train                                                                                                                                              |
| source              | Dummy                                                                  | N/A                                                                                                                                                                                                  |
| dest                | Strings, 3 characters                                                  | MTR Station Code in capital letters                                                                                                                                                                  |
| seq                 | Numbers                                                                | <p>The sequence of the 4 upcoming trains.</p> <p>Value:<br/>1,2,3,4</p>                                                                                                                              |
| timetype (optional) | Strings, 1 character                                                   | <p>Special field apply for EAL only.</p> <p>Indicate the train is arrive or depart from the station.</p> <p>Value:<br/>"A" = Arrival<br/>"D" = Departure</p>                                         |
| route (optional)    | Strings                                                                | <p>Special field apply for EAL only.</p> <p>Indicate the train to destination via Racecourse station instead of Fo Tan station.</p> <p>Value:<br/>"" = Normal<br/>"RAC" = Via Racecourse station</p> |