



**Application Programming Interface (API)
at EC-Ship System
for System Integration on HKPost Mail Tracking**

Version: 1.0

Last Updated : 11 April 2024

Amendment History

| Version | Amendment Date | Description | Author / Updated By |
|----------------|-----------------------|--------------------|----------------------------|
| 1.0 | April 2024 | Release Version | CW Lai |
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1. HKPost Mail Tracking Web Services URL

The Hongkong Post Mail Tracking API service is provided by the EC-Ship API platform, the production URL is shown as follow:

Production Site URL: <https://partner.hongkongpost.hk/mailTrackingAPI/>

Note1: Request limit per day: 100,000 (Please contact Hong Kong Post if special arrangement is required)

Note2: The frequency of request: 100ms, system will refuse the request if frequency of request exceed the limit. Please group the tracking item into one request as possible.

2. EC-Ship Web Services Overview

API Doc URL: <https://partner.hongkongpost.hk/mailTrackingAPI/swagger-ui/index.html>

| Web Services | Operations | Usage |
|--------------|---|--------------------------------|
| Tracking | POST /api/version/1/mailTracking | Retrieve item tracking details |
| Common | POST /api/authenticate | Get token for access |

3. HKPost Mail Tracking Web Services Authentication

Authentication key is required to call EC-Ship API. The credential is provided registered EC-Ship API users. Token must be get from authentication API, and included in your request Header as specified in EC-Ship API. Without this information, your API request will be rejected.

Example

| Basic Information | |
|--------------------|-----------------------|
| API Username : | api_demo_account |
| Registered Email : | ecship_test@email.gov |

| Testing Site | |
|--|--|
| Test Key : | 9546d6a3-bef9-409f-b985-c39655a1c3a1 |
| Permit Account For Bulk Posting API : | PM-60000-0 |
| Permit Account For (iMail) Posting API : | PT-60000-0 |
| Site URL - Web Service (SOAP): : | https://service.hongkongpost.hk/API-trial/services |
| Site URL - Web Service (RESTful): : | https://service.hongkongpost.hk/ecshipAPI-trial |
| Testing User : | tapi_demo_account |

Credential information is included in Header as follows:

1. User should get token as follow; the token is valid for 15 minutes.

POST /api/authenticate

Request

| Parameter | Data Type | Length Constraint (byte) | Mandatory | Remark |
|-----------|-----------|--------------------------|-----------|--------------|
| sysId | String | 20 | Y | API Username |
| sysSecret | String | 36 | Y | Access Key |

Response

| Parameter | Data Type | Description |
|-----------|-----------|----------------------------|
| id_token | String | Token of access API |
| expiry | Integer | Unix timestamps in seconds |

2. Access API with Bearer HTTP authentication as described at w3.org.
i.e. **Authorization: Bearer <id_token returned>**

4. HKPost Mail Tracking API – Track and Trace mail item delivery status

User should call this request to send the item numbers (also known as tracking numbers) to Hongkong Post system. The system will return the mail items’ delivery status

POST /api/version/1/mailTracking

Request

| Parameter | Data Type | Length Constraint (byte) | Mandatory | Remark |
|------------------------------------|-----------|-----------------------------|-----------|---|
| lang | String | 1 | Y | Language code A' - English, Traditional Chinese and Simplified Chinese message will be returned 'E' - Only English message will be returned 'C' - Only Traditional Chinese message will be returned 'S' - Only Simplified Chinese message will be returned In case language code “E”, “C”, “S” is received, values of other languages will be returned as empty value. |
| An array of Item No (max 30 items) | | | | |
| itemNo | String | 13 | Y | Mail item tracking number (E.g. RB000000010HK) |

Response

| Parameter | Data Type | Description | Example |
|--|-----------|--|--------------------------|
| status | Number | Reference to Appendix A | 0 |
| errMsg | String | Error message | |
| itemCount | Number | No. of message returned | 30 |
| An array of Delivery Result (max 30 items) | | | |
| deliveryResultList | | | |
| itemNo | String | Mail item tracking number | RB000000010HK |
| status | Number | Reference to Appendix A | 0 |
| errMsg | String | Error message | |
| postingDateTime | String | The posting date and time of the item in DD-MM-YYYY HH24:MI | 27-02-2017 16:00 |
| dropOffPoint_e | String | Drop-off Point in English | Queen's Road Post Office |
| dropOffPoint_c | String | Drop-off Point in Traditional Chinese | 皇后大道郵政局 |
| dropOffPoint_s | String | Drop-off Point in Simplified Chinese | 皇后大道郵政局 |
| orgCnty_code | String | Original country code Reference to Appendix B | HK |
| orgCnty_e | String | Original in English | HONG KONG |
| orgCnty_c | String | Original in Traditional Chinese | 香港 |
| orgCnty_s | String | Original in Simplified Chinese | 香港 |
| destCnty_code | String | Destination country code Reference to Appendix B | HK |
| destCnty_e | String | Destination in English | HONG KONG |
| destCnty_c | String | Destination in Traditional Chinese | 香港 |
| destCnty_s | String | Destination in Simplified Chinese | 香港 |
| milestone_e | String | Milestone description in English | Delivered |
| milestone_c | String | Milestone description in Traditional Chinese | 已成功派遞 |
| milestone_s | String | Milestone description in Simplified Chinese | 已成功派遞 |
| Event Detail (A list of event history) | | | |
| itemDeliveryStatusDetailList | | | |
| eventDateTime | String | The event date and time (In the time zone of the location) in DD-MM-YYYY HH24:MI | 01-03-2017 11:00 |
| eventLocation_code | String | The location country code | HK |
| eventLocation_e | String | The location of the event in English | HONG KONG |
| eventLocation_c | String | The location of the event in Traditional Chinese | 香港 |
| eventLocation_s | String | The location of the event in Simplified Chinese | 香港 |
| eventMsg_e | String | The message of the event in English | Delivered |
| eventMsg_c | String | The message of the event in Traditional Chinese | 成功派遞 |
| eventMsg_s | String | The message of the event in Simplified Chinese | 成功派遞 |

5. Appendix A – Status Code and Error Message

| Status Code | Meaning |
|-------------|----------------------------------|
| 0 | Success |
| 1001 | item number does not exist |
| 1002 | Invalid item number format |
| 1003 | Tracking period has been expired |
| 1004 | Item no not allowed to enquiry |
| 9991 | Exceed API request frequency |
| 9992 | Invalid Credential |
| 9993 | Invalid API format |
| 9994 | Exceed API request limit |
| 9995 | Exceed the max. enquiry items |
| 9996 | Invalid Language |
| 9997 | Empty item number array |
| 9998 | Invalid input |
| 9999 | Service temporary unavailable |