



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

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Amendment History

Version	Amendment Date	Description	Author / Updated By
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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)					
	itemNos	String	13	Y	Mail item tracking number (E.g. RB0000000010HK)

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