

eSIM Station Integration Guide

0. Overview

This document provides guidelines for integrating with the eSIM Station API.

Integration Flow

1. Obtain Access Token
2. Create Order
 - Synchronous → eSIM returned immediately
 - Asynchronous → eSIM delivered via Callback
3. Store eSIM information and deliver to customer
4. (Optional) Check eSIM status via Usage API

1. Credential & Security Policy

Credential Delivery

- APP ID / APP SECRET / Admin credentials are **NOT included in this document**.
- These credentials are delivered securely via a separate channel.

Security Policy

- Never expose APP ID and SECRET in client-side code.
- Rotate credentials if leakage is suspected.
- Use secure storage (Vault, Secret Manager, etc.)

Environment

- A single environment is provided.
- Test products are issued first for integration testing.
- After successful integration, production products are enabled for the account.
- Same credentials and API endpoints are used throughout the process.

2. API Authentication

Our system utilizes an **Access Token** method for partner authentication. To call the API, you must first obtain an Access Token using the **APP ID** and **APP SECRET** created for your partnership. The obtained Token must then be included in the **Request Header** for validation upon every API call.

Get Access Token

POST `/external/partner/v1/auth/authorize`

Headers

JSON

```
{
  "Accept": "application/json",
  "X-APP-ID": "your_app_id",
  "X-APP-SECRET": "your_app_secret"
}
```

To request an Access Token, include the APP_ID provided to the affiliate in the **X-APP-ID** header and the APP_SECRET in the **X-APP-SECRET** header. Upon successful validation of these credentials, an Access Token will be issued.

The issued Access Token is valid for **6 hours** and can be requested multiple times.

Note: The values for **X-APP-ID** and **X-APP-SECRET** shown above are examples. You must use the actual credentials provided to your company. Using the example values will result in an authentication failure.

Response

None

```
{
  "code": 2000,
  "message": "OK",
  "metadata": {
    "totalCount": 1
  },
  "data": [
    {
      "accessToken": "access-token-string"
    }
  ]
}
```

The Access Token has an expiration period of 6 hours. If the token expires, you must obtain a new Access Token through the procedure detailed in section 4.1. Calling the API with an invalid or expired token will result in an authentication failure error (HTTP 401 Unauthorized).

Using the Access Token for API Calls (Common Header)

After successfully obtaining the Access Token, you must include it in the **Request Header** for all subsequent API calls in the following format:

Request Header (Example)

JSON

```
{
```

```
"Accept": "application/json",
"X-APP-ID": "your_app_id",
"X-APP-SECRET": "your_app_secret",
"X-APP-AUTHORIZATION": "access-token-string"
}
```

- **X-APP-AUTHORIZATION:** Transmit the obtained `accessToken`.
- **Accept:** This header should be set to `application/json` to indicate that the client expects a JSON response.

3. Create Order API

POST `/external/partner/v1/orders`

Request

```
JSON
{
  "productCode": "ESTA-xxxx",
  "quantity": 1,
  "customerDetails": [],
}
```

customerDetails

- For current integrated products, no customer information is required.
- Always send an empty array(`[]`).
- Some products may require customer information in the future depending on carrier requirements.

4. Order Types

Type	Description	Response
Sync	Most products	eSIM returned immediately.
Async	Some products	Callback required.

5. Response Example

If the order request is successful, the order information along with the eSIM details are returned.

JSON

```
{
  "code": 2000,
  "message": "OK",
  "metadata": {
    "totalCount": 1
  },
  "data": [ {
    "orderCode": "orderCode",
    "externalOrderId": "externalOrderId",
    "isCallbackExist": false,
    "esims": [ {
      "lpaUrl": "LPA activation code",
      "confirmationCode": "confirmation code",
      "iccid": "iccid",
      "imsi": "imsi",
      "msisdn": "msisdn",
      "pin": "pin",
      "puk": "puk",
      "expireAt": "expiry date"
    } ]
  } ]
}
```

Detailed Response Parameters

Parameter	Type	Description
code	Integer ▾	API response code. 2000 on success.
message	String ▾	Response message. OK on success.
orderCode	String ▾	The order code generated by eSIM Station.
externalOrderId	String ▾	The order ID sent by the operators.
isCallbackExist	Boolean ▾	Whether the order is processed asynchronously and eSIM information is delivered via a callback (true requires a callback).
esims	List ▾	List of detailed information for the ordered eSIM products.

iccid	String ▾	eSIM's ICCID.
serialNo	String ▾	eSIM's Serial Number.
imsi	String ▾	IMSI
msisdn	String ▾	MSISDN
lpaUrl	String ▾	URL for eSIM installation (used to generate the QR code).
confirmationCode	String ▾	Confirmation Code required for eSIM installation (applies to some products).
expireAt	String ▾	eSIM expiration date (YYYY-MM-DD format).

The eSIM parameters (ICCID, Serial No, IMSI, MSISDN, Confirmation Code, PIN, PUK) may or may not be provided depending on the specific product. Although we do not provide a flag to distinguish which parameter will be provided for a product, these parameters are always included in the response. When a value is not provided, the parameter will be populated with `null`. It is crucial that all these values are managed by the partner, as they may be provided based on the product type.

Additional Explanation of `isCallbackExist` and Callback Handling

For most products, the `isCallbackExist` value is `false`, and the eSIM information is delivered immediately in the response after the order request.

However, some products require the eSIM information to be delivered asynchronously via a **Callback** after the order request, due to differences in the carrier's API integration method. In this case, the `isCallbackExist` value is set to `true`.

Handling when `isCallbackExist` is `true`:

1. **Web Hook Registration:** The partner must register a **Callback URL** with the eSIM Station system to receive the eSIM information.
2. **Registration Request:** Please request the Callback URL registration through your Account Manager.
3. **Callback Content:** The callback content is separately described in the 4. Callback API section.

Important (LG U+ Voice Activation)

- `externalOrderId` is a critical value for LG U+ products.
- This value represents the Contract Number issued by the carrier (LG U+).
- It is required to activate voice services.

Voice Activation Flow

- After completing immigration procedures in Korea, the customer must visit the LG U+ Entry Verification page.
- The customer must input:
 - Contract Number (`externalOrderId`)
 - Phone Number (`msisdn`)
- Additional verification steps will follow:
 - Passport scan
 - Face verification
- Partners must ensure that both `externalOrderId` and `msisdn` are properly delivered to the customer

6. Callback (Asynchronous Orders)

As explained in the Async Order Guidance section, when an order is processed asynchronously, the eSIM information is delivered to the partner's pre-registered Callback URL via this API.

Flow

- Order request → response with `isCallbackExist = true`
- eSIM delivered via Callback

Requirements

- Must return HTTP 200
- Duplicate callbacks may occur → handle idempotency using `orderCode`

Example

```
None
{
  "orderCode": "orderCode",
  "price": 10,
  "product": {
    "productCode": "productCode",
    "productName": "productName"
  },
  "isCallbackExist": true,
  "esims": [ {
    "lpaUrl": "LPA activation code",
    "confirmationCode": "confirmation code",
    "iccid": "iccid",
    "imsi": "imsi",
    "msisdn": "msisdn",
    "pin": "pin",
    "puk": "puk",
    "expireAt": "expiry date"
  } ]
}
```

Detailed Callback Parameters

Parameter	Type	Description
orderCode	String	The order code generated by eSIM Station.
isCallbackExist	Boolean	Always true in the callback.
esims	List	List of detailed information for the ordered eSIM products.
iccid	String	eSIM's ICCID.
serialNo	String	eSIM's Serial Number.
imsi	String	IMSI
msisdn	String	MSISDN
lpaUrl	String	URL for eSIM installation (used to generate the QR code).
confirmationCode	String	Confirmation Code required for eSIM installation (applies to some products).
expireAt	String	eSIM expiration date (YYYY-MM-DD format).

7. Usage API

This API is used to check the status of a purchased eSIM.

- **Scope and Limitation:** This functionality is not available for all products. It is limited only to products for which the carrier provides the relevant status information.
- **Verification:** You can confirm if a specific product is eligible for status checking by contacting your Account Manager.

GET `/external/partner/v1/usages`

Request Parameter

One of the following parameters must be optionally passed to identify the eSIM you wish to query: `iccid`, `serialNo`, `barcode`, or `msisdn`.

Parameter	Type	Description
iccid	String ▾	ICCID of the SIM
serialNo	String ▾	Serial number of the SIM
barcode	String ▾	Barcode of the SIM

msisdn	String ▾	MSISDN of the SIM
--------	----------	-------------------

Response Body

```
JSON
{
  "code": 2000,
  "message": "OK",
  "metadata": {
    "totalCount": 1
  },
  "data": [
    {
      "line": {
        "iccid": "iccid",
        "msisdn": "msisdn",
        "lineStatus": "ACTIVATED",
        "imei": "imei",
        "kycStatus": [
          {
            "mcc": "mcc",
            "name": "name",
            "docType": "PASSPORT",
            "docExpDate": "2025-01-01",
            "status": "CERTIFIED"
          }
        ]
      },
      "esim": {
        "profileStatus": "ENABLED",
        "installedAt": "2024-01-01",
        "eid": "eid",
        "deviceModel": "deviceModel",
        "lastChangedAt": "2024-01-10"
      },
      "package": {
        "packageStatus": "INUSE",
        "toppedUpAt": "2024-01-01",
        "activationDeadlineAt": "2024-01-20",
        "activatedAt": "2024-01-15",
        "expiresAt": "2024-02-15",
        "packageName": "packageName",
        "packageCode": "packageCode"
      },
      "usage": {
        "type": "DAILY_RESET",
        "unit": "MB",
        "totalMb": "4096",
        "usedMb": "1024.5",
        "history": [
          {
```

```
        "date": "2024-01-15",
        "usedMb": "100.5"
      },
      {
        "date": "2024-01-16",
        "usedMb": "924"
      }
    ]
  }
}
```

Detailed Response Parameters

Parameter	Type	Description
code	Integer	API response code. 2000 on success.
message	String	Response message. "OK" on success.
metadata	Object	Meta information (currently includes totalCount).
data	List	List of detailed information for the queried eSIM.
line	Object	Information related to the eSIM/SIM line.
iccid	String	ICCID of the eSIM.
msisdn	String	Phone number of the line (MSISDN).
lineStatus	String	Status of the line (e.g., ACTIVATED, DEACTIVATED, SUSPENDED).
imei	String	IMEI of the device currently in use (if provided).
kycStatus	List	Customer Know Your Customer (KYC) verification information (if required).
kycStatus.mcc	String	Mobile Country Code.
kycStatus.name	String	Name registered for KYC.
kycStatus.docType	String	Type of identification document (e.g., PASSPORT).
kycStatus.docExpDate	String	Identification document expiration date (YYYY-MM-DD).
kycStatus.status	String	KYC verification status (e.g., CERTIFIED, PENDING).
esim	Object	Information related to the eSIM profile.
profileStatus	String	eSIM profile status (e.g., ENABLED, DISABLED).

Parameter	Type	Description
installedAt	String	Time the eSIM was installed on the device (YYYY-MM-DD).
eid	String	EID of the eSIM device (if provided).
deviceModel	String	Model of the device where the eSIM is installed (if provided).
lastChangedAt	String	Time of the last status change (YYYY-MM-DD).
package	Object	Information related to the purchased product (package).
packageStatus	String	Package status (e.g., INUSE, EXPIRED, TOPPEDUP).
toppedUpAt	String	Time the product was topped up (YYYY-MM-DD).
activationDeadlineAt	String	Activation deadline (YYYY-MM-DD).
activatedAt	String	Time the product was actually activated (YYYY-MM-DD).
expiresAt	String	Product expiration time (YYYY-MM-DD).
packageName	String	Product name.
packageCode	String	Product code.
usage	Object	Data usage information (if provided).
type	String	Usage calculation type (e.g., DAILY_RESET, TOTAL).
unit	String	Unit of usage (e.g., MB).
totalMb	String	Total provided data capacity (MB).
usedMb	String	Data capacity used so far (MB).
history	List	Daily/period usage history.
history.date	String	Date of usage (YYYY-MM-DD).
history.usedMb	String	Usage on that date (MB).

8. Test Products

We provide a small amount of deposit and test products to your account for testing during the API integration process.

Synchronous Order (Most Products)

Parameter	Value
Product Code	ESTA-1718974835984-7009
Product Name	Test Product - General eSIM

Parameter	Value
API Type	Synchronous
Customer Data	None

Request Body Example:

```
None
{
  "productCode": "ESTA-1718974835984-7009",
  "quantity": 1,
  "customerDetails": []
}
```

Asynchronous Order

Parameter	Value
Product Code	ESTA-1756618269450-2825
Product Name	[TEST] Japan KDDI(au) 5G Unlimited 4 days
API Type	Asynchronous
Customer Data	None
Callback Check	If the Order API response parameter <code>isCallbackExist</code> is <code>true</code> , the eSIM information will be delivered via Callback.

The products listed above are strictly for integration testing purposes. They are provided to help you verify your system's integration with our APIs, including Authorization, Create Order (Synchronous and Asynchronous), and Callback handling.

Upon successful completion of your integration development, please contact your **Account Manager** to request that the actual contracted products be linked to your account for commercial use. Using these test product codes for actual orders is strictly prohibited.

9. LG U+ Specific Notes

This product is subject to KYC (passport information) requirements based on carrier policy. However, due to a recent policy change:

- Customer passport information is no longer required at the order stage
- But the carrier API still requires these fields to be included in the request

Important Notice

- Passport fields must still be included in the request
- Dummy data can be used for these fields
- Orders will be processed successfully as long as required fields are present

Request Example:

JSON

```
{
  "productCode": "ESTA-1724386520424-9066",
  "quantity": 1,
  "activationDate": "2026-04-06",
  "customerDetails": [{
    "passportNumber": "DUMMY1234",
    "passportName": "Partner Name",
    "passportBirthdate": "20010101",
    "passportCountry": "ETC",
    "passportGender": "MALE"
  }]
}
```

Notes

- activationDate: The date the order is created (YYYY-MM-DD) → Must be set to the current date at the time of request
- Dummy values are acceptable.
- LG U+ products must be ordered one at a time (quantity = 1)
 - Although the carrier allows up to 3 per order, issues have been observed when ordering multiple quantities
 - To avoid potential errors, single-quantity orders are strongly recommended

LG U+ Sandbox Product

Parameter	Value
Product Code	ESTA-1724386520424-9066
Product Name	LG U+ Unlimited Date eSIM 3 days
API Type	Synchronous
Customer Data	Refer to the example