

## eSIM Access API

### Partner API

- Deliver eSIM data plan packages via the eSIM Access HTTP API. Step by step overview.

### Quick Start

1. Create an account at eSIM Access
2. Deposit funds for testing and refunding
3. Copy your AccessCode
4. Add your AccessCode below and run in your terminal or powershell to make your first API call

bash

```
curl --location --request POST 'https://api.esimaccess.com/api/v1/open/balance/query'  
--header 'RT-AccessCode: YOUR_ACCESS_CODE'  
--data "
```

powershell

```
curl -Uri "https://api.esimaccess.com/api/v1/open/balance/query" `  
-Method POST `  
-Headers @>{"RT-AccessCode"="YOUR_ACCESS_CODE"} `  
-Body ""
```

### Version - V1

Version 1 - OCT 11, 2022 - Initial Release

Version 1.1 - JUN 6, 2023 - Updates:

- Single Profile ordering changed to batch Profile ordering [via Order Profiles request]
- Offline post-paying changed to online pre-paying [via Order Profiles request]
- esim/list endpoint removed, status function found in esim/query
- Cancel, Suspend, Unsuspend and Revoke functions added
- Country filter added to Query All Data Packages
- Webook for order status checking added

Version 1.2 - JUL 26, 2023 - Updates:

- Added Top Up endpoint for adding data to existing eSIM profiles
- Query available Top Up plans with iccid or packageCode
- Price and amount optional when ordering a profile

Version 1.3 - DEC 12, 2023 - Updates:

- Adds slug as an alias to package code
- Adds additional package data like speed, network, and favorite

Version 1.4 Mar 12, 2024 - Updates:

- Add SMS send to iccid ability
- Adds ability to write webhooks

Version 1.5 July 28, 2024 - Updates:

- Adds daypass plans with periodNum parameter in Order Profiles
- Adds rate limit of 8 requests per second

Version 1.6 Dec 20, 2024 - Updates:

- Adds fields supportTopUpType and ipExport

Update Mar 8, 2025

- Adds additional webhook for low balance now at 25% and 10% remaining
- Adds balance check endpoint with last updated date

Update Mar 19, 2025

- Adds two new endpoints for balance check and current regions

Update May 28, 2025

- Add new webhooks - SMDP\_EVENT which give SM-DP+ server events

Update July 24, 2025

- Top Up packages can be added after esim is created.

## Environments and Endpoints

### Sandbox:

- There is no Sandbox environment. Cancel eSIM orders as needed in our live environment. Request funds for testing.

### Production:

- <https://api.esimaccess.com>

### Image assets:

- <https://static.redteago.com/>

### Authentication

- Request your API keys in your online account.

### Standards

- Time codes are presented in UTC. Country codes use Alpha-2 ISO. Data values are in Bytes.

### Status

- Server status tracked via postman monitors.

### Rate Limit

- 8 API request per second are allowed.

## Error Codes

000001	Server error
000101	Request header (mandatory) is null
000102	Wrong request header format
000103	This https request method (get/post ) is not supported
000104	Request in invalid JSON format
000105	Request parameters (mandatory) are not contained
000106	Request parameter (mandatory) is null
000107	The length of the request parameter does not meet the requirement.
101001	The timestamp of the request has expired.
101002	This IP is in the blocklist.
101003	Request signature mismatch.

200002	This operation is not allowed due to the order status.
200005	Package price error. Check price.
200006	Total order price amount is wrong. Check prices.
200007	Insufficient account balance
200008	Order parameters error, please contact customer service.
200009	Abnormal order status
200010	Profile is being downloaded for the order.
200011	Insufficient available Profiles for the package, please contact the customer service.
310201	The bundle.code does not exist.
310211	The data_plan_location.id does not exist.
310221	The currencyId does not exist.
310231	The carrierId does not exist.
310241	The packageCode does not exist.
310243	The package does not exist.
310251	The vendor does not exist.
310272	The orderNo does not exist.
310403	The ICCID does not exist in the order.
900001	The system is busy, please try again later.

## AUTHORIZATION API Key

Key RT-AccessCode

Value

# API

## Authentication methods

### Key in Header

Use the `AccessCode` as the API key in header authentication method.

### HMAC Signature

HMAC-SHA256 signature calculation (hash-based message authentication code) uses a secret key to generate a unique signature for a message. The signature is then used to verify the authenticity of the message.

#### Request Header Authenticaion

Name	Description
RT-AccessCode	Access Key found in your account, used in signData
RT-RequestID	Request ID with the <code>uuid.v4()</code> method generates a new random UUID (Universally Unique Identifier).
RT-Signature	Signature (HexString) of the request
RT-Timestamp	Request sending timestamp (in milliseconds) as a string
SecretKey	Used in the signature request, found in your account.

#### Calculation by HMAC-SHA256:

- `signData = Timestamp + RequestID + AccessCode + RequestBody`
- `signature = HMACSHA256(signData, SecretCode)`

```
java
```

```
// Concatenate RT-Timestamp, RT-RequestID, RT-AccessCode, and requestBody into one
// string.
// This string, signStr, will be used as the data to hash in the HMAC-SHA256 function.
String signStr = RT-Timestamp + RT-RequestID + RT-AccessCode + requestBody
// Generate an HMAC-SHA256 hash of the signStr using the secretKey.
// The resulting hash is converted to all lowercase characters for standardization
purposes.

sign = HMACSha256(signStr, secretKey).toLowerCase();
```

## Signature Example

### Plain Text

```
Timestamp=1628670421
RequestID=4ce9d9cdac9e4e17b3a2c66c358c1ce2
AccessCode=11111
SecretKey=1111
RequestBody={"imsi":"326543826"}
signStr=16286704214ce9d9cdac9e4e17b3a2c66c358c1ce211111{"imsi":"326543826"}
Signature=7EB765E27DF5373DEA2DBC8C41A7D9557743E46C8054750F3D851B3FD01D0835
```

### AUTHORIZATION API Key

This folder is using API Key from collection [eSIM Access API](#)

## POST Get All Data Packages

<https://api.esimaccess.com/api/v1/open/package/list>

Request a list of all the available data packages offered. Optionally filter by country or region.

Additionaly request all of the Top Up plans available for a specific `packageCode`, `slug` or `ICCID`. Specific top ups work with specific plans. In general, countries can be reloaded with same country top up and region with same region top up.

### Request Parameters

[View More](#)

Name	Type	MOC	Description	Example
<code>locationCode</code>	String	optional	Filter by Alpha-2 ISO Country Code <code>!RG</code> = Regional <code>!GL</code> = Global	<code>JP</code> <code>!GL</code> <code>!RG</code>
<code>type</code>	String	optional	<code>BASE</code> - Default product list <code>TOPUP</code> - Top up product list	<code>BASE</code> <code>TOPUP</code>
<code>packageCode</code>	String	optional	Used with <code>TOPUP</code> to view top up package for a <code>packageCode</code>	<code>JC016</code>
<code>slug</code>	String	optional	<code>slug</code> is alias of <code>packageCode</code>	<code>AU_1_7</code>
<code>iccid</code>	String	optional	Include <code>iccid</code> with <code>TOPUP</code> to see available TOPUP plans	<code>485849847473</code> <code>72838</code>

### Reponse Parameters

Name	Type	MOC	Description	Example
<code>success</code>	String	mandatory	<code>true</code> : succeeded <code>false</code> : failed	<code>true</code>
<code>errorCode</code>	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed.	<code>null</code>

<code>errorMessage</code>	String	optional	Error code explanation	<code>null</code>
<code>obj</code>	Object	optional	<code>null</code> : failed. Success includes: <code>packageList</code>	

[View More](#)

Domain	Type	MOC	Description	Example
<code>packageList</code>	List	mandatory	Available data packages, including: <code>packageCode</code> <code>name</code> <code>price</code> <code>currencyCode</code> <code>volume</code> <code>unusedValidTime</code> <code>duration</code> <code>durationUnit</code> <code>location</code> <code>description</code> <code>activeType</code>	
<code>packageCode</code>	String	mandatory	Package code	<code>JC016</code>
<code>slug</code>	String	mandatory	Package alias	<code>AU_1_7</code>
<code>name</code>	String	mandatory	Package name	<code>Asia 11 countries 1GB 30 Days</code>
<code>price</code>	Integer	mandatory	Package price, value * 10,000 (10000 = \$1.00)	<code>10000</code>
<code>currencyCode</code>	String	mandatory	Currency code	<code>USD</code>
<code>volume</code>	Long	mandatory	Data volume (in bytes) of the package	<code>10485760</code>
<code>smsStatus</code>	Integer	mandatory	<code>0</code> .SMS not supported <code>1</code> .API AND mobile phones SMS delivery <code>2</code> .API SMS delivery only	<code>0</code>

<code>dataType</code>	Integer	mandatory	<code>1</code> .Data in Total <code>2</code> .Daily Limit (Speed Reduced) <code>3</code> .Daily Limit (Service Cut-off) <code>4</code> .Daily Unlimited	<code>1</code>
<code>unusedValidTime</code>	Integer	mandatory	Time till package invalid	<code>30</code>
<code>duration</code>	Integer	mandatory	Plan validity peirod	<code>1</code>
<code>durationUnit</code>	String	mandatory	Time unit, used in <code>unusedValidTime/duration</code>	<code>DAY</code>
<code>location</code>	String	mandatory	Alpha-2 ISO Country Code of package use	<code>CN, HK, ID, JP, MO, MY, PH, SG, KR, TW, TH, IN, VN, SA, KH, PK, LK</code>
<code>description</code>	String	mandatory	Description of the data package	<code>Asia 11 countries</code>
<code>activeType</code>	Integer	mandatory	Activation type: <code>1</code> : First installation. <code>2</code> : First network connection.	<code>1</code>
<code>favorite</code>	Boolean	mandatory	Favorited plan in console	<code>false</code>
<code>retailPrice</code>	Integer	mandatory	Sug. Retail Price	<code>71000</code>
<code>speed</code>	String	mandatory	Network speed	<code>3G/4G</code>
<code>locationNetworkList</code>	Array	mandatory	<code>locationName</code> , <code>locationLogo</code> ,	<code>Spain /img/es.png</code>
<code>operatorList</code>	Array	mandatory	<code>operatorName</code> , <code>networkType</code>	<code>T-Mobile 4G/5G</code>
<code>ipExport</code>	String	mandatory	Data traffic exit country	<code>HK</code>
<code>supportTopUpType</code>	Boolean	mandatory	Top up support <code>1</code> = no <code>2</code> = yes	<code>2</code>

AUTHORIZATION API Key

This request is using API Key from collectioneSIM Access API

#### Body raw (json)

```
json
{
    "locationCode": "",
    "type": "TOPUP",
    "slug": "VN_0.1_7",
    "packageCode": "",
    "iccid": ""
}
```

## POST Order Profiles

<https://api.esimaccess.com/api/v1/open/esim/order>

Order profiles individually or in batch. After successful ordering, the SM-DP+ server will return the `OrderNo` and allocate profiles asynchronously for the order.

### To make an order

1. Provide a unique `transactionId` for each order. Duplicate `transactionId` will be identified as the same request.
2. Provide the `packageCode` or `slug` of the data package(s) you will order.
3. Provide the `count` for each package needed.
4. Optional price check: Provide the `price` and multiply with `count` for the total cost to provide the `amount`.
5. Optional period: For daily plans include the `periodNum` corresponding to the number of days of the plan.

A successful order will generate an `orderNo`. Query all the allocated profiles in the endpoint

`/api/v1/open/esim/query`

### Request Parameters

Name	Type	MOC	Description	Example
<code>transactionId</code>	String	mandatory	User generated unique transaction ID. Max 50 chars, utf8mb4. If the request is retired, it needs to be contained; otherwise, a new transaction will be created.	<code>ABC-210-2s7Fr</code>
<code>amount</code>	Long	optional	Total order amount	<code>20000</code>
<code>packageInfoList</code>	List	mandatory	<code>packageCode</code> or <code>slug</code> , <code>count</code> , <code>price</code>	

Domain	Type	MOC	Description	Example
<code>packageCode</code>	String	mandatory	Order with <code>slug</code> or <code>packageCode</code> (prefer slug)a	<code>AU_1_7JC016</code>
<code>count</code>	Integer	mandatory	Number of packages to be ordered	<code>2</code>

<code>price</code>	Integer	optional	Package price, value * 10,000 (10000 = \$1.00)	<code>10000</code>
<code>periodNum</code>	Integer	optional	Days of a daily plan. From 1-365.	<code>7</code>

## Response Parameters

Name	Type	MOC	Description	Example
<code>success</code>	String	mandatory	<code>true</code> : success <code>false</code> : failed	<code>true</code>
<code>errorCode</code>	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed.	<code>null</code>
<code>errorMessage</code>	String	optional	Error code explanation	<code>null</code>
<code>obj</code>	Object	optional	Includes: <code>orderNo</code>	

Domain	Type	MOC	Description	Example
<code>orderNo</code>	String	mandatory	Order number	<code>B22102010075311</code>

AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

Body raw (json)

```
json
{
    "transactionId": "your_txn_id",
    "amount": 15000,
    "packageInfoList": [
        {
            "packageCode": "7aa948d363",
            "count": 1,
            "price": 15000
        }
    ]
}
```

## POST Query All Allocated Profiles

<https://api.esimaccess.com/api/v1/open/esim/query>

Query all eSIM profiles for both new eSIMs, and in use eSIMs.

## Get New Orders

Query by `orderNo` or `startTime` and `endTime` range with paging options.

Use `orderNo` to request newly ordered eSIM profiles. The response will return the eSIM payload after all the allocated profiles are asynchronously allocated by the server. Expect wait times of up to *30 seconds*. You can *order up to 30 eSIMs in one batch* and all profiles will be returned with `orderNo` results.

If the profiles are not yet ready for download, the error will be returned (error code will be `200010`, meaning SM-DP+ is still allocating profiles for the order).

Use the webhook notification `"notifyType": "ORDER_STATUS"` to inform your first get eSIM request.

`ORDER_STATUS` webhook will trigger when the eSIM profiles have been created and ready for retrieval.

## Get Status of Existing Orders

Use `esimTranNo`, `orderNo`, or `iccid` to request the status of an eSIM including its current `orderUsage` and `eSIMStatus`. Or use `startTime` and `endTime` range. `esimTranNo` and `iccid` will return a *single eSIM*, while `orderNo` will return the *batch order of eSIMs*.

*Important Note: The value of `orderUsage` is updated within 2-3 hours after eSIM is in use.*

*Note: iccids are resued, thus the suggested method of eSIM status check is via `esimTranNo`.*

*Note: Rate limiting limits to 8 requests per second.*

## Understanding eSIM Profile Status

Results of several parameters can identify the current state of any eSIM profile. For example:

eSIM Status	smdpStatus	esimStatus	orderUsage	eid
New	RELEASED	GOT_RESOURCE	0	" "
Onboard	ENABLED	IN_USE GOT_RESOURCE	0	"890...222"
In Use	ENABLED DISABLED	IN_USE	123	"890...222"

Depleted	<code>ENABLED</code> <code>DISABLED</code>	<code>USED_UP</code>	999	"890...222"
Deleted	<code>DELETED</code>	<code>USED_UP</code> <code>IN_USE</code>	999	"890...222"

### Request Parameters

Name	Type	MOC	Description	Example
<code>orderNo</code>	String	optional	Order number	B22102063819 24
<code>iccid</code>	String	optional	eSIM ICCID	898522462800 01113119
<code>startTime</code>	String	optional	Starting time (ISO UTC time)	2010-06-30T0 1:20+00:00
<code>endTime</code>	String	optional	End time (ISO UTC time)	2010-06-30T0 2:20+00:00
<code>pager</code>	PageParam	mandatory	Page parameters: <code>pageSize</code> <code>pageNum</code>	

Domain	Type	MOC	Description	Example
<code>pageSize</code>	Integer	mandatory	Page size, value range: [5, 500]	10
<code>pageNum</code>	Integer	mandatory	Page number, value range: [1, 10000]	1

### Response Parameters

Name	Type	MOC	Description	Example
<code>success</code>	String	mandatory	<code>true</code> : succeeded <code>false</code> : failed	<code>true</code>
<code>errorCode</code>	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed	<code>null</code>
<code>errorMessage</code>	String	optional	Explanation of the error code	<code>null</code>

<code>obj</code>	Object	optional	Includes: <code>esimList</code> <code>pager</code>	
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[View More](#)

Domain	Type	MOC	Description	Example
<code>pager</code>	PageParam	mandatory	Includes: <code>pageSize</code> <code>pageNum</code>	
<code>esimList</code>	List	mandatory	List of eSIM Profiles, including: <code>esimTranNo</code> <code>orderNo</code> <code>imsi</code> <code>iccid</code> <code>ac</code> <code>qrCodeUrl</code> <code>smdpStatus</code> <code>eid</code> <code>activeType</code> <code>expiredTime</code> <code>totalVolume</code> <code>totalDuration</code> <code>durationUnit</code> <code>orderUsage</code> <code>esimStatus</code> <code>packageList</code>	

PageParam Domain	Type	MOC	Description	Example
<code>pageSize</code>	Integer	mandatory	Page size, range: [5, 500]	<code>10</code>
<code>pageNum</code>	Integer	mandatory	Page number, value range: [1, 10000]	<code>1</code>
<code>total</code>	Long	mandatory	Total number of Profiles	<code>120</code>

[View More](#)

eSIM Domain	Type	MOC	Description	Example
-------------	------	-----	-------------	---------

<code>esimTranNo</code>	String	mandatory	eSIM transaction number	221027063819 12
<code>orderNo</code>	String	mandatory	Order number	B221027063819 924
<code>imsi</code>	String	optional	IMSI	454006109846 571
<code>iccid</code>	String	optional	ICCID	898522452800 00942210
<code>msisdn</code>	String	optional	MSISDN	xxxxx
<code>smsStatus</code>	Integer	mandatory	<p>0 Does not support SMS</p> <p>1 Can accept SMS sent by mobile phones and API</p> <p>2 Only SMS sent by API is acceptable.</p>	0
<code>dataType</code>	Integer	mandatory	<p>1.Data in Total</p> <p>2.Daily Limit (Speed Reduced)</p> <p>3.Daily Limit (Service Cut-off)</p> <p>4.Unlimited</p>	1
<code>ac</code>	String	mandatory	eSIM Activation Code <code>LPA:1\${SM-DP+_ADDRESS}\${MATCHING_ID}</code>	LPA:1\$rsp-eu .redteamobil e.com\$451F98 02E6854E3E85 FB985235EDB4 E5
<code>qrCodeUrl</code>	String	mandatory	QR Code URL	http://static.redtea.io/hedy/qrcode/s/image/d6dbada5054a4dfe b941e601327a4b42.png

<code>smdpStatus</code>	String	mandatory	SM-DP+ status: <code>RELEASED</code> : Profile is ready for download <code>DOWNLOAD</code> : Profile has been downloaded <code>INSTALLATION</code> : Profile has been installed <code>ENABLED</code> : Profile has been enabled <code>DISABLED</code> : Profile has been disabled <code>DELETED</code> : Profile has been deleted	<code>RELEASED</code>
<code>eid</code>	String	optional	EID	
<code>activeType</code>	String	mandatory	Activation type: <code>1</code> : First installation. <code>2</code> : First network connection.	<code>1</code>
<code>expiredTime</code>	DateTime	mandatory	Expiration time	<code>2023-03-03T06:20:00+0000</code>
<code>totalVolume</code>	Long	mandatory	Total data volume (in bytes) in the package	<code>1073741824</code>
<code>totalDuration</code>	Integer	mandatory	Total valid period of the package	<code>7</code>
<code>durationUnit</code>	String	mandatory	Time unit	<code>DAY</code>
<code>orderUsage</code>	Long	mandatory	Volume (in bytes) of used data	<code>0</code>
<code>pin puk</code>	String	optional	PIN, PUK values if any	<code>329393</code>
<code>apn</code>	String	optional	APN value	<code>drei.at</code>

<code>esimStatus</code>	String	mandatory	<p><code>CREATE</code> an order has been created</p> <p><code>PAYING</code> the subscriber is making payment for the eSIM</p> <p><code>PAID</code> the eSIM has been paid</p> <p><code>GETTING_RESOURCE</code> the eSIM is being allocated for the order</p> <p><code>GOT_RESOURCE</code> the eSIM has been allocated for the order</p> <p><code>IN_USE</code> the eSIM data package is in use</p> <p><code>USED_UP</code> the data in the package is used up</p> <p><code>UNUSED_EXPIRED</code> The valid period for eSIM download has expired</p> <p><code>USED_EXPIRED</code> the valid period for the order activation has expired</p> <p><code>CANCEL</code> the order has been canceled</p> <p><code>SUSPENDED</code> the order has been suspended via suspend endpoint.</p> <p><code>REVOKE</code> the order has been revoked via revoke endpoint.</p>	<code>UNUSED_EXPIRED</code>
<code>packageList</code>	List	mandatory	Includes: <code>packageCode</code> <code>duration</code> <code>volume</code> <code>locationCode</code>	

eSIM Domain	Type	MOC	Description	Example
packageCode	String	mandatory	Package ID	CKH179
duration	Integer	mandatory	Valid period of the order	7
volume	Long	mandatory	Data volume (in bytes) in the order	1073741824
locationCode	String	mandatory	Country code of plan	JP

## AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

### Body raw (json)

```
json
{
    "orderNo": "B25080914060004",
    "iccid": "",
    "pager": {
        "pageNum": 1,
        "pageSize": 50
    }
}
```

## POST Cancel Profile

<https://api.esimaccess.com/api/v1/open/esim/cancel>

Cancel an inactive, unused eSIM profile.

The eSIM `price` is refunded to your balance.

This operation is available when `esimStatus` is `GOT_RESOURCE` and `smdpStatus` is `RELEASED` meaning the eSIM was created, but not installed on a device.

Cancel endpoint not available once user has installed the eSIM.

It is recommended to use the `esimTranNo` when making a cancel request.

*Use the Cancel Profile endpoint to make refunds, test eSIM purchases and return the value of unused eSIM to your account balance.*

### Request Parameters

Name	Type	MOC	Description	Example
<code>iccid</code>	String	optional	eSIM ICCID	898522462800 01113119
<code>esimTranNo</code>	String	optional	get from "Query All Allocated Profiles"  use "iccid" or "esimTranNo", can't be blank at the same time  recommended.	241113195421 01

### Response Parameters

Name	Type	MOC	Description	Example
<code>success</code>	String	mandatory	<code>true</code> : succeeded <code>false</code> : failed	<code>true</code>
<code>errorCode</code>	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed	<code>null</code>
<code>errorMessage</code>	String	optional	Explanation of the error code	<code>null</code>
<code>obj</code>	Object	optional	Includes	<code>{}</code>

## AUTHORIZATION API Key

This request is using API Key from collectioneSIM Access API

### Body raw (json)

```
json
{
    "esimTranNo": "23120118156818"
}
```

## POST Suspend Profile

<https://api.esimaccess.com/api/v1/open/esim/suspend>

Request to suspend or pause data service to an esim profile.

### Request Parameters

Name	Type	MOC	Description	Example
iccid	String	optional	eSIM ICCID	898522462800 01113119
esimTranNo	String	optional	get from "Query All Allocated Profiles"  use "iccid" or "esimTranNo", can't be blank at the same time  recommended.	241113195421 01

### Response Parameters

Name	Type	MOC	Description	Example
success	String	mandatory	true: succeeded false: failed	true
errorCode	String	optional	null or 0 when successful. Error code when failed	null
errorMessage	String	optional	Explanation of the error code	null
obj	Object	optional	Includes	{}

### AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

### Body raw (json)

```
json
{
    "iccid": "89852245280001138065"
}
```

## POST Unsuspend Profile

<https://api.esimaccess.com/api/v1/open/esim/unsuspend>  
Request to unsuspend or reactivate data service to an esim profile.

### Request Parameters

Name	Type	MOC	Description	Example
<code>iccid</code>	String	optional	eSIM ICCID	898522462800 01113119
<code>esimTranNo</code>	String	optional	get from "Query All Allocated Profiles"  use "iccid" or "esimTranNo", can't be blank at the same time  recommended.	241113195421 01

### Response Parameters

Name	Type	MOC	Description	Example
<code>success</code>	String	mandatory	<code>true</code> : succeeded <code>false</code> : failed	<code>true</code>
<code>errorCode</code>	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed	<code>null</code>
<code>errorMessage</code>	String	optional	Explanation of the error code	<code>null</code>
<code>obj</code>	Object	optional	Includes	<code>{}</code>

### AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

Body raw (json)

```
json
{
    "iccid": "89852245280001138065"
}
```

## POST Revoke Profile

<https://api.esimaccess.com/api/v1/open/esim/revoke>

Request to close and remove an active eSIM and data plan. Non-refundable.

### Request Parameters

Name	Type	MOC	Description	Example
iccid	String	optional	eSIM ICCID	898522462800 01113119
esimTranNo	String	optional	get from "Query All Allocated Profiles"  use "iccid" or "esimTranNo", can't be blank at the same time  recommended.	241113195421 01

### Response Parameters

Name	Type	MOC	Description	Example
success	String	mandatory	<code>true</code> : succeeded <code>false</code> : failed	<code>true</code>
errorCode	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed	<code>null</code>
errorMessage	String	optional	Explanation of the error code	<code>null</code>
obj	Object	optional	Includes	<code>{}</code>

### AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

### Body raw (json)

```
json
{
    "iccid": "89852245280001138065"
}
```

## POSTBalance Query

<https://api.esimaccess.com/api/v1/open/balance/query>

Query the `balance` of a merchant account. Balance is used when ordering data profiles.

### Request Parameters

None.

### Response Parameters

Name	Type	MOC	Description	Example
<code>success</code>	String	mandatory	<code>true</code> : succeeded <code>false</code> : failed	<code>true</code>
<code>errorCode</code>	String	optional	<code>null</code> or <code>0</code> when successful. Error code when failed.	<code>null</code>
<code>errorMessage</code>	String	optional	Explanation of the error code	<code>null</code>
<code>obj</code>	Object	optional	Includes: <code>balance</code>	
Domain	Type	MOC	Description	Example
<code>balance</code>	Long	mandatory	Merchant balance, expressed *10000 (100000 = \$10.00)	<code>100000</code>

AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

## POST Top Up

<https://api.esimaccess.com/api/v1/open/esim/topup>

Before making a top up, it is recommended to query the available top up plans (Get All Data Packages endpoint) for a specific `iccid`, `esimTranNo` or `packageCode` first. This will give you available top up packages specific to this eSIM.

The top up endpoint allows an existing installed eSIM to be loaded with a new plan. To top up the plan, you need its ICCID or esimTranNo and the compatible top up data plan `packageCode`.

Top ups can be requested while the eSIM is in New, In Use or Depleted status, but not after eSIM expiry.

### Request Parameters

Name	Type	MOC	Description	Example
<code>iccid</code>	String	optional	eSIM ICCID (deprecated, use <code>esimTranNo</code> )	898522462800 01113119
<code>esimTranNo</code>	String	optional	get from "Query All Allocated Profiles"  use "iccid" or "esimTranNo", can't be blank at the same time  recommended.	241113195421 01
<code>packageCode</code>	String	required	Recharge Package Number	SM001
<code>amount</code>	String	optional	Price of package, if used will be verified.	10000
<code>transactionId</code>	String	required	User created transaction ID	TXN-123

### Response Parameters

obj	Type	MOC	Description	Example
<code>transactionId</code>	String	required	Transaction ID returned	TXN-123
<code>iccid</code>	String	required	ICCID of the eSIM	898522452800 01354019

<code>expiredTime</code>	Long	required	New date of package expiry	2023-08-17T17:01:37+0000
<code>totalVolume</code>	Long	required	New volume of data	4294967296
<code>totalDuration</code>	Integer	required	New duration in days	28
<code>orderUsage</code>	Long	required	Total data usage	207239584

## AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

### Body raw (json)

```
json
{
    "esimTranNo":"",
    "iccid":"89852000263213655345",
    "packageCode":"TOPUP_JC172",
    "transactionId": "1747191693771_topup_partner7"
}
```

## POST Set Webhook

<https://api.esimaccess.com/api/v1/open/webhook/save>

Set or update your webhook URL via an API call. You can find the result in your console account [here](#).

You can also view the currently set webhook with the following endpoint:

</api/v1/open/webhook/query>

AUTHORIZATION [API Key](#)

This request is using API Key from collection [eSIM Access API](#)

Body raw (json)

json

```
{ "webhook": "https://webhook.endpoint.site/unique-webhook" }
```

## POST Send SMS

<https://api.esimaccess.com/api/v1/open/esim/sendSms>

This endpoint is used to send SMS to an eSIM via `iccid` or `esimTranNo`. Supported by some networks. Only installed eSIMs that supports receiving SMS will work.

The `smsStatus` parameter in the `/order` and `/package` endpoints indicates whether the eSIM supports receiving SMS (`"smsStatus": 1` or `2`). There is currently no cost for SMS delivery.

### Request Parameters

Name	Type	MOC	Description	Example
<code>iccid</code>	String	optional	eSIM ICCID	898522462800 01113119
<code>esimTranNo</code>		optional	get from "Query All Allocated Profiles"  use "iccid" or "esimTranNo", can't be blank at the same time  recommended.	241113195421 01
<code>message</code>	String(500)	required	SMS message, up to 500 characters.	"Thank you for using our eSIM service"

AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

Body raw (json)

```
json
{
    "esimTranNo": "23072017992029",
    "message": "Your Message!"
}
```

## POST Usage Check

<https://api.esimaccess.com/api/v1/open/esim/usage/query>

Check the data usage of up to 10 eSIMs via their `esimTranNo`. Returns the amount of `dataUsage`, the `totalData` in the plan, and the `lastUpdateTime` timestamp of the most recent data used value update.

*Important Note: Data usage is updated every 2-3 hours and is not real time.*

Field	Type	Description	Example
<code>esimTranNo</code>	String	eSIM transaction number	23072017992029
<code>dataUsage</code>	Long	Data usage in Bytes	1453344832
<code>totalData</code>	Long	Total data in Bytes	5368709120
<code>lastUpdateTime</code>	String	The timestamp for the last call record update. For file-based records, this is the last full hour of settlement; for carrier data usage notifications, it is the settlement time recorded in the notification; for the carrier's real-time call record API, it is the time when the API was called.	2025-03-19T18:00:00+0000

AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

Body raw (json)

```
json
{
  "esimTranNoList": ["25030303480009"]
}
```

## POST Supported Regions

<https://api.esimaccess.com/api/v1/open/location/list>

Check our currently supported countries and plan codes.

Field	Type	Description	Example
code	String	Region code	ES NA-3
name	String	Region name	Spain North America
type	Integer	Region type: 1 for single-country, 2 for multi-country	1
subLocation	List	Sub-regions (exists only when type = 2)	

Each SubLocation object contains:

Field	Type	Description	Example
code	String	Region code	
name	String	Region name	

## AUTHORIZATION API Key

This request is using API Key from collection [eSIM Access API](#)

Body raw (json)

json

```
{ }
```

# Webhooks

## Endpoint Setup

Adding your webhook the first time will trigger a test webhook send. If you have a correctly working endpoint, you will receive an `CHECK_HEALTH` event. If our test send fails, your endpoint cannot be saved. To check a valid endpoint try <https://webhook.site/>

```
{"notifyType": "CHECK_HEALTH", "content": {"orderNo": "1234567890", "orderStatus": "Test"} }**
```

Set your webhook URL to receive POST requests\*\* in your account.

The notifications contain a `notifyType` field indicating the event category and a `content` object with specific details. Here are the types you can expect:

1. `ORDER_STATUS`
  - a. Trigger: Sent when an eSIM is created and ready for retrieval.
  - b. Key `content` field: `orderStatus` will be `GOT_RESOURCE`.
  - c. Example Use: Used to know when your eSIM order is ready for download.
2. `SMDP_EVENT`
  - a. Trigger: Sent during real-time eSIM profile lifecycle events as they occur on the SM-DP+ server.
  - b. Key `content` fields:
    - i. `eid`: eUICC identifier of the device.
    - ii. `iccid`: ID of the eSIM.
    - iii. `esimStatus`: Current eSIM state (typically `GOT_RESOURCE` during provisioning, `IN_USE` when active).
    - iv. `smdpStatus`: SM-DP+ server status indicating the specific operation:
      - a. `DOWNLOAD`: eSIM profile is being downloaded to the device.
      - b. `INSTALLATION`: eSIM profile is being installed on the device.
      - c. `ENABLED`: eSIM has been activated/enabled on the device.
      - d. `DISABLED`: eSIM profile has been deactivated/disabled on the device..
      - e. `DELETED`: eSIM profile has been removed from the device.
  - c. Example Use: Track real-time eSIM provisioning progress and profile state changes for detailed lifecycle monitoring.
3. `ESIM_STATUS`
  - a. Trigger: Sent when the status of an individual eSIM changes after it has been allocated. This covers various lifecycle events.
  - b. Key `content` fields:
    - i. `esimStatus`: Indicates the current state. Common values observed include:
      - a. `IN_USE`: The eSIM has been installed/activated on a device.
      - b. `USED_UP`: The eSIM data allowance has been fully consumed.
      - c. `USED_EXPIRED`: The eSIM data is used up, and expired.
      - d. `UNUSED_EXPIRED`: The eSIM expired with data remaining.
      - e. `CANCEL`: The eSIM has been canceled / refunded.
      - f. `REVOKED`: The eSIM profile has been revoked.

- ii. `smdpStatus`: SM-DP+ server status (e.g., ENABLED, DISABLED, RELEASED, DELETED, INSTALLATION).
  - c. Example Use: Track activation, data exhaustion, expiration, or cancellations for specific eSIMs and notify customers.
4. `DATA_USAGE`
- a. Trigger: 3 data usage webhooks will be sent when reaching 50% (0.5) data used, 80%(0.8) data used and 90%(0.9) data used.
  - b. Key `content` fields:
    - i. `totalVolume`: Total data allowance in bytes.
    - ii. `orderUsage`: Data used so far in bytes.
    - iii. `remain`: Remaining data in bytes.
    - iv. `remainThreshold`: Values can be: 0.5, 0.8 and 0.9
  - c. Example Use: Proactively notify end-users about low data balance.
5. `VALIDITY_USAGE`
- a. Trigger: Sent when the remaining validity period of an active eSIM reaches 1 day.
  - b. Key `content` fields:
    - i. `remain`: The remaining validity duration (e.g., 1).
    - ii. `durationUnit`: The unit for the duration (e.g., "DAY").
    - iii. `expiredTime`: The exact timestamp when the eSIM will expire.
    - iv. `totalDuration`: The original validity duration.
  - c. Example Use: Warn end-users that their plan is about to expire.

## IP Whitelist

For additional security, you can whitelist the following sender IPs:

- 3.1.131.226
- 54.254.74.88
- 18.136.190.97
- 18.136.60.197
- 18.136.19.137

Note: The `content` object structure may vary slightly. Always inspect the received payload to understand all available fields for each `notifyType`.

Look at our example webhook sending and test trigger form.

```
json
{
  "notifyType": "ORDER_STATUS",
  "content": {
    "orderNo": "B23072016497499",
    "orderStatus": "GOT_RESOURCE"
  }
}
```

[View More](#)

json

```
{  
    "notifyType": "SMDP_EVENT",  
    "eventGenerateTime": "2025-09-11T13:28:09+0000",  
    "notifyId": "5fcc219e32dc484598d3fd700cf3738d",  
    "content": {  
        "eid": "89049032007108882600137544319616",  
        "iccid": "8997250230000292199",  
        "esimStatus": "GOT_RESOURCE",  
        "smdpStatus": "DOWNLOAD",  
        "orderNo": "B25091113270004",  
        "esimTranNo": "25091113270004",  
        "transactionId": "12068951785848-1-1"  
    }  
}
```

}

[View More](#)

json

```
{  
    "notifyType": "DATA_USAGE",  
    "eventGenerateTime": "2025-07-21T10:57:28Z",  
    "notifyId": "f776267e8d6745db8cc316e4c146ea0c",  
    "content": {  
        "orderNo": "B25052822150009",  
        "transactionId": "unique_id_from_partner",  
        "esimTranNo": "25052822150009",  
        "iccid": "8943108170001029631",  
        "totalVolume": 53687091200,  
        "orderUsage": 48335585458,  
        "remain": 5351505742,  
        "lastUpdateTime": "2025-07-21T09:38:25Z",  
        "remainThreshold": 0.1  
    }  
}
```

}

[View More](#)

json

```
{  
    "notifyType": "VALIDITY_USAGE",  
    "content": {  
        "orderNo": "B23072016497499",  
        "transactionId": "Your_txn_id",  
        "iccid": "894310817000000003",  
        "durationUnit": "DAY",  
        "totalDuration": 30,
```

```
        "expiredTime": "2024-01-11T08:10:19Z",
        "remain": 1
    }

}
```

[View More](#)

json

```
{
    "notifyType": "ESIM_STATUS",
    "eventGenerateTime": "2025-08-09T00:23:45Z",
    "notifyId": "4038b3dfb1b050bf9f02501df67284f3",
    "content": {
        "orderNo": "B25080823490018",
        "esimTranNo": "25080323490020",
        "transactionId": "e23111e4d07746889c7bce41cf3f1b16",
        "iccid": "89852000263413436720",
        "esimStatus": "CANCEL",
        "smdpStatus": "RELEASED"
    }
}
```

AUTHORIZATION API Key

This folder is using API Key from collection [eSIM Access API](#)